PROFESSIONAL SERVICES AGREEMENT
FOR
NETWORK MANAGED SERVICES

BETWEEN

COOK COUNTY GOVERNMENT

BUREAU OF TECHNOLOGY

AND

SENTINEL TECHNOLOGIES, INC.

CONTRACT NO. 2003-18509
(PURCHASE ORDER NO. 70000220269)

PROFESSIONAL SERVICES AGREEMENT

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Exhibit 8 Cook County Travel Policy
Exhibit 9 Electronic Payables Program
Exhibit 10 Federal Bureau of Investigation Criminal Justice Information Services Security Addendum
Exhibit 11 Economic Disclosure Statement

AGREEMENT

This Agreement is made and entered into by and between the County of Cook, a public body corporate of the State of Illinois, on behalf of Office of the Chief Procurement Officer hereinafter referred to as "County" and **Sentinel Technologies, Inc** , doing business as a(an) Corporation of the State of Illinois hereinafter referred to as "Consultant", pursuant to authorization by the Cook County Board of Commissioners on **March 17, 2022** , as evidenced by Board Authorization letter attached hereto as EXHIBIT "5".

BACKGROUND

The County of Cook issued a Request for Proposals "RFP" for Network Managed Services. Proposals were evaluated in accordance with the evaluation criteria published in the RFP. The Consultant was selected based on the proposal submitted and evaluated by the County representatives.

Consultant represents that it has the professional experience and expertise to provide the necessary services and further warrants that it is ready, willing and able to perform in accordance with the terms and conditions as set forth in this Agreement.

NOW, THEREFORE, the County and Consultant agree as follows:

TERMS AND CONDITIONS

ARTICLE 1) INCORPORATION OF BACKGROUND

The Background information set forth above is incorporated by reference as if fully set forth here.

ARTICLE 2) DEFINITIONS

a) Definitions

The following words and phrases have the following meanings for purposes of this Agreement:

"**Additional Services**" means those services which are within the general scope of Services of this Agreement, but beyond the description of services required under Article 3, and all services reasonably necessary to complete the Additional Services to the standards of performance required by this Agreement. Any Additional Services requested by the Using Agency require the approval of the Chief Procurement Officer in a written amendment to this Agreement before Consultant is obligated to perform those Additional Services and before the County becomes obligated to pay for those Additional Services.

"**Agreement**" means this Professional Services Agreement, including all exhibits attached to it and incorporated in it by reference, and all amendments, modifications or revisions made in accordance with its terms.

"**Chief Procurement Officer**" means the Chief Procurement Officer for the County of Cook and any representative duly authorized in writing to act on his behalf.

"**Services**" means, collectively, the services, duties and responsibilities described in Article 3 of this Agreement and any and all work necessary to complete them or carry them out fully and to the standard of performance required in this Agreement.

"**Subcontractor**" or **"Subconsultant"** means any person or entity with whom Consultant contracts to provide any part of the Services, of any tier, suppliers and materials providers, whether or not in privity with Consultant.

"Using Agency" shall mean the department of agency within Cook County including elected officials.

b) Interpretation

i) The term "**include**" (in all its forms) means "include, without limitation" unless the context clearly states otherwise.

ii) All references in this Agreement to Articles, Sections or Exhibits, unless otherwise expressed or indicated are to the Articles, Sections or Exhibits of this Agreement.

iii) Words importing persons include firms, associations, partnerships, trusts, corporations and other legal entities, including public bodies, as well as natural persons.

iv) Any headings preceding the text of the Articles and Sections of this Agreement, and any tables of contents or marginal notes appended to it are solely for convenience or reference and do not constitute a part of this Agreement, nor do they affect the meaning, construction or effect of this Agreement.

v) Words importing the singular include the plural and vice versa. Words of the masculine gender include the correlative words of the feminine and neuter genders.

vi) All references to a number of days mean calendar days, unless expressly indicated otherwise.

c) Incorporation of Exhibits

The following attached Exhibits are made a part of this Agreement:

Exhibit 1	Scope of Services
Exhibit 2	Schedule of Compensation
Exhibit 3	Minority and Women Owned Business Enterprise Commitment
Exhibit 4	Evidence of Insurance
Exhibit 5	Board Authorization
Exhibit 6	Cook County IT Special Conditions
Exhibit 7	Identification of Subcontractor/Supplier/Subconsultant
Exhibit 8	Cook County Travel Policy
Exhibit 9	Electronic Payables Program
Exhibit 10	Federal Bureau of Investigation Criminal Justice Information Services Security Addendum
Exhibit 11	Economic Disclosure Statement

ARTICLE 3) DUTIES AND RESPONSIBILITIES OF CONSULTANT

a) Scope of Services

This description of Services is intended to be general in nature and is neither a complete description of Consultant's Services nor a limitation on the Services that Consultant is to provide under this Agreement. Consultant must provide the Services in accordance with the standards of performance set forth in Section 3c. The Services that Consultant must provide include, but are not limited to, those described in Exhibit 1, Scope of Services and Time Limits for Performance, which is attached to this Agreement and incorporated by reference as if fully set forth here.

b) Deliverables

In carrying out its Services, Consultant must prepare or provide to the County various Deliverables. "**Deliverables**" include work product, such as written reviews, recommendations, reports and analyses, produced by Consultant for the County.

The County may reject Deliverables that do not include relevant information or data, or do not include all documents or other materials specified in this Agreement or reasonably necessary for the purpose for which the County made this Agreement or for which the County intends to use the Deliverables. If the County determines that Consultant has failed to comply with the foregoing standards, it has 30 days from the discovery to notify Consultant of its failure. If Consultant does not correct the failure, if it is possible to do so, within 30 days after receipt of notice from the County specifying the failure, then the County, by written notice, may treat the failure as a default of this Agreement under Article 9.

Partial or incomplete Deliverables may be accepted for review only when required for a specific and well-defined purpose and when consented to in advance by the County. Such Deliverables will not be considered as satisfying the requirements of this Agreement and partial or incomplete Deliverables in no way relieve Consultant of its commitments under this Agreement.

c) Standard of Performance

Consultant must perform all Services required of it under this Agreement with that degree of skill, care and diligence normally shown by a consultant performing services of a scope and purpose and magnitude comparable with the nature of the Services to be provided under this Agreement. Consultant acknowledges that it is entrusted with or has access to valuable and confidential information and records of the County and with respect to that information, Consultant agrees to be held to the standard of care of a fiduciary.

Consultant must assure that all Services that require the exercise of professional skills or judgment are accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed, if required by law. Consultant must provide copies of any such licenses. Consultant remains responsible for the professional and technical accuracy of all Services or Deliverables furnished, whether by Consultant or its Subconsultants or others on its behalf. All Deliverables must be prepared in a form and content satisfactory to the Using Agency and delivered in a timely manner consistent with the requirements of this Agreement.

If Consultant fails to comply with the foregoing standards, Consultant must perform again, at its own expense, all Services required to be re-performed as a direct or indirect result of that failure. Any review, approval, acceptance or payment for any of the Services by the County does not relieve Consultant of its responsibility for the professional skill and care and technical accuracy of its Services and Deliverables. This provision in no way limits the County's rights against Consultant either under this Agreement, at law or in equity.

d) Personnel

i) **Adequate Staffing**

Consultant must, upon receiving a fully executed copy of this Agreement, assign and maintain during the term of this Agreement and any extension of it an adequate staff of competent personnel that is fully equipped, licensed as appropriate, available as needed, qualified and assigned exclusively to perform the Services. Consultant must include among its staff the Key Personnel and positions as identified below. The level of staffing may be revised from time to time by notice in writing from Consultant to the County and with written consent of the County, which consent the County will not withhold unreasonably. If the County fails to object to the revision within 14 days after receiving the notice, then the revision will be considered accepted by the County.

ii) **Key Personnel**

Consultant must not reassign or replace Key Personnel without the written consent of the County, which consent the County will not unreasonably withhold. "**Key Personnel**" means those job titles and the persons assigned to those positions in accordance with the provisions of this Section 3.d(ii). The Using Agency may at any time in writing notify Consultant that the County will no longer accept performance of Services under this Agreement by one or more Key Personnel listed. Upon that notice Consultant must immediately suspend the services of the key person or persons and must replace him or them in accordance with the terms of this Agreement. A list of Key Personnel is found in Exhibit 1, Scope of Services.

iii) **Salaries and Wages**

Consultant and Subconsultants must pay all salaries and wages due all employees performing Services under this Agreement unconditionally and at least once a month without deduction or rebate on any account, except only for those payroll deductions that are mandatory by law or are permitted under applicable law and regulations. If in the performance of this Agreement Consultant underpays any such salaries or wages, the Comptroller for the County may withhold, out of payments due to Consultant, an amount sufficient to pay to employees underpaid the difference between the salaries or wages required to be paid under this Agreement and the salaries or wages actually paid these employees for the total number of hours worked. The amounts withheld may be disbursed by the Comptroller for and on account of Consultant to the respective employees to whom they are due. The parties acknowledge that this Section 3.d(iii) is solely for the benefit of the County and that it does not grant any third party beneficiary rights.

e) Minority and Women Owned Business Enterprises Commitment

In the performance of this Agreement, including the procurement and lease of materials or equipment, Consultant must abide by the minority and women's business enterprise commitment requirements of the Cook County Ordinance, (Article IV, Section 34-267 through 272) except to the extent waived by the Compliance Director, which are set forth in Exhibit 3. Consultant's completed MBE/WBE Utilization Plan evidencing its compliance with this requirement are a part of this Agreement, in Form 1 of the MBE/WBE Utilization Plan, upon acceptance by the Compliance Director. Consultant must utilize minority and women's business enterprises at the greater of the amounts committed to by the Consultant for this Agreement in accordance with Form 1 of the MBE/WBE Utilization Plan.

f) Insurance

Insurance Requirements

The Contractor, at its cost, shall secure and maintain at all times, unless specified otherwise, until completion of the term of this Contract the insurance specified below.

Nothing contained in these insurance requirements is to be construed as limiting the extent of the
Contractor's responsibility for payment of damages resulting from its operations under this Contract.

The Contractor shall require all Subcontractors to provide the insurance required in this Agreement, or Contractor may provide the coverages for Subcontractors. All Subcontractors are subject to the same insurance requirements as Contractor except paragraph (d) Excess/Umbrella Liability or unless specified otherwise.

The Cook County Department of Risk Management maintains the right to modify, delete, alter or change these requirements.

Coverages

(a) **Workers Compensation Insurance**

Workers' Compensation shall be in accordance with the laws of the State of Illinois or any other applicable jurisdiction.

The Workers Compensation policy shall also include the following provisions:

Employers' Liability coverage with a limit of
$1,000,000 each Accident
$1,000,000 each Employee
$1,000,000 Policy Limit for Disease

(b) **Commercial General Liability Insurance**

The Commercial General Liability shall be on an occurrence form basis (ISO Form CG 0001 or equivalent) to cover bodily injury, personal injury and property damage.

Each Occurrence	$1,000,000
General Aggregate	$2,000,000
Completed Operations Aggregate	$2,000,000

The General Liability policy shall include the following coverages:
(1) All premises and operations;
(2) Contractual Liability;
(3) Products/Completed Operations;
(4) Severability of interest/separation of insureds clause

(c) **Commercial Automobile Liability Insurance**

When any vehicles are used in the performance of this contract, Contractor shall

secure Automobile Liability Insurance for bodily injury and property damage arising from the Ownership, maintenance or use of owned, hired and non-owned vehicles with a limit no less than $1,000,000 per accident.

(d) **Excess/Umbrella Liability**

Such policy shall be excess over Commercial General Liability, Automobile Liability, and Employer's Liability with limits not less than the following amounts:

Each Occurrence: $1,000,000

(e) **Professional Liability (Errors & Omissions)**

Insurance appropriate to the Contractor's profession covering all claims arising out of the performance or nonperformance of professional services for the County under this agreement. This insurance shall remain in force for the life of the Contractor's obligations under this agreement and shall have a limit of liability of not less than $2,000,000 per claim.

If any such policy is written on a claims-made form:
(1) The retroactive coverage date shall be no later than the effective date of this contract.
(2) If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date on or before this contract effective date, the Contractor must maintain "extended reporting" coverage for a minimum of three (3) year after completion of services.

(f) **Network Security & Privacy Liability (Cyber Liability)**

The Contractor shall secure coverage for first and third-party claims with limits not less than $2,000,000 per occurrence or claim, $2,000,000 aggregate. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken in this agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

If any such policy is written on a claims-made form:
(1) The retroactive coverage date shall be no later than the effective date of this contract.
(2) If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date on or before this contract effective date,

the Contractor must maintain "extended reporting" coverage for a minimum of three (3) year after completion of services.

Additional requirements

(a) **Additional Insured**

The required insurance policies, apart from Workers Compensation and Professional Liability, shall name Cook County, its officials, employees and agents as additional insureds with respect to operations performed on a primary and non-contributory basis. Any insurance or self-insurance maintained by Cook County shall be excess of the Contractor's insurance and shall not contribute with it. The full policy limits and scope of protection shall apply to Cook County as an additional insured even if they exceed the minimum insurance requirements specified herein.

All insurance companies providing coverage shall be licensed or approved by the Department of Insurance, State of Illinois, and shall have a financial rating no lower than (A-) VII as listed in A.M. Best's Key Rating Guide, current edition or interim report. Companies with ratings lower than (A-) VII will be acceptable only upon consent of the Cook County Department of Risk Management. The insurance limits required herein may be satisfied by a combination of primary, umbrella and/or excess liability insurance policies.

(b) **Insurance Notices**

The Contractor shall provide the Office of the Chief Procurement Officer with thirty (30) days advance written notice in the event any required insurance will be cancelled, materially reduced or non-renewed. The Contractor shall secure replacement coverage to comply with the stated insurance requirements and provide new certificates of insurance to the Office of the Chief Procurement Officer.

Prior to the date on which the Contractor commences performance of its part of the work, the Contractor shall furnish to the Office of the Chief Procurement Officer certificates of insurance maintained by Contractor. The receipt of any certificate of insurance does not constitute agreement by the County that the insurance requirements have been fully met or that the insurance policies indicated on the certificate of insurance are in compliance with insurance required above.

In no event shall any failure of the County to receive certificates of insurance required hereof or to demand receipt of such Certificates of Insurance be construed as a waiver of the Contractor's obligations to obtain insurance pursuant to these insurance requirements.

(c) **Waiver of Subrogation Endorsements**

All insurance policies must contain a Waiver of Subrogation Endorsement in favor of

Cook County.

g) Indemnification

The Consultant covenants and agrees to indemnify and save harmless the County and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns, from and against any and all costs, expenses, attorney's fees, losses, damages and liabilities incurred or suffered directly or indirectly from or attributable to any claims arising out of or incident to the performance or nonperformance of the Contract by the Consultant, or the acts or omissions of the officers, agents, employees, Consultants, subconsultants, licensees or invitees of the Consultant. The Consultant expressly understands and agrees that any Performance Bond or insurance protection required of the Consultant, or otherwise provided by the Consultant, shall in no way limit the responsibility to indemnify the County as hereinabove provided.

h) Confidentiality and Ownership of Documents

Consultant acknowledges and agrees that information regarding this Contract is confidential and shall not be disclosed, directly, indirectly or by implication, or be used by Consultant in any way, whether during the term of this Contract or at any time thereafter, except solely as required in the course of Consultant's performance hereunder. Consultant shall comply with the applicable privacy laws and regulations affecting County and will not disclose any of County's records, materials, or other data to any third party. Consultant shall not have the right to compile and distribute statistical analyses and reports utilizing data derived from information or data obtained from County without the prior written approval of County. In the event such approval is given, any such reports published and distributed by Consultant shall be furnished to County without charge.

All documents, data, studies, reports, work product or product created as a result of the performance of the Contract (the "Documents") shall be included in the Deliverables and shall be the property of the County of Cook. It shall be a breach of this Contract for the Consultant to reproduce or use any documents, data, studies, reports, work product or product obtained from the County of Cook or any Documents created hereby, whether such reproduction or use is for Consultant's own purposes or for those of any third party. During the performance of the Contract Consultant shall be responsible of any loss or damage to the Documents while they are in Consultant's possession, and any such loss or damage shall be restored at the expense of the Consultant. The County and its designees shall be afforded full access to the Documents and the work at all times.

i) Patents, Copyrights and Licenses

If applicable, Consultant shall furnish the Chief Procurement Officer with all licenses required for the County to utilize any software, including firmware or middleware, provided by Consultant as part of the Deliverables. Such licenses shall be clearly marked with a reference to the number of this County Contract. Consultant shall also furnish a copy of such licenses to the Chief Procurement Officer. Unless otherwise stated in these Contract

documents, such licenses shall be perpetual and shall not limit the number of persons who may utilize the software on behalf of the County.

Consultant agrees to hold harmless and indemnify the County, its officers, agents, employees and affiliates from and defend, as permitted by Illinois law, at its own expense (including reasonable attorneys', accountants' and consultants' fees), any suit or proceeding brought against County based upon a claim that the ownership and/or use of equipment, hardware and software or any part thereof provided to the County or utilized in performing Consultant's services constitutes an infringement of any patent, copyright or license or any other property right.

In the event the use of any equipment, hardware or software or any part thereof is enjoined, Consultant with all reasonable speed and due diligence shall provide or otherwise secure for County, at the Consultant's election, one of the following: the right to continue use of the equipment, hardware or software; an equivalent system having the Specifications as provided in this Contract; or Consultant shall modify the system or its component parts so that they become non-infringing while performing in a substantially similar manner to the original system, meeting the requirements of this Contract.

j) Examination of Records and Audits

The Consultant agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after the final payment under the Contract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices, and records of the Consultant related to the Contract, or to Consultant's compliance with any term, condition or provision thereof. The Consultant shall be responsible for establishing and maintaining records sufficient to document the costs associated with performance under the terms of this Contract.

The Consultant further agrees that it shall include in all of its subcontracts hereunder a provision to the effect that the Subcontractor agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after final payment under the subcontract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices and records of such Subcontractor involving transactions relating to the subcontract, or to such Subcontractor compliance with any term, condition or provision thereunder or under the Contract.

In the event the Consultant receives payment under the Contract, reimbursement for which is later disallowed by the County, the Consultant shall promptly refund the disallowed amount to the County on request, or at the County's option, the County may credit the amount disallowed from the next payment due or to become due to the Consultant under any contract with the County.

To the extent this Contract pertains to Deliverables which may be reimbursable under the Medicaid or Medicare Programs, Consultant shall retain and make available upon request, for a period of four (4) years after furnishing services pursuant to this Agreement, the

contract, books, documents and records which are necessary to certify the nature and extent of the costs of such services if requested by the Secretary of Health and Human Services or the Comptroller General of the United States or any of their duly authorized representatives.

If Consultant carries out any of its duties under the Agreement through a subcontract with a related organization involving a value of cost of $10,000.00 or more over a 12 month period, Consultant will cause such subcontract to contain a clause to the effect that, until the expiration of four years after the furnishing of any service pursuant to said subcontract, the related organization will make available upon request of the Secretary of Health and Human Services or the Comptroller General of the United States or any of their duly authorized representatives, copies of said subcontract and any books, documents, records and other data of said related organization that are necessary to certify the nature and extent of such costs. This paragraph relating to the retention and production of documents is included because of possible application of Section 1861(v)(1)(I) of the Social Security Act to this Agreement; if this Section should be found to be inapplicable, then this paragraph shall be deemed inoperative and without force and effect.

k) Subcontracting or Assignment of Contract or Contract Funds

Once awarded, this Contract shall not be subcontracted or assigned, in whole or in part, without the advance written approval of the Chief Procurement Officer, which approval shall be granted or withheld at the sole discretion of the Chief Procurement Officer. In no case, however, shall such approval relieve the Consultant from its obligations or change the terms of the Contract. The Consultant shall not transfer or assign any Contract funds or any interest therein due or to become due without the advance written approval of the Chief Procurement Officer. The unauthorized subcontracting or assignment of the Contract, in whole or in part, or the unauthorized transfer or assignment of any Contract funds, either in whole or in part, or any interest therein, which shall be due or are to become due the Consultant shall have no effect on the County and are null and void.

Prior to the commencement of the Contract, the Consultant shall identify in writing to the Chief Procurement Officer the names of any and all Subcontractors it intends to use in the performance of the Contract by completing the Identification of Subcontractor/Supplier/ Subconsultant Form ("ISF"). The Chief Procurement Officer shall have the right to disapprove any Subcontractor. All Subcontractors shall be subject to the terms of this Contract. Consultant shall incorporate into all subcontracts all of the provisions of the Contract which affect such subcontract. Copies of subcontracts shall be provided to the Chief Procurement Officer upon request.

The Consultant must disclose the name and business address of each Subcontractor, attorney, lobbyist, accountant, consultant and any other person or entity whom the Consultant has retained or expects to retain in connection with the Matter, as well as the nature of the relationship, and the total amount of the fees paid or estimated to be paid. The Consultant is not required to disclose employees who are paid or estimated to be paid. The Consultant is not required to disclose employees who are paid solely through the Consultant's regular payroll. "Lobbyist" means any person or entity who undertakes to influence any legislation

or administrative action on behalf of any person or entity other than: (1) a not-for-profit entity, on an unpaid basis, or (2), himself.

"Lobbyist" also means any person or entity any part of whose duties as an employee of another includes undertaking to influence any legislative or administrative action. If the Consultant is uncertain whether a disclosure is required under this Section, the Consultant must either ask the County, whether disclosure is required or make the disclosure.

The County reserves the right to prohibit any person from entering any County facility for any reason. All Consultants and Subcontractor of the Consultant shall be accountable to the Chief Procurement Officer or his designee while on any County property and shall abide by all rules and regulations imposed by the County.

l) Professional Social Services

In accordance with 34-146, of the Cook County Procurement Code, all Consultants or providers providing services under a Professional Social Service Contracts or Professional Social Services Agreements, shall submit an annual performance report to the Using Agency, i.e., the agency for whom the Consultant or provider is providing the professional social services, that includes but is not limited to relevant statistics, an empirical analysis where applicable, and a written narrative describing the goals and objectives of the contract or agreement and programmatic outcomes. The annual performance report shall be provided and reported to the Cook County Board of Commissioners by the applicable Using Agency within forty-five days of receipt. Failure of the Consultant or provider to provide an annual performance report will be considered a breach of contract or agreement by the Consultant or provider, and may result in termination of the Contract or agreement.

For purposes of this Section, a Professional Social Service Contract or Professional Social Service Agreement shall mean any contract or agreement with a social service provider, including other governmental agencies, nonprofit organizations, or for profit business enterprises engaged in the field of and providing social services, juvenile justice, mental health treatment, alternative sentencing, offender rehabilitation, recidivism reduction, foster care, substance abuse treatment, domestic violence services, community transitioning services, intervention, or such other similar services which provide mental, social or physical treatment and services to individuals. Said Professional Social Service Contracts or Professional Social Service Agreements do not include CCHHS managed care contracts that CCHHS may enter into with health care providers.

ARTICLE 4) TERM OF PERFORMANCE

a) Term of Performance

This Agreement takes effect when approved by the Cook County Board and its term shall begin on **April 01, 2022** ("**Effective Date**") and continue until **March 31, 2027** or until this Agreement is terminated in accordance with its terms, whichever occurs first.

b) Timeliness of Performance

i) Consultant must provide the Services and Deliverables within the term and within the time limits required under this Agreement, pursuant to the provisions of Section 4.a and Exhibit 1. Further, Consultant acknowledges that TIME IS OF THE ESSENCE and that the failure of Consultant to comply with the time limits described in this Section 4.b may result in economic or other losses to the County.

ii) Neither Consultant nor Consultant's agents, employees nor Subcontractors are entitled to any damages from the County, nor is any party entitled to be reimbursed by the County, for damages, charges or other losses or expenses incurred by Consultant by reason of delays or hindrances in the performance of the Services, whether or not caused by the County.

c) Agreement Extension Option

The Chief Procurement Officer may at any time before this Agreement expires elect to renew this Agreement for **two (2) additional one-year periods** under the same terms and conditions as this original Agreement, except as provided otherwise in this Agreement, by notice in writing to Consultant. After notification by the Chief Procurement Officer, this Agreement must be modified to reflect the time extension in accordance with the provisions of Section 10.c.

ARTICLE 5) COMPENSATION

a) Basis of Payment

The County will pay Consultant according to the Schedule of Compensation in the attached Exhibit 2 for the successful completion of services.

b) Method of Payment

All invoices submitted by the Consultant shall be in accordance with the cost provisions contained in the Agreement and shall contain a detailed description of the Deliverables, including the quantity of the Deliverables, for which payment is requested. All invoices for services shall include itemized entries indicating the date or time period in which the services were provided, the amount of time spent performing the services, and a detailed description of the services provided during the period of the invoice. All Contracts for services that are procured as Sole Source must also contain a provision requiring the Contractor to submit itemized records indicating the dates that services were provided, a detailed description of the work performed on each such date, and the amount of time spent performing work on each such date. All invoices shall reflect the amounts invoiced by and the amounts paid to the Consultant as of the date of the invoice. Invoices for new charges shall not include "past due" amounts, if any, which amounts must be set forth on a separate invoice. Consultant shall not be entitled to invoice the County for any late fees or other penalties.

In accordance with Section 34-177 of the Cook County Procurement Code, the County shall have a right to set off and subtract from any invoice(s) or Contract price, a sum equal to any fines and penalties, including interest, for any tax or fee delinquency and any debt or obligation owed by the Consultant to the County.

The Consultant acknowledges its duty to ensure the accuracy of all invoices submitted to the County for payment. By submitting the invoices, the Consultant certifies that all itemized entries set forth in the invoices are true and correct. The Consultant acknowledges that by submitting the invoices, it certifies that it has delivered the Deliverables, i.e., the goods, supplies, services or equipment set forth in the Agreement to the Using Agency, or that it has properly performed the services set forth in the Agreement. The invoice must also reflect the dates and amount of time expended in the provision of services under the Agreement. The Consultant acknowledges that any inaccurate statements or negligent or intentional misrepresentations in the invoices shall result in the County exercising all remedies available to it in law and equity including, but not limited to, a delay in payment or non-payment to the Consultant, and reporting the matter to the Cook County Office of the Independent Inspector General.

When a Consultant receives any payment from the County for any supplies, equipment, goods, or services, it has provided to the County pursuant to its Agreement, the Consultant must make payment to its Subcontractors within 15 days after receipt of payment from the County, provided that such Subcontractor has satisfactorily provided the supplies, equipment, goods or services in accordance with the Contract and provided the Consultant with all of the documents and information required of the Consultant. The Consultant may delay or postpone payment to a Subcontractor when the Subcontractor's supplies, equipment, goods, or services do not comply with the requirements of the Contract, the Consultant is acting in good faith, and not in retaliation for a Subcontractor exercising legal or contractual rights.

c) Funding

The source of funds for payments under this Agreement is identified in Exhibit 2, Schedule of Compensation. Payments under this Agreement must not exceed the dollar amount shown in Exhibit 2 without a written amendment in accordance with Section 10.c.

d) Non-Appropriation

If no funds or insufficient funds are appropriated and budgeted in any fiscal period of the County for payments to be made under this Agreement, then the County will notify Consultant in writing of that occurrence, and this Agreement will terminate on the earlier of the last day of the fiscal period for which sufficient appropriation was made or whenever the funds appropriated for payment under this Agreement are exhausted. Payments for Services completed to the date of notification will be made to Consultant. No payments will be made or due to Consultant and under this Agreement beyond those amounts appropriated and budgeted by the County to fund payments under this Agreement.

e) Taxes

Federal Excise Tax does not apply to materials purchased by the County by virtue of Exemption Certificate No. 36-75-0038K. Illinois Retailers' Occupation Tax, Use Tax and Municipal Retailers' Occupation Tax do not apply to deliverables, materials or services purchased by the County by virtue of statute. The price or prices quoted herein shall include any and all other federal and/or state, direct and/or indirect taxes which apply to this Contract. The County's State of Illinois Sales Tax Exemption Identification No. is E-9998-2013-07.

f) Price Reduction

If at any time after the contract award, Consultant makes a general price reduction in the price of any of the Deliverables, the equivalent price reduction based on similar quantities and/or considerations shall apply to this Contract for the duration of the Contract period. For purposes of this Section 5.f., Price Reduction, a general price reduction shall include reductions in the effective price charged by Consultant by reason of rebates, financial incentives, discounts, value points or other benefits with respect to the purchase of the Deliverables. Such price reductions shall be effective at the same time and in the same manner as the reduction Consultant makes in the price of the Deliverables to its prospective customers generally.

g) Consultant Credits

To the extent the Consultant gives credits toward future purchases of goods or services, financial incentives, discounts, value points or other benefits based on the purchase of the materials or services provided for under this Contract, such credits belong to the County and not any specific Using Agency. Consultant shall reflect any such credits on its invoices and in the amounts it invoices the County.

ARTICLE 6) DISPUTES

Any dispute arising under the Contract between the County and Consultant shall be decided by the Chief Procurement Officer. The complaining party shall submit a written statement detailing the dispute and specifying the specific relevant Contract provision(s) to the Chief Procurement Officer. Upon request of the Chief Procurement Officer, the party complained against shall respond to the complaint in writing within five days of such request. The Chief Procurement Officer will reduce her decision to writing and mail or otherwise furnish a copy thereof to the Consultant. The decision of the Chief Procurement Officer will be final and binding. Dispute resolution as provided herein shall be a condition precedent to any other action at law or in equity. However, unless a notice is issued by the Chief Procurement Officer indicating that additional time is required to review a dispute, the parties may exercise their contractual remedies, if any, if no decision is made within sixty (60) days following notification to the Chief Procurement Officer of a dispute. No inference shall be drawn from the absence of a decision by the Chief Procurement Officer.
Notwithstanding a dispute, Consultant shall continue to discharge all its obligations, duties and responsibilities set forth in the Contract during any dispute resolution proceeding unless otherwise agreed to by the County in writing.

ARTICLE 7) COOPERATION WITH INSPECTOR GENERAL AND COMPLIANCE WITH ALL LAWS

The Consultant, Subcontractor, licensees, grantees or persons or businesses who have a County contract, grant, license, or certification of eligibility for County contracts shall abide by all of the applicable provisions of the Office of the Independent Inspector General Ordinance (Section 2-281 et. seq. of the Cook County Code of Ordinances). Failure to cooperate as required may result in monetary and/or other penalties.

The Consultant shall observe and comply with the laws, ordinances, regulations and codes of the Federal, State, County and other local government agencies which may in any manner affect the performance of the Contract including, but not limited to, those County Ordinances set forth in the Certifications attached hereto and incorporated herein. Assurance of compliance with this requirement by the Consultant's employees, agents or Subcontractor shall be the responsibility of the Consultant.

The Consultant shall secure and pay for all federal, state and local licenses, permits and fees required hereunder.

ARTICLE 8) SPECIAL CONDITIONS

a) Warranties and Representations

In connection with signing and carrying out this Agreement, Consultant:

i) warrants that Consultant is appropriately licensed under Illinois law to perform the Services required under this Agreement and will perform no Services for which a professional license is required by law and for which Consultant is not appropriately licensed;

ii) warrants it is financially solvent; it and each of its employees, agents and Subcontractors of any tier are competent to perform the Services required under this Agreement; and Consultant is legally authorized to execute and perform or cause to be performed this Agreement under the terms and conditions stated in this Agreement;

iii) warrants that it will not knowingly use the services of any ineligible consultant or Subcontractor for any purpose in the performance of its Services under this Agreement;

iv) warrants that Consultant and its Subcontractors are not in default at the time this Agreement is signed, and has not been considered by the Chief Procurement Officer to have, within 5 years immediately preceding the date of this Agreement, been found to be in default on any contract awarded by the County;

v) represents that it has carefully examined and analyzed the provisions and requirements of this Agreement; it understands the nature of the Services required; from its own analysis it has satisfied itself as to the nature of all things needed for the performance of this Agreement; this Agreement is feasible of performance in accordance with all of its provisions and requirements, and Consultant warrants it can and will perform, or cause to be performed, the Services in strict accordance with the provisions and requirements of this Agreement;

vi) represents that Consultant and, to the best of its knowledge, its Subcontractors are not in violation of the provisions of the Illinois Criminal Code, 720 ILCS 5/33E as amended; and

vii) acknowledges that any certification, affidavit or acknowledgment made under oath in connection with this Agreement is made under penalty of perjury and, if false, is also cause for termination under Sections 9.a and 9.c.

b) Ethics

i) In addition to the foregoing warranties and representations, Consultant warrants:

(1) no officer, agent or employee of the County is employed by Consultant or has a financial interest directly or indirectly in this Agreement or the compensation to be paid under this Agreement except as may be permitted in writing by the Board of Ethics.

(2) no payment, gratuity or offer of employment will be made in connection with this Agreement by or on behalf of any Subcontractors to the prime Consultant or higher tier Subcontractors or anyone associated with them, as an inducement for the award of a subcontract or order.

c) Joint and Several Liability

If Consultant, or its successors or assigns, if any, is comprised of more than one individual or other legal entity (or a combination of them), then under this Agreement, each and without limitation every obligation or undertaking in this Agreement to be fulfilled or performed by Consultant is the joint and several obligation or undertaking of each such individual or other legal entity.

d) Business Documents

At the request of the County, Consultant must provide copies of its latest articles of incorporation, by-laws and resolutions, or partnership or joint venture agreement, as applicable.

e) Conflicts of Interest

i) No member of the governing body of the County or other unit of government and

no other officer, employee or agent of the County or other unit of government who exercises any functions or responsibilities in connection with the Services to which this Agreement pertains is permitted to have any personal interest, direct or indirect, in this Agreement. No member of or delegate to the Congress of the United States or the Illinois General Assembly and no Commissioner of the Cook County Board or County employee is allowed to be admitted to any share or part of this Agreement or to any financial benefit to arise from it.

ii) Consultant covenants that it, and to the best of its knowledge, its Subcontractors if any (collectively, "**Consulting Parties**"), presently have no direct or indirect interest and will not acquire any interest, direct or indirect, in any project or contract that would conflict in any manner or degree with the performance of its Services under this Agreement.

iii) Upon the request of the County, Consultant must disclose to the County its past client list and the names of any clients with whom it has an ongoing relationship. Consultant is not permitted to perform any Services for the County on applications or other documents submitted to the County by any of Consultant's past or present clients. If Consultant becomes aware of a conflict, it must immediately stop work on the assignment causing the conflict and notify the County.

iv) Without limiting the foregoing, if the Consulting Parties assist the County in determining the advisability or feasibility of a project or in recommending, researching, preparing, drafting or issuing a request for proposals or bid specifications for a project, the Consulting Parties must not participate, directly or indirectly, as a prime, Subcontractor or joint venturer in that project or in the preparation of a proposal or bid for that project during the term of this Agreement or afterwards. The Consulting Parties may, however, assist the County in reviewing the proposals or bids for the project if none of the Consulting Parties have a relationship with the persons or entities that submitted the proposals or bids for that project.

v) The Consultant further covenants that, in the performance of this Agreement, no person having any conflicting interest will be assigned to perform any Services or have access to any confidential information, as defined in Section 3.h of this Agreement. If the County, by the Chief Procurement Officer in his reasonable judgment, determines that any of Consultant's Services for others conflict with the Services Consultant is to render for the County under this Agreement, Consultant must terminate such other services immediately upon request of the County.

vi) Furthermore, if any federal funds are to be used to compensate or reimburse Consultant under this Agreement, Consultant represents that it is and will remain in compliance with federal restrictions on lobbying set forth in Section 319 of the Department of the Interior and Related Agencies Appropriations Act for Fiscal year 1990, 31 U.S.C. § 1352, and related rules and regulations set forth at 54 Fed. Reg. 52,309 ff. (1989), as amended. If federal funds are to be used, Consultant must

execute a Certification Regarding Lobbying, which will be attached as an exhibit and incorporated by reference as if fully set forth here.

f) Non-Liability of Public Officials

Consultant and any assignee or Subcontractor of Consultant must not charge any official, employee or agent of the County personally with any liability or expenses of defense or hold any official, employee or agent of the County personally liable to them under any term or provision of this Agreement or because of the County's execution, attempted execution or any breach of this Agreement.

ARTICLE 9) EVENTS OF DEFAULT, REMEDIES, TERMINATION, SUSPENSION AND RIGHT TO OFFSET

a) Events of Default Defined

The following constitute events of default:

i) Any material misrepresentation, whether negligent or willful and whether in the inducement or in the performance, made by Consultant to the County.

ii) Consultant's material failure to perform any of its obligations under this Agreement including the following:

(a) Failure due to a reason or circumstances within Consultant's reasonable control to perform the Services with sufficient personnel and equipment or with sufficient material to ensure the performance of the Services;

(b) Failure to perform the Services in a manner reasonably satisfactory to the Chief Procurement Officer or inability to perform the Services satisfactorily as a result of insolvency, filing for bankruptcy or assignment for the benefit of creditors;

(c) Failure to promptly re-perform within a reasonable time Services that were rejected as erroneous or unsatisfactory;

(d) Discontinuance of the Services for reasons within Consultant's reasonable control; and

(e) Failure to comply with any other material term of this Agreement, including the provisions concerning insurance and nondiscrimination.

iii) Any change in ownership or control of Consultant without the prior written approval of the Chief Procurement Officer, which approval the Chief Procurement Officer will not unreasonably withhold.

iv) Consultant's default under any other agreement it may presently have or may enter into with the County during the life of this Agreement. Consultant acknowledges and agrees that in the event of a default under this Agreement the County may also declare a default under any such other Agreements.

v) Failure to comply with Article 7 in the performance of the Agreement.

vi) Consultant's repeated or continued violations of County ordinances unrelated to performance under the Agreement that in the opinion of the Chief Procurement Officer indicate a willful or reckless disregard for County laws and regulations.

b) Remedies

The occurrence of any event of default permits the County, at the County's sole option, to declare Consultant in default. The Chief Procurement Officer may in his sole discretion give Consultant an opportunity to cure the default within a certain period of time, which period of time must not exceed 30 days, unless extended by the Chief Procurement Officer. Whether to declare Consultant in default is within the sole discretion of the Chief Procurement Officer and neither that decision nor the factual basis for it is subject to review or challenge under the Disputes provision of this Agreement.

The Chief Procurement Officer will give Consultant written notice of the default, either in the form of a cure notice ("**Cure Notice**"), or, if no opportunity to cure will be granted, a default notice ("**Default Notice**"). If the Chief Procurement Officer gives a Default Notice, he will also indicate any present intent he may have to terminate this Agreement, and the decision to terminate (but not the decision not to terminate) is final and effective upon giving the notice. The Chief Procurement Officer may give a Default Notice if Consultant fails to affect a cure within the cure period given in a Cure Notice. When a Default Notice with intent to terminate is given as provided in this Section 9.b and Article 11, Consultant must discontinue any Services, unless otherwise directed in the notice, and deliver all materials accumulated in the performance of this Agreement, whether completed or in the process, to the County. After giving a Default Notice, the County may invoke any or all of the following remedies:

i) The right to take over and complete the Services, or any part of them, at Consultant's expense and as agent for Consultant, either directly or through others, and bill Consultant for the cost of the Services, and Consultant must pay the difference between the total amount of this bill and the amount the County would have paid Consultant under the terms and conditions of this Agreement for the Services that were assumed by the County as agent for the Consultant under this Section 9.b;

ii) The right to terminate this Agreement as to any or all of the Services yet to be performed effective at a time specified by the County;

iii) The right of specific performance, an injunction or any other appropriate equitable remedy;

iv) The right to money damages;

v) The right to withhold all or any part of Consultant's compensation under this Agreement;

vi) The right to consider Consultant non-responsible in future contracts to be awarded by the County.

If the Chief Procurement Officer considers it to be in the County's best interests, he may elect not to declare default or to terminate this Agreement. The parties acknowledge that this provision is solely for the benefit of the County and that if the County permits Consultant to continue to provide the Services despite one or more events of default, Consultant is in no way relieved of any of its responsibilities, duties or obligations under this Agreement, nor does the County waive or relinquish any of its rights.

The remedies under the terms of this Agreement are not intended to be exclusive of any other remedies provided, but each and every such remedy is cumulative and is in addition to any other remedies, existing now or later, at law, in equity or by statute. No delay or omission to exercise any right or power accruing upon any event of default impairs any such right or power, nor is it a waiver of any event of default nor acquiescence in it, and every such right and power may be exercised from time to time and as often as the County considers expedient.

c) Early Termination

In addition to termination under Sections 9.a and 9.b of this Agreement, the County may terminate this Agreement, or all or any portion of the Services to be performed under it, at any time by a notice in writing from the County to Consultant. The County will give notice to Consultant in accordance with the provisions of Article 11. The effective date of termination will be the date the notice is received by Consultant or the date stated in the notice, whichever is later. If the County elects to terminate this Agreement in full, all Services to be provided under it must cease and all materials that may have been accumulated in performing this Agreement, whether completed or in the process, must be delivered to the County effective 10 days after the date the notice is considered received as provided under Article 11 of this Agreement (if no date is given) or upon the effective date stated in the notice.

After the notice is received, Consultant must restrict its activities, and those of its Subcontractors, to winding down any reports, analyses, or other activities previously begun. No costs incurred after the effective date of the termination are allowed. Payment for any Services actually and satisfactorily performed before the effective date of the termination is on the same basis as set forth in Article 5, but if any compensation is described or provided for on the basis of a period longer than 10 days, then the

compensation must be prorated accordingly. No amount of compensation, however, is permitted for anticipated profits on unperformed Services. The County and Consultant must attempt to agree on the amount of compensation to be paid to Consultant, but if not agreed on, the dispute must be settled in accordance with Article 6 of this Agreement. The payment so made to Consultant is in full settlement for all Services satisfactorily performed under this Agreement.

Consultant must include in its contracts with Subcontractors an early termination provision in form and substance equivalent to this early termination provision to prevent claims against the County arising from termination of subcontracts after the early termination. Consultant will not be entitled to make any early termination claims against the County resulting from any Subcontractor's claims against Consultant or the County to the extent inconsistent with this provision.

If the County's election to terminate this Agreement for default under Sections 9.a and 9.b is determined in a court of competent jurisdiction to have been wrongful, then in that case the termination is to be considered to be an early termination under this Section 9.c.

d) Suspension

The County may at any time request that Consultant suspend its Services, or any part of them, by giving 15 days prior written notice to Consultant or upon informal oral, or even no notice, in the event of emergency. No costs incurred after the effective date of such suspension are allowed. Consultant must promptly resume its performance of the Services under the same terms and conditions as stated in this Agreement upon written notice by the Chief Procurement Officer and such equitable extension of time as may be mutually agreed upon by the Chief Procurement Officer and Consultant when necessary for continuation or completion of Services. Any additional costs or expenses actually incurred by Consultant as a result of recommencing the Services must be treated in accordance with the compensation provisions under Article 5 of this Agreement.

No suspension of this Agreement is permitted in the aggregate to exceed a period of 45 days within any one year of this Agreement. If the total number of days of suspension exceeds 45 days, Consultant by written notice may treat the suspension as an early termination of this Agreement under Section 9.c.

e) Right to Offset

In connection with performance under this Agreement, the County may offset any excess costs incurred:

i) if the County terminates this Agreement for default or any other reason resulting from Consultant's performance or non-performance;

ii) if the County exercises any of its remedies under Section 9.b of this Agreement; or

iii) if the County has any credits due or has made any overpayments under this Agreement.

The County may offset these excess costs by use of any payment due for Services completed before the County terminated this Agreement or before the County exercised any remedies. If the amount offset is insufficient to cover those excess costs, Consultant is liable for and must promptly remit to the County the balance upon written demand for it. This right to offset is in addition to and not a limitation of any other remedies available to the County.

f) Delays

Consultant agrees that no charges or claims for damages shall be made by Consultant for any delays or hindrances from any cause whatsoever during the progress of any portion of this Contract.

g) Prepaid Fees

In the event this Contract is terminated by either party, for cause or otherwise, and the County has prepaid for any Deliverables, Consultant shall refund to the County, on a prorated basis to the effective date of termination, all amounts prepaid for Deliverables not actually provided as of the effective date of the termination. The refund shall be made within fourteen (14) days of the effective date of termination.

ARTICLE 10) GENERAL CONDITIONS

a) Entire Agreement

i) **General**

This Agreement, and the exhibits attached to it and incorporated in it, constitute the entire agreement between the parties and no other warranties, inducements, considerations, promises or interpretations are implied or impressed upon this Agreement that are not expressly addressed in this Agreement.

ii) **No Collateral Agreements**

Consultant acknowledges that, except only for those representations, statements or promises expressly contained in this Agreement and any exhibits attached to it and incorporated by reference in it, no representation, statement or promise, oral or in writing, of any kind whatsoever, by the County, its officials, agents or employees, has induced Consultant to enter into this Agreement or has been relied upon by Consultant, including any with reference to:

(a) the meaning, correctness, suitability or completeness of any provisions or

requirements of this Agreement;

(b) the nature of the Services to be performed;

(c) the nature, quantity, quality or volume of any materials, equipment, labor and other facilities needed for the performance of this Agreement;

(d) the general conditions which may in any way affect this Agreement or its performance;

(e) the compensation provisions of this Agreement; or

(f) any other matters, whether similar to or different from those referred to in (a) through (e) immediately above, affecting or having any connection with this Agreement, its negotiation, any discussions of its performance or those employed or connected or concerned with it.

iii) **No Omissions**

Consultant acknowledges that Consultant was given an opportunity to review all documents forming this Agreement before signing this Agreement in order that it might request inclusion in this Agreement of any statement, representation, promise or provision that it desired or on that it wished to place reliance. Consultant did so review those documents, and either every such statement, representation, promise or provision has been included in this Agreement or else, if omitted, Consultant relinquishes the benefit of any such omitted statement, representation, promise or provision and is willing to perform this Agreement in its entirety without claiming reliance on it or making any other claim on account of its omission.

b) Counterparts

This Agreement is comprised of several identical counterparts, each to be fully signed by the parties and each to be considered an original having identical legal effect.

c) Contract Amendments

The parties may during the term of the Contract make amendments to the Contract but only as provided in this section. Such amendments shall only be made by mutual agreement in writing.

In the case of Contracts not approved by the Board, the Chief Procurement Officer may amend a contract provided that any such amendment does not extend the Contract by more than one (1) year, and further provided that the total cost of all such amendments does not increase the total amount of the Contract beyond $150,000. Such action may only be made with the advance written approval of the Chief Procurement Officer. If the amendment extends the Contract beyond one (1) year or increases the total award amount beyond $150,000, then Board approval will be required.

No Using Agency or employee thereof has authority to make any amendments to this Contract. Any amendments to this Contract made without the express written approval of the Chief Procurement Officer is void and unenforceable.

Consultant is hereby notified that, except for amendments which are made in accordance with this Section10.c. Contract Amendments, no Using Agency or employee thereof has authority to make any amendment to this Contract.

d) Governing Law and Jurisdiction

This Contract shall be governed by and construed under the laws of the State of Illinois. The Consultant irrevocably agrees that, subject to the County's sole and absolute election to the contrary, any action or proceeding in any way, manner or respect arising out of the Contract, or arising from any dispute or controversy arising in connection with or related to the Contract, shall be litigated only in courts within the Circuit Court of Cook County, State of Illinois, and the Consultant consents and submits to the jurisdiction thereof. In accordance with these provisions, Consultant waives any right it may have to transfer or change the venue of any litigation brought against it by the County pursuant to this Contract.

e) Severability

If any provision of this Agreement is held or considered to be or is in fact invalid, illegal, inoperative or unenforceable as applied in any particular case in any jurisdiction or in all cases because it conflicts with any other provision or provisions of this Agreement or of any constitution, statute, ordinance, rule of law or public policy, or for any other reason, those circumstances do not have the effect of rendering the provision in question invalid, illegal, inoperative or unenforceable in any other case or circumstances, or of rendering any other provision or provisions in this Agreement invalid, illegal, inoperative or unenforceable to any extent whatsoever. The invalidity, illegality, inoperativeness or unenforceability of any one or more phrases, sentences, clauses or sections in this Agreement does not affect the remaining portions of this Agreement or any part of it.

f) Assigns

All of the terms and conditions of this Agreement are binding upon and inure to the benefit of the parties and their respective legal representatives, successors and assigns.

g) Cooperation

Consultant must at all times cooperate fully with the County and act in the County's best interests. If this Agreement is terminated for any reason, or if it is to expire on its own terms, Consultant must make every effort to assure an orderly transition to another provider of the Services, if any, orderly demobilization of its own operations in connection with the Services, uninterrupted provision of Services during any transition period and must otherwise comply with the reasonable requests and requirements of the Using Agency in connection with the termination or expiration.

h) Waiver

Nothing in this Agreement authorizes the waiver of a requirement or condition contrary to law or ordinance or that would result in or promote the violation of any federal, state or local law or ordinance.

Whenever under this Agreement the County by a proper authority waives Consultant's performance in any respect or waives a requirement or condition to either the County's or Consultant's performance, the waiver so granted, whether express or implied, only applies to the particular instance and is not a waiver forever or for subsequent instances of the performance, requirement or condition. No such waiver is a modification of this Agreement regardless of the number of times the County may have waived the performance, requirement or condition. Such waivers must be provided to Consultant in writing.

i) Independent Consultant

This Agreement is not intended to and will not constitute, create, give rise to, or otherwise recognize a joint venture, partnership, corporation or other formal business association or organization of any kind between Consultant and the County. The rights and the obligations of the parties are only those expressly set forth in this Agreement. Consultant must perform under this Agreement as an independent Consultant and not as a representative, employee, agent, or partner of the County.

This Agreement is between the County and an independent Consultant and, if Consultant is an individual, nothing provided for under this Agreement constitutes or implies an employer-employee relationship such that:

i) The County will not be liable under or by reason of this Agreement for the payment of any compensation award or damages in connection with the Consultant performing the Services required under this Agreement.

ii) Consultant is not entitled to membership in the County Pension Fund, Group Medical Insurance Program, Group Dental Program, Group Vision Care, Group Life Insurance Program, Deferred Income Program, vacation, sick leave, extended sick leave, or any other benefits ordinarily provided to individuals employed and paid through the regular payrolls of the County.

iv) The County is not required to deduct or withhold any taxes, FICA or other deductions from any compensation provided to the Consultant.

j) Governmental Joint Purchasing Agreement

Pursuant to Section 4 of the Illinois Governmental Joint Purchasing Act (30 ILCS 525) and the Joint Purchase Agreement approved by the Cook County Board of Commissioners

(April 9, 1965), other units of government may purchase goods or services under this contract.

In the event that other agencies participate in a joint procurement, the County reserves the right to renegotiate the price to accommodate the larger volume.

k) Comparable Government Procurement

As permitted by the County of Cook, other government entities, if authorized by law, may wish to purchase the goods, supplies, services or equipment under the same terms and conditions contained in this Contract (i.e., comparable government procurement). Each entity wishing to reference this Contract must have prior authorization from the County of Cook and the Consultant. If such participation is authorized, all purchase orders will be issued directly from and shipped directly to the entity requiring the goods, supplies, equipment or services supplies/services. The County shall not be held responsible for any orders placed, deliveries made or payment for the goods, supplies, equipment or services supplies/services ordered by these entities. Each entity reserves the right to determine the amount of goods, supplies, equipment or services it wishes to purchase under this Contract.

l) Force Majeure

Neither Consultant nor County shall be liable for failing to fulfill any obligation under this Contract if such failure is caused by an event beyond such party's reasonable control and which is not caused by such party's fault or negligence. Such events shall be limited to acts of God, acts of war, fires, lightning, floods, epidemics, or riots.

m) Federal Clauses

The following provisions apply to all Contracts which are funded in whole or in part with federal funds including without limitation the following:

1. <u>Interest of Members of or Delegates to the United States Congress</u>

In accordance with 41 U.S.C. § 22, the Contractor agrees that it will not admit any member of or delegate to the United States Congress to any share or part of the Contract or any benefit derived therefrom.

2. <u>False or Fraudulent Statements and Claims</u>

(a) The Contractor recognizes that the requirements of the Program Fraud Civil Remedies Act of 1986, as amended, 49 U.S.C. §§ 3081 et seq and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 C.F.R. Part 31, apply to its actions pertaining to the Contract. Accordingly, by signing the Contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, or it may make pertaining to the Contract, including without limitation any invoice for its services. In addition to other penalties that may be

applicable, the Contractor also acknowledges that if it makes a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986, as amended, on the Contractor to the extent the Federal Government deems appropriate.

(b) The Contractor also acknowledges that if it makes a false, fictitious, or fraudulent claim, statement, submission, or certification to the County or Federal Government in connection with an urbanized area formula project financed with Federal assistance authorized by 49 U.S.C. § 5307, the Government reserves the right to impose on the Contractor the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1), to the extent the Federal Government deems appropriate.

3. Federal Interest in Patents

(a) General. If any invention, improvement, or discovery of the Contractor is conceived or first actually reduced to practice in the course of or under the Contract, and that invention, improvement, or discovery is patentable under the laws of the Unites States of America or any foreign country, the Contractor agrees to notify County immediately and provide a detailed report.

(b) Federal Rights. Unless the Federal Government later makes a contrary determination in writing, the rights and responsibilities of the County, Contractor, and the Federal Government pertaining to that invention, improvement, or discovery will be determined in accordance with applicable Federal laws and regulations, including any waiver thereof. Unless the Federal Government later makes a contrary determination in writing, the Contractor agrees that, irrespective of its status or the status of any subcontractor at any tier (e.g., a large business, small business, non-profit organization, institution of higher education, individual), the Contractor agrees it will transmit to the Federal Government those rights due the Federal Government in any invention resulting from the contract.

4. Federal Interest in Data and Copyrights

(a) Definition. The term "subject data" used in this section means recorded information, whether or not copyrighted, that is delivered or specified to be delivered under the Contract. Examples include, but are not limited, to: computer software, engineering drawings and associated lists, specifications, standards, process sheets, manuals, technical reports, catalog item identifications, and related information. The term "subject data" does not include financial reports, cost analyses, and similar information incidental to Contract administration.

(b) Federal Restrictions. The following restrictions apply to all subject data first produced in the performance of the Contract. Except as provided in the Contract and except for its own internal use, the Contractor may not publish or publicly reproduce subject data in whole or in part, or in any manner or form, nor may the Contractor authorize others to do so, without the written consent of the County and the Federal Government, until such time as the Federal Government may have either released or approved the release of such data to the public.

(c) Federal Rights in Data and Copyrights. In accordance with subparts 34 and 36 of the Common Rule, the County and the Federal Government reserve a royalty-free, non-exclusive and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use, for County or Federal Government purposes, the types of subject data described below. Without the copyright owner's consent, the County and Federal Government may not extend their license to other parties.

(1) Any subject data developed under the contract or subagreement financed by a federal Grant Agreement or Cooperative Agreement, whether or not a copyright has been obtained; and

(2) Any rights of copyright which the Contractor purchases ownership with Federal assistance.

(d) Special Federal Rights for Planning Research and Development Projects. When the Federal Government provides financial assistance for a planning, research, development, or demonstration project, its general intention is to increase public knowledge, rather than limit the benefits of the project to participants in the project. Therefore, unless the Federal Government determines otherwise, the Contractor on a planning, research, development, or demonstration project agrees that, in addition to the rights in data and copyrights set forth above, the County or Federal Government may make available to any third party either a license in the copyright to the subject data or a copy of the subject data. If the project is not completed for any reason whatsoever, all data developed under the project will become subject data and will be delivered as the County or Federal Government may direct. This subsection, however, does not apply to adaptions of automatic data processing equipment or previously existing software programs for the County's use whose costs are financed with Federal transportation funds for capital projects.

(e) Hold Harmless. Unless prohibited by state law, upon request by the County or the Federal Government, the Contractor agrees to indemnify, save, and hold harmless the County and the Federal Government and their officers, agents, and employees acting within the scope of their official duties against any liability, including costs

and expenses, resulting from any willful or intentional violation by the Contractor of proprietary rights, copyrights, or right of privacy, arising out of the publication, translation, reproduction, delivery, use, or disposition of any data furnished under the Contract. The Contractor will not be required to indemnify the County or Federal Government for any such liability arising out of the wrongful acts of employees or agents of the County or Federal Government.

(f) Restrictions on Access to Patent Rights. Nothing contained in this section on rights in data will imply a license to the County or Federal Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the County or Federal Government under any patent.

(g) Application on Materials Incorporated into Project. The requirements of Subsections 2, 3, and 4 of this Section do not apply to material furnished by the County and incorporated into the work.

5. Records and Audits

Contractor will deliver or cause to be delivered all documents (including but not limited to all Deliverables and supporting data, records, graphs, charts and notes) prepared by or for the County under the terms of this Agreement to the County promptly in accordance with the time limits prescribed in this Contract, and if no time limit is specified, then upon reasonable demand therefor or upon termination or completion of the Services hereunder. In the event of the failure by the Contractor to make such delivery, then and in that event, the Contractor will pay to County reasonable damages the County may sustain by reason thereof.

The County and the Federal Government will have the right to audit all payments made to the Contractor under this Agreement. Any payments to the Contractor which exceed the amount to which the Contractor is entitled under the terms of this Agreement will be subject to set-off.

The Contractor will keep and retain records relating to this Agreement and will make such records available to representatives of the County and the Federal Government, including without limitation the sponsoring federal agency, other participating agencies, and the Comptroller General of the United States, at reasonable times during the performance of this Agreement and for at least five years after termination of this Agreement for purposes of audit, inspection, copying, transcribing and abstracting.

No provision in this Agreement granting the County or the Federal Government a right of access to records is intended to impair, limit or affect any right of access to such records which the County or the Federal Government would have had in the absence of such provisions.

6. Environmental Requirements

The Contractor recognizes that many Federal and state laws imposing environmental and resource conservation requirements may apply to the Contract. Some, but not all, of the major Federal Laws that may affect the Contract include: the National Environmental Policy Act of 1969, as amended, 42 U.S.C. §§ 4321 et seq.; the Clean Air Act, as amended, 42 U.S.C. §§ 7401 et seq. and scattered sections of 29 U.S.C.; the Clean Water Act, as amended, scattered sections of 33 U.S.C. and 12 U.S.C.; the Resource Conservation and Recovery Act, as amended, 42 U.S.C. §§ 6901 et seq.; and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9601 et seq. The Contractor also recognizes that U.S. EPA, U.S. DOT and other agencies of the Federal Government have issued and are expected in the future to issue regulations, guidelines, standards, orders, directives, or other requirements that may affect the Contract. Thus, the Contractor agrees to adhere to, and impose on its subcontractors, any such Federal requirements as the Federal Government may now or in the future promulgate. Listed below are requirements of particular concern.

The Contractor acknowledges that this list does not constitute the Contractor's entire obligation to meet all Federal environmental and resource conservation requirements. The Contractor will include these provisions in all subcontracts.

(a) Environmental Protection. The Contractor agrees to comply with the applicable requirements of the National Environmental Policy Act of 1969, as amended, 42 U.S.C. §§ 4321 et seq. in accordance with Executive Order No. 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations," 59 Fed. Reg. 7629, Feb. 16, 1994; U.S. DOT statutory requirements on environmental matters at 49 U.S.C. § 5324(b); Council on Environmental Quality regulations on compliance with the National Environmental Policy Act of 1969, as amended, 40 C.F.R. Part 1500 et seq.; and U.S. DOT regulations, "Environmental Impact and Related Procedures," 23 C.F.R. Part 771 and 49 C.F.R. Part 622.

(b) Air Quality. The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 et seq. Specifically, the Contractor agrees to comply with applicable requirements of U.S. EPA regulations, "Conformity to State of Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act," 40 C.F.R. Part 51, Subpart T; and "Determining Conformity of Federal Actions to State or Federal Implementation Plans," 40 C.F.R. Part 93. The Contractor further agrees to report and require each subcontractor at any tier to report any violation of these

requirements resulting from any Contract implementation activity to the County and the appropriate U.S. EPA Regional Office.

(c) Clean Water. The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§ 1251 et seq. The Contractor further agrees to report and require each subcontractor at any tier to report any violation of these requirements resulting from any Contract implementation activity to the County and the appropriate U.S. EPA Regional Office.

(d) List of Violating Facilities. The Contractor agrees that any facility to be used in the performance of the Contract or to benefit from the Contract will not be listed on the U.S. EPA List of Violating Facilities ("List"), and the Contractor will promptly notify the County if the Contractor receives any communication from the U.S. EPA that such a facility is under consideration for inclusion on the List.

(e) Preference for Recycled Products. To the extent practicable and economically feasible and to the extent that it does not reduce or impair the quality of the work, the Contractor agrees to use recycled products in performance of the Contract pursuant to U.S. Environment Protection Agency (U.S. EPA) guidelines at 40 C.F.R. Parts 247-253, which implement section 6002 of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6962.

7. No Exclusionary or Discriminatory Specifications

Apart from inconsistent requirements imposed by Federal statute or regulations, the Contractor agrees that it will comply with the requirements of 49 U.S.C. § 5323(h)(2) by refraining from using any Federal assistance to support subcontracts procured using exclusionary or discriminatory specifications.

8. Cargo Preference - Use of United States Flag Vessels

The Contractor agrees to comply with U.S. Maritime Administration regulations, "Cargo-Preference -- U.S. Flag Vessels," 49 C.F.R. Part 381, and to include the clauses required by those regulations, modified as necessary to identify the affected parties, in each subcontract or subagreement involving equipment, materials, or commodities suitable for transport by ocean vessel.

9. Fly America

Section 14.c of the Master Agreement states that if the contract or subcontracts may involve the international transportation of goods, equipment, or personnel by air, the contract must require Contractors and subcontractors at every tier to use U.S.-flag air carriers, to the extent service by these carriers is available. 49 U.S.C. 40118 and 4 C.F.R. Part 52.

10. No Federal Government Obligations to Third Parties

The Contractor agrees that, absent the Federal Government's express written consent, the Federal Government will not be subject to any obligations or liabilities to any contractor or any other person not a party to the Grant Agreement or Cooperative Agreement between the County and the Federal Government which is a source of funds for this Contract. Notwithstanding any concurrence provided by the Federal Government in or approval of any solicitation, agreement, or contract, the Federal Government continues to have no obligations or liabilities to any party, including the Contractor.

11. Allowable Costs

Notwithstanding any compensation provision to the contrary, the Contractor's compensation under this Contract will be limited to those amounts which are allowable and allocable to the Contract in accordance

with OMB Circular A-87 and the regulations in 49 C.F.R. Part 18. To the extent that an audit reveals that the Contractor has received payment in excess of such amounts, the County may offset such excess payments against any future payments due to the Contractor and, if no future payments are due or if future payments are less than such excess, the Contractor will promptly refund the amount of the excess payments to the County.

12. Trade Restrictions

Contractor certifies that neither it nor any Subcontractor:

(a) is owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);

(b) has knowingly entered into any contract or subcontract with a person that is a citizen or national of a foreign country on said list, nor is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;

(c) will procure, subcontract for, or recommend any product that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no Notice-to-Proceed will be issued to an entity who is unable to certify to the above. If Contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the project, the USDOT may direct, through the County, cancellation of the Contract at no cost to the Government.

Further, Contractor agrees that it will incorporate this provision for certification without modification in each subcontract. Contractor may rely on the certification of a prospective

Subcontractor unless it has knowledge that the certification is erroneous. Contractor will provide immediate written notice to the County if it learns that its certification or that of a Subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. Each Subcontractor must agree to provide written notice to Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances. Nothing contained in the foregoing will be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision.

The knowledge and information of the Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 100.

13. Contract Work Hours and Safety Standards Act

If applicable according to their terms, the Contractor agrees to comply and assures compliance with sections 102 and 107 of the Contract Work Hours and Safety Standards Act, as amended, 40 U.S.C. §§ 327 through 333, and implementing U.S. DOL regulations, "Labor Standards Provisions Applicable to Contracts Governing Federally Financed and Assisted Construction (also Labor Standards Provisions Applicable to Nonconstruction Contracts Subject to the Contract Work Hours and Safety Standards Act)," 29 C.F.R. Part 5; and U.S. DOL regulations, "Safety and Health Regulations for Construction," 29 C.F.R. Part 1926. In addition to other requirements that may apply:

(a) In accordance with section of the Contract Work Hours and Safety Standards Act, as amended, 40 U.S.C. §§ 327 through 332, the Contractor agrees and assures that, for the Contract, the wages of every mechanic and laborer will be computed on the basis of a standard work week of 40 hours, and that each worker will be compensated for work exceeding the standard work week at a rate of not less than 1.5 times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The Contractor agrees that determinations pertaining to these requirements will be made in accordance with applicable U.S. DOL regulations, "Labor Standards Provisions Applicable to Contracts Governing Federally Financed and Assisted Construction (also Labor Standards Provisions Applicable to Nonconstruction Contracts Subject to the Contract Work Hours and Safety Standards Act)," 29 C.F.R. Part 5.

(b) In accordance with section 107 of the Contract Work Hours and Safety Standards Act, as amended, 40 U.S.C. § 333, the contractor agrees and assures that no laborer or mechanic working on a construction contract will be required to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous to his or her health and safety, as determined in accordance with U.S.

DOL regulations, “Safety and Health Regulations for Construction,” 29 C.F.R. Part 1926.

14. Veteran’s Preference

In the employment of labor (except in executive, administrative, and supervisory positions), preference will be given to Vietnam-era veterans and disabled veterans. However, this preference may be given only where individuals are available and qualified to perform the work to which employment relates.

15. Copyright Ownership

Consultant and the County intend that, to the extent permitted by law, the Deliverables to be produced by Consultant at the County's instance and expense pursuant to this Agreement are conclusively deemed "works made for hire" within the meaning and purview of Section 101 of the United States Copyright Act, 17 U.S.C. §101 et seq. (the “Copyright Act”), and that the County will be the copyright owner of the Deliverables and of all aspects, elements and components of them in which copyright can subsist.

To the extent that any Deliverable does not qualify as a "work made for hire," Consultant irrevocably grants, conveys, bargains, sells, assigns, transfers and delivers to the County, its successors and assigns, all right, title and interest in and to the copyrights and all U.S. and foreign copyright registrations, copyright applications and copyright renewals for them, and other intangible, intellectual property embodied in or pertaining to the Deliverables prepared for the County under this Agreement, free and clear of any liens, claims or other encumbrances, to the fullest extent permitted by law. Consultant will execute all documents and perform all acts that the County may reasonably request in order to assist the County in perfecting its rights in and to the copyrights relating to the Deliverables, at the sole expense of the County.

Consultant warrants to County, its successors and assigns, that on the date of transfer Consultant is the lawful owner of good and marketable title in and to the copyrights for the Deliverables and has the legal rights to fully assign them. Consultant further warrants that it has not assigned any copyrights nor granted any licenses, exclusive or nonexclusive, to any other party, and that it is not a party to any other agreements or subject to any other restrictions with respect to the Deliverables. Consultant warrants and represents that the Deliverables are complete and comprehensive, and the Deliverables are a work of original authorship.

16. Accessibility Compliance

If this Agreement involves design for construction, the Consultant warrants that all design documents produced or utilized under this Agreement and all construction or alterations undertaken under this Agreement will comply with all federal, state and local laws and

regulations regarding accessibility standards for persons with disabilities or environmentally limited persons including, but not limited to, the following: the Americans with Disabilities Act of 1990, 42 U.S.C. § 12101 et seq. and the Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities ("ADAAG"); the Architectural Barriers Act, Pub. L. 90-480 (1968), and the Uniform Federal Accessibility Standards ("UFAS"); and the Illinois Environmental Barriers Act, 410 ILCS 25/1 et seq., and all regulations promulgated thereunder , see Illinois Administrative Code, Title 71, Chapter 1, Section 400.110. If the above standards are inconsistent, the Consultant must comply with the standard providing the greatest accessibility. Also, the Consultant must, prior to construction, review the plans and specifications to insure compliance with the above referenced standards. If the Consultant fails to comply with the foregoing standards, the Consultant must perform again, at no expense, all services required to be re-performed as a direct or indirect result of such failure.

17. Visual Rights Act Waiver

The Consultant/Contractor waives any and all rights that may be granted or conferred under Section 106A and Section 113 of the United States Copyright Act, (17 U.S.C. § 101 et seq.) (the "Copyright Act") in any work of visual art that may be provided pursuant to this Agreement. Also, the Consultant/Contractor represents and warrants that the Consultant/Contractor has obtained a waiver of Section 106A and Section 113 of the Copyright Act as necessary from any employees and subcontractors, if any.

18. Equal Employment Opportunity

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for

employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that

such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

19. Copeland "Anti-Kickback" Act (40 U.S.C. 3145))

All contracts and subgrants in excess of $2000 for construction or repair awarded by recipients and subrecipients shall include a provision for compliance with the Copeland

"Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient shall be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he is otherwise entitled. The recipient shall report all suspected or reported violations to the Federal awarding agency.

20. Davis-Bacon Act, as amended ((40 U.S.C. 3141-3148)

When required by Federal program legislation, all construction contracts awarded by the recipients and subrecipients of more than $2000 shall include a provision for compliance with the Davis-Bacon Act ((40 U.S.C. 3141-3148) and as supplemented by Department of Labor regulations (29 CFR part 5, "Labor Standards Provisions Applicable to Contracts Governing Federally Financed and Assisted Construction").

Under this Act, contractors shall be required to pay wages to laborers and mechanics at a rate not less than the minimum wages specified in a wage determination made by the Secretary of Labor. In addition, contractors shall be required to pay wages not less than once a week. The recipient shall place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation and the award of a contract shall be conditioned upon the acceptance of the wage determination. The recipient shall report all suspected or reported violations to the Federal awarding agency.

21. Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708)

Where applicable, all contracts awarded by recipients in excess of $100,000 that involve the employment of mechanics or laborers shall include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR part 5). Under 40 U.S.C. 3702 of the Act, each contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than 1 ½ times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

22. Rights to Inventions Made Under a Contract or Agreement

Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 37 CFR part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

23. Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), as amended

Contracts and subgrants of amounts in excess of $150,000 shall contain a provision that requires the recipient to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.). Violations shall be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

24. Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Contractors who apply or bid for an award of $100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.

25. Debarment and Suspension (E.O.s 12549 and 12689)

No contract shall be made to parties listed on the General Services Administration's List of Parties Excluded from Federal Procurement or Nonprocurement Programs in accordance with E.O.s 12549 and 12689, "Debarment and Suspension." This list contains the names of parties debarred, suspended, or otherwise excluded by agencies, and contractors declared ineligible under statutory or regulatory authority other than E.O. 12549. Contractors with awards that exceed the small purchase threshold shall provide the required certification regarding its exclusion status and that of its principal employees.

ARTICLE 11) NOTICES

All notices required pursuant to this Contract shall be in writing and addressed to the parties at their respective addresses set forth below. All such notices shall be deemed duly given if hand delivered or if deposited in the United States mail, postage prepaid, registered or certified, return receipt requested. Notice as provided herein does not waive service of summons or process.

If to the County: Cook County Bureau of Technology
69 West Washington Street, Suite 2700
Chicago, Illinois 60602
Attention: Department Director

and

Cook County Chief Procurement Officer
69 West Washington Street, Suite 3000
Chicago, Illinois 60602
(Include County Contract Number 2003-18509 on all notices)

If to Consultant: Sentinel Technologies, Inc.
2550 Warrenville Road
Downers Grove, IL 60515
Attention: Mr. Chris Vasquez

Changes in these addresses must be in writing and delivered in accordance with the provisions of this Article 11. Notices delivered by mail are considered received three days after mailing in accordance with this Article 11. Notices delivered personally are considered effective upon receipt. Refusal to accept delivery has the same effect as receipt.

ARTICLE 12) AUTHORITY

Execution of this Agreement by Consultant is authorized by a resolution of its Board of Directors, if a corporation, or similar governing document, and the signature(s) of each person signing on behalf of Consultant have been made with complete and full authority to commit Consultant to all terms and conditions of this Agreement, including each and every representation, certification and warranty contained in it, including the representations, certifications and warranties collectively incorporated by reference in it.

EXHIBIT 1

Scope of Services

Cook County

Statement of Work (SOW) for

Network Managed Services

Contract No.: 2003-18509

Contract Term: 60 Months with two 1 yr. renewal options of 12 months each.

Vendor: Sentinel Technologies, Inc.

Date: December 29, 2021

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1.0 Executive Summary

Network services are the services and activities, as detailed in the following scope required to provide and support the County network environment as described. Contractor responsibilities include, but are not limited to, the design, planning, scheduling, provisioning, management, administration, monitoring and troubleshooting of the following network services:

- Wide-area Network (WAN)
- Local-area Network (LAN)
- Wireless Network (WLAN)
- Virtual Private Network (VPN)
- Optical Network Solutions and Fiber maintenance and repair
- Voice Network Equipment Monitoring and Repair
- Network Security
- Network Management

1.1 Service Objectives

The following are the key high-level Service objectives the County expects to achieve through outsourced Network Management services and this Statement of Work

- Provision and maintain a reliable, scalable and secure high-speed network infrastructure for the County.
- End-to-end network monitoring and management including management of third party providers (e.g. carrier coordination, OEM activities, internal resources for cabling, and electrical power restoration).
- Operate efficiently and effectively by running on a consolidated network infrastructure and by simplifying network management, procurement and budgeting.
- Minimize administrative effort by engaging the Contractor to provide this management function.
- Timely delivery of network solutions to support County project implementations, and related coordination with County and third parties.
- Achieve the Service Level Agreements (SLAs).

2.0 Scope of Network Managed Services

Contractor shall provide the county with the following services described in this section as part of the Monthly Fixed Fee as outlined in the Network Services tab Appendix I – Monthly Services Fee.

2.1 Equipment and Software

The County will maintain an adequate pool of spares as recommended by Contractor. However, to ensure service levels described within this agreement are achieved, Contractor must furnish, or purchase on behalf of the County, network equipment, software, ancillary equipment, peripherals, servers and maintenance coverage required to support current and future state of operations necessary to keep the network in a steady or optimal condition. Note that this contract is not intended to be a primary vehicle for these equipment purchases. The County maintains separate contracts for regular equipment purchases, but may optionally request the Contractor to provide equipment on a limited, emergency basis. All such assets are to be property of Cook County. Contractor will be responsible for notifying Cook County of associated warranty periods and future maintenance requirements, and Contractor will be responsible for assisting the County in planning and budgeting for sufficient maintenance.

- A listing and description of all supported Data Network equipment is provided in Exhibit A – Network Equipment.
- A listing and description of the supported Data Network software and utilities is provided in Exhibit B – Network Software.

2.1.1 Cisco TAC Support Included

Embedded

- Cisco TAC access for support and troubleshooting via online tools and web case submission only. Telephone case submission is not included with this option. Refer to Table 1 (Software Support Response Time) below for details.
- Access to Cisco.com. This system provides Customer with technical and general information on Cisco Products as well as access to Cisco's online Software Central library. Cisco may identify access restrictions from time to time.
- Application Software Updates:
    - Work-around solutions or patches to reported Application Software problems using reasonable commercial efforts for on-premises Software. For an Application Software patch for on-premises Software, a Maintenance Release for the Application Software experiencing the problem will be provided as follows: (a) download from Cisco.com (as available), or (b) shipment of Application Software on media such as CDROM using a nominated carrier. Requests for alternative carriers will be at Customer's expense. All perpetual Software will reach an end of sale date, including end of support, patch, and maintenance releases.
    - Major Release, Minor Release, and Maintenance Releases for on-premises Software. For Application Software that runs on Customer's premises or in a Customer controlled Environment, the Application Software releases and supporting Documentation are available on the Cisco.com Software Central (http://www.cisco.com/go/software) or on media such as CDROM, through the Cisco Product Upgrade Tool (PUT). Applicable supporting Documentation, if available, is on Cisco.com and is limited to one (1) copy per release. Additional copies may be purchased.
    - For SaaS: Any patches, Maintenance Release, Minor Release, and Major Release of the Application Software will be incorporated into the SaaS and Cisco will not provide as downloads to Customer.

Basic

- Cisco TAC access 24 hours per day, 7 days per week to assist by telephone or online tools/web cases with Application Software use and troubleshooting issues. Refer to Table 1 (Software Support Response Time) below for details. Support cases are prioritized over cases associated with Embedded option.
- Provide Maintenance Releases for Cisco IP Phones that are deployed in a covered Cisco calling environment .

Software Support Response Time Objectives

Response time is defined as the time from when a case has been submitted in the case management system by Customer to the time when a support engineer has made contact regarding the issue reported in the case. The following table outlines the objectives that Cisco strives to achieve to respond to submitted cases based on their case Severity Level. In some cases, the assigned cases severity may be adjusted to align with the Software Support Severity Guidelines (see How Cisco Provides Services for definitions of Severity Levels).

Table 1. Software Support Response Time

Software Support Service	Technical Support Coverage	Response Time Objective for Case Severity 1 or 2	Response Time Objective for Case Severity 3 or 4
Embedded	Email/Web	Not Available	Response within Next Business Day during local Standard Business Hours
Basic	24x7 via Phone & Email/Web	Response within 1 hour	Response within Next Business Day
Enhanced	24x7 via Phone & Email/Web	Response within 30 minutes	Response within 2 hours*
Premium	24x7 via Phone & Email/Web	Response within 15 minutes	Response within 1 hour*

**For Severity 3 and Severity 4 calls received outside of Business Hours, Cisco will respond within the Next Business Day (NBD).*

2.1.2 Unified Communications Support and Quantities

- The Contractor with Cisco has identified the licensing requirements for Cook County Collaboration solution based on the current applications based on current license usage. Applications and feature currently deployed today within Cook County will continue to be supported within the new Flex EA licensing structure. The Contractor requests Cook County to review the licenses within the quote to verify quantities meet the requirements of the county.
- The contractor based the proposed quantities from the current deployment as of December 1st, 2021. The Contractor has provided some growth with its proposal; the Contractor is requesting that a final review of the licenses with Cook County and the Contractor before the signature of the contract to verify licenses counts will meet the requirements of the county.

  Below is a current capture of Cook County Smart License portal as of December 15th,2021 showing the current usage of licensing. For the device licenses will be mixed between the UC Manager licenses and voicemail with Unity Connection. ***As of December 15th, 2021 the current Knowledge Workers is at 11,978.*** Quantity increase over time has been documented. This number is referenced and highlighted in the below chart.

  Knowledge Workers means County employees and contractors who use communications devices (applicable desk phone, any Jabber client, any Webex app client, mobile phone, video Device, or personal computing Device) capable of running the Cisco Technology provisioning platform and associates that profile with voicemail as part of their duties performed on the County's behalf.

  Deployed Knowledge Worker means a Knowledge Worker who has a profile configured within the installed Cisco Technology provisioning platform and associates that profile with the applicable desk phone, any Jabber client, any Webex app client, mobile phone, video Device, or personal computing Device, as applicable.

License	Billing	Purchased	In Use	Substitution	Balance
CME v12 Endpoint License	Prepaid	5	0	-	+ 5
CUBE v14 Voice Gateway Session	Prepaid	2	2	-	0
Emergency Responder User License	Prepaid	2000	0	To Lower: -1708	+ 292
Emergency Responder User License (12.x)	Prepaid	19800	21508	From Higher: +1708	0
ISR_4321_AdvancedUCSuite	Prepaid	1	1	-	0
ISR_4321_Security	Prepaid	1	1	-	0
ISR_4321_UnifiedCommunication	Prepaid	1	1	-	0
ISR_4400_AdvancedUCSuite	Prepaid	10	10	-	0
ISR_4400_Security	Prepaid	10	10	-	0
ISR_4400_UnifiedCommunication	Prepaid	10	7	-	+ 3
SRST v12 Endpoint License	Prepaid	100	0	-	+ 100
SRST v14 Endpoint License	Prepaid	2550	2280	-	+ 270
UC Manager Basic License (12.x)	Prepaid	0	6216	From Higher: +6216	0
UC Manager CUWL License (12.X)	Prepaid	10936	1669	To Lower: -9111	+ 156
UC Manager Enhanced License	Prepaid	1200	0	To Lower: -1200	0
UC Manager Enhanced License (12.x)	Prepaid	4189	7453	From Higher: +3264	0
UC Manager Enhanced Plus License (12.x)	Prepaid	0	831	From Higher: +831	0
UC Manager Essential License (12.x)	Prepaid	3215	1403	-	+ 1812
UC Manager Telepresence Room License (12.x)	Prepaid	50	7	-	+ 43
Unity Connection Basic Messaging User Licenses (12.x)	Prepaid	0	11978	From Higher: +11978	0
Unity Connection Enhanced Messaging User Licenses	Prepaid	1000	0	To Lower: -878	+ 122
Unity Connection Enhanced Messaging User Licenses (12.x)	Prepaid	11100	0	To Lower: -11100	0

The Contractor based the proposed quantities from the current deployment as of December 15th, 2021. With the Growth allowance for a total of 14,400 Knowledge Workers (12,000 KW purchased with 20% growth of 2,400).

The Contractor has provided some growth with its proposal; the Contracor is requesting that a final review of the licenses with Cook County, Cisco and the Contractor before the signature of the contract to verify licenses counts will meet the requirements of the county with growth.

- The following table shows the new Flex EA licensing structure being proposed. Please reference Exhibit L – End User Cisco Flex Maintenance.

Collaboration

License Type	Proposed Quantities
Knowledge Workers	12,000 (14,400 total (+20% Growth (2,200)))
Included Common Area	6,000 (50% of ordered Knowledge Worker)
Included Access	2,400 (20% of ordered Knowledge Worker)
Included Voicemail	12,000 (14,400 total (+20% Growth (2,200)))
SRST Endpoint	24,000
Mobile Remote Access	12,000 (100% of Knowledge Worker)
Expressway Rich Media	2,400
Emergency Responder	36,000 (300% of Knowledge Workers)
Unified Attendant Console Advanced	7
CUBE Standard Trunk Session License	1075

Contact Center (UCCX)

License Type	Proposed Quantities
Server and HA Redundancy	Included
UCCX Premium Concurrent Agent - Premium Agent includes all Standard Agent features and adds omnichannel communication such as chat and email, multi-channel reporting and analytics, and supervisor monitoring and barge-in for all types of agents.	60
UCCX Standard Concurrent Agent - Standard Agent provides essential functionality to voice-only call centers with typical or sophisticated needs. Standard Agent functionality includes browser based agent desktop, inbound and outbound voice, touch-tone IVR, web and voice callbacks, and standard CRM connectors	221

Cisco Meeting Server

License Type	Proposed Quantities
Cisco Meeting Server	Included
Shared Multiparty User License (1)	50
Expressway Rich Media Licenses	50

- The Contractor has included caveat to a few applications that have changed:
- Cisco Prime Collaboration suite has been removed since this product is end of support / end of life. The Contractor suggests using Webex Connected UC to provide analytics and some troubleshooting. This feature is included within the A-Flex-3 licensing.

Cisco AQM suite will have limited support (see BOM) since current version is coming to end of support / end of life. The latest version of AQM with Cisco will require a migration to the cloud. At this time, Cook County would like to evaluate their options of staying on premise or moving to the cloud. This will include reviewing other manufacture options to provide this service.

- The Contractor and Cisco worked with the Cook County team to identify all elements of the UC deployment as its deployed today within the environment and has licenses to cover the current deployment.
- The Contractor will provide support of the current deployed Collaboration applications as supported by the manufacture. The Contractor is not responsible for any product or suite that is discontinued, End of Life, End of Support or major changes to the product structure that impacts the deployment by the manufacture. The Contractor will continue supporting the application based on the manufacture current terms of support. The Contractor will work with the county on an alternative solution that will meet the needs of county. This may incur additional cost for the product and/ or professional service for the deployment.

2.1.3 Cisco End of Life Notification

End of Life. Notwithstanding anything in the EA Program Terms to the contrary, Cisco reserves the right to discontinue a Suite with at least three years' prior notice. If a Purchased Suite is discontinued, Cisco will either: (a) provide the County a substantially similar replacement Suite for the remainder of the Suite Term; or (b) issue a credit to the Approved Source (or the County, if the County purchased directly from Cisco) for any fees the County paid for the Purchased Suite covering the period after the last date such Purchased Suite is available for the County to Consume. Such credit can be applied towards the future purchase of Cisco products and services.

2.1.4 WebEx Teams Configuration

The Contractor will work with Cook County to enable the service for Webex Messaging (Messaging Entitlement included within the A-Flex-3 licensing structure). The Contractor will provide up to 16 hours of support to provide brief knowledge transfer on how to create accounts and enable the messaging feature for Cook County staff.

2.1.5 Maintenance Adds and Deletes

If during the contract Cook County removes individual Equipment from the system configuration, said individual Equipment may be added or deleted from maintenance coverage by giving Contractor thirty (30) days advance written notice. Requests for equipment being removed from a Smartnet contract will be submitted to Cisco for approval. Once approved, the prorated refund amount will be credited to the customer. Equipment being removed under HANS Silver does not require Cisco approval and will result in a prorated refund to the customer. In addition to the prorated refund, the annual invoice will be reduced by the amount equal to the annual cost of the equipment coverage in the equipment maintenance pricing schedule.

2.2 Agencies in Scope

Contractor must be cognizant of the County's strategic goal to leverage contracts, wherever applicable, across multiple departments, Cook County and sister agencies. To this end, over the term of this Agreement, other local government agencies may decide to purchase against the contract that will be awarded as a result of this Agreement process, pursuant to the terms and conditions of said contract, if such agencies are authorized by law or their governing bodies to execute such purchases, and if authorization is allowed by Cook County's Chief Procurement Officer, and if such purchases have no net adverse effect on Cook County, and result in no diminished services from the service providers to the County's user departments and other existing participatory agencies.

Described below are the agencies that are in the current scope for this Statement of Work:

Agency
Offices Under the President
Board of Review
Cook County Assessor
Cook County Treasurer
Cook County Sherriff's Office
Forest Preserve
Health and Hospitals
Clerk of the Circuit Court
County Clerk
Chief Judge
Recorder of Deeds
States Attorney
Cook County Work Force Partnership

2.3 Service Locations

A description and location of County facilities and office locations requiring network services is provided in Exhibit C – Network County Service Locations. In addition to the agencies described from the Agencies in Scope list, Cook County provides ancillary network services to "sister" government agencies, which may require access to County databases and applications. These locations are also considered in scope of this engagement. Contractor is required to provide network services encompassed in this Agreement to these locations and any new location at the County's direction.

2.4 Service Hours and Coverage

Service hours and coverage is 24 hours a day, 7 days a week, 365 days a year and 366 days during leap year. The Network Control Center (NCC) staffing is 24 Hours x7days a week x365 days per year. The hours of on-site operation are 6a.m. to 10p.m. Central time Monday through Friday. This is referred to as "Normal Service Hours." The Contractor will have adequate staff at the County's Network Control Center during this time. Outside of Normal Service Hours, Contractor shall provide remote monitoring and on-call support. Outside of Normal Hours, Contractor must respond to trouble instantly through call in help line, system generated alert, or user generated ticket. Contractor must dispatch an engineer to a site within 90 minutes of trouble report if needed to restore service. Contractor shall ensure that vacation, illness, training, and other time off shall be covered by an individual with equal or greater skills.

2.4.1 Personnel

- Contractor will be responsible for staffing skilled and appropriately qualified staff to meet the Service Level Agreements (SLAs) set forth in this Statement of Work and will schedule appropriate training to ensure proficiency is maintained.
- Contractor must provide technically trained and experience staff and a proven managed care program to support a wide variety of technologies the county owns. Field engineers are required to work out of County facilities.
- The County will require the Contractor to designate a Project Manager and an adequate number of on-site engineering and other personnel to deliver all services described in this Agreement to all agencies and locations in scope.
- Contractor must have highly trained and qualified personnel capable of being cycled into Cook County environment for any job-related functions within area of expertise such as network design, network support, network monitoring, network tool installations, network equipment, network configuration, and network installations & travel.
- Contractor must provide Consulting Services related to Network Operations and functionality that may not be expressly addressed in the above requirements. These services will be on a Time and Materials (Hourly basis) and included in the Statement of Work awarded for the duration of the contract.
- The County will require the Contractor to supply additional personnel as needed to address critical emergency services that may arise.
- Contractor will have access to County low voltage and high voltage electricians via a ticketing system to dispatch electricians for racking, wiring, and powering of network equipment. Contractor will be responsible for coordinating these activities utilizing the County's internal ticketing system.

2.5 Policies, Procedures and Standards

A description of the County's and Cook County's policies, procedures and standards with which Contractor will comply is provided in Exhibit D – Network Policies, Procedures and Standards.

2.6 Agreements and Licenses

A list of Network related agreements and licenses to be supported are provided in Exhibit E – Network Agreements and Licenses. Cook County has existing agreements with two telecommunication service providers.

2.7 Work-In-Progress/Transition

Contractor is responsible for providing network services in support of all County initiatives. Network related initiatives in progress are the responsibility of Contractor to complete within the time frames specified. Contractor will designate a transition team including a Customer Success Manager and Project Manager that will coordinate all of the requirements within this statement of work. Examples of County projects in progress are listed in Exhibit F – Network Related Work in Progress. The County is continually in the process of refreshing its network inventory to avoid obsolescence and to meet expanding business needs.

Transition Team

The Contractor utilizes PMI best practices for the onboarding of Managed Services Customers. During the onboarding and transition period of the managed services engagement, the Contractor will define key stakeholders necessary to execute all onboarding responsibilities (e.g. PMs SDMs, SMEs, etc.), and document any risks that could affect the onboarding project.

To ensure complete transition within 90 days, the Contractor will provide a complete project plan and work breakdown structure outlining the tasks and responsibilities of the onboarding phase. The Contractor will execute all necessary tasks outlined within the work breakdown structure in order to complete the project on time, and as needed we will assist with gathering any information required to complete the Customer Onboarding Forms.

The Transition Team will ensure complete project success. Communication is the cornerstone of onboarding/transition and the team will be the central communication mechanism for all parties. This will assure all relevant parties are informed about decisions that may affect the success of their component of the solution.

- Contractor shall furnish a repository for all documentation deliverables which should be online, web-based and password protected. The documentation deliverables in the database should be organized and searchable by certain data attributes such as location, agency, and service. The County is the sole owner of all vendors' documentation deliverables. The contractor will complete this during the transition phase.

2.8 Network Control Center

The Network Control Center (NCC) is located on County premises. Monthly, the NCC answers approximately 300 telephone calls, responds to roughly 300 user generated tickets, and reacts to roughly 500 system generated alerts per month. The Contractor shall provide all the services described in the Agreement from this location during normal service hours. Outside of normal service hours, Contractor must remotely answer service calls, respond to system generated alerts and dispatch service technicians as needed to restore service. The Contractor must also furnish an off-site location designated as a back-up, or remote NCC, where all Network Services functions described in this Agreement can be performed in the event of an emergency. The County, at its sole discretion, will determine an event as constituting an emergency. The remote NCC must be geographically located in the eight-county Chicagoland regions as defined in Exhibit G – Map of eight-county Chicagoland Region.

2.9 Network Services Requirements

2.9.1 Service Descriptions and Roles & Responsibilities

Contractor is responsible for the following Network Management services.

A. Wide Area Network (WAN) Services

WAN services include the planning, design, provisioning, monitoring and management of leased and private networks. Transmission facilities include, but are not limited to, point to point circuits, SD-WAN, Cloud Networking, dedicated Internet connections, private County fiber optic broadband (e.g. optical gear), internet connections, internet-based VPNs, DS-3, OC-48, OC-12, and metro ethernet. Contractor shall work with public carriers and other circuit providers on behalf of the County to ensure delivery of WAN services. Support of any network services-related work required by designated carriers, to support the County's network, is considered within the Statement of Work.

- A listing of supported network circuits is provided in Exhibit H – Network Circuits.
- A network topology diagram describing the supported network components is provided in Exhibit J – Network Topology.

B. Local Area Network (LAN) Services

LAN services include the provisioning, monitoring and management of networks that are usually confined to a single facility or portion of a facility. LAN support includes service for all network devices only and excludes end-user equipment.

LAN components include Dynamic Host Control Protocol (DHCP)/Domain Name Server (DNS) and Wireless LANs supporting all network traffic originating from desktop devices, local file and print servers, application servers, database servers, peripherals, firewalls/routers/Switches, other network devices and other user premise devices. This service ends at, but does not include, the LAN attached device network card at the end user computing device. Management of the end user computing device is not the responsibility of the Contractor. However, Contractor must support County computer field technicians by assisting them over the phone in real time to provide consultation of appropriate network configurations required for the device to operate on the County network.

C. Virtual Private Network (VPN) Services

VPN services include the provisioning, monitoring and management of methods for remote users and business partners to securely connect to the Network and Data Center Computing Services over the public Internet. This service includes dedicated site-to-site VPN connectivity and conventional user remote access over the Internet. It requires industry-/Internet-based standards for security to create and preserve privacy, data integrity, and authenticity. The VPN service must be highly scalable. Contractor will be responsible for provisioning end user VPN services and coordinating all necessary provisioning activities with County Agency I.T. staff responsible for end user computing and Active Directory domain administration.

D. Wireless Networks (WLAN)

Wireless network services include the provisioning, monitoring and management of methods for wireless users and devices to securely connect to the County Network over the County's Wi-Fi infrastructure. It requires industry standards for security to create and preserve privacy, data integrity, and authenticity. The County uses 802.11 protocols as the standard for wireless networks.

E. Optical Network Solutions

The County's Optical Network Solution (ONS) is the carrier grade backbone network that provides fiber optic transport to several anchor nodes of the County's Wide Area Network. The Optical Network is a DWDM solution utilizing Cisco ONS 15454 MSTP/MSPP chassis.

F. Incident Management

Contractor will be responsible for handling all incoming service incidents. Incidents shall arise through network monitoring alerts and trouble reporting process. These calls will be troubleshot either remotely or on-site. The Contractor will be required to use the County's internal Cherwell ticketing system (or any other ticketing system the County chooses) to respond to incidents and work tickets in the NCC que.

The Contractor shall provide dispatch support. Dispatch support includes coordinating, dispatching, and managing activities related to support organizations (Field support OEMs, System Integrators, equipment repair, facilities management, fiber repair, logistics companies, etc.) for:

- Equipment repair and/or replacement;
- Equipment spare part replacement;
- Repairs to equipment, fiber, hut/cabinet maintenance;
- Repairs of fiber and cable plant including coordinating/managing locate services for buried cable facility and site access.

The Contractor will act as the primary contact in coordination efforts for circuit support. The Contractor will call providers to submit tickets, escalate within those organizations and coordinate conference bridges for multi-organizational troubleshooting activities. These activities may include service providers such as internet, transport, field services as well as customer technical contacts. All activities will be oriented to a specific incident/ticket and will be managed until service is restored.

The Contractor will initiate user community notifications in support of pending and active outages, activation and deactivation of circuits, maintenance or other service affecting events. These activities will be coordinated as part of Incident Management and scheduled maintenance.

G. Network Security Services

Network Security Services include the provision and support of methods that provide security to physical and logical devices connected to the network. Security services include Firewall, Intrusion Detection, Penetration/Vulnerability testing, and content filtering, network access control, VPN, network security log reviews, network equipment security baselines, assist with Information Security Office (ISO) investigations and secure network authentication.

H. Project Management

Contractor must manage the inbound service requests from the internal client base and be responsible for Network tasks related to County projects of all types and sizes. In addition, Contractor will be responsible for project management activities such as Initiation, Planning, Execution, Monitoring & Controlling and project closing. Contractor shall furnish a document repository for all project management deliverables. Contractor will provide monthly time tracker of hours spent towards County project initiatives.

I. Network Management for Time Clocks

The County has roughly 700 time clocks on the Wide Area Network cabled into POE switch ports across the County. Contractor is responsible for configuring network ports for the Time Clock, validating time clock have registered to the time clock management system (Clock Manager) by logging into the web based management portal. Contractor shall issue clock replacement requests to County Electrician. Contractor shall return broken clocks to the clock vendor (Work Force) for repair. Contractor is not responsible for repair or replacement of clocks. Repair and replacement of the clock is the responsibility of the time clock vendor.

J. Voice Network Equipment Monitoring, Maintenance and Repair

The County's enterprise voice network is a Cisco Unified Communications Voice over IP enabled telephone system with 28,000 endpoints. Contractor will provide equipment monitoring, maintenance, repair and troubleshooting of the system. Contractor will also provide tier II and above tech support of the system.

2.10 Roles and Responsibilities

The following table identifies General roles and responsibilities associated with this SOW including the network components listed above. An "**X**" is placed in the column under the party that will be responsible for performing the task. Contractor responsibilities are indicated in the column labeled "Contractor."

General Roles and Responsibilities	Contractor	County
Recommend WAN / LAN/ VPN / Firewall requirements based on industry best practices	X	
Review and approve requirements and for WAN/LAN/VPN/Firewall/Wireless services		X
Recommend services and standards for all Data Network Services	X	
Review and approve services and standards for all Data Network Services		X
Recommend network management device thresholds	X	
Approve network management device thresholds		X
Provide the County monthly performance reports or as requested	X	
Provision and maintain all network components and circuits	X	
Report monthly performance against Service Level Agreements (SLAs)	X	
Develop WAN/LAN project plans and manage expected budget and completion dates for such projects.	X	
Approve WAN/LAN project plans developed by the Contractor.		X

2.10.1 Design/Engineering

The following table identifies the activities, roles and responsibilities associated with Engineering/Design services that are specific to this section.

Engineering/Design Roles and Responsibilities	Contractor	County
Develop network design, engineering and testing and integration procedures that meet requirements and adhere to defined policies	X	
Approve network design engineering, testing and integration procedures		X
Prepare network design, engineering and security, plans and schedules to support new and enhanced applications, architectures and standards including Cloud	X	
Review and approve network design, engineering and schedules		X
Approve the scheduling of all changes to the network environment		X
Coordinate with the County and affiliated entities, and public carriers, as required	X	

2.10.2 Asset Acquisition and Network Services Provisioning

Contractor will perform Asset Acquisition and Network Services Provisioning associated with acquiring network equipment and circuits. The following table identifies the underlying roles and responsibilities associated with Asset Acquisition and Network Services Provisioning activities. Cook County in no way waives right to order equipment from other vendors.

Asset Acquisition and Network Service Provisioning Roles and Responsibilities	Contractor	County
Order and expedite network components (routers, switches, firewalls, peripherals) and services as required by the County.	X	
Approve all orders prior to submission		X
Configure WAN/LAN (Equipment, software) prior to installation	X	
Rack, Power and Cable WAN/LAN Equipment		X
Document router configuration files and IP addressing schemas	X	
Develop and document network provisioning requirements and policies	X	
Approve network provisioning requirements and policies		X
Provide County planning assistance to develop network resource requirements projections	X	
Coordinate ordering, procurement and inventory management of network circuits from public carriers		X
Manage the performance of public carriers (and other third parties) to meet defined schedules, project plans, SLAs etc.	X	
Ensure that all new circuits, devices and software provisioned are included in configuration management documentation	X	

2.10.3 Network Operations and Administration

Contractor shall perform the following key activities associated with Network Operations and Administration. Operations and Administration activities include:

- Network systems management and troubleshooting (e.g. performance, problem, change and device monitoring)
- Bandwidth management
- Protocol usage statistics (e.g. identify top talkers by protocol)
- Working with public carriers and other circuit providers to perform any operations activities (e.g. provisioning, problem management)
- Managing and maintaining all Network Service computing resources (e.g. Equipment, operating system software and applications) that are required to provide designated services
- Managing router configurations, firewalls, Wireless controllers, Internet Protocol (IP) addresses and related services (e.g. DNS/DHCP)
- Asset management, including infrastructure software licenses, using the County's designated asset and/or inventory management system
- Physical (e.g. equipment) and logical (e.g. IP address change) IMACs
- Oversee internal and external I.P. Address Management including furnishing a tool to manage IP Assignments by agency and location
- Network Access Management for VPN, Wireless, and Wired services (County currently uses and intends to keep using Cisco Identity Services Engine).
- Incident Management

The following table identifies the roles and responsibilities associated with Network Operations and Administration that are specific to this Section.

Network Operations and Administration Roles and Responsibilities	Contractor	County
Manage LAN/WAN connectivity contained in the service environment	X	
Develop and document network administration procedure	X	
Review and approve network administration procedures		X
Develop and document procedures for administration that meet requirements and adhere to defined policies	X	
Approve administration policies and procedures		X

Network Operations and Administration Roles and Responsibilities	Contractor	County
Perform day-to-day network operations and administration activities	X	
Manage all network devices in accordance with the County's policies (including security oversight and change management policies)	X	
Maintain IP addressing schemes, router configurations, routing tables, VPN configurations, etc.	X	
Manage user accounts as needed for access and maintain network resources (e.g. logon user-id and password maintenance)	X	
Manage Network Equipment inventory from receive, storage, deployment, recovery, and salvage	X	
Maintain and provide audit information including access, general logs, application logs in accordance with the County's security policies	X	
Manage all network incidents by coordinating all service restoration activities with required 3rd parties and internal County resources	X	
Ensure that network administration activities are coordinated through defined change management processes	X	

2.10.4 Network Monitoring and Reporting

Contractor shall use a state of the art Network Operations Center (NOC) to ensure 24X7 proactive monitoring and alerts to key staff members for prompt resolution. Contractor's NOC should be built with redundant system to provide enhanced reliable monitoring for all of the County's Core Network and AD/Exchange Devices.

Contractor shall onboard up to 1000 Core Network Devices and 500 Server/Application devices to be monitored. Once the system is configured, Contractor will schedule a class room training session for all identified users of the system.

Contractor shall provide access to all management and administrative portals as required by Cook County's Director of Telecommunications.

Contractor shall configure and implement the monitoring and reporting requirements during the transition period.

The solution shall deliver the following system performance monitoring:

- NOC 24 x 7 Remote Monitoring via a secure VPN tunnel.
- Up/Down status monitoring via ICMP requests.
- Availability / Uptime.
- Syslog/Trap storage.
- Hardware Device Monitoring and Analysis.
- CPU, Memory, Disk space and Latency.
- WAN Circuit status.
- Traffic throughput, utilization, errors and discards of WAN circuits, Trunk ports or any critical interface.
- Wireless Monitoring – AP association status, SSID, Signal Strength, Wireless clients.
- Alerting (built with intelligence that eliminates false positives).
- Alert Routing to NOC and/or dedicated engineer for immediate remote resolution.
- Hardware Health Reporting (fan, power supplies, temperature, environmentals, and the like).
- Reporting (Inventory, Utilization, Performance, and much more).
- PRI circuits – monitors the status and capacity of the County's PRIs.
- Voice Gateways - monitors the status and utilization of the County's voice gateways.

Service Features and Inclusions

- 24X7X365 Monitoring System access.
- Up/Down Monitoring and Alerting for in-scope devices and systems.
- Device Monitoring and Analysis.
    - ICMP and SNMP polling.
    - Device availability statistics.

- CPU, memory and disk space capacity and utilization.
- Interface status, capacity and utilization.
- Interface traffic, errors and discards.
- Device response time and latency.

Historical Reporting
All data monitored and collected will be stored for a period up to one year. Reports can be run on a real-time basis via the NOC portal or e-mailed based on predetermined intervals. Reports such as Inventory, Performance Utilization, Availability and Past Events can be run at any point in time.

Syslog and Trap Collection
The Contractor will collect Syslog and/or Trap messages and will correlate with information gathered via polling so that the single best and timeliest alert is generated without duplicates, and with minimal delay.

Server and Application Monitoring
The Contractor will monitor critical applications that are running on the supported servers. The Contractor has 'templates' for most standard applications but is also available to provide custom application monitoring which may incur additional costs based on scope. The Contractor is able to leverage numerous protocols and methods. Examples include: SNMP, WMI, RPC, DB Queries, http gets, and others.

Monitored Elements

- Each device or system is allowed up to ten (10) elements to be monitored, as averaged over the total number of devices (i.e., some individual devices may have more than 10 elements, as long as the average number of elements per device over all devices is not greater than 10). If more elements are required, a Monitoring Change Request will be initiated and submitted. An “element” is an interface, memory, or disk drive.
- Elements and components to be monitored will vary based on criteria such as make and model of hardware or device, software version, service pack level, firmware version etc.
- When devices are removed from monitoring, they will be permanently removed from the web console, and historical data will not be available. Additionally, no alerts will be triggered.
- For hardware health reporting, the Contractor will poll server hardware directly from the Vendor Hardware Monitoring Agents. Supported vendors are: VMware, HP, Dell, IBM, and Cisco.
- Virtualization monitoring is at the hypervisor host level. The only data that will be provided are performance statistics that include CPU, memory, and network traffic for the host or virtual machines themselves.
- Windows Event Log Monitoring requires an agent to be deployed on Windows servers where the event logs will be monitored. This agent will forward Windows events to the Contractor’s monitoring infrastructure as a Syslog message.

The following table identifies the roles and responsibilities associated with Network Monitoring and Reporting services that are specific to this Section. Service call incidents should be alerted through a monitoring and call in process. These calls will be troubleshot either remotely or on-site.

Network Monitoring and Reporting Roles and Responsibilities	Contractor	County
Develop documentation and procedures for network monitoring and problem management	X	
Approve documentation and procedures for network monitoring and problem management		X
Develop and document network monitoring and problem management procedures, including escalation thresholds, that meet requirements and adhere to defined policies	X	
Approve network monitoring and problem management procedures		X
Furnish and manage automated tools for monitoring network circuits, devices and traffic from a Contractor-provided NOC /NCC.	X	
Furnish circuits from NOC / NCC to the County’s network to use for monitoring and alerting	X	
Implement measures and provide proactive analysis of network data and reports to limit network outages and optimize the County’s bandwidth utilization.	X	

Network Monitoring and Reporting Roles and Responsibilities	Contractor	County
Monitor network performance for all network environments on a 24x7x365 basis per SLAs.	X	
Identify network problems and resolve in accordance with Incident and Problem Management Services, policies, procedures and SLAs.	X	
Provide on-site staff at all County facilities as required to perform maintenance and problem resolution activities. Onsite presence will be required as needed for all Cook County locations.	X	
Coordinate resolution of circuit problems with third parties, including public carriers, ISP and County affiliates using the network. Carrier Management: Act on the County's behalf during the fault isolation process when a fault is detected that is suspected to be in the carrier's domain. Contact the carrier and work with the carrier to troubleshoot the problem. If it is in the carrier's domain, keep the trouble ticket open, and follow up with the carrier until the problem is resolved. Verify that connectivity is restored prior to closing the trouble ticket.	X	
Provide reporting (e.g., availability, utilization, latency, capacity) on network components providing connectivity to the County. Contractor will utilize ITILv4 service management practices to measure and report performance in the following service categories: • Incident Management • Availability Management • Capacity Management • Change Management • Service Operations • Network Security	X	

2.10.5 VPN Remote Access

Remote Access Services are the activities associated with the installation, management, operations, administration and support of the Remote Access Equipment and software and connectivity to all systems (e.g., VPN, Extranet access and Internet, Web-based e-mail). The following table identifies the Remote Access roles and responsibilities that the Contractor and the County will perform.

Remote Access Roles and Responsibilities	Contractor	County
Define Remote Access policies		X
Develop and document in the Standards and Procedures Manual Remote Access procedures that meet requirements and adhere to defined policies	X	
Review and approve Remote Access procedures		X
Install, test, provide technical support, administration and security administration for Remote Access Equipment and Software	X	
Provide testing support for the County's applications that will be made available via Remote Access	X	
Provide technical assistance and subject matter expertise as required by the County's infrastructure staff and Third-Party solution providers for Remote Access products and solutions	X	
Perform system or component configuration Changes necessary to support Remote Access Services	X	

2.10.6 Documentation

- Contractor will provide detailed documentation as required by the County.
- Network system specifications and topologies (for example, router configurations, firewall policies, routing diagrams/IP addressing tables, Equipment/software listings, etc.)
- Detailed circuit location information (e.g. circuit ID including LEC access ID, location, speed) and any asset identification information required by the County
- Detailed documentation showing all firewall policy, group, object, etc. information
- "As-built" documentation for all network devices (including firewalls) that are deployed in development, test, QA, production or other technical environments

- Network Configuration Manager (NCM) database, which is currently a part of the Contractor monitoring platform, to store configuration records throughout their lifecycle. The configuration management system maintains one or more configuration management databases, and each database stores attributes of configuration items, and relationships with other configuration items.
- The Contractor will create an interactive workflow tailored to Cook County that represents a project life cycle. This workflow will capture the necessary processes, procedures, documentation, tasks, and approvals to take a project from initiation to closure. The documentation will be built around this workflow under these 6 life-cycle categories during the 90 day onboarding process.
    - Initiation
        - Client engagement document which will define the purpose of the project, stakeholders, primary goals, and timeline of the project.
        - Project Scoping document which will capture all the necessary tasks, milestones, and deliverables of the project.
    - Planning
        - High Level Design document which will capture the critical network components and high level architecture of the project.
        - Low Level Design document which will capture port mapping, VLAN IDs, cabling requirements, firewall rules, and all necessary design elements of the projects.
        - Bill of Materials document which will capture all the necessary part numbers that will need to be acquired for the project.
        - Change Control document which will capture a description of the change, timeframe, impacts, risks, and approvals.
    - Execution
        - Provisioning/configuration management will be a centralized location for automatic backups and configuration templates.
    - Monitoring
        - Device onboarding document which will capture all the necessary information to successfully add the node and critical interfaces into monitoring.
    - Closing
        - Device Decommissioning document which will capture the necessary tasks to decommission a device.
    - Lifecycle
        - Root Cause Analysis document which will capture incident summary, report details, timeline, status, lessons learned, and planned actions.

The following table identifies the roles and responsibilities associated with Documentation activities that are specific to this Schedule.

Documentation Roles and Responsibilities	Contractor	County
Develop documentation deliverables described above	X	
Approve documentation deliverable		X
Furnish, maintain and update all Network diagrams	X	
Contractor shall furnish a repository for all documentation deliverables described above	X	
Furnish and maintain a configuration management database described above	X	
Update all network elements in monitoring system with correct information	X	
Provide other documentation as required by the County	X	

2.10.7 ONS Management

The County's Optical Network Solution (ONS) is the Carrier grade backbone network that provides fiber optic transport to several anchor nodes of the County's Wide Area Network. The Optical Network is a DWDM solution utilizing Cisco ONS 15454 MSTP/MSPP chassis.

There are several agencies, vendors and manufacturers involved in the construction, operation and maintenance of the County's Optical Network Solution. These third parties include Dark Fiber providers such as Chicago Transit Authority, South Suburban Mayor's Association, Illinois Century Network; Construction Contractors such as Meade Electric, and Globetrotters Engineering; and equipment providers such as Cisco, and GDT.

Contractor shall be responsible for the 24/7/365 operation of this network and will act as single point of contact for coordination of incident management, and troubleshooting of the network.

Optical Network Roles & Responsibilities	Contractor	County
Monitor the CISCO ONS Network for Critical Alarms	X	
Respond to ONS alarm; basic ONS troubleshooting; isolate trouble as ONS failure vs. connectivity failure	X	
Report a failure or trouble on ONS Equipment to Cisco Tech support	X	
Lead & coordinate all troubleshooting events with all Equipment and service providers associated with the County's ONS network	X	
Design, Configure, provision and turn-up additional circuits on the ONS chassis	X	

After end of life / end of support date, the Contractor's support on ONS environment will be best effort.

2.10.8 Network Equipment Maintenance, Repair and Technical Support

Contractor will be responsible for maintenance, repair and support of all network equipment required to meet service availability objectives specified in this Agreement. This includes all patching and code updates recommend by the Original Equipment Manufacture

Most of the County's network equipment is enrolled in Cisco SMARTnet for Maintenance and Support. Contractor may choose to provide Network Equipment Maintenance, Repairs and Support through resale of Cisco SMARTnet or through Contractors own maintenance program. In either case Contractor will be responsible for the managing and administering all aspects of the plan to achieve all Service Level Objectives described within the Agreement.

Contractor will be responsible for administering the inventory of Cisco SMARTnet (or equivalent) ID's, Contract Start & End Dates and Obtaining Quotes for SMARTnet (or equivalent) Renewals.

The Contractor shall routinely perform automatic backups of all system configurations on all network equipment, and log any device changes made to the devices.

Network Equipment Roles and Responsibilities	Contractor	County
Provide Equipment Maintenance, Repairs and Support either through OEM program or direct program	X	
Maintain detailed inventory of all Devices Covered under Maintenance	X	
Perform equipment troubleshooting	X	
Perform patches and bug fixes per OEM recommendations	X	
Identify devices that will be reaching their expiration date	X	
Obtain quotes for renewals	X	
Manage service end-dates so all devices are all coterminous	X	
Approve and processing equipment renewal quotes		X

2.10.9 Voice Network equipment monitoring, maintenance and repair

The County's enterprise voice network is a Cisco Unified Communications Voice over IP enabled telephone system with 28,000 endpoints. Contractor will provide monitoring, equipment maintenance, repair and troubleshooting of the system. County's internal telecom unit will provide Tier support described in the table below. Contractor will provide tier II and above tech support of the VoIP system. All the County's voice equipment and software is listed Exhibit A – Network Equipment and Exhibit B – Network Software.

Voice equipment monitoring, maintenance, repair	Contractor	County
Provide Tier 1 support for VoIP issues including answering telephone repair hotline, ticket assignments, password reset, phone configuration and MACD.		X
Install and repair cabling, station wiring, and telephone handsets		X
Provide necessary expertise to configure VoIP systems, software, and equipment	X	
Coordinate all activities and resources for service restoration for any outage	X	

Voice equipment monitoring, maintenance, repair	Contractor	County
Troubleshoot VoIP issues including physical and virtual settings and traffic flow.	X	
Provide monthly service reports (as described in section 2.6 Service Management) of Voice network performance management	X	
Provide monitoring and alert on Voice network elements (as described in section 2.4.7) including ticket assignment and dispatch	X	
Provide support during VoIP relocation or standing up new solution.	X	
Keep all VoIP equipment up to date on latest firmware and Software releases based on OEM recommendations	X	
Replace, install and configure new VoIP Equipment in the event of equipment failure or VoIP expansion.	X	

2.10.10 Network Security Services

Contractor shall provide an individual to collaborate with the County to protect networks and systems from unauthorized access by persons, acts, or influences. This includes many functions such as creating, deleting, and controlling security services and mechanisms; distributing security-related information; reporting security-relevant events; controlling the distribution of cryptographic keying material; and authorizing subscriber access, rights, and privileges.

2.10.11 Firewall Management

Contractor shall provide Firewall Management Service including firewall engineering and management and access control list engineering and management in compliance with the County's policies and standards. The following table identifies roles and responsibilities associated with the Firewall Management services.

Security Firewall Services Roles and Responsibilities	Contractor	County
Recommend best practice firewall policies	X	
Develop the County specific firewall polices and requirements	X	
Approve firewall polices		X
Provide services in conformance to firewall policies and requirements	X	
Perform firewall engineering and firewall security design	X	
Assess firewall security and propose alternative security designs	X	
Review and approve firewall security designs		X
Review and approve firewall Access Control Lists (ACLs) policies		X
Develop recommendations for improved security	X	
Review and approve recommendations for improved security		X
Provide ACLs		X
Maintain ACLs in accordance with the County policies	X	

2.10.12 Network Security Intrusion Detection Services

Contractor shall provide both NIDS (Network-based Intrusion Detection Service) and HIDS (Host-based Intrusion Detection Service). Contractor responsibility for these services is limited to the IDS/IPS capabilities that may be inherent in the Network Security Devices listed in Exhibit A Network Equipment and Exhibit B Network Software. Cook County Information Security Office (ISO) leads security activities related to Network-based Intrusion Detection Service ("NIDS") and Host-based Intrusion Detection Service ("HIDS") and use other 3rd party tools. However, any point that the County may choose to enable IDS/IPS features that might be inherent in the Cisco Firepower product line, Contractor would be responsible for administering IPS/IDS capabilities that are native to those Cisco devices at the direction of Cook County ISO.

The following table identifies the roles and responsibilities associated with the Intrusion Detection services.

Security Intrusion Detection Services Roles and Responsibilities	Contractor	County
Develop policies and standards for intrusion detection		X
Approve policies and standards for intrusion detection		X
Provide Intrusion Detection Services and reporting	X	
Allow for independent Intrusion Detection Services	X	

Security Intrusion Detection Services Roles and Responsibilities	Contractor	County
Develop recommendations for improved security	X	
Review and approve recommendations for improved security		X
Implement approved recommendations	X	

2.10.13 Security Vulnerability & Penetration Services

Contractor shall test the susceptibility of the County's network hosts to a specific attack or suite of attacks targeting all of the County's Internet address space as well as all of the County's Intranet address space using automated and custom methods. The following table identifies the roles and responsibilities associated with the Security Penetration services. Optional annual costs, for internal and external Pen testing and vulnerability scanning are Network Services Tab on Appendix I.

Security Penetration Services Roles and Responsibilities	Contractor	County
Develop policies for security vulnerability & penetration testing	X	
Approve policies for security vulnerability & penetration testing		X
Conduct security vulnerability scans & penetration testing	X	
Allow for independent vulnerability & penetration services	X	
Provide reporting on testing results	X	
Develop recommendations for improved security	X	
Review and approve recommendations for improved security		X
Implement approved recommendations	X	

2.10.14 Network Security Incident & Audit Management Services

The following table identifies the roles and responsibilities associated with Security Incident Management services.

Incident Management Services Roles and Responsibilities	Contractor	County
Develop policies for Network security incident management	X	
Approve policies for Network security incident management		X
Provide initial review (level 1) of security incidents and the determination if escalation to the County Information Security (level 2, 3 support) is warranted	X	
Identify and removal from the network of any PC virus/worm infected system	X	X
Identify and provide countermeasures for virus / worm attacks	X	
Establish security audit policies		X
Provide technical expertise for Network security audits	X	
Collect and review all incidents reported by all other security services (e.g. NIDS, HIDS, penetration testing, and firewall).	X	X
Maintain a central repository of log files in accordance with the County policies and service levels including application specific and system specific log files	X	
Provide security reporting as required by Information Security Officer	X	

2.11 Management

2.11.1 Objectives

A key objective of this outsourcing agreement is to attain service-level requirements (SLAs). Service Level Agreements (SLAs) and Project-specific SLAs are specified with Service Credits and Earn Back where business is impacted through failure to meet significant mission critical systems or services, or project milestones or objectives.

Contractor shall provide written reports to the County regarding Contractor's compliance with the SLAs specified in this Statement of Work.

2.11.2 Service Level Agreement (SLAs)

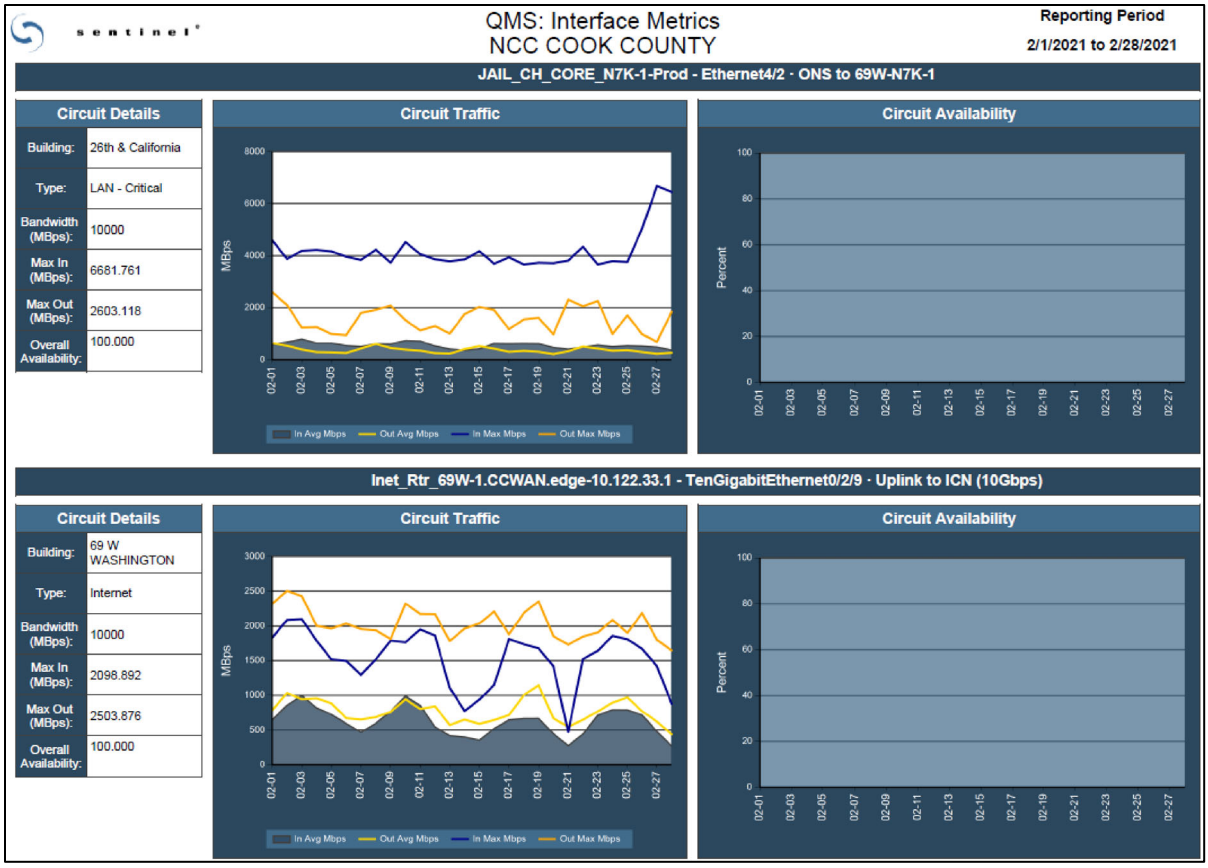
The following minimum service levels are required at the end of the Transition Period. Contractor must consistently meet or exceed the following SLAs.

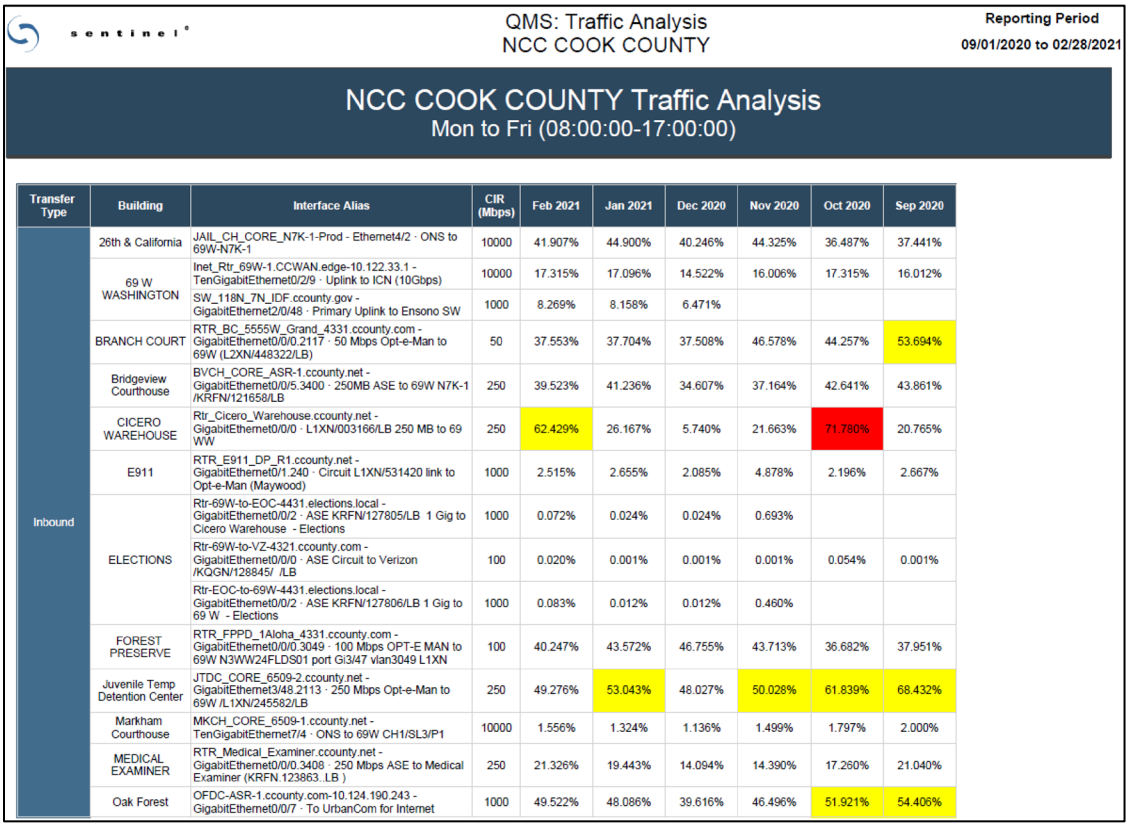
All times referenced are in Central Time.

Table 1. Network Availability SLAs

DEFINITION	Network Availability is defined as the time during which the network is fully functioning as specified below and normal business operations can be carried out with no data loss, downtime, or performance degradation. All performance criteria are to be measured on a ***per circuit and component basis***– criteria is ***not*** to be aggregated and averaged for all circuits and network components. If Root Cause of trouble is a Telecom Carrier Outage, the duration of the Carrier outage can be excluded from calculation of performance target,
PRE-SCHEDULED DOWNTIME REQUIREMENTS	All pre-scheduled maintenance shall be performed between the period beginning 0300 to 0600

Network Availability SLAs			
ATTRIBUTE	**SERVICE MEASURE**	**PERFORMANCE TARGET**	**SLA**
Circuit Availability —Critical Locations	Availability	Sun-Sat, 0000-2400	99.999%
Circuit Availability—Standard Locations	Availability	Sun-Sat, 0000-2400	99.90%
Internet Access Availability	Availability	Sun-Sat, 0000-2400	99.999%
Router Availability - Critical Locations	Availability	Sun-Sat, 0000-2400	99.999 %
Router Availability - Standard Location	Availability	Sun-Sat, 0000-2400	99.90 %
LAN Availability – Critical Location	Availability	Sun-Sat, 0000-2400	99.99%
LAN Availability - Standard Location	Availability	Sun-Sat, 0000-2400	99.90 %
VPN Availability	Availability	Sun-Sat, 0000-2400	99.99 %
IP Dial Availability	Availability	Sun-Sat, 0000-2400	99.99 %
	Formula	Availability (%) = 100% - Unavailability (%) Where Unavailability is defined as: (Σ Outage Duration x 100%) ÷ (Schedule Time – Planned Outage) Availability is per circuit, Internet Access, router, LAN, VPN, IP availability and is NOT an aggregate of the availability.	
	Measurement Interval	Monitor Continuously, Measure Daily, Report Monthly	
	Measurement Tool	TBD	



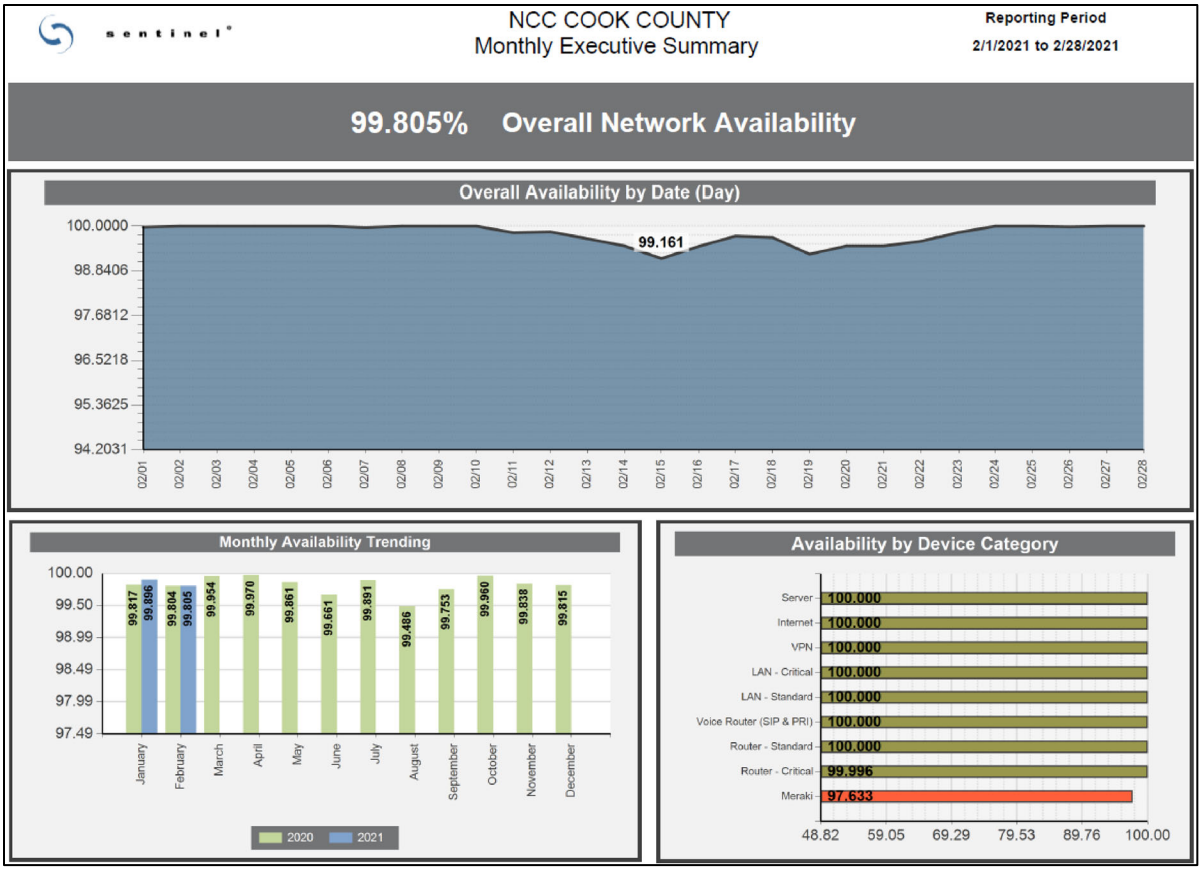


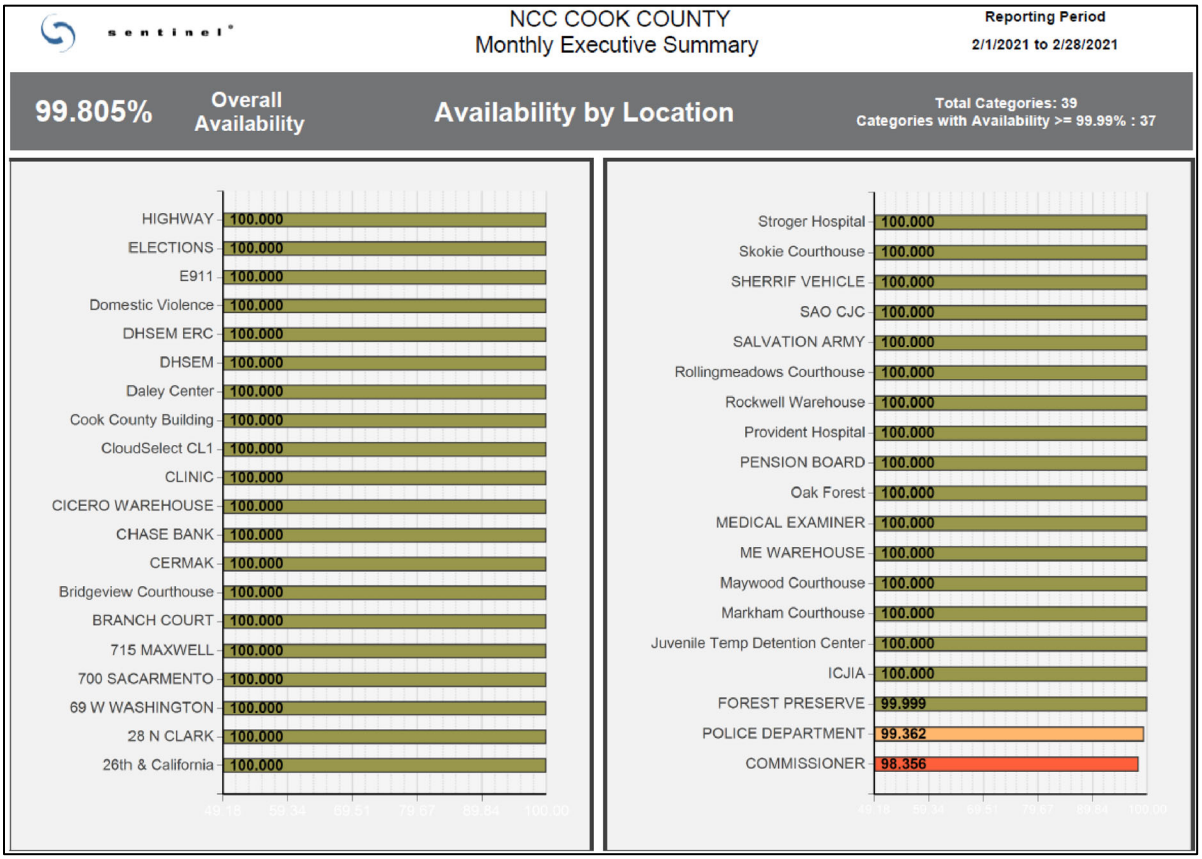
Transfer Type	Building	Interface Alias	CIR (Mbps)	Feb 2021	Jan 2021	Dec 2020	Nov 2020	Oct 2020	Sep 2020
Inbound	26th & California	JAIL_CH_CORE_N7K-1-Prod - Ethernet4/2 · ONS to 69W-N7K-1	10000	41.907%	44.900%	40.246%	44.325%	36.487%	37.441%
	69 W WASHINGTON	Inet_Rtr_69W-1.CCWAN.edge-10.122.33.1 - TenGigabitEthernet0/2/9 · Uplink to ICN (10Gbps)	10000	17.315%	17.096%	14.522%	16.006%	17.315%	16.012%
		SW_118N_7N_IDF.ccounty.gov - GigabitEthernet2/0/48 · Primary Uplink to Ensono SW	1000	8.269%	8.158%	6.471%			
	BRANCH COURT	RTR_BC_5555W_Grand_4331.ccounty.com - GigabitEthernet0/0/0.2117 · 50 Mbps Opt-e-Man to 69W (L2XN/448322/LB)	50	37.553%	37.704%	37.508%	46.578%	44.257%	53.694%
	Bridgeview Courthouse	BVCH_CORE_ASR-1.ccounty.net - GigabitEthernet0/0/5.3400 · 250MB ASE to 69W N7K-1 /KRFN/121658/LB	250	39.523%	41.236%	34.607%	37.164%	42.641%	43.861%
	CICERO WAREHOUSE	Rtr_Cicero_Warehouse.ccounty.net - GigabitEthernet0/0/0 · L1XN/003166/LB 250 MB to 69 WW	250	62.429%	26.167%	5.740%	21.663%	71.780%	20.765%
	E911	RTR_E911_DP_R1.ccounty.net - GigabitEthernet0/1.240 · Circuit L1XN/531420 link to Opt-e-Man (Maywood)	1000	2.515%	2.655%	2.085%	4.878%	2.196%	2.667%
	ELECTIONS	Rtr-69W-to-EOC-4431.elections.local - GigabitEthernet0/0/2 · ASE KRFN/127805/LB 1 Gig to Cicero Warehouse - Elections	1000	0.072%	0.024%	0.024%	0.693%		
		Rtr-69W-to-VZ-4321.ccounty.com - GigabitEthernet0/0/0 · ASE Circuit to Verizon /KQGN/128845/ /LB	100	0.020%	0.001%	0.001%	0.001%	0.054%	0.001%
		Rtr-EOC-to-69W-4431.elections.local - GigabitEthernet0/0/2 · ASE KRFN/127806/LB 1 Gig to 69 W - Elections	1000	0.083%	0.012%	0.012%	0.460%		
	FOREST PRESERVE	RTR_FPPD_1Aloha_4331.ccounty.com - GigabitEthernet0/0/0.3049 · 100 Mbps OPT-E MAN to 69W N3WW24FLDS01 port Gi3/47 vlan3049 L1XN	100	40.247%	43.572%	46.755%	43.713%	36.682%	37.951%
	Juvenile Temp Detention Center	JTDC_CORE_6509-2.ccounty.net - GigabitEthernet3/48.2113 · 250 Mbps Opt-e-Man to 69W /L1XN/245582/LB	250	49.276%	53.043%	48.027%	50.028%	61.839%	68.432%
	Markham Courthouse	MKCH_CORE_6509-1.ccounty.net - TenGigabitEthernet7/4 · ONS to 69W CH1/SL3/P1	10000	1.556%	1.324%	1.136%	1.499%	1.797%	2.000%
	MEDICAL EXAMINER	RTR_Medical_Examiner.ccounty.net - GigabitEthernet0/0/0.3408 · 250 Mbps ASE to Medical Examiner (KRFN.123863..LB)	250	21.326%	19.443%	14.094%	14.390%	17.260%	21.040%
	Oak Forest	OFDC-ASR-1.ccounty.com-10.124.190.243 - GigabitEthernet0/0/7 · To UrbanCom for Internet	1000	49.522%	48.086%	39.616%	46.496%	51.921%	54.406%

Table 2. Network Performance SLAs

DEFINITION	Network Performance includes the ability of the network components to deliver data timely and accurately. All performance criteria are to be measured on a ***per circuit and component basis***– criteria is ***not*** to be aggregated and averaged for all circuits and network components. Maximum packet size is 128 bytes.

Network Performance SLAs			
ATTRIBUTE	**SERVICE MEASURE**	**PERFORMANCE TARGET**	**SLA**
Network Transit Delay	Elapsed Time – round trip transit delay from ingress and egress ports on premise devises.	120 ms	99.99%
Packet Delivery Ratio	Successful packet transmission	99.9%	99.95% (data loss ≤ 0.05%)
Jitter	Variation in timing, or time of arrival, of received packets.	10 ms	99.95%
	Formula – Transit Delay	NTD = t2 – t1 Where: t1 is the time when a packet leaves the ingress premise, and t2 is the times when the packet arrives at the egress premise	
	Formula – Packet Delivery	**Packet Delivery Ratio** = 1 minus PDR Where: “PDR” = Packets delivered/ packets sent.	
	Formula – Jitter	J1 = □Ti - □Ti’ Where: J1 is for two consecutive packets i and i+1 and, Ti = time 1st byte of packet is received by the source port (ingress time) Ti+1 = time 1st byte of packet i+1 is received by the source port (ingress time) Ti’ = time 1st byte of packet is received by the destination port (egress time) Ti+1’ = time 1st byte of packet i+1 is received by the destination port (egress time) and □T = Ti+1 - Ti (□ is the time interval between packets at ingress □T = Ti+1’ - Ti’ (□ is the time interval between packets at egress	
	Measurement Interval	Monitor every 5 minutes, Measure Daily, Report Monthly	
	Measurement Tool	Netbrains, PRTG and Solarwinds	


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NCC COOK COUNTY
Monthly Executive Summary
Reporting Period
2/1/2021 to 2/28/2021
99.805% Overall Network Availability
Overall Availability by Date (Day)
100.0000
98.8406
97.6812
96.5218
95.3625
94.2031
99.161
02/01 02/02 02/03 02/04 02/05 02/06 02/07 02/08 02/09 02/10 02/11 02/12 02/13 02/14 02/15 02/16 02/17 02/18 02/19 02/20 02/21 02/22 02/23 02/24 02/25 02/26 02/27 02/28
Monthly Availability Trending
100.00
99.50
98.99
98.49
97.99
97.49
99.817 99.896 99.804 99.805 99.954 99.970 99.861 99.661 99.891 99.486 99.753 99.960 99.838 99.815
January February March April May June July August September October November December
2020 2021
Availability by Device Category
Server 100.000
Internet 100.000
VPN 100.000
LAN - Critical 100.000
LAN - Standard 100.000
Voice Router (SIP & PRI) 100.000
Router - Standard 100.000
Router - Critical 99.996
Meraki 97.633
48.82 59.05 69.29 79.53 89.76 100.00


sentinel
NCC COOK COUNTY
Monthly Executive Summary
Reporting Period
2/1/2021 to 2/28/2021
99.805% Overall Availability
Availability by Location
Total Categories: 39
Categories with Availability >= 99.99% : 37
HIGHWAY 100.000
ELECTIONS 100.000
E911 100.000
Domestic Violence 100.000
DHSEM ERC 100.000
DHSEM 100.000
Daley Center 100.000
Cook County Building 100.000
CloudSelect CL1 100.000
CLINIC 100.000
CICERO WAREHOUSE 100.000
CHASE BANK 100.000
CERMAK 100.000
Bridgeview Courthouse 100.000
BRANCH COURT 100.000
715 MAXWELL 100.000
700 SACARMENTO 100.000
69 W WASHINGTON 100.000
28 N CLARK 100.000
26th & California 100.000
Stroger Hospital 100.000
Skokie Courthouse 100.000
SHERRIF VEHICLE 100.000
SAO CJC 100.000
SALVATION ARMY 100.000
Rollingmeadows Courthouse 100.000
Rockwell Warehouse 100.000
Provident Hospital 100.000
PENSION BOARD 100.000
Oak Forest 100.000
MEDICAL EXAMINER 100.000
ME WAREHOUSE 100.000
Maywood Courthouse 100.000
Markham Courthouse 100.000
Juvenile Temp Detention Center 100.000
ICJIA 100.000
FOREST PRESERVE 99.999
POLICE DEPARTMENT 99.362
COMMISSIONER 98.356

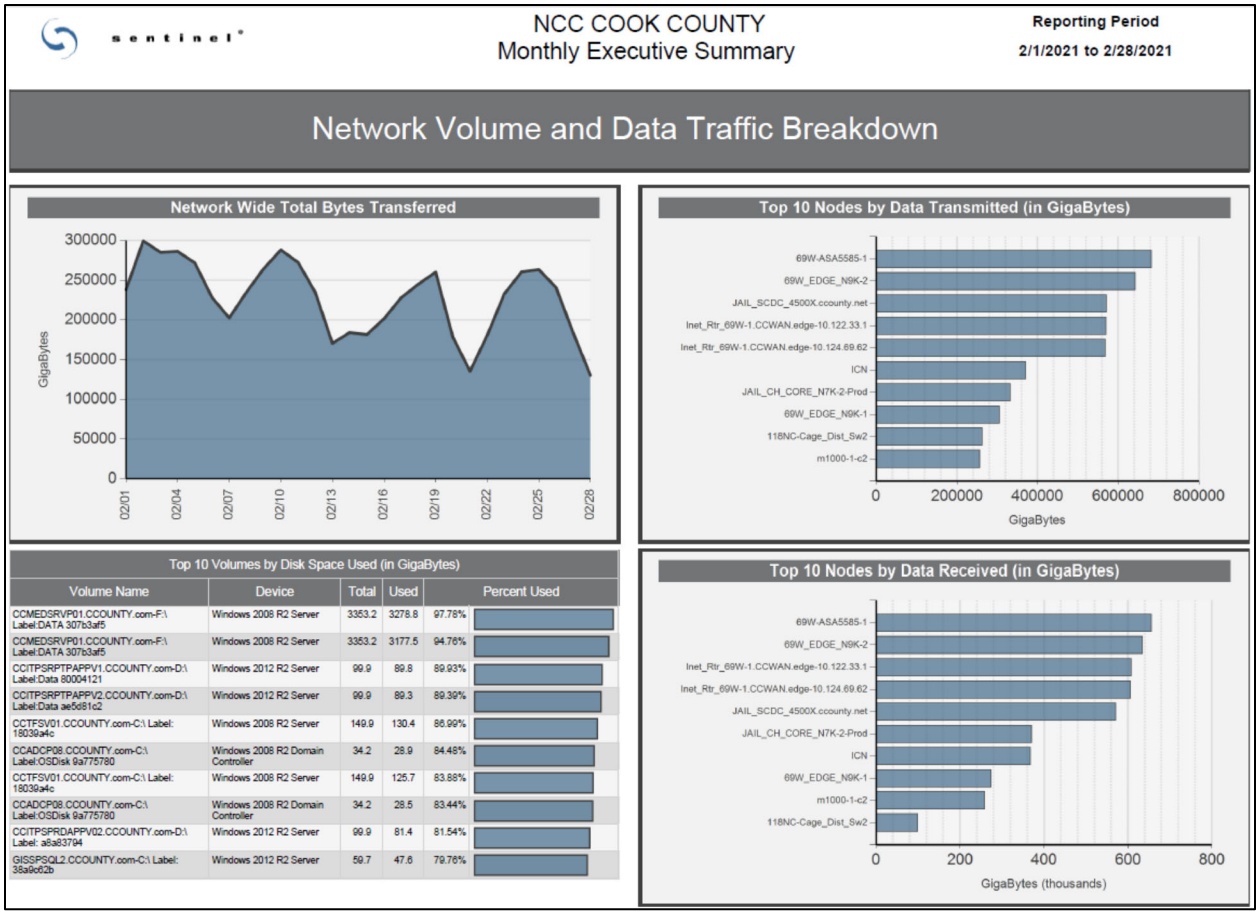


Table 3. Network Administration Services SLAs

DEFINITION	Routers and circuits to be managed proactively using either product-specific or proprietary network monitoring and management tools. Measurement for these network components is 24x7x365 requirement. Pre-scheduled maintenance shall be performed between the period beginning 0300 to 0600, with the ability to reschedule based on network availability requirements from the various groups or clients.

Network Administration Services SLAs			
Administration Task	**Service Measure**	**Performance Target**	**SLA**
Network Service Capacity Reallocation or Change	Proactive monitoring and preemptive intervention to advise the County of need to increase capacity.	Sustained avg. daily utilization reaches 60% of installed capacity	98%
IMAC– Implement service packs and updates to “dot” releases	Overall Schedule	<4 hours Note: Non-emergency IMACs should be performed during pre-scheduled maintenance hours	98.00%
IMAC—Implement version or major release updates	Overall Schedule	<24 hours Note: Non-emergency IMACs should be performed during pre-scheduled maintenance hours	98.00%

Network Administration Services SLAs			
Administration Task	**Service Measure**	**Performance Target**	**SLA**
IMAC—**service addition or change** as scheduled under Change Control process	Elapsed Time	Increases of installed capacity within 2 months Decreases of installed capacity within 6 months	95.00%
Adding/deleting user accounts	Response Time	Mon–Fri, 0600–2100 Immediately	99.00%
Firewall Management Implementation of firewall changes related to changing, adding/deleting firewall rules.	Response Time	Emergencies: ≤2 hours Standard Requests: within normal change control parameters after submission by the County	99.00%
	Formula	Transactions completed within Performance Target / Total Transactions	
	Measurement Interval	Monitor Continuously, Measure Daily, Report Monthly	
	Measurement Tool	TBD	

Service Level Agreements – Incident

Severity	Notification	SLA Commitment	Response SLA	SLA Commitment	MTTR (Mean Time to Repair)	SLA Commitment
P1	15 minutes	99.50%	1 hour	99.50%	8 hours	99.50%
P2	15 minutes	99.50%	2 hours	99.50%	NBD	99.50%
P3	48 hours	99.50%	48 hours	99.50%	Two Business Days	99.50%

Service Level Agreements – Change

Severity	Notification SLA	Implementation SLA	SLA Commitment
C1=Emergency	30 minutes	2 hours	99.00%
C2=Urgent	1 hour	8 hours	99.00%
C3-Planned	48 hours	Will be implemented within 2 business days if needed. Otherwise, the change will be scheduled during the weekly maintenance window or an alternate, agreed upon maintenance window approved by the customer.	99.00%

Table 4. Security Intrusion Detection SLAs

DEFINITION	Network traffic to/from designated systems is monitored for current attack signatures and is retained for 3 days. Measurement for this service is 7x24x365 requirement. Pre-scheduled maintenance shall be performed between the period beginning 0300 to 0600.

Security Intrusion Detection SLAs			
Management Task	**Service Measure**	**Performance Target**	**SLA**
NIDS – monitor for current attack signatures	Overall Schedule	Sun-Sat, 0000-2400	99.99%

HIDS – monitor for changes to selected local files	Overall Schedule	Sun-Sat, 0000-2400	99.99%
NIDS – review all positive priority 1 and priority 2 alerts and notify the County by E-mail and telephone	Elapsed Time	<15 minutes	99.90%
	Formula	Performance = Transactions completed per Management Task within Performance Target / Total Transactions per Management Task occurring during the Measurement Interval	
	Measurement Interval	Monitor Continuously, Measure Daily, Report Monthly	
	Measurement Tool	TBD by the CISO	

Table 5. Security Penetration Services SLAs

DEFINITION	Entire networks are tested to determine the susceptibility of their hosts to current attacks. Pre-scheduled maintenance shall be performed between the period beginning 0300 to 0600.

Security Vulnerability & Penetration Services SLAs			
Management Task	**Service Measure**	**Performance Target**	**SLA**
Testing of vulnerabilities & Penetration	Overall Schedule	Sun-Sat, 0000-2400	99.90%
	Formula	Transactions completed within required time / Total Transactions	
	Measurement Interval	Monitor Continuously, Measure Daily, Report Monthly	
	Measurement Tool	TBD by the CISO	

Table 6. Port Activation Services SLAs

DEFINITION	Port activation must be managed using either product-specific or proprietary tools. Measurement for these services is 24x7x365 requirement. Pre- scheduled maintenance shall be performed between the period beginning 0300 to 0600, with the ability to reschedule based on network availability requirements from the various groups or clients.

Port Activation Services SLAs			
Management Task	**Service Measure**	**Performance Target**	**SLA**
Activate Ports	Overall Schedule	<4 hours	98.00%
	Formula	Transactions completed within required time / Total Transactions	
	Measurement Interval	Monitor Continuously, Measure Daily, Report Monthly	
	Measurement Tool	TBD	

Service Level Agreements – Change

Severity	Notification SLA	Implementation SLA	SLA Commitment
C1=Emergency	30 minutes	2 hours	99.00%
C2=Urgent	1 hour	8 hours	99.00%
C3-Planned	48 hours	Will be implemented within 2 business days if needed. Otherwise, the change will be scheduled during the weekly maintenance window or an alternate, agreed upon maintenance window approved by the customer.	99.00%

Table 7. Trouble Resolution SLA

Problem Resolution SLAs			
Administration Task	**Service Measure**	**Performance Target**	**SLA**
Severity 1- Mission Critical Issues	Service issues that impact the ability to carry out Mission Critical Function with no work around	< 4 hour	98%
Severity 2- Major Impa	Service issues that impact multiple users at a single site or multiple sites with no wor around	<8 hours	98%
Severity 3- Moderate impact	Service issues that impact multiple users but work around available	< 3 days	98%
Severity 4- Low impact	Single user affected and work around available	<10 days	98%

Service Level Agreements – Incident

Severity	Notification	SLA Commitment	Response SLA	SLA Commitment	MTTR (Mean Time to Repair)	SLA Commitment
P1	15 minutes	99.50%	1 hour	99.50%	8 hours	99.50%
P2	15 minutes	99.50%	2 hours	99.50%	NBD	99.50%
P3	48 hours	99.50%	48 hours	99.50%	Two Business Days	99.50%

2.11.3 Service Credits and Earn back

Service Credits offered in the event a service level is not achieved within any monthly invoice period are detailed on the SLA Credits Tab on Appendix I.

Uptime and Maintenance Windows

The Contractor NOC system is built for 99.999% redundancy. Enterprise Insight guarantees the NOC environment uptime shall be 99%. The system will be updated/patched by the Contractor on the third Saturday to Sunday of each month from 10:00 p.m. to 6:00 a.m., on a monthly basis. This will include the server infrastructure, as well as network infrastructure. This plan will consist of the following information:

- Device being updated.
- Updates being installed.
- Impact to the environment.
- Process for removing update that was installed.
- Criteria for a successful update.
- Process for testing the environment when back online.
- Person performing the update.

3.0 Network Consulting Services

Contractor will provide Consulting Services related to Network Operations and functionality that may not be expressly addressed in the above requirements. These services will be on a Time and Materials (Hourly basis) detailed on the Network Consulting T&M Tab on Appendix I.

Contractor will act as a medium with various network vendors and manufacturers for the sole purpose of showcasing new technology and providing a controlled environment and test lab to understand and evaluate new manufacturer's equipment in a secure environment.

4.0 After Hours Help Desk Support

To supplement tech support after hours, Contractor shall provide afterhours Service Desk support to include phone coverage, ticket creation, level 1 support, and/or ticket/call escalation for calls originating from Cook County Bureau of Technology Service Inbound Telephone Numbers.

The scope of the work for the after-hours support includes the following:

- Answering of phone calls
- Priority determination – If the County answers 'yes' to any of these it will require an escalation
    - Is the service unusable?
    - Is there a degradation of service?
    - Is it affecting multiple users?
    - Is the business process affected greatly?
- Cherwell Ticket creation and assignment
- Level 1 support to the following specific applications
    1. Active Directory
        a. Password Resets
    2. Employee self-service portal to access pay stubs.
        a. Password Resets

3. Time and Attendance
    a. Password Resets
    b. Ticket escalation
    c. For any issue Contact Server on-call
4. Schedule of After-hours support include
    a. Monday through Friday - 6pm to 6am
    b. Fridays 6pm to Mondays 6am
    c. All County Holidays

5.0 Network Equipment & Warranty Purchases

Contractor must provide, or purchase on behalf of the County, network hardware, software, ancillary equipment, peripherals, servers and maintenance coverage necessary to support to keep the network in a steady or optimal state. Note that this contract is not intended to be a primary vehicle for hardware and software purchases. The County maintains separate contracts for regular hardware and software purchases, but may optionally request the Contractor to provide equipment on a limited basis. All such assets are to be property of Cook County. Contractor will be responsible for notifying Cook County of associated warranty periods and future maintenance requirements. The rates will be expressed as a percentage off manufactured list price as set forth herein.

6.0 Key Personnel

The Contractor must identify the key personnel that will be committed to the project. The Chief Procurement Officer reserves the right to reject any key personnel proposed if it is determined in the County's best interest. All key personnel must be committed to the project without competing priorities. The evaluation of proposals includes the qualifications of the personnel proposed; therefore, Contractors will name key personnel as part of their proposal. Key Personnel must not be replaced during the project without the approval of the Chief Procurement Officer.

Staffing Role Qualifications

A. Senior Network Engineer
The assigned Senior Network Engineer is the technical liaison for projects requiring connectivity to the Cook County WAN. This position must possess a minimum of seven (7) years continual computer networking experience. The Senior NE will also be fully experienced in troubleshooting LAN/WAN/Wireless network connectivity issues utilizing diagnostic and analysis tools to isolate and repair complex network troubles.

Requirements: All Network Engineer II requirements PLUS;

- Must possess excellent oral and written communication skills as well as executive level presentation skills.
- CCIE, CCNP or equivalent experience
- Experience with Network design and solution design
- Strong knowledge of routing protocols, especially BGP, OSPF, EIGRP
- Experience working with Cisco security products such as Cisco ASA's
- Cisco Mobile Access Router knowledge and experience Network Associates Sniffer
- Network monitoring and security knowledge
- Experience working with Network Load Balancer

B. Network Engineer II
The assigned Network Engineer II is responsible for maintaining and implementing WAN/LAN systems. This position must possess a minimum of five (5) years continual computer networking experience. The NE II must be able to maintain the network management platforms, firewall security, RAS system, and others as required.

Requirements: All Network Engineer I requirements PLUS;

- Must possess excellent oral and written communication skills.
- CCNP or equivalent experience
- Experience with Cisco Nexus platform 5k, 7k
- Experience working on Cisco Catalyst 6500 series switches
- Experience working with enterprise or carrier class Cisco routers
- Strong knowledge of TCP/IP
- DNS/DHCP knowledge and experience
- Cisco firewall software configuration and management experience
- Network monitoring and security knowledge
- Remote Access implementation using VPN and Dial-Up
- Wireless Networking

C. Network Engineer I

The assigned Network Engineer I will be responsible for on-going support and network trouble resolution. Primary responsibility is to work with network end-users regarding connectivity issues and to coordinate service delivery from various communication providers.

Requirements:

- Must possess excellent oral and written communication skills.
- Cisco CCNA or equivalent experience
- TCP/IP configuration and addressing experience
- Experience with network management tools i.e. Cisco Prime, PRTG, SolarWinds
- Knowledge of TCP/IP OSPF design using CIDR and VLSM Network monitoring and security knowledge

D. Technical Project Manager

The assigned Project Manager must possess a minimum of four (4) years' experience as a Technical Project Manager. Duties include generating reports, meeting project timelines, and manpower management. The Project Manager must be well versed in the use of Microsoft Project Management, Microsoft Visio, as well as the Microsoft Office Suite. The Project Manager will be the primary point of contact for initiating new network connections and planning for the required resources to meet project objectives.

Requirements:

- Excellent oral, written, supervisory, organizational, and presentation skills
- A working know ledge of Microsoft suite of application software with a proven ability to manage all aspects of a technical project. Project management certification or equivalent experience required.
- A proven ability to manage and motivate people

E. Operations Manager

The assigned Operations Manager is responsible for the day-to-day operation of the command center with logistical supervision of the personnel assigned to the center.

Requirements:

- Excellent oral, written, supervisory, organizational, and presentation skills
- A proven ability to work under time constraints and pressure situations arising from major network outages
- A working knowledge of Microsoft suite of application software
- Assign incident and request tickets based on engineer's availability and skill level and conduct end user follow-up as needed
- Generate call ticket reports for presentation and reporting metrics

F. Senior Voice Engineer II

The assigned Senior Voice Engineer II will be involved in all aspects regarding the installation, maintenance and troubleshooting of Call Manager, Unity, UCCE/UCCX, IP phones, network infrastructure (Route /Switch / Server WAN Integration), telecommunication infrastructure, specifically Cisco UC, Call Manager, Data Center, Presence Server, and Contact Center Express. Extensive Call Manager background and possess strong communication skills.

Requirements:

- Must possess excellent oral and written communication skills
- 7+ years of experience in network development and IP management
- 7+ years of experience with Call Manager (version10.x), Unity and UCCX
- Strong understanding of end to end support services
- Advanced skill level with Microsoft Office
- Experience with remote monitoring tools
- CCNA or CCNP preferred

G. Voice Engineer II

The assigned Voice Engineer II will be involved in all aspects regarding the installation, maintenance and troubleshooting of Call Manager, Unity, IP phones, network infrastructure (Route /Switch / Server WAN Integration), telecommunication infrastructure, specifically Cisco UC, Call Manager, Data Center, Presence Server, and Contact Center Express. Extensive Call Manager background and possess strong communication skills.

Requirements:

- Must possess excellent oral and written communication skills
- 5+ years of experience in network development and IP management
- 5+ years of experience with Call Manager (version10.x) and Unity
- Strong understanding of end to end support services
- Advanced skill level with Microsoft Office
- Experience with remote monitoring tools
- CCNA or CCNP preferred

7.0 Data Ownership, Access and Retention

All **County Data** shall be and remain the sole and exclusive property of the County. The Contractor will treat County Data as Confidential Information. The Contractor will be provided a license to County Data hereto under for the sole and exclusive purpose of performing its obligations under this Agreement, including a limited non-exclusive, non-transferrable license to transmit, process, and display County Data only to the extent necessary in the provisioning of the Services and not for the storage or recording of County Data. The Contractor will be prohibited from disclosing County Data to any third party without specific written approval from the County. The Contractor will have no property interest in, and may assert no lien on or right to withhold County Data from Cook County.

At all times, the County shall be able to receive County data, associated metadata, and reasonably granular subsets thereof, as well as any associated files or attachments, from the System in a useable, encrypted format.

Upon termination of the contract and at the County's written request, County shall destroy County Data, including backups and copies thereof, according to NIST standards or as otherwise directed by the County.

The System shall have the ability to retain County data in a manner that is searchable and capable of compliance with records retention laws and best practices.

At no time may Contractor suspend or terminate County's access to County Data or the System for breach of contract or term or condition relating to the System without giving the County reasonable notice and opportunity to cure according to the County's dispute resolution process.

8.0 Licensing, Warranties and Other Terms and Conditions

Contractor represents and warrants that that will abide by any license agreement if utilizing County tools and licenses. Contractor also warrants that any of their own licenses utilized by the Contractor during this engagement are legally licensed, or owned for their use and any parties they designate.

9.0 Data Security and Compliance

Contractor must protect County Data under this contract and must have in place technical safeguards in accordance with industry standards.

10.0 Business Continuity and Recovery

Contractors must be able to provide the services continuously 24x7x365 from the County's Network Control Center, from the Contractor's Network Control Center, or remotely by the Contractor's on-call personnel.

Contractors shall, in the event of a technology or other failure at the County's Network Control Center, meet required service levels using relocated staff or alternate staff with the necessary skills.

Contractors must implement Crisis Management, Business Continuity and Disaster Recovery Plans, subject to County approval, which the County will not reasonably withhold. These plans must outline how the Contractor will support the County at the alternate site, including backup staff required to implement the plan in an emergency if the Contractor's primary staff is unavailable. Such plans shall also include a minimum of annual testing in coordination with the County.

Contractor must specify their plan to maintain the service levels if their primary staff assigned to work at the County becomes unavailable due to widespread illness, physical incapacitation, transportation stoppages, or other circumstances that prevent staff from reporting to work at the County.

If the Contractor intends to use the Contractor's own Network monitoring hardware or software that is hosted at its own data center or a third-party, the Contractor must individually address each the following requirements and provide sufficient detail on whether and how it meets the following requirements:

- Contractors must have an automated backup and recovery capability for the system and application, including incremental and full back-up capabilities. Additionally, system backups must be accomplished without taking the application out of service and without degradation of performance or disruption to County operations.
- Contractors must be able to provide the service from at least two geographically diverse data centers that do not share common threats (e.g. the data centers cannot be in the same earthquake zone, likely hurricane path, same flood zone, etc.). The data centers must at a minimum meet Tier III standards for redundancy of power, telecommunications, HVAC, security, fire suppression, and building integrity.

- Contractors must specify whether, in the event of a technology or other failure at the primary processing center, the alternate system will meet High Availability, for which the County's use should be identical regardless of which location is processing the County's work. Contractors must specifically describe how the System meets such tier:

Category	Availability	RTO	Characteristics & RPO
High Availability	99.982%	Intra-day	Typically involves data replication to a hot- Site for each transaction or at short intervals, like 15 minutes.

Contractors must specify the System has proven Recovery Time Objectives and Recovery Point Objectives in case the primary site becomes unavailable.

11.0 Auditing Requirements

At the request of the County, Contractor must individually address each the following requirements and provide sufficient detail on whether and how it meets the following requirements:

- Contractor will provide annual SOC 2, Type 2 audit reports, or other SSAE-16 audit reports, to the County;
- The County will have the right to access and audit Contractor's System and Hosting;
- County will have the right to request reasonable adjustments at County's expense where those requests are based upon audit findings pertaining to the System or Hosting.

12.0 Transition Out and Exit Requirements

Upon request from County, Contractor will provide pre-existing documentation for any of the below requirements.

- Contractor shall reasonably specify all foreseen exit and transition out requirements and associated costs, including those related to time, documentation, Contractor's employees and County's employees;
- Upon termination of the Contract and County request, Contractor shall destroy County Data, including backups and copies thereof, according to NIST standards or as otherwise directed by the County.
- Contractor shall cooperate with the County to determine an optimal transition time, no less than 90 days in advance, given the degree of complexity such as the County's network. Contractor will continue billing for services and pare down support staff as the new contract holders become trained and familiar with the network.
- Contractor will provide transition support to new vendor for up to six months after contract termination at the resource rates then in effect for any support required, including but not limited to below items
- Contractor's transition out and exit plan shall include the following task listed below:
    - Produce complete documentation, in the form of a procedures manual for NCC operation and supplemental documents, which shall at a minimum include:
    - Detailed IP address schemes;
    - Detailed network diagrams of all County WAN and LAN segments and all current- state network elements;
    - Safe and secure communication to the County of all device passwords for routers, switches, firewalls, appliances and other devices under the control of Contractor;
    - Detailed BGP/OSPF design;
    - Detailed QOS configuration;

- All current standard operating procedures;
- Detailed wireless diagram identifying all access point locations;
- Detailed firewall configuration with rules standards;
- Detailed VPN configuration and policies;
- Provide a list of all current projects in process;
- Identifying for County approval all network tools available for supporting the network;
- Provide for County approval a call history, project, and network performance reports utilizing County supplied programs;
- Training County staff and any subsequent third parties supporting or performing WAN support responsibilities for County for at least 90 days and paid at rate card available rate.

13.0 Invoicing and Payment

Invoicing & Payments shall be delineated into three separate categories of charges:

13.1 Monthly Fixed Fee

This is the monthly recurring charge for Network Services Described in the Scope of Network Services and as depicted by the monthly fixed fee stated herein.

The Monthly Fixed Fee Shall be invoiced on a monthly basis.
All Sentinel services and product purchases will be invoiced monthly and payments should be sent to Sentinel Payment address/bank/payment (Sentinel Please complete)

Payment terms net 60.

13.2 Network Consulting Services

Network Consulting Services are services related to Network Operations and functionality that are not expressly addressed in Section 2.0 Scope of Network Services, or for large scoped projects with immediate completion times requiring additional resources to meet deadlines.

Contractor shall charge these services on a Time and Materials (Hourly basis) over the duration of the contract. The hourly rates for Network Consulting Services are outlined herein.

The hourly rate for network consulting services shall be fixed for the term of the contract and subsequent renewal periods if optioned by the County.

To authorize additional Network Consulting Services

- The County Director of Telecommunications shall present Contractor with a Request for Quote with a list of deliverables and acceptance criteria
- Contractor shall respond with a proposed service work order, and Fixed Cost estimate
- If approved, County shall issue a service work order, referencing an Open Purchase Order with approved funds, or issue a separate Purchase order in the amount of the Contractor Quote
- Upon receipt of the work order, Contractor is authorized to proceed with work
- Contractor shall invoice upon completion of the work and acceptance of deliverables, or otherwise invoice monthly for progress billing equal to the percentage of project complete. To initiate progress billing option, Contractor must propose this option in the initial quote and the County shall either accept or deny the option on an individual case basis. Progress billing will not be authorized if not proposed by Contractor accepted by the County prior to the work authorization.

13.3 Equipment & Warranty Purchases

The County maintains separate contracts with outside vendors for regular hardware purchases, but may optionally request that Contractor to provide equipment on a limited basis.

To keep the Network operational, Contractor may be required to provide or purchase equipment and equipment warranties such as Cisco SMARTnet or equivalent, on behalf of Cook County, or other third party maintenance vendors

The Contractor shall charge the County a flat percentage discount off manufacturer catalog price as outlined herein. Note that this contract is not intended to be a primary vehicle for equipment purchases.

Upon the request from County, Contractor shall supply a quote for requested equipment or equipment manufacturer warranty or equivalent. If approved, County shall issue a purchase order, or else issue an emergency authorization from an Authorized County Representative

Equipment purchases made by Contractor on behalf of County shall be invoiced upon receipt by County, and equipment title will transfer to County upon receipt and payment by County

Exhibit A – Network Exhibit

Cook County													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
Cisco Direct, Licensing Support													
L-AC-APX-LIC=	Cisco AnyConnect Apex Term License, Total Authorized Users	Client VPN Licensing	7510DSXTY4P	5472774234	12-Jun-23	31-Mar-27	10000	$ -	$ 10,000	$ 20,000	$ 20,000	$ 20,000	
L-AC-APX-LIC=	Cisco AnyConnect Apex Term License, Total Authorized Users	Client VPN Licensing	751HKV98YWE	5521154627	17-Nov-23	31-Mar-27	100	$ -	$ 300	$ 700	$ 800	$ 900	
Cisco SMARTnet, 24x7x4 Parts & Remote Solution Support													
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0LC	5153483745	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0K0	5153483746	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0KK	5153483747	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0KJ	5153483748	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0K9	5153483750	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
ISR4451-X-V/K9	Cisco ISR 4451 UC Bundle, PVDM4-64, UC Lic	Branch Router	FJC2135D0K4	5153483751	23-Aug-22	31-Mar-27	1	$ 2,499	$ 4,759	$ 5,457	$ 6,276	$ 7,217	
FPR4125-ASA-K9	Cisco Firepow er 4125 ASA Appliance, 1U, 2 x NetMod Bays	Internet Firew all	JMX2425L06M	5476531195	30-Jun-23	31-Mar-27	1	$ -	$ 21,143	$ 29,128	$ 33,497	$ 38,522	
FPR4125-ASA-K9	Cisco Firepow er 4125 ASA Appliance, 1U, 2 x NetMod Bays	Internet Firew all	JMX2425L06N	5476531220	30-Jun-23	31-Mar-27	1	$ -	$ 21,143	$ 29,128	$ 33,497	$ 38,522	
FPR4125-ASA-K9	Cisco Firepow er 4125 ASA Appliance, 1U, 2 x NetMod Bays	Internet Firew all	JMX2433L04G	5494576871	17-Aug-23	31-Mar-27	1	$ -	$ 17,466	$ 29,128	$ 33,497	$ 38,522	
FPR4125-ASA-K9	Cisco Firepow er 4125 ASA Appliance, 1U, 2 x NetMod Bays	Internet Firew all	JMX2433L04F	5494576872	17-Aug-23	31-Mar-27	1	$ -	$ 17,466	$ 29,128	$ 33,497	$ 38,522	
Cisco SMARTnet, 8x5xNBD Parts & Remote Solution Support													
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JJ	1247449238	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JC	1247449627	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JF	1247455871	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JR	1247455882	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JP	1247455898	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-1150=	DCF of -1150 ps/nm and 8dB loss	ONS	OFS170500JL	1247455910	1-Apr-23	31-Mar-27	1	$ -	$ 409	$ 469	$ 539	$ 620	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HE	1208740676	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HF	1208740691	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200J3	1208740701	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HC	1208740716	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HY	1208740729	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HK	1208740739	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200J4	1208740749	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200HD	1208740784	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-350=	DCF of -350 ps/nm and 4dB loss	ONS	OFS170200J7	1208740795	1-Apr-23	31-Mar-27	1	$ -	$ 174	$ 200	$ 229	$ 264	
15216-DCU-450=	DCF of - 450 ps/nm	ONS	OFS170100LF	1210766609	1-Apr-23	31-Mar-27	1	$ -	$ 227	$ 261	$ 300	$ 345	
15216-DCU-450=	DCF of - 450 ps/nm	ONS	OFS170100LE	1210766655	1-Apr-23	31-Mar-27	1	$ -	$ 227	$ 261	$ 300	$ 345	
15216-DCU-450=	DCF of - 450 ps/nm	ONS	OFS170100LG	1210766664	1-Apr-23	31-Mar-27	1	$ -	$ 227	$ 261	$ 300	$ 345	
15216-DCU-750=	DCF of -750 ps/nm and 6dB loss	ONS	OFS170200JA	1213602717	1-Apr-23	31-Mar-27	1	$ -	$ 300	$ 344	$ 395	$ 454	
15216-DCU-750=	DCF of -750 ps/nm and 6dB loss	ONS	OFS170200JD	1213602761	1-Apr-23	31-Mar-27	1	$ -	$ 300	$ 344	$ 395	$ 454	
15216-DCU-950=	DCF of - 950 ps/nm	ONS	OFS170100LQ	1215933528	1-Apr-23	31-Mar-27	1	$ -	$ 358	$ 410	$ 472	$ 543	
15216-DCU-950=	DCF of - 950 ps/nm	ONS	OFS170100M0	1215933564	1-Apr-23	31-Mar-27	1	$ -	$ 358	$ 410	$ 472	$ 543	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QF3	1208827522	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16520QHV	1208827562	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q71	1208831226	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QF1	1208831237	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q6B	1208831244	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q6V	1208831260	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QGS	1208831265	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QEN	1208831268	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QF4	1208831270	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q6X	1208831281	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q6L	1208831289	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16510QEO	1208833132	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-DCU-SA=	Mechanical shelf (housing 2 DCM)	ONS	SMA16460Q6E	1208833138	1-Apr-23	31-Mar-27	1	$ -	$ 23	$ 26	$ 30	$ 34	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010006	1208499234	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000T	1208499245	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000R	1208499257	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010005	1208499261	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000N	1208499271	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000H	1208499282	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010007	1208499292	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000M	1208499299	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000V	1208499309	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1649008K	1208499338	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000W	1208499344	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000U	1208499353	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000P	1208499363	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM164900CC	1208500597	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000S	1208500610	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15216-MD-ODD-LIC=	^Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000Q	1208500622	31-Jan-23		1	$ -	$ -	$ -	$ -	$ -	
15454-40-SMR1-C=	40Chs Single Module ROADM w ith integrated Optical PRE Amplif	ONS	JUC1825S002	1573640247	1-Apr-23	31-Mar-27	1	$ 4	$ 1,321	$ 1,515	$ 1,742	$ 2,004	
15454-AIC-I	^Alarm Interface Card Enh Intl, I-Temp	ONS	CAT100411JF	279845990	1-Apr-23	29-Feb-24	1	$ 1	$ 131	$ -	$ -	$ -	
15454-AIC-I	^Alarm Interface Card Enh Intl, I-Temp	ONS	CAT100411H1	279847828	1-Apr-23	29-Feb-24	1	$ 1	$ 131	$ -	$ -	$ -	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1640NV8C	1247814345	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1640NV9U	1247814382	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1640NV91	1247814400	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1640NV9C	1247814411	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XCUU	1247814423	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XD5T	1247814438	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XCV2	1247826337	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XCUV	1247826352	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XD5X	1247826364	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1704XD62	1247826377	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL1938PKS5	1729983500	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M6-SA=	^6 service slot MSTP shelf, includes M-SHIPKIT,M6-FTF,BRKTS	ONS	SAL2028T8WF	1826744451	1-Apr-23	31-Mar-27	1	$ -	$ 33	$ 38	$ 43	$ 49	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BN	1232982953	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BB	1232982977	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1646B2JV	1232982989	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1B5	1232983002	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1XR	1232983013	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1D3	1232983029	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BJ	1232983040	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BM	1233011855	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BG	1233011869	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1B3	1233011905	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1B4	1233011931	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1646B2HT	1233011942	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1B7	1233011953	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1Y0	1233011968	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT1703B1BL	1233011982	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT2030B0QZ	1829189394	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TNCE-K9=	MSTP / NCS 2K Transport Node Controller w ith Ethernet PTP	ONS	CAT2032B085	1829189424	1-Apr-23	31-Mar-27	1	$ -	$ 239	$ 274	$ 315	$ 362	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1651B2NY	1213718435	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1651B2PJ	1213718463	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1651B2Q0	1213718477	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1651B2Q3	1213718487	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1942B046	1729891844	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-M-TSCE-K9=	MSTP / NCS 2K Transport Shelf Controller w ith Ethernet PTP	ONS	CAT1942B02R	1729891878	1-Apr-23	31-Mar-27	1	$ -	$ 125	$ 143	$ 164	$ 189	
15454-OPT-AMP-17C=	^17dB Gain, Amp	ONS	CAT1701B03G	1210775633	1-Apr-23	30-Sep-23	1	$ 334	$ 346	$ -	$ -	$ -	
15454-OPT-AMP-17C=	^17dB Gain, Amp	ONS	CAT1652B266	1210775658	1-Apr-23	30-Sep-23	1	$ 334	$ 346	$ -	$ -	$ -	
15454-OPT-AMP-C=	ONS 15454 Enhanced Optical Amplifier	ONS	CAT1702B37J	1223933772	1-Apr-23	31-Mar-27	1	$ -	$ 1,131	$ 1,297	$ 1,491	$ 1,715	
15454-OPT-AMP-C=	ONS 15454 Enhanced Optical Amplifier	ONS	CAT1701B0EN	1223933786	1-Apr-23	31-Mar-27	1	$ -	$ 1,131	$ 1,297	$ 1,491	$ 1,715	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1709B00U	1311771012	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1L9	1311771062	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JP	1311771074	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1M6	1311771084	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1L4	1311771100	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LT	1311771113	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1K3	1311771130	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1EU	1311771144	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1KM	1311771162	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J2	1311771177	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J7	1311771189	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JE	1311771209	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JJ	1311771221	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1ER	1311771233	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LV	1311771244	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1KE	1311771260	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1GL	1311771275	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JM	1311771290	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J6	1311771303	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JT	1311771318	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JA	1311771328	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LX	1311771348	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J1	1311771364	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LM	1311771378	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0LX	1729906158	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0NN	1729906172	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0NG	1729906188	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B019	1729906200	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT2028B14P	1824242669	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0HQ	1824242683	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0J8	1824242693	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-OTU2-XP=	^4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0K1	1824242704	1-Apr-23	30-Sep-24	1	$ -	$ 691	$ 397	$ -	$ -	
15454-PP-4-SMR=	1RU 4-Degree SM ROADM Mesh Patch Panel	ONS	ADM1647003U	1241250541	1-Apr-23	31-Mar-27	1	$ -	$ 283	$ 325	$ 373	$ 429	
15454-SA-HD	^15454 SA HD NEBS3 ANSI w / RCA and Ship Kit	ONS	SAT1016058J	279845999	1-Apr-23	29-Feb-24	1	$ -	$ 94	$ -	$ -	$ -	
15454-SA-HD	^15454 SA HD NEBS3 ANSI w / RCA and Ship Kit	ONS	SAT1016058D	279847833	1-Apr-23	29-Feb-24	1	$ -	$ 94	$ -	$ -	$ -	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1649S007	1215910664	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1648S016	1215910710	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1649S027	1215910720	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1649S005	1215910740	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1649S094	1215910748	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1650S003	1215910761	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR1-LIC=	SM ROADM 1-PRE-AMP 100GHZ-CBAND-10ch License Restricted	ONS	JUC1727S008	1455274186	1-Apr-23	31-Mar-27	1	$ -	$ 774	$ 888	$ 1,021	$ 1,174	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1646E011	1213730112	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1644E016	1213730167	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1645E022	1213730178	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1644E069	1213730190	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1646E005	1213730199	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1645E030	1213730212	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	JUC1646E014	1213730224	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-SMR2-LIC=	SM ROADM 2-PRE-AMP-BST 100GHZ-CBAND-10ch License Restricted	ONS	FIW210902PS	5111589781	1-Apr-23	31-Mar-27	1	$ -	$ 1,516	$ 1,739	$ 1,999	$ 2,299	
15454-TCC2P-K9	^Timing Communications Control Two Plus, I-Temp	ONS	CAT10110N9A	279845909	1-Apr-23	29-Feb-24	1	$ -	$ 112	$ -	$ -	$ -	
15454-TCC2P-K9	^Timing Communications Control Two Plus, I-Temp	ONS	CAT10070CYV	279847766	1-Apr-23	29-Feb-24	1	$ -	$ 112	$ -	$ -	$ -	
15454-TCC2P-K9=	^Timing Communications Control Two Plus, I-Temp	ONS	CAT10010AZ0	279844826	1-Apr-23	29-Feb-24	1	$ -	$ 112	$ -	$ -	$ -	
15454-TCC2P-K9=	^Timing Communications Control Two Plus, I-Temp	ONS	CAT10061LJF	279844933	1-Apr-23	29-Feb-24	1	$ -	$ 112	$ -	$ -	$ -	
AIR-CT5508-12-K9	^Cisco 5508 Series Wireless Controller for up to 12 APs	Wireless Controller	FCW1402L0BQ	515216013	1-Apr-23	31-Jul-23	1	$ -	$ 787	$ -	$ -	$ -	
AIR-CT5508-250-K9	^Cisco 5508 Series Wireless Controller for up to 250 APs	Wireless Controller	FCW1744L08L	1476871262	1-Apr-23	31-Jul-23	1	$ -	$ 4,651	$ -	$ -	$ -	
AIR-CT5508-25-K9	^Cisco 5508 Series Wireless Controller for up to 25 APs	Wireless Controller	FCW1849L099	1613860250	1-Apr-23	31-Jul-23	1	$ -	$ 1,145	$ -	$ -	$ -	
AIR-CT5508-HA-K9	^Cisco 5508 Series Wireless Controller for High Availability	Wireless Controller	FCW1734L0DN	1509697333	1-Apr-23	31-Jul-23	1	$ -	$ 787	$ -	$ -	$ -	
AIR-CT5508-HA-K9	^Cisco 5508 Series Wireless Controller for High Availability	Wireless Controller	FCW1849L096	1614060500	1-Apr-23	31-Jul-23	1	$ -	$ 787	$ -	$ -	$ -	
ASA5505-50-BUN-K9	^ASA 5505 Appliance with SW, 50 Users, 8 ports, 3DES/AES	Firewall	JMX1232Z1LS	413478425	31-Aug-22		1	$ -	$ -	$ -	$ -	$ -	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX1926Z01F	1682149121	1-Apr-23	31-Aug-26	1	$ -	$ 752	$ 863	$ 992	$ 478	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX1946Z0NU	1737574414	1-Apr-23	31-Aug-26	1	$ -	$ 752	$ 863	$ 992	$ 478	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX194740B4	1737758912	1-Apr-23	31-Aug-26	1	$ -	$ 752	$ 863	$ 992	$ 478	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX2110Y1G4	5097357153	1-Apr-23	31-Aug-26	1	$ -	$ 752	$ 863	$ 992	$ 478	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX2110Y1EB	5097357156	1-Apr-23	31-Aug-26	1	$ -	$ 752	$ 863	$ 992	$ 478	
ASA5525-K9	^ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX184710YC	1608181868	1-Apr-23	30-Sep-25	1	$ -	$ 1,282	$ 1,470	$ 848	$ -	
ASA5525-K9	^ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX184710YA	1608182008	1-Apr-23	30-Sep-25	1	$ -	$ 1,282	$ 1,470	$ 848	$ -	
ASA5525-K9	^ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0F6	5339340015	1-Apr-23	30-Sep-25	1	$ -	$ 1,282	$ 1,470	$ 848	$ -	
ASA5525-K9	^ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0FA	5339340016	1-Apr-23	30-Sep-25	1	$ -	$ 1,282	$ 1,470	$ 848	$ -	
ASA5525-K9	^ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0F8	5339340017	1-Apr-23	30-Sep-25	1	$ -	$ 1,282	$ 1,470	$ 848	$ -	
ASA5545-FPWR-K9	^ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX1949106P	1741255759	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
ASA5545-FPWR-K9	^ASA 5545-X w ith FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firew all	FTX1949106R	1741255760	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	
ASA5545-FPWR-K9	^ASA 5545-X w ith FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firew all	FTX1949106T	1741255761	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	
ASA5545-FPWR-K9	^ASA 5545-X w ith FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firew all	FTX1949106V	1741255762	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	
ASA5545-FPWR-K9	^ASA 5545-X w ith FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firew all	FTX2210W0HP	5210896337	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	
ASA5545-FPWR-K9	^ASA 5545-X w ith FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firew all	FTX2210W0HM	5210896338	1-Apr-23	30-Sep-25	1	$ -	$ 2,654	$ 3,044	$ 1,755	$ -	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS1902Q46H	1638180744	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS1902Q46M	1644968470	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2020Q62L	5063131279	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2035Q1J3	5080117629	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2035Q1K9	5080117640	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2035Q1CJ	5080117646	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2038Q04D	5080117653	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2042Q4A3	5080637300	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001-X	Cisco ASR1001-X Chassis, 6 built-in GE, Dual P/S, 8GB DRAM	Router	FXS2217Q08F	5249933721	1-Apr-23	31-Mar-27	1	$ -	$ 1,348	$ 1,546	$ 1,778	$ 2,044	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1949Q0HE	1809127748	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1952Q1SV	1809127833	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1952Q1VX	1809127908	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1952Q40E	1809127980	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1944Q0BZ	1812888648	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1944Q0XM	1812888832	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1948Q012	1812888987	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1001X-2.5G-K9	ASR1001-X, 2.5G Base Bundle, K9, AES, Built-in 6x1G	Router	FXS1948Q056	1812889131	1-Apr-23	31-Mar-27	1	$ -	$ 1,230	$ 1,411	$ 1,623	$ 1,866	
ASR1002-HX	Cisco ASR1002-HX System,4x10GE+4x1GE, 2xP/S, optional crypto	Router	FXS2148Q2M4	5191379793	1-Apr-23	31-Mar-27	1	$ -	$ 9,747	$ 11,179	$ 12,856	$ 14,784	
ASR1002-HX	Cisco ASR1002-HX System,4x10GE+4x1GE, 2xP/S, optional crypto	Router	FXS2149Q360	5191379806	1-Apr-23	31-Mar-27	1	$ -	$ 9,747	$ 11,179	$ 12,856	$ 14,784	
ASR1002-HX	Cisco ASR1002-HX System,4x10GE+4x1GE, 2xP/S, optional crypto	Router	FXS2149Q363	5191379808	1-Apr-23	31-Mar-27	1	$ -	$ 9,747	$ 11,179	$ 12,856	$ 14,784	
ASR1002-HX	Cisco ASR1002-HX System,4x10GE+4x1GE, 2xP/S, optional crypto	Router	FXS2148Q2N2	5191379812	1-Apr-23	31-Mar-27	1	$ -	$ 9,747	$ 11,179	$ 12,856	$ 14,784	
ASR1002-X	Cisco ASR1002-X Chassis, 6 built-in GE, Dual P/S, 4GB DRAM	Router	FOX2028GEZC	5066269475	1-Apr-23	31-Mar-27	1	$ -	$ 2,786	$ 3,195	$ 3,675	$ 4,226	
C1-AIR-CT8540-K9	Cisco ONE - Cisco 8540 Wireless LAN Controller w ith 0AP Lics	Wireless Controller	FCH1925V2HD	1698116177	1-Apr-23	31-Jan-27	1	$ -	$ 5,736	$ 6,579	$ 7,566	$ 7,294	
C1-AIR-CT8540-K9	Cisco ONE - Cisco 8540 Wireless LAN Controller w ith 0AP Lics	Wireless Controller	FCH1925V2HF	1699057336	1-Apr-23	31-Jan-27	1	$ -	$ 5,736	$ 6,579	$ 7,566	$ 7,294	
C1-AIR-CT8540-K9	Cisco ONE - Cisco 8540 Wireless LAN Controller w ith 0AP Lics	Wireless Controller	FCH2031V0PT	1851603705	1-Apr-23	31-Jan-27	1	$ -	$ 5,736	$ 6,579	$ 7,566	$ 7,294	
C1-AIR-CT8540-K9	Cisco ONE - Cisco 8540 Wireless LAN Controller w ith 0AP Lics	Wireless Controller	FCH2031V0R5	1851603897	1-Apr-23	31-Jan-27	1	$ -	$ 5,736	$ 6,579	$ 7,566	$ 7,294	
C1-CISCO4351/K9	Cisco ONE ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2147V0G6	5179303199	1-Apr-23	31-Mar-27	1	$ -	$ 1,084	$ 1,243	$ 1,429	$ 1,644	
C1-CISCO4351/K9	Cisco ONE ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2147V0G5	5179303212	1-Apr-23	31-Mar-27	1	$ -	$ 1,084	$ 1,243	$ 1,429	$ 1,644	
C1-CISCO4351/K9	Cisco ONE ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2147V0G4	5179303217	1-Apr-23	31-Mar-27	1	$ -	$ 1,084	$ 1,243	$ 1,429	$ 1,644	
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2152D065	5189180061	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2152D066	5189180075	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2152D062	5189180080	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2152D063	5189180087	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
C1-CISCO4431/K9	Cisco ONE ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2152D064	5189180091	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FJC2146D0U5	5178054187	1-Apr-23	31-Mar-27	1	$ -	$ 2,840	$ 3,257	$ 3,745	$ 4,307	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FJC2146D0U2	5178054197	1-Apr-23	31-Mar-27	1	$ -	$ 2,840	$ 3,257	$ 3,745	$ 4,307	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FJC2146D0U4	5178054202	1-Apr-23	31-Mar-27	1	$ -	$ 2,840	$ 3,257	$ 3,745	$ 4,307	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FJC2146D0U6	5178054206	1-Apr-23	31-Mar-27	1	$ -	$ 2,840	$ 3,257	$ 3,745	$ 4,307	
C921-4P	Cisco 900 Series Integrated Services Routers	Branch Router	PSZ24441DF9	5524649518	1-Apr-23	31-Mar-27	1	$ -	$ 76	$ 87	$ 100	$ 115	
C9404R	Cisco Catalyst 9400 Series 4 slot chassis	Core Sw itch	FXS2429Q0S2	5563437428	15-Apr-24	31-Mar-27	1	$ -	$ -	$ 2,181	$ 2,608	$ 2,999	
C9404R	Cisco Catalyst 9400 Series 4 slot chassis	Core Sw itch	FXS2429Q0TH	5563437437	15-Apr-24	31-Mar-27	1	$ -	$ -	$ 2,181	$ 2,608	$ 2,999	
C9404R	Cisco Catalyst 9400 Series 4 slot chassis	Core Sw itch	FXS2429Q0VL	5563437971	15-Apr-24	31-Mar-27	1	$ -	$ -	$ 2,181	$ 2,608	$ 2,999	
C9404R	Cisco Catalyst 9400 Series 4 slot chassis	Core Sw itch	FXS2429Q0WB	5563437978	15-Apr-24	31-Mar-27	1	$ -	$ -	$ 2,181	$ 2,608	$ 2,999	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2250Q62J	5334983996	5-Apr-22	31-Mar-27	1	$ 1,168	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2247Q1VQ	5334983997	5-Apr-22	31-Mar-27	1	$ 1,168	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2250Q651	5334983998	5-Apr-22	31-Mar-27	1	$ 1,168	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2250Q62T	5334983999	5-Apr-22	31-Mar-27	1	$ 1,168	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2318Q08F	5403730321	1-Apr-23	31-Mar-27	1	$ 3	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2325Q0MA	5421660639	1-Apr-23	31-Mar-27	1	$ 4	$ 1,234	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2426Q1R2	5503444399	18-Sep-23	31-Mar-27	1	$ -	$ 729	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2426Q1R8	5503444421	18-Sep-23	31-Mar-27	1	$ -	$ 729	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2426Q1G1	5507397182	2-Oct-23	31-Mar-27	1	$ -	$ 677	$ 1,415	$ 1,627	$ 1,871	
C9404R-48U-BNDL-A	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC	Core Sw itch	FXS2416Q21Q	5507397224	2-Oct-23	31-Mar-27	1	$ -	$ 677	$ 1,415	$ 1,627	$ 1,871	
C9407R	Cisco Catalyst 9400 Series 7 slot chassis	Core Sw itch	FXS2447Q1UF	5545270079	6-Feb-24	31-Mar-27	1	$ -	$ 567	$ 3,915	$ 4,502	$ 5,178	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
C9407R	Cisco Catalyst 9400 Series 7 slot chassis	Core Switch	FXS2447Q2MV	5545270090	6-Feb-24	31-Mar-27	1	$ -	$ 567	$ 3,915	$ 4,502	$ 5,178	
CLK-7600=	^Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)	Router	NWG1151029F	5079971595	1-Apr-23	31-Oct-25	1	$ -	$ 53	$ 60	$ 41	$ -	
CLK-7600=	^Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)	Router	NWG133701TY	5079971596	1-Apr-23	31-Oct-25	1	$ -	$ 53	$ 60	$ 41	$ -	
CLK-7600=	^Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)	Router	SMT0919B293	5079971603	1-Apr-23	31-Oct-25	1	$ -	$ 53	$ 60	$ 41	$ -	
CTI-CMS-1000-K9	^Cisco Meeting Server 1000	Cisco Meeting Server	FCH2143V20E	5176528841	1-Apr-23	29-Feb-24	1	$ -	$ 352	$ -	$ -	$ -	
CTI-CMS-1000-K9	^Cisco Meeting Server 1000	Cisco Meeting Server	FCH1935V2PM	5610857772	1-Apr-23	29-Feb-24	1	$ -	$ 352	$ -	$ -	$ -	
CTI-CMS-1000-K9	^Cisco Meeting Server 1000	Cisco Meeting Server	FCH1932V1P9	5611905623	1-Apr-23	29-Feb-24	1	$ -	$ 352	$ -	$ -	$ -	
EPA-10X10GE	ASR1000 10X10GE Ethernet Port Adapter	SFP	JAE215000D9	5191379853	1-Apr-23	31-Mar-27	1	$ -	$ 3,619	$ 4,150	$ 4,773	$ 5,488	
EPA-10X10GE	ASR1000 10X10GE Ethernet Port Adapter	SFP	JAE215000DC	5191379878	1-Apr-23	31-Mar-27	1	$ -	$ 3,619	$ 4,150	$ 4,773	$ 5,488	
EPA-10X10GE	ASR1000 10X10GE Ethernet Port Adapter	SFP	JAE215000CP	5191379864	1-Apr-23	31-Mar-27	1	$ -	$ 3,619	$ 4,150	$ 4,773	$ 5,488	
EPA-10X10GE	ASR1000 10X10GE Ethernet Port Adapter	SFP	JAE215000DK	5191379872	1-Apr-23	31-Mar-27	1	$ -	$ 3,619	$ 4,150	$ 4,773	$ 5,488	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CQ9	1207273968	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CP6	1207273979	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CNN	1207273989	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CQ1	1207274020	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CMK	1207274039	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CNF	1207274048	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CP8	1207274058	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CP7	1207274070	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045B	1207274078	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165202QQ	1207274092	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CDT	1207274107	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CCB	1207274123	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CDR	1207274132	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520442	1207274143	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203X7	1207274153	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EHD	1207274166	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EKC	1207274177	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EKF	1207274185	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EKP	1207274216	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EHG	1207274225	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165202QA	1207274236	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165202Q6	1207274249	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FJ	1207274260	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FH	1207274270	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FW	1207274284	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FR	1207274294	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206G4	1207274305	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215UX	1207274314	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215V4	1207274323	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VP	1207274334	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076T	1207274597	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652074T	1207274609	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652074N	1207274617	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652075F	1207274624	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520759	1207274635	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076Q	1207274644	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076X	1207274652	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071P	1207274667	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652072Q	1207274677	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652043Z	1207274686	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652044H	1207274695	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520445	1207274703	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652072T	1207274712	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071L	1207274720	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520721	1207274729	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071F	1207274738	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071Z	1207274752	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CC9	1207274782	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
FET-10G	10G Line Extender for FEX	SFP	FNS16521CC7	1207274790	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520724	1207274802	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047X	1207274810	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047Z	1207274825	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048Q	1207274834	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047U	1207274844	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047R	1207274852	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652046N	1207274860	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045R	1207274868	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652044W	1207274877	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045M	1207274888	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048S	1207274893	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CCE	1207274901	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CDW	1207274910	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CC8	1207274986	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CCK	1207274995	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CCN	1207275006	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652044S	1207275010	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045G	1207275021	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045D	1207275029	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203NR	1207282949	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203KC	1207282961	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203JN	1207282973	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203KK	1207282985	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203LM	1207282992	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652072K	1207283007	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652073H	1207283017	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652072C	1207283027	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206Y2	1207283061	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520719	1207283072	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FQ	1207283083	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206FS	1207283094	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203KW	1207283105	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CQ5	1207283111	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CQF	1207283125	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CGU	1207283135	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CPX	1207283145	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215V5	1207283153	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VG	1207283162	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CPF	1207283175	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CPB	1207283187	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048N	1207283194	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048K	1207283209	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047K	1207283243	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652047F	1207283252	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045Y	1207283262	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CPU	1207283271	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652045U	1207283281	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520770	1207283409	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652074V	1207283439	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520757	1207283447	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS170108FU	1207283460	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS170108FG	1207283467	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652077L	1207283479	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652077F	1207283490	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652075Z	1207283500	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165207B0	1207283513	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071Q	1207283619	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071U	1207283629	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071X	1207283639	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652071D	1207283648	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
FET-10G	10G Line Extender for FEX	SFP	FNS1652071J	1207283656	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076W	1207283666	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652075H	1207283675	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076G	1207283683	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048H	1207283692	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520488	1207283701	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652048C	1207283710	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520690	1207283720	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652067U	1207283729	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521FY7	1207283737	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521FY0	1207283746	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521FXZ	1207283754	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521FXY	1207283763	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS170108FF	1207283778	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS170108FA	1207283787	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520726	1207283820	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VS	1207283826	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215V6	1207283837	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VD	1207283845	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VR	1207283853	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165215VM	1207283868	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520486	1207283877	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520457	1207283888	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520453	1207283897	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652044N	1207283904	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520450	1207283912	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203NH	1207284147	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203N5	1207284154	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203K6	1207284161	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CEC	1207284169	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CC6	1207284178	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CEF	1207284184	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CEG	1207284191	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521FXW	1207284348	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521CDK	1207284356	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BZK	1207284393	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BYS	1207284401	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BJ4	1207284408	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BJ7	1207284434	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076L	1207284518	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520774	1207284530	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652076N	1207284558	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520775	1207284565	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520709	1207284576	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165216Z8	1207284587	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165216Z9	1207284595	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165216YV	1207284604	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165216Z3	1207284613	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165216Z5	1207284621	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520738	1207284632	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520732	1207284641	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203XM	1207284648	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520734	1207284656	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652073Q	1207284662	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS1652073U	1207284667	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165126BX	1207284696	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165126BS	1207284704	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165127N9	1207284712	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165126UK	1207284718	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165127LC	1207284731	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
FET-10G	10G Line Extender for FEX	SFP	FNS165203US	1207284739	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16520425	1207284747	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203YM	1207284760	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203X2	1207284769	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BYE	1207284776	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BZC	1207284785	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BXU	1207284795	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BHQ	1207284809	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BHR	1207284822	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521BHU	1207284830	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521E9E	1207284857	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521EA5	1207284867	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521D5G	1207284873	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521D4V	1207284880	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS16521D8A	1207284887	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203PD	1207284893	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203N9	1207284899	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203ND	1207284907	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165203P1	1207284912	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165201JK	1207284921	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165206H8	1207284925	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165201KA	1207284931	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FET-10G	10G Line Extender for FEX	SFP	FNS165201JZ	1207284938	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
FPR2130-ASA-K9	Cisco Firepow er 2130 ASA Appliance, 1U, 1 x NetMod Bay	Firew all	JMX2335Z0E8	5386616372	1-Apr-23	31-Mar-27	1	$ -	$ 2,507	$ 2,875	$ 3,306	$ 3,802	
FPR2130-ASA-K9	Cisco Firepow er 2130 ASA Appliance, 1U, 1 x NetMod Bay	Firew all	JMX2335Z0E7	5386616401	1-Apr-23	31-Mar-27	1	$ -	$ 2,507	$ 2,875	$ 3,306	$ 3,802	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2122V0NS	5122174435	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2122V1TY	5123354019	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10D	5270925716	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W109	5270925777	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10F	5270925798	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10G	5270925826	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10L	5270925855	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10A	5270925877	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10C	5270925904	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10N	5270925918	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10B	5270925936	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2235W10M	5270925946	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2021W0MH	5313567951	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14J	5343103492	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14N	5343103501	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14H	5343103505	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14F	5343103510	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14P	5343103513	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14K	5343103516	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14E	5343103519	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14M	5343103522	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14G	5343103525	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V14L	5343103527	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2040W0V7	5503512168	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM250610LD	5546145278	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM250610LA	5546145289	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM250610LB	5546145295	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321/K9	Cisco ISR 4321 (2GE,2NIM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM250610LC	5546145304	1-Apr-23	31-Mar-27	1	$ -	$ 368	$ 422	$ 485	$ 558	
ISR4321-SEC/K9	Cisco ISR 4321 Sec bundle w /SEC license	Branch Router	FLM240410UN	5437708819	1-Apr-23	28-Feb-27	1	$ -	$ 425	$ 487	$ 560	$ 590	
ISR4321-SEC/K9	Cisco ISR 4321 Sec bundle w /SEC license	Branch Router	FLM240410U7	5437708855	1-Apr-23	28-Feb-27	1	$ -	$ 425	$ 487	$ 560	$ 590	
ISR4321-SEC/K9	Cisco ISR 4321 Sec bundle w /SEC license	Branch Router	FLM240410UF	5437708997	1-Apr-23	28-Feb-27	1	$ -	$ 425	$ 487	$ 560	$ 590	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V13Y	5250691780	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V13Z	5250691781	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V141	5250691783	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V140	5250691784	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V142	5250691785	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V143	5250691787	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V13X	5250691788	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V13W	5250691789	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V13V	5250691790	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2228V144	5250691791	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V1GC	5340410760	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V1GA	5340410777	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V1GD	5340410782	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V1GB	5340410787	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331/K9	Cisco ISR 4331 (3GE,2NIM,1SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2315V1G9	5340410792	1-Apr-23	31-Mar-27	1	$ -	$ 537	$ 615	$ 708	$ 814	
ISR4331-V/K9	Cisco ISR 4331 UC Bundle, PVDM4-32, UC License	Branch Router	FLM2221V1C3	5234564529	1-Apr-23	31-Mar-27	1	$ -	$ 585	$ 671	$ 771	$ 887	
ISR4331-V/K9	Cisco ISR 4331 UC Bundle, PVDM4-32, UC License	Branch Router	FLM2221V1C2	5234564532	1-Apr-23	31-Mar-27	1	$ -	$ 585	$ 671	$ 771	$ 887	
ISR4331-V/K9	Cisco ISR 4331 UC Bundle, PVDM4-32, UC License	Branch Router	FLM2221V1C0	5234564534	1-Apr-23	31-Mar-27	1	$ -	$ 585	$ 671	$ 771	$ 887	
ISR4331-V/K9	Cisco ISR 4331 UC Bundle, PVDM4-32, UC License	Branch Router	FLM2221V1C1	5234564535	1-Apr-23	31-Mar-27	1	$ -	$ 585	$ 671	$ 771	$ 887	
ISR4331-V/K9	Cisco ISR 4331 UC Bundle, PVDM4-32, UC License	Branch Router	FLM2221V1BZ	5234564536	1-Apr-23	31-Mar-27	1	$ -	$ 585	$ 671	$ 771	$ 887	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2316V18Q	5341665060	1-Apr-23	31-Mar-27	1	$ -	$ 1,198	$ 1,373	$ 1,579	$ 1,816	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2316V18S	5341665077	1-Apr-23	31-Mar-27	1	$ -	$ 1,198	$ 1,373	$ 1,579	$ 1,816	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2316V18P	5341665088	1-Apr-23	31-Mar-27	1	$ -	$ 1,198	$ 1,373	$ 1,579	$ 1,816	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2316V18R	5341665096	1-Apr-23	31-Mar-27	1	$ -	$ 1,198	$ 1,373	$ 1,579	$ 1,816	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2316V18N	5341665106	1-Apr-23	31-Mar-27	1	$ -	$ 1,198	$ 1,373	$ 1,579	$ 1,816	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM242510F8	5475245938	20-Jun-23	31-Mar-27	1	$ -	$ 1,033	$ 1,516	$ 1,743	$ 2,005	
ISR4351/K9	Cisco ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM242510F6	5475245949	20-Jun-23	31-Mar-27	1	$ -	$ 1,033	$ 1,516	$ 1,743	$ 2,005	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2124D0WT	5127729609	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2243A0KV	5284118902	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2315A0RR	5339745233	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2315A0RS	5339745239	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2315A0RV	5339745243	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2315A0RT	5339745246	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2315A126	5339745249	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0UC	5389930710	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0UE	5389930714	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0UD	5389930716	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0UA	5389930717	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0U9	5389930719	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2335A0UB	5389930721	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2344A022	5407497988	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2344A024	5407498016	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2344A026	5407498022	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2344A021	5407498030	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2344A020	5407498042	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2425D107	5477058721	26-Jun-23	31-Mar-27	1	$ -	$ 1,195	$ 1,790	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2425D104	5477058789	26-Jun-23	31-Mar-27	1	$ -	$ 1,195	$ 1,790	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2425D108	5477058814	26-Jun-23	31-Mar-27	1	$ -	$ 1,195	$ 1,790	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2425D106	5477058836	26-Jun-23	31-Mar-27	1	$ -	$ 1,195	$ 1,790	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC2425D105	5477058841	26-Jun-23	31-Mar-27	1	$ -	$ 1,195	$ 1,790	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC25031ZKC	5541001889	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9	Cisco ISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB)	Branch Router	FJC25031ZKJ	5541001896	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
ISR4431/K9-RF	CiscoISR 4431 (4GE,3NIM,8G FLASH,4G DRAM,IPB) REMANUFACTURED	Branch Router	FJC2103D11S	5155020971	1-Apr-23	31-Mar-27	1	$ -	$ 1,414	$ 1,622	$ 1,865	$ 2,145	
M-ASR1002HX-32GB	Cisco ASR1002-HX 32GB DRAM	Router		5191380092	1-Apr-23	31-Mar-27	1	$ -	$ 1,593	$ 1,827	$ 2,100	$ 2,415	
M-ASR1002HX-32GB	Cisco ASR1002-HX 32GB DRAM	Router		5191380095	1-Apr-23	31-Mar-27	1	$ -	$ 1,593	$ 1,827	$ 2,100	$ 2,415	
M-ASR1002HX-32GB	Cisco ASR1002-HX 32GB DRAM	Router		5191380097	1-Apr-23	31-Mar-27	1	$ -	$ 1,593	$ 1,827	$ 2,100	$ 2,415	
M-ASR1002HX-32GB	Cisco ASR1002-HX 32GB DRAM	Router		5191380101	1-Apr-23	31-Mar-27	1	$ -	$ 1,593	$ 1,827	$ 2,100	$ 2,415	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P2K7	5067176038	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P2NU	5067176039	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P2PE	5067176040	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P2V0	5067176041	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P3Z2	5067176042	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P3ZG	5067176043	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P421	5067176044	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P422	5067176045	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P423	5067176046	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1649P42P	5067176047	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P05L	5067176048	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P05M	5067176049	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P05N	5067176050	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P05P	5067176051	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1XG	5067176052	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1YH	5067176053	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1YK	5067176054	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1Z6	5067176055	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1Z7	5067176056	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P1ZA	5067176057	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P31E	5067176058	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P31F	5067176059	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P350	5067176060	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P351	5067176061	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P352	5067176062	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	DTN1751P35N	5067176063	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	LIT15451K15	5067176201	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2200-PAC-400W=	Nexus 400W AC Power Supply, Port side exhaust, Spare	Switch for Servers (Nexus 2k)	LIT15451K3H	5067176202	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2348TQ-FA-BUN	^Standard airflow pack: N2K-C2348TQ, 2AC PS, 3 Fan	Switch for Servers (Nexus 2k)	FOC2048R1A5	5073937032	1-Apr-23	30-Sep-25	1	$ -	$ 481	$ 551	$ 318	$ -	
N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS, 3Fan	Switch for Servers (Nexus 2k)	FOC2053R0EG	5080664050	1-Apr-23	31-Mar-27	1	$ -	$ 348	$ 399	$ 459	$ 527	
N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS, 3Fan	Switch for Servers (Nexus 2k)	FOC2142R0B0	5176468215	1-Apr-23	31-Mar-27	1	$ -	$ 348	$ 399	$ 459	$ 527	
N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS, 3Fan	Switch for Servers (Nexus 2k)	FOC2142R00P	5176468204	1-Apr-23	31-Mar-27	1	$ -	$ 348	$ 399	$ 459	$ 527	
N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS, 3Fan	Switch for Servers (Nexus 2k)	FOC2151R06B	5197555655	1-Apr-23	31-Mar-27	1	$ -	$ 348	$ 399	$ 459	$ 527	
N2348UPQ-FA-BUN	Port Side Exhaust, airflow pack: N2K-C2348UPQ, 2AC PS, 3Fan	Switch for Servers (Nexus 2k)	FOC2151R19T	5197555672	1-Apr-23	31-Mar-27	1	$ -	$ 348	$ 399	$ 459	$ 527	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750GNV9	1509448403	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1749GQ5Y	1509448394	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750G3UR	1509448385	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750G4UP	1509448373	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1749GQ64	1509453243	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750G3US	1509452988	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750G3FZ	1509452980	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2248TPE-FA-B	Standard Airflow pack:N2K-C2248TP-E-1GE, 2 AC PS, 1Fan	Switch for Servers (Nexus 2k)	FOX1750GNW5	1509453229	1-Apr-23	31-Mar-27	1	$ -	$ 259	$ 297	$ 341	$ 392	
N2K-C2348TQ	^Nexus 2000, 10GT FEX; 48x1/10T; 6x40G QSFP	Switch for Servers (Nexus 2k)		5073937004	1-Apr-23	30-Sep-25	1	$ -	$ -	$ -	$ -	$ -	
N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	Switch for Servers (Nexus 2k)		5080664009	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	Switch for Servers (Nexus 2k)		5176467649	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	Switch for Servers (Nexus 2k)		5176467680	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	Switch for Servers (Nexus 2k)		5197555475	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N2K-C2348UPQ	Nexus 2000, 10GE UP FEX; 48x1/10GE SFP+ ; 6x40G QSFP	Switch for Servers (Nexus 2k)		5197555480	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548-ACC-KIT	^Nexus 5548 Chassis Accessory Kit	Nexus 5k Data Center Switch		1207297276	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548-ACC-KIT	^Nexus 5548 Chassis Accessory Kit	Nexus 5k Data Center Switch		1207307419	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548-ACC-KIT	^Nexus 5548 Chassis Accessory Kit	Nexus 5k Data Center Switch		1207307422	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548-ACC-KIT	^Nexus 5548 Chassis Accessory Kit	Nexus 5k Data Center Switch		1207307428	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI164904XT	1207275038	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI164905Q6	1207275044	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI16490A0W	1207283290	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI16490CDH	1207283299	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI1649056Z	1207284364	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI164905E4	1207284375	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI164904XJ	1207284944	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN	^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	SSI16490CC8	1207284951	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548P-FAN=	^^Nexus 5548P Fan Module	Nexus 5k Data Center Switch	FOX2038GAC7	1852373387	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5548UP-4N2248TF	^Nexus 5548UP/4xN2248TP/32xFET	Nexus 5k Data Center Switch		1509412532	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UP-4N2248TF	^Nexus 5548UP/4xN2248TP/32xFET	Nexus 5k Data Center Switch		1509414164	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UP-4N2248TF	^Nexus 5548UP/4xN2248TP/32xFET	Nexus 5k Data Center Switch		1512601660	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UP-4N2248TF	^Nexus 5548UP/4xN2248TP/32xFET	Nexus 5k Data Center Switch		1512601661	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UPM-6N2248TF	^Nexus 5548UP/Expansion Module/6xN2248TP/48xFET	Nexus 5k Data Center Switch		1260329863	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UPM-6N2248TF	^Nexus 5548UP/Expansion Module/6xN2248TP/48xFET	Nexus 5k Data Center Switch		1260329864	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UPM-6N2248TF	^Nexus 5548UP/Expansion Module/6xN2248TP/48xFET	Nexus 5k Data Center Switch		1260329865	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N5548UPM-6N2248TF	^Nexus 5548UP/Expansion Module/6xN2248TP/48xFET	Nexus 5k Data Center Switch		1260329866	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N55-DL2	^Nexus 5548 Layer 2 Daughter Card	Nexus 5k Data Center Switch	FOC170279EM	1207275053	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-DL2	^Nexus 5548 Layer 2 Daughter Card	Nexus 5k Data Center Switch	FOC17027985	1207283305	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
N55-DL2	^Nexus 5548 Layer 2 Daughter Card	Nexus 5k Data Center Switch	FOC170279GX	1207284383	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-DL2	^Nexus 5548 Layer 2 Daughter Card	Nexus 5k Data Center Switch	FOC170279FE	1207284976	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-M16UP-B	^Nexus 5500 Series Module 16p Unified	Nexus 5k Data Center Switch	FOC16515UXS	1207273888	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-M16UP-B	^Nexus 5500 Series Module 16p Unified	Nexus 5k Data Center Switch	FOC17012J05	1207283353	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-M16UP-B	^Nexus 5500 Series Module 16p Unified	Nexus 5k Data Center Switch	FOC164739HD	1207284467	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-M16UP-B	^Nexus 5500 Series Module 16p Unified	Nexus 5k Data Center Switch	FOC16487KTX	1207284802	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	POG16437XKD	1207273854	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	POG16437XG2	1207273867	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	ART163610YN	1207283316	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	ART165110R2	1207283334	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	POG16437WDM	1207284443	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	POG16437WSC	1207284451	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W	^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	ART2106F6ZD	5235820549	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N55-PAC-750W=	^^Nexus 5500 PS, 750W, Front to Back Airflow	Nexus 5k Data Center Switch	ART1708107Y	1773109128	1-Apr-23	31-May-24	1	$ -	$ -	$ -	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI164902E1	1207273879	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI164902E0	1207283345	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI164902EL	1207284460	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI16450AM2	1207284996	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI17450915	1509448192	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-BUN	^^Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI1746027V	1509452972	1-Apr-23	31-May-24	1	$ -	$ 1,689	$ 324	$ -	$ -	
N5K-C5548UP-FA	^^^Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	Nexus 5k Data Center Switch	SSI203604D6	5099677812	1-Apr-23	31-May-24	1	$ -	$ 2,009	$ 386	$ -	$ -	
N5K-C5548UP-FA	^^^Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	Nexus 5k Data Center Switch	SSI203604D7	5099677823	1-Apr-23	31-May-24	1	$ -	$ 2,009	$ 386	$ -	$ -	
N7K-C7004	4 Slot Chassis, No Power Supply, Includes Fans	Nexus 7k Data Center Switch	JPG193300MN	1738780895	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7004	4 Slot Chassis, No Power Supply, Includes Fans	Nexus 7k Data Center Switch	JPG193300MA	1738781556	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7004-FAN=	Nexus 7000 - 4 Slot Fan	Nexus 7k Data Center Switch	JAF1744AQKB	5067176196	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7004-FAN=	Nexus 7000 - 4 Slot Fan	Nexus 7k Data Center Switch	JAF1744AQKC	5067176197	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7004-FAN=	Nexus 7000 - 4 Slot Fan	Nexus 7k Data Center Switch	JAF1744AQLN	5067176198	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7004-FAN=	Nexus 7000 - 4 Slot Fan	Nexus 7k Data Center Switch	JAF1651APBF	5480507866	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7004-S2-R	Nexus 7004 Bundle (Chassis,2xSUP2),No Power Supplies	Nexus 7k Data Center Switch	JAF1745AJAF	1510510810	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7004-S2-R	Nexus 7004 Bundle (Chassis,2xSUP2),No Power Supplies	Nexus 7k Data Center Switch	JAF1721ACSF	1510522841	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7004-S2-R	Nexus 7004 Bundle (Chassis,2xSUP2),No Power Supplies	Nexus 7k Data Center Switch	JAF1745AJAB	1510523293	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7004-S2-R	Nexus 7004 Bundle (Chassis,2xSUP2),No Power Supplies	Nexus 7k Data Center Switch	JAF1745AJAA	1510523688	1-Apr-23	28-Feb-27	1	$ -	$ 9,243	$ 10,600	$ 12,190	$ 12,828	
N7K-C7009=	9 Slot Chassis, No Power Supply, Includes Fans	Nexus 7k Data Center Switch	JAF1730ALQA	1462640629	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-B2S2E-R	Nexus7009 Bundle(Chassis,2xSUP2E,5xFAB2),No Power Supplies	Nexus 7k Data Center Switch	JAF1732BKTA	1564187725	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-B2S2E-R	Nexus7009 Bundle(Chassis,2xSUP2E,5xFAB2),No Power Supplies	Nexus 7k Data Center Switch	JAF1733ARES	1564188047	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-B2S2-R	Nexus 7009 Bundle (Chassis,2xSUP2,5xFAB2),No Power Supplies	Nexus 7k Data Center Switch	JAF1649BBSA	1208492137	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-B2S2-R	Nexus 7009 Bundle (Chassis,2xSUP2,5xFAB2),No Power Supplies	Nexus 7k Data Center Switch	JAF1649BBQB	1208492348	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-B2S2-R	Nexus 7009 Bundle (Chassis,2xSUP2,5xFAB2),No Power Supplies	Nexus 7k Data Center Switch	JAF1650AARQ	1208492511	1-Apr-23	28-Feb-27	1	$ -	$ 14,136	$ 16,212	$ 18,643	$ 19,619	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1634ADTA	1056815734	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1649ACSC	5067176190	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1649ADAA	5067176191	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1649ADDL	5067176192	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1729ARRF	5067176194	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1612BDTC	5159845578	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-C7009-FAN=	Nexus 7000 - 9 Slot Fan	Nexus 7k Data Center Switch	JAF1743AMND	5168426122	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F248XP-25E=	^Nexus 7000 F2-Series 48 Port 1/10G (SFP+) Enhanced	Nexus 7k Data Center Switch	JAF1827ASLD	1596762547	31-Oct-22		1	$ -	$ -	$ -	$ -	$ -	
N7K-F248XP-25E=	^Nexus 7000 F2-Series 48 Port 1/10G (SFP+) Enhanced	Nexus 7k Data Center Switch	JAF1816AKLS	1596762554	31-Oct-22		1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE20500B1D	5073564388	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE2045008G	5073564391	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE204006HA	5073564392	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE20500B0T	5073564394	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE2237051A	5277198896	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-F312FQ-25=	Nexus 7000 F3-Series 12 Port 40GbE (QSFP)	Nexus 7k Data Center Switch	JAE2237051T	5277198918	1-Apr-23	28-Feb-27	1	$ -	$ -	$ -	$ -	$ -	
N7K-USB-2GB=	Nexus 7K USB Flash Memory - 2GB (Expansion Flash)	Nexus 7k Data Center Switch		1226362228	1-Apr-23	28-Feb-27	8	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO2049175V	5077458156	1-Apr-23	31-Mar-27	1	$ -	$ 1,127	$ 1,293	$ 1,487	$ 1,710	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO204917AD	5077458159	1-Apr-23	31-Mar-27	1	$ -	$ 1,127	$ 1,293	$ 1,487	$ 1,710	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO21020J7A	5087068536	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO21020J4K	5087068563	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070KK3	5211670391	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070LCV	5211670395	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070TUQ	5211670398	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO2207030T	5211670402	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070M5Q	5211670406	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070KJW	5211670413	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070TT1	5211670409	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22070TY7	5211670415	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22141BHP	5226739311	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22142BJW	5226739303	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO221421L1	5226739308	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22141QCF	5226739314	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22283F5C	5261295992	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO222844A7	5261295989	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22270NCY	5261295995	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22284477	5261295997	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO222844BW	5261296000	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22282KSX	5261296005	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO222840U2	5261296002	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO222840U3	5261296007	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22371BKH	5288094781	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YC-EX-B	Nexus 93180YC-EX bundle PID	Nexus 9k Data Center Switch (end of row)	FDO22371ASQ	5288094794	1-Apr-23	31-Mar-27	1	$ -	$ 1,226	$ 1,405	$ 1,616	$ 1,859	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5087068417	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5211670367	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5211670372	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5211670373	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5211670375	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5226739282	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5226739287	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5261295975	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5261295977	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5261295979	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5261295980	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93180YCEXB18Q	2 Nexus 93180YC-EX with 8 QSFP-40G-SR-BD	Nexus 9k Data Center Switch (end of row)		5288094737	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
N9K-C93360YC-FX2	Nexus 9300 w / 96p 1/10/25G, 12p 100G, MACsec capable	Nexus 9k Data Center Switch (end of row)	FDO243205XU	5502904999	1-Apr-23	31-Mar-27	1	$ -	$ 1,719	$ 1,971	$ 2,267	$ 2,607	
N9K-C93360YC-FX2	Nexus 9300 w / 96p 1/10/25G, 12p 100G, MACsec capable	Nexus 9k Data Center Switch (end of row)	FDO243205XM	5502905025	1-Apr-23	31-Mar-27	1	$ -	$ 1,719	$ 1,971	$ 2,267	$ 2,607	
NIM-LTEA-EA=	CAT6 LTE Advanced NIM for Europe and North America	Cell LTE Module for ISR	FOC25082X05	5561871931	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164603G2	1223892244	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164901MF	1223892260	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648050M	1223892272	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648050R	1223892283	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1649014B	1223892289	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164603G4	1223892302	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1649014P	1223892313	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1649014A	1223892319	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648050L	1223892329	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648050K	1223892339	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648050N	1223892352	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164804S6	1223892362	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648051K	1223892375	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164901ME	1223892387	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164901MD	1223892398	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1649013Z	1223892409	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC164804S1	1223892418	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-SE-155-1510=	SFP - OC3/STM1 CWDM, 1510 nm, EXT	ONS	SPC1648051B	1223892428	1-Apr-23	31-Mar-27	1	$ -	$ 85	$ 98	$ 112	$ 129	
ONS-XC-10G-C=	XFP-10G MultiRate Full C Band Tuneable DWDM XFP, 50 Ghz, LC	ONS	FIW20260394	1824380763	1-Apr-23	31-Mar-27	1	$ -	$ 828	$ 949	$ 1,092	$ 1,255	
ONS-XC-10G-C=	XFP-10G MultiRate Full C Band Tuneable DWDM XFP, 50 Ghz, LC	ONS	FIW202605SK	1824380780	1-Apr-23	31-Mar-27	1	$ -	$ 828	$ 949	$ 1,092	$ 1,255	
ONS-XC-10G-EP43.7=	^10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G059	1734489344	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP43.7=	^10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G052	1734489357	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP43.7=	^10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G054	1734489365	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP43.7=	^10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G056	1734489377	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP49.3=	^10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G018	1727231188	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP49.3=	^10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G015	1727231208	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP49.3=	^10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G00K	1727231218	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP49.3=	^10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G00L	1727231227	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP51.7=	^10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT1639008X	1451976525	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP51.7=	^10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT16390074	1451976563	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP51.7=	^10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT1639007A	1451976578	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP51.7=	^10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	FLJ1641G00H	1451976591	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP52.5=	^10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163404X9	1451723050	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP52.5=	^10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163404XC	1451723060	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP52.5=	^10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163403XF	1451723065	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP52.5=	^10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163504FB	1451723071	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.1=	^10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00V	1084129357	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.1=	^10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00X	1226364090	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.1=	^10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00U	1226364116	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.1=	^10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G033	1226364178	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.9=	^10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1609G007	1084126008	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.9=	^10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1626G004	1226364181	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	

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Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
ONS-XC-10G-EP54.9=	^10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1625G04V	1226364184	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP54.9=	^10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1626G03H	1226364186	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP55.7=	^10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1604G00B	1226364156	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP55.7=	^10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1545G00Z	1226364189	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP55.7=	^10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1545G00U	1226364192	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP55.7=	^10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1550G042	1226364214	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP56.5=	^10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G022	1230522997	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP56.5=	^10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G002	1230523040	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP56.5=	^10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G00S	1230523057	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP56.5=	^10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G012	1230523064	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01A	1238145511	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G017	1238145535	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01E	1238145542	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01H	1238145549	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1617G01L	1238145578	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1617G01C	1238145585	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G019	1238188476	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.1=	^10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01F	1238188486	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G012	1226360013	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G04A	1226360054	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G004	1226360055	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1626G003	1226360056	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G002	1226360058	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G06J	1226360059	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1629G01R	1226360060	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP58.9=	^10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ2039G002	5247080551	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LS	1238187931	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT1647022N	1238187961	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LU	1238187974	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LP	1238187982	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02B	1238187993	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02M	1238188002	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G013	1238188011	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02Q	1238188464	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1951G00M	1822989257	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1951G01U	1822989261	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ2006G009	1822989264	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP59.7=	^10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ2006G00B	1822989267	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G00R	1223881716	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1647G026	1223881736	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G00R	1223881742	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G01K	1223881747	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G027	1223881752	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G029	1223881759	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G018	1223881764	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G01C	1223881770	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2012G00A	1822982253	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2013G00F	1822982261	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2014G00B	1822982267	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-EP60.6=	^10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2016G00D	1822982273	1-Apr-23	30-Sep-23	1	$ -	$ 233	$ -	$ -	$ -	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162200JY	1006512323	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC16220018	1006512335	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162108Z1	1006512562	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1622048U	1006512572	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1622065Z	1006512583	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162108M0	1006512589	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162200J0	1006512600	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162206DB	1006512603	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC162200J1	1006512606	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1622011R	1006512610	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164607QR	1215663106	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164606Q6	1215663129	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164601A9	1215663493	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC16450KRU	1215663500	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC16450KRQ	1215663506	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1646030T	1215663512	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164601F0	1215663520	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164601F9	1215663524	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1646030S	1215663528	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC1646030Q	1215663533	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC16450KRL	1215663539	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164608HV	1215663545	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC164608HN	1215663554	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC173103KR	1472496763	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC22250056	5285134508	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-S1=	XFP - OC192/STM64/10GE - 1310 SR - SM LC	ONS	SPC22250059	5285134550	1-Apr-23	31-Mar-27	1	$ -	$ 211	$ 241	$ 278	$ 319	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT194001UA	1727038766	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT194001UC	1727038795	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT194001TL	1727038810	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT194001TJ	1727038829	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT20170197	1823020518	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT202201DC	1823020528	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	ONT202201DD	1823020543	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
ONS-XC-10G-SR-MM=	XFP - 10GE/10G FC - 850 SR - MM LC	ONS	FNS15091AYV	712588930	1-Apr-23	31-Mar-27	1	$ -	$ 81	$ 93	$ 107	$ 123	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1809127803	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1809127881	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1809127952	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1809128024	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1812888795	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1812888959	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1812889103	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		1812889260	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		5191380081	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		5191380084	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		5191380086	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	ASR Router Advance Licensing		5191380088	1-Apr-23	31-Mar-27	1	$ -	$ 906	$ 1,038	$ 1,194	$ 1,373	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5063131320	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5066269522	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080117757	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080117773	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080117786	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080117807	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080117795	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5080637345	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
SLASR1-IPB	Cisco ASR 1000 IP BASE License	ASR Router Base Licensing		5249933731	1-Apr-23	31-Mar-27	1	$ -	$ 652	$ 748	$ 860	$ 989	
UCSC-C240-M5SX	UCS C240 M5 24 SFF + 2 rear drives w/o CPU,mem,HD,PCIe,PS	Server for Unified Communications	WZP22250D4B	5263813563	1-Apr-23	31-Mar-27	1	$ -	$ 386	$ 443	$ 509	$ 585	
UCSC-C240-M5SX	UCS C240 M5 24 SFF + 2 rear drives w/o CPU,mem,HD,PCIe,PS	Server for Unified Communications	WZP22250D48	5263813565	1-Apr-23	31-Mar-27	1	$ -	$ 386	$ 443	$ 509	$ 585	
UCS-FI-M-6324	UCS 6324 In-Chassis FI with 4 UP, 1x40G Exp Port, 16 10Gb	Server for Unified Communications	FCH1923J27X	1710938196	1-Apr-23	31-Mar-27	1	$ -	$ 285	$ 327	$ 376	$ 433	
UCS-FI-M-6324	UCS 6324 In-Chassis FI with 4 UP, 1x40G Exp Port, 16 10Gb	Server for Unified Communications	FCH19287W7C	1710938186	1-Apr-23	31-Mar-27	1	$ -	$ 285	$ 327	$ 376	$ 433	
UCS-SPL-MINI	^UCS SP Select 5108 AC2 Chassis w/FI6324, UCS Central license	Server for Unified Communications	FOX1925GZ6R	1710938036	1-Apr-23	31-Mar-27	1	$ -	$ 197	$ 226	$ 260	$ 299	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D027	5106343785	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02V	5106343790	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02C	5106343802	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02S	5106343806	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D023	5106343809	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02N	5106343820	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D025	5106343834	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02G	5106343844	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D02W	5106343864	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D039	5106343878	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gateway with PVDM3-64	Voice Gateway	FJC2115D03B	5106343886	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
VG310	Modular 24 FXS Port VoIP Gatew ay w ith PVDM3-64	Voice Gatew ay	FJC2115D02J	5106343892	23-Aug-22	31-Mar-27	1	$ 274	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gatew ay w ith PVDM3-64	Voice Gatew ay	FJC2417D1CS	5460292289	1-Apr-23	31-Mar-27	1	$ -	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gatew ay w ith PVDM3-64	Voice Gatew ay	FJC2417D1DL	5460292329	1-Apr-23	31-Mar-27	1	$ -	$ 521	$ 598	$ 687	$ 790	
VG310	Modular 24 FXS Port VoIP Gatew ay w ith PVDM3-64	Voice Gatew ay	FJC2417D1DK	5460292332	1-Apr-23	31-Mar-27	1	$ -	$ 521	$ 598	$ 687	$ 790	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2126D0B9	5131894528	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2127D0KL	5134381348	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D105	5142626657	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D10A	5142626661	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D102	5142626666	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D108	5142626671	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D106	5142626680	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D101	5142626686	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D107	5142626689	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2129D109	5142626694	23-Aug-22	31-Mar-27	1	$ 567	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S6	5504447989	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S2	5504448004	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S8	5504448012	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S7	5504448019	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0SA	5504448023	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S5	5504448031	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S4	5504448040	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S3	5504448052	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC2438D0S9	5504448063	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG320	Modular 48 FXS Port VoIP Gatew ay w ith PVDM3-128	Voice Gatew ay	FJC253215WA	5600011371	1-Apr-23	31-Mar-27	1	$ -	$ 1,080	$ 1,238	$ 1,424	$ 1,637	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MR	5151671144	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MU	5151671145	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MV	5151671146	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MT	5151671147	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MJ	5151671148	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MQ	5151671149	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MX	5151671150	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MP	5151671151	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0N0	5151671152	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MZ	5151671153	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0ML	5151671154	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NU	5151671155	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MM	5151671156	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NZ	5151671157	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NW	5151671158	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MK	5151671159	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MW	5151671160	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MS	5151671161	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0P0	5151671162	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0MN	5151671163	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NV	5151671164	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NY	5151671165	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NX	5151671166	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG350-144FXS/K9	^Cisco VG350 144 FXS Bundle	Voice Gatew ay	FJC2134D0NT	5151671167	23-Aug-22	29-Feb-24	1	$ 3,998	$ 2,770	$ -	$ -	$ -	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24101053	5442647351	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM2410104W	5442647431	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM2410104Y	5442647451	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24101055	5442647475	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24101051	5442647501	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM2410104U	5442647523	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24101052	5442647540	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24101054	5442647549	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM2410104R	5442647571	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM24451150	5519604048	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gatew ay	FLM2445114P	5519604055	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gateway	FLM2445114M	5519604060	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gateway	FLM24451142	5519604063	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gateway	FLM2445114H	5519604069	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gateway	FLM2445114E	5519604072	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
VG450-144FXS/K9	Cisco VG450 144 FXS Bundle	Voice Gateway	FLM2445114L	5519604075	1-Apr-23	31-Mar-27	1	$ -	$ 2,856	$ 3,275	$ 3,766	$ 4,331	
WS-C4500X-16SFP+	^Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	4500 Distribution Switch	JAE17430BYX	1479795159	1-Apr-23	31-Oct-25	1	$ -	$ 1,369	$ 1,570	$ 1,058	$ -	
WS-C4500X-16SFP+	^Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	4501 Distribution Switch	JAE1744088R	1479795228	1-Apr-23	31-Oct-25	1	$ -	$ 1,369	$ 1,570	$ 1,058	$ -	
WS-C4500X-24X-ES	^Catalyst 4500-X 24 Port 10G Ent. Services, Frt-to-Bk, No P/S	4502 Distribution Switch	JAE23041B11	5339723158	1-Apr-23	31-Oct-25	1	$ -	$ 3,095	$ 3,550	$ 2,393	$ -	
WS-C4500X-24X-ES	^Catalyst 4500-X 24 Port 10G Ent. Services, Frt-to-Bk, No P/S	4503 Distribution Switch	JAE22480JMB	5339723192	1-Apr-23	31-Oct-25	1	$ -	$ 3,095	$ 3,550	$ 2,393	$ -	
Cisco SMARTnet, 24x7x4 Parts & Remote Support													
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO21363529	5171013559	8-Nov-22	31-Mar-27	1	$ 681	$ 1,804	$ 2,068	$ 2,379	$ 2,735	
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO213632L1	5171013568	8-Nov-22	31-Mar-27	1	$ 681	$ 1,804	$ 2,068	$ 2,379	$ 2,735	
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO24130WKW	5456962245	5-Jun-25	31-Mar-27	1	$ -	$ -	$ -	$ 2,158	$ 3,019	
N9K-C93180YC-EX	Nexus 9300 with 48p 10/25G SFP+ and 6p 100G QSFP28	Nexus 9k Data Center Switch (end of row)	FDO24130F8E	5456962278	5-Jun-25	31-Mar-27	1	$ -	$ -	$ -	$ 2,158	$ 3,019	
UCSC-C220-M5SX	UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, PSU	Unified Communications Server	WZP23501CDJ	5446095999	27-Mar-25	31-Mar-27	1	$ -	$ -	$ 10	$ 756	$ 870	
UCSC-C220-M5SX	UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, PSU	Unified Communications Server	WZP23501CD5	5446096011	27-Mar-25	31-Mar-27	1	$ -	$ -	$ 10	$ 756	$ 870	
UCSC-C220-M5SX	UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, PSU	Unified Communications Server	WZP23501CDK	5446096023	27-Mar-25	31-Mar-27	1	$ -	$ -	$ 10	$ 756	$ 870	
UCSC-C220-M5SX	one	Unified Communications Server	WZP242024XX	5568904622	27-Mar-25	31-Mar-27	1	$ -	$ -	$ 10	$ 756	$ 870	
UCS-SPR-C220M4-E2	^UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	Unified Communications Server	FCH1931V1TD	1701744464	1-Apr-23	29-Feb-24	1	$ -	$ 634	$ -	$ -	$ -	
UCS-SPR-C220M4-E2	^UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	Unified Communications Server	FCH1946V2JJ	1753557072	1-Apr-23	29-Feb-24	1	$ -	$ 634	$ -	$ -	$ -	
UCS-SPR-C220M4-E2	^UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	Unified Communications Server	FCH1952V0DB	1762426947	1-Apr-23	29-Feb-24	1	$ -	$ 634	$ -	$ -	$ -	
UCS-SPR-C220M4-E2	^UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	Unified Communications Server	FCH1951V2QP	1773302843	1-Apr-23	29-Feb-24	1	$ -	$ 634	$ -	$ -	$ -	
Cisco SMARTnet, 8x5xNBD Parts & Remote Solution Support													
C1-ASR1001-X/K9	Cisco ONE - ASR1001-X	Router	FXS2226Q1LH	5269477719	1-Apr-23	31-Mar-27	1	$ -	$ 2,091	$ 2,398	$ 2,758	$ 3,171	
C1-ASR1001-X/K9	Cisco ONE - ASR1001-X	Router	FXS2226Q1RS	5269477723	1-Apr-23	31-Mar-27	1	$ -	$ 2,091	$ 2,398	$ 2,758	$ 3,171	
C1-CISCO4351/K9	Cisco ONE ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2234V00V	5266544151	1-Apr-23	31-Mar-27	1	$ -	$ 1,204	$ 1,381	$ 1,588	$ 1,827	
C1-CISCO4351/K9	Cisco ONE ISR 4351 (3GE,3NIM,2SM,4G FLASH,4G DRAM,IPB)	Branch Router	FLM2234V00W	5266544159	1-Apr-23	31-Mar-27	1	$ -	$ 1,204	$ 1,381	$ 1,588	$ 1,827	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FGL22368002	5268737390	1-Apr-23	31-Mar-27	1	$ -	$ 3,155	$ 3,618	$ 4,161	$ 4,785	
C1-CISCO4451/K9	Cisco ONE ISR 4451 (4GE,3NIM,2SM,8G FLASH,4G DRAM, IPB)	Branch Router	FGL22368003	5268737394	1-Apr-23	31-Mar-27	1	$ -	$ 3,155	$ 3,618	$ 4,161	$ 4,785	
FLSA1-BIN-1X10GE	ASR1001-X Built-In 10GE 1-port License	ASR Router License	PM1K7OILPMW	5269477821	1-Apr-23	31-Mar-27	2	$ -	$ 1,128	$ 1,292	$ 1,486	$ 1,708	
FLSA1-BIN-1X10GE	ASR1001-X Built-In 10GE 1-port License	ASR Router License	SOLG5WSG81Z	5269477825	1-Apr-23	31-Mar-27	2	$ -	$ 1,128	$ 1,292	$ 1,486	$ 1,708	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UG	5312854258	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UQ	5312854269	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UM	5312854275	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UP	5312854283	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UK	5312854287	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UL	5312854293	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UN	5312854299	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
ISR4431-V/K9	Cisco ISR 4431 UC Bundle, PVDM4-64, UC License	Branch Router	FJC2303A0UJ	5312854308	1-Apr-23	31-Mar-27	1	$ -	$ 1,989	$ 2,281	$ 2,623	$ 3,016	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP2348138A	5444792183	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP234813E1	5444792193	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP2348138G	5444792197	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP2348138Q	5444792198	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP23481388	5444792202	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP2348138N	5444792205	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP23481386	5444792208	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP23481387	5444792210	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SNS-3655-K9	Medium Secure Network Server for ISE Applications	ISE Licensing	WZP23481385	5444792211	14-May-23	31-Mar-27	1	$ -	$ 6,002	$ 7,065	$ 8,125	$ 9,344	
SPA-8XT3/E3	8-port Clear Channel T3/E3 Shared Port Adapter	T3 Module	JAE21340ANK	5269477743	1-Apr-23	31-Mar-27	1	$ -	$ 1,538	$ 1,597	$ 1,837	$ 2,112	
Cisco SMARTnet, SWSS Software Support													
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2125V0JA	5147663169	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2124V3UX	5147663171	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2121V1NP	5147663174	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2121V1MV	5147663175	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2125V0EL	5147663178	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2125V0CH	5147663180	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2121V1JA	5147663184	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2121V1M6	5147663186	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH2125V0ES	5147663188	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
BE7H-M4-K9	^Cisco Business Edition 7000H Svr (M4), Export Restrict. SW	Unified Communications Server	FCH1912V1VB	5192782422	5-Aug-22	30-Jun-23	1	$ -	$ -	$ -	$ -	$ -	
CCX-11-AQM-LIC	CCX 11.0 Adv Quality Manager Seat Qty 1 LICENSE ONLY	Contact Center Licensing AQM Recording		5351588149	1-Apr-23	31-Aug-23	30	$ -	$ -	$ -	$ -	$ -	
CCX-11-AQM-LIC	CCX 11.0 Adv Quality Manager Seat Qty 1 LICENSE ONLY	Contact Center Licensing AQM Recording		5411177390	1-Apr-23	31-Aug-23	49	$ -	$ -	$ -	$ -	$ -	
CCX-11-AQM-LIC	CCX 11.0 Adv Quality Manager Seat Qty 1 LICENSE ONLY	Contact Center Licensing AQM Recording		5497325927	1-Apr-23	31-Aug-23	10	$ -	$ -	$ -	$ -	$ -	
CCX-11-AQM-LIC	CCX 11.0 Adv Quality Manager Seat Qty 1 LICENSE ONLY	Contact Center Licensing AQM Recording		5544743188	1-Apr-23	31-Aug-23	65	$ -	$ -	$ -	$ -	$ -	
CCX-11-AQM-LIC	CCX 11.0 Adv Quality Manager Seat Qty 1 LICENSE ONLY	Contact Center Licensing AQM Recording		NEW	1-Apr-23	31-Aug-23	150	$ -	$ -	$ -	$ -	$ -	
L-ASAV10S-K9=	ASAv10 (eDelivery)	Virtual ASA for Sheriff Azure		5334311352	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
L-ASAV10S-K9=	ASAv10 (eDelivery)	Virtual ASA for Sheriff Azure		5334311353	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
L-ASAV10S-STD	ASAv10 with Standard Tier licenses (eDelivery)	Virtual ASA for Sheriff Azure		5334311354	1-Apr-23	31-Mar-27	1	$ -	$ 835	$ 957	$ 1,101	$ 1,266	
L-ASAV10S-STD	ASAv10 with Standard Tier licenses (eDelivery)	Virtual ASA for Sheriff Azure		5334311355	1-Apr-23	31-Mar-27	1	$ -	$ 835	$ 957	$ 1,101	$ 1,266	
L-PC12-PAAN-LIC	Prime Collaboration 12.xProv,Assur,Any Lic Bundle-1 endpnt	Prime License (Backup Config Access Switches 3500+)			3-Aug-22	31-Oct-24	1000	$ 6,000	$ 11,000	$ 7,000	$ -	$ -	
L-PC12-PAAN-LIC	Prime Collaboration 12.xProv,Assur,Any Lic Bundle-1 endpnt	Prime License (Backup Config Access Switches 3500+)			21-Jul-22	31-Oct-24	1000	$ 7,000	$ 11,000	$ 7,000	$ -	$ -	
L-PC12-PAAN-LIC	Prime Collaboration 12.xProv,Assur,Any Lic Bundle-1 endpnt	Prime License (Backup Config Access Switches 3500+)	9ZYCVJ8BEVI	5563972056	17-Aug-22	31-Oct-24	2000	$ 12,000	$ 22,000	$ 14,000	$ -	$ -	
TP-SMP-K9	Cisco TelePresence Shared Multiparty	CMS Licensing		5176346566	1-Apr-23	31-Mar-27	1	$ -	$ -	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663620	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663621	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663622	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663623	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663624	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663625	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663627	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663628	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663629	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
VMW-VS6-FND-K9	Embedded License, Cisco UC Virt. Foundation 6.x (2-socket)	VMWare on UCS for Unified Communications		5147663626	1-Apr-23	30-Jun-23	1	$ -	$ 76	$ -	$ -	$ -	
Cisco SMARTnet, ISV VMware Software Support													
VMW-VSP-STD-1A	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	5169J-82H6J-C8033-AT	5263813652	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	51613-D2H63-G813A-A	5263813671	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	15601-D2H23-C813C-A	5263813661	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	

Cook C+A1:N114ounty													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
VMW-VSP-STD-1A	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	1M603-82K3J-C8832-A'	5263813653	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A=	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	M520J-8KHFP-T826A-9I	1679871410	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A=	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	HM28L-DK2CM-X8A62-9	1679889108	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A=	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	HH693-8K0C6-98A6A-9	1679889133	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
VMW-VSP-STD-1A=	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required	VMWare on UCS for Unified Communications	HH60J-8K0A6-9836A-9	1679889159	1-Apr-23	31-Mar-27	1	$ -	$ 490	$ 562	$ 646	$ 743	
STI HANS™ Silver, 24x7x4 Parts & Remote Support													
UCS-SPR-C220M4-E2	UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	VMWare on UCS for Unified Communications	FCH1931V1TD	1701744464	1-Mar-24	31-Mar-27	1	$ -	$ 44	$ 515	$ 515	$ 515	
UCS-SPR-C220M4-E2	UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	VMWare on UCS for Unified Communications	FCH1946V2JJ	1753557072	1-Mar-24	31-Mar-27	1	$ -	$ 44	$ 515	$ 515	$ 515	
UCS-SPR-C220M4-E2	UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	VMWare on UCS for Unified Communications	FCH1952V0DB	1762426947	1-Mar-24	31-Mar-27	1	$ -	$ 44	$ 515	$ 515	$ 515	
UCS-SPR-C220M4-E2	UCS C220M4S w/2xE52620v3,2x8GB,MRAID,2x770W,32G SD,RAILS	VMWare on UCS for Unified Communications	FCH1951V2QP	1773302843	1-Mar-24	31-Mar-27	1	$ -	$ 44	$ 515	$ 515	$ 515	
STI HANS™ Silver, 8x5xNBD Parts & Remote Support													
WS-C4500X-16SFP+	Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	Distribution Switch 4500	JAE17430BYX	1479795159	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 421	$ 1,017	
WS-C4500X-16SFP+	Catalyst 4500-X 16 Port 10G IP Base, Front-to-Back, No P/S	Distribution Switch 4501	JAE1744088R	1479795228	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 421	$ 1,017	
WS-C4500X-24X-ES	Catalyst 4500-X 24 Port 10G Ent. Services, Frt-to-Bk, No P/S	Distribution Switch 4502	JAE23041B11	5339723158	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 952	$ 2,301	
WS-C4500X-24X-ES	Catalyst 4500-X 24 Port 10G Ent. Services, Frt-to-Bk, No P/S	Distribution Switch 4503	JAE22480JMB	5339723192	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 952	$ 2,301	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MR	5151671144	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MU	5151671145	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MV	5151671146	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MT	5151671147	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MJ	5151671148	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MQ	5151671149	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MX	5151671150	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MP	5151671151	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0N0	5151671152	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MZ	5151671153	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0ML	5151671154	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NU	5151671155	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MM	5151671156	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NZ	5151671157	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NW	5151671158	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MK	5151671159	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MW	5151671160	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MS	5151671161	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0P0	5151671162	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0MN	5151671163	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NV	5151671164	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NY	5151671165	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NX	5151671166	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
VG350-144FXS/K9	Cisco VG350 144 FXS Bundle	Voice Gateway	FJC2134D0NT	5151671167	1-Mar-24	31-Mar-27	1	$ -	$ 176	$ 2,070	$ 2,070	$ 2,070	
ONS-XC-10G-EP43.7=	10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G059	1734489344	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP43.7=	10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G052	1734489357	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP43.7=	10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G054	1734489365	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP43.7=	10G MR, XFP,Edge Performance 1543.73, 100 GHz, LC	ONS	FLJ1625G056	1734489377	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP49.3=	10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G018	1727231188	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP49.3=	10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G015	1727231208	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP49.3=	10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G00K	1727231218	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP49.3=	10G MR, XFP,Edge Performance 1549.32, 100 GHz, LC	ONS	FLJ1647G00L	1727231227	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP51.7=	10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT1639008X	1451976525	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP51.7=	10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT16390074	1451976563	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	

Cook County														
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
ONS-XC-10G-EP51.7=	10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	ONT1639007A	1451976578	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP51.7=	10G MR, XFP,Edge Performance 1551.72, 100 GHz, LC	ONS	FLJ1641G00H	1451976591	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP52.5=	10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163404X9	1451723050	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP52.5=	10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163404XC	1451723060	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP52.5=	10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163403XF	1451723065	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP52.5=	10G MR, XFP,Edge Performance 1552.52, 100 GHz, LC	ONS	ONT163504FB	1451723071	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.1=	10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00V	1084129357	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.1=	10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00X	1226364090	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.1=	10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G00U	1226364116	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.1=	10G MR, XFP,Edge Performance 1554.13, 100 GHz, LC	ONS	FLJ1606G033	1226364178	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.9=	10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1609G007	1084126008	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.9=	10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1626G004	1226364181	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.9=	10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1625G04V	1226364184	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP54.9=	10G MR, XFP,Edge Performance 1554.94, 100 GHz, LC	ONS	FLJ1626G03H	1226364186	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP55.7=	10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1604G00B	1226364156	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP55.7=	10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1545G00Z	1226364189	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP55.7=	10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1545G00U	1226364192	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP55.7=	10G MR, XFP,Edge Performance 1555.75, 100 GHz, LC	ONS	FLJ1550G042	1226364214	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP56.5=	10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G022	1230522997	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP56.5=	10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G002	1230523040	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP56.5=	10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G00S	1230523057	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP56.5=	10G MR, XFP,Edge Performance 1556.55, 100 GHz, LC	ONS	FLJ1625G012	1230523064	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01A	1238145511	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G017	1238145535	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01E	1238145542	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01H	1238145549	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1617G01L	1238145578	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1617G01C	1238145585	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G019	1238188476	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.1=	10G MR, XFP,Edge Performance 1558.17, 100 GHz, LC	ONS	FLJ1610G01F	1238188486	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G012	1226360013	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G04A	1226360054	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G004	1226360055	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1626G003	1226360056	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G002	1226360058	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1628G06J	1226360059	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ1629G01R	1226360060	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP58.9=	10G MR, XFP,Edge Performance 1558.98, 100 GHz, LC	ONS	FLJ2039G002	5247080551	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LS	1238187931	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT1647022N	1238187961	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LU	1238187974	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	ONT164900LP	1238187982	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02B	1238187993	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02M	1238188002	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G013	1238188011	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1650G02Q	1238188464	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1951G00M	1822989257	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ1951G01U	1822989261	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ2006G009	1822989264	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP59.7=	10G MR, XFP,Edge Performance 1559.79, 100 GHz, LC	ONS	FLJ2006G00B	1822989267	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G00R	1223881716	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1647G026	1223881736	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G00R	1223881742	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G01K	1223881747	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G027	1223881752	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1648G029	1223881759	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G018	1223881764	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ1649G01C	1223881770	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2012G00A	1822982253	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2013G00F	1822982261	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2014G00B	1822982267	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
ONS-XC-10G-EP60.6=	10G MR, XFP,Edge Performance 1560.61, 100 GHz, LC	ONS	FLJ2016G00D	1822982273	1-Oct-23	31-Mar-27	1	$ -	$ 173	$ 345	$ 345	$ 345	
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Sw itch	SSI164902E1	1207273879	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	

Cook County													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI164902E0	1207283345	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI164902EL	1207284460	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI16450AM2	1207284996	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI17450915	1509448192	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	
N5K-C5548UP-BUN	Nexus 5548UP in N5548UP-N2K Bundle	Nexus 5k Data Center Switch	SSI1746027V	1509452972	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,010	$ 1,212	$ 1,212	
N5K-C5548UP-FA	Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	Nexus 5k Data Center Switch	SSI203604D6	5099677812	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,202	$ 1,443	$ 1,443	
N5K-C5548UP-FA	Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	Nexus 5k Data Center Switch	SSI203604D7	5099677823	1-Jun-24	31-Mar-27	1	$ -	$ -	$ 1,202	$ 1,443	$ 1,443	
N2348TQ-FA-BUN	Standard airflow pack: N2K-C2348TQ, 2AC PS, 3 Fan		FOC2048R1A5	5073937032	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 173	$ 346	
CLK-7600=	Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)		NWG1151029F	5079971595	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 17	$ 39	
CLK-7600=	Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)		NWG133701TY	5079971596	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 17	$ 39	
CLK-7600=	Spare Clock card for CISCO7603, CISCO7606 or CISCO7609 (FRU)		SMT0919B293	5079971603	1-Nov-25	31-Mar-27	1	$ -	$ -	$ -	$ 17	$ 39	
15454-TCC2P-K9	Timing Communications Control Two Plus, I-Temp	ONS	CAT10110N9A	279845909	1-Mar-24	31-Mar-27	1	$ -	$ 8	$ 91	$ 91	$ 91	
15454-TCC2P-K9	Timing Communications Control Two Plus, I-Temp	ONS	CAT10070CYV	279847766	1-Mar-24	31-Mar-27	1	$ -	$ 8	$ 91	$ 91	$ 91	
15454-TCC2P-K9=	Timing Communications Control Two Plus, I-Temp	ONS	CAT10010AZ0	279844826	1-Mar-24	31-Mar-27	1	$ -	$ 8	$ 91	$ 91	$ 91	
15454-TCC2P-K9=	Timing Communications Control Two Plus, I-Temp	ONS	CAT10061LJF	279844933	1-Mar-24	31-Mar-27	1	$ -	$ 8	$ 91	$ 91	$ 91	
AIR-CT5508-12-K9	Cisco 5508 Series Wireless Controller for up to 12 Aps	Wireless Controller	FCW1402L0BQ	515216013	1-Aug-23	31-Mar-27	1	$ -	$ 1,134	$ 1,695	$ 1,695	$ 1,695	
AIR-CT5508-250-K9	Cisco 5508 Series Wireless Controller for up to 250 Aps	Wireless Controller	FCW1744L08L	1476871262	1-Aug-23	31-Mar-27	1	$ -	$ 6,699	$ 10,021	$ 10,021	$ 10,021	
AIR-CT5508-25-K9	Cisco 5508 Series Wireless Controller for up to 25 Aps	Wireless Controller	FCW1849L099	1613860250	1-Aug-23	31-Mar-27	1	$ -	$ 1,649	$ 2,466	$ 2,466	$ 2,466	
AIR-CT5508-HA-K9	Cisco 5508 Series Wireless Controller for High Availability	Wireless Controller	FCW1734L0DN	1509697333	1-Aug-23	31-Mar-27	1	$ -	$ 1,134	$ 1,695	$ 1,695	$ 1,695	
AIR-CT5508-HA-K9	Cisco 5508 Series Wireless Controller for High Availability	Wireless Controller	FCW1849L096	1614060500	1-Aug-23	31-Mar-27	1	$ -	$ 1,134	$ 1,695	$ 1,695	$ 1,695	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX1926Z01F	1682149121	1-Sep-26	31-Mar-27	1	$ -	$ -	$ -	$ -	$ 314	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX1946Z0NU	1737574414	1-Sep-26	31-Mar-27	1	$ -	$ -	$ -	$ -	$ 314	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX194740B4	1737758912	1-Sep-26	31-Mar-27	1	$ -	$ -	$ -	$ -	$ 314	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX2110Y1G4	5097357153	1-Sep-26	31-Mar-27	1	$ -	$ -	$ -	$ -	$ 314	
ASA5516-FPWR-K9	ASA 5516-X with FirePOWER services, 8GE, AC, 3DES/AES	Firewall	JMX2110Y1EB	5097357156	1-Sep-26	31-Mar-27	1	$ -	$ -	$ -	$ -	$ 314	
ASA5525-K9	ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX184710YC	1608181868	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 459	$ 920	
ASA5525-K9	ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX184710YA	1608182008	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 459	$ 920	
ASA5525-K9	ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0F6	5339340015	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 459	$ 920	
ASA5525-K9	ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0FA	5339340016	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 459	$ 920	
ASA5525-K9	ASA 5525-X with SW, 8GE Data, 1GE Mgmt, AC, 3DES/AES	Firewall	FTX2315W0F8	5339340017	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 459	$ 920	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX1949106P	1741255759	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX1949106R	1741255760	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX1949106T	1741255761	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX1949106V	1741255762	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX2210W0HP	5210896337	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
ASA5545-FPWR-K9	ASA 5545-X with FirePOWER Services, 8GE, AC, 3DES/AES, 2SSD	Firewall	FTX2210W0HM	5210896338	1-Oct-25	31-Mar-27	1	$ -	$ -	$ -	$ 951	$ 1,906	
15454-SA-HD	15454 SA HD NEBS3 ANSI w/ RCA and Ship Kit	ONS	SAT1016058J	279845999	1-Mar-24	31-Mar-27	1	$ -	$ 7	$ 76	$ 76	$ 76	
15454-SA-HD	15454 SA HD NEBS3 ANSI w/ RCA and Ship Kit	ONS	SAT1016058D	279847833	1-Mar-24	31-Mar-27	1	$ -	$ 7	$ 76	$ 76	$ 76	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1709B00U	1311771012	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1L9	1311771062	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JP	1311771074	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1M6	1311771084	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1L4	1311771100	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LT	1311771113	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1K3	1311771130	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1EU	1311771144	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1KM	1311771162	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J2	1311771177	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J7	1311771189	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JE	1311771209	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JJ	1311771221	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1ER	1311771233	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LV	1311771244	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1KE	1311771260	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1GL	1311771275	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JM	1311771290	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J6	1311771303	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JT	1311771318	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1JA	1311771328	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LX	1311771348	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	

Cook County													
Part Number	Product Description	Sentinel Description	Serial Number	Instance ID	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price	Special Notes
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1J1	1311771364	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1711B1LM	1311771378	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0LX	1729906158	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0NN	1729906172	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B0NG	1729906188	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT1943B019	1729906200	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT2028B14P	1824242669	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0HQ	1824242683	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0J8	1824242693	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OTU2-XP=	4 X OTN 10G MR TRANSPONDER	ONS	CAT2030B0K1	1824242704	1-Oct-24	31-Mar-27	1	$ -	$ -	$ 256	$ 513	$ 513	
15454-OPT-AMP-17C=	17dB Gain, Amp	ONS	CAT1701B03G	1210775633	1-Oct-23	31-Mar-27	1	$ -	$ 258	$ 513	$ 513	$ 513	
15454-OPT-AMP-17C=	17dB Gain, Amp	ONS	CAT1652B266	1210775658	1-Oct-23	31-Mar-27	1	$ -	$ 258	$ 513	$ 513	$ 513	
15454-AIC-I	Alarm Interface Card Enh Intl, I-Temp	ONS	CAT100411JF	279845990	1-Mar-24	31-Mar-27	1	$ -	$ 9	$ 106	$ 106	$ 106	
15454-AIC-I	Alarm Interface Card Enh Intl, I-Temp	ONS	CAT100411H1	279847828	1-Mar-24	31-Mar-27	1	$ -	$ 9	$ 106	$ 106	$ 106	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010006	1208499234	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000T	1208499245	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000R	1208499257	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010005	1208499261	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000N	1208499271	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000H	1208499282	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM17010007	1208499292	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000M	1208499299	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000V	1208499309	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1649008K	1208499338	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000W	1208499344	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000U	1208499353	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000P	1208499363	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM164900CC	1208500597	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000S	1208500610	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
15216-MD-ODD-LIC=	Mux demux patch panel 100GHZ ODD 10ch License restricted	ONS	ADM1701000Q	1208500622	1-Feb-23	31-Mar-27	1	$ -	$ 440	$ 378	$ 378	$ 378	
UCSC-C240-M3L	UCS C240 M3 LFF w /oCPU,mem,HD,PCIe,PSU w / rail kit, expdr	ONS	FCH1652V0VL	1309186979	1-Apr-23	31-Mar-27	1	$ -	$ 222	$ 221	$ 221	$ 221	
LIC-MS120-8FP-1YR	Meraki MS120-8FP Enterprise License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	7	$ -	$ -	$ 301	$ 350	$ 399	
LIC-MX67-SEC-1YR	Meraki MX67 Advanced Security License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	1	$ -	$ -	$ 433	$ 497	$ 572	
LIC-MX67C-SEC-1YR	Meraki MX67C Advanced Security License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	10	$ -	$ -	$ 5,250	$ 6,040	$ 6,940	
LIC-MX68-SEC-1YR	Meraki MX68 Advanced Security License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	5	$ -	$ -	$ 2,315	$ 2,665	$ 3,065	
LIC-MX68CW-SEC-1YR	Meraki MX68CW Advanced Security License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	16	$ -	$ -	$ 10,384	$ 11,936	$ 13,728	
LIC-MX450-SEC-1YR	Meraki MX450 Advanced Security License and Support	Firew all -- Cook County Gov.			8-Dec-24	9-Dec-27	1	$ -	$ -	$ 12,346	$ 14,198	$ 16,327	
LIC-MX67-SEC-1YR	Meraki MX67 Advanced Security License and Support	Firew all - Police Department			14-Feb-25	15-Feb-28	108	$ -	$ -	$ -	$ 53,676	$ 61,776	
LIC-MX68-SEC-1YR	Meraki MX68 Advanced Security License and Support	Firew all - Police Department			14-Feb-25	15-Feb-28	4	$ -	$ -	$ -	$ 2,132	$ 2,452	
LIC-MX450-SEC-1YR	Meraki MX450 Advanced Security License and Support	Firew all - Police Department			14-Feb-25	15-Feb-28	1	$ -	$ -	$ -	$ 14,198	$ 16,327	
F5-SVC-BIG-PRE-L1-3	BIG-IP Service: Premium (Level 1-3) - F5-SVC-BIG-PRE-L1-3	Load Balancer	f5-ismc-jw ux		3-Mar-22	31-Mar-27	1	$ 5,455	$ 6,274	$ 7,215	$ 8,297	$ 9,541	
F5-SVC-BIG-PRE-L1-3	BIG-IP Service: Premium (Level 1-3) - F5-SVC-BIG-PRE-L1-3	Load Balancer	f5-asrq-mw cg		3-Mar-22	31-Mar-27	1	$ 5,455	$ 6,274	$ 7,215	$ 8,297	$ 9,541	
F5-SVC-BIG-PRE-L1-3	BIG-IP Service: Premium (Level 1-3) - F5-SVC-BIG-PRE-L1-3	Load Balancer	f5-nckv-ooms		3-Mar-22	31-Mar-27	1	$ 5,455	$ 6,274	$ 7,215	$ 8,297	$ 9,541	
F5-SVC-BIG-PRE-L1-3	BIG-IP Service: Premium (Level 1-3) - F5-SVC-BIG-PRE-L1-3	Load Balancer	f5-sqos-lryu		3-Mar-22	31-Mar-27	1	$ 5,455	$ 6,274	$ 7,215	$ 8,297	$ 9,541	
						Annual Totals		$ 173,439	$ 1,013,512	$ 1,168,923	$ 1,351,120	$ 1,492,032	

Exhibit B – Network Software

Cook County										
Part Number	Product Description	Sentinel Description	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price
SVS-FLEX-SUPT-BAS	Basic Support for Flex Plan	Softw are maintenance for Collaboration Flex Plan 3.0	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-STD-CUBE	CUBE Standard Trunk Session License	Cisco Unified Border Element - license - standard trunk session for connectivity to PSTN - per trunk	31-Mar-22	1-Feb-27	1075	$ 21,091	$ 21,091	$ 21,091	$ 21,091	$ 21,091
A-FLEX-SRST-E	SRST Endpoints (1)	Cisco Unified Survivable Remote Site Telephony (SRST) provides cost-effective solutions for supporting redundant call control in remote branch offices - device license	31-Mar-22	1-Feb-27	24000	$ -	$ -	$ -	$ -	$ -
A-FLEX-P-UCXN	Unity Connection Smart License (1)	Voice messages - per user	31-Mar-22	1-Feb-27	14400	$ -	$ -	$ -	$ -	$ -
A-FLEX-P-ER	Emergency Responder Smart License (1)	Cisco Emergency Responder enhances the existing emergency 9 1-1 functionality offered by Cisco Unified Communications Manager. It helps assure that Cisco Unified Communications Manager w ill send emergency calls to the appropriate Public Safety Answ ering Point (PSAP) for the caller's location, and that the PSAP can identify the caller's location and return the call if necessary.- device license	31-Mar-22	1-Feb-27	36000	$ -	$ -	$ -	$ -	$ -
A-FLEX-FILESTG-ENT	File Storage Entitlement	Storage space for Pro Pack	31-Mar-22	1-Feb-27	288000	$ -	$ -	$ -	$ -	$ -
A-FLEX-PROPACK-ENT	Pro Pack for Cisco Control Hub Entitlement	With Pro Pack for Control Hub, administrators can analyze the collaboration experience and provide business insights to meet the needs of customers.	31-Mar-22	1-Feb-27	14400	$ -	$ -	$ -	$ -	$ -
A-FLEX-SW-12.5-K9	On-Premises & Partner Hosted Calling SW Bundle v12.5 (1)	Enablement for premise based deployment and softw are	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-P-EA	On-Premises Smart License - EA (1)	On-Premises Smart License - EA entitlement.	31-Mar-22	1-Feb-27	14400	$ -	$ -	$ -	$ -	$ -
A-FLEX-CUAC-A-HA	Unified Attendant Console Advanced HA	Cisco Attendant Console HA server Licenses for redundancy.	31-Mar-22	1-Feb-27	1	$ 189.26	$ 189.26	$ 189.26	$ 189.26	$ 189.26
A-FLEX-EXP-RMS	Expressw ay Rich Media Session (1)	Required for concurrent calls to and from any endpoint or application not registered to Cisco Unified Communications Manager. For example, business-to-business calls, Cisco Collaboration Meeting Rooms, Cisco Jabber Guest, and interw orked calls (H.323 to SIP, H.264 AVC to H.264 SVC)	31-Mar-22	1-Feb-27	2400	$ -	$ -	$ -	$ -	$ -
A-FLEX-SME-S	Session Manager (1)	Cisco Unified Communications Manager SME helps enterprises create a centralized architecture to more easily and efficiently manage and evolve their netw orks as collaboration needs change.	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-MSG-ENT	Messaging Entitlement	All-in-one team collaboration from Webex. Webex is an app for continuous teamw ork. Move w ork forw ard in secure w ork spaces w here everyone can contribute anytime w ith messaging, file sharing, w hite boarding, video meetings, calling, and more.	31-Mar-22	1-Feb-27	14400	$ -	$ -	$ -	$ -	$ -
A-FLEX-P-ACC	Access Smart License (1)		31-Mar-22	1-Feb-27	2400	$ -	$ -	$ -	$ -	$ -
A-FLEX-EXP-PAK	Expressw ay Product Authorization Key (1)	Cisco Expressw ay Series w orks as part of the Cisco Unified Communications Manager product family to provide access for mobile, desktop, and fixed clients. The application provides advanced multimodal firew all traversal and access services for secure voice, video, instant messaging and presence, directory, and visual voicemail outside your enterprise firew all w ithout the need for a VPN.	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -

Cook County										
Part Number	Product Description	Sentinel Description	Begin Date	End Date	Qty	Year 1 Ext. Price	Year 2 Ext. Price	Year 3 Ext. Price	Year 4 Ext. Price	Year 5 Ext. Price
A-FLEX-P-CA	Common Area Smart License (1)	Add-on licenses for common-area phones not associated with knowledge workers.	31-Mar-22	1-Feb-27	6000	$ -	$ -	$ -	$ -	$ -
A-FLEX-CUAC-A	Unified Attendant Console Advanced	CUAC Advanced offers a powerful queuing engine that helps users manage several calls from many sources. The robust directory can handle up to 100,000 contacts and synchronize directly with Active Directory.	31-Mar-22	1-Feb-27	7	$ 3,420	$ 3,420	$ 3,420	$ 3,420	$ 3,420
A-FLEX-C-DEV-ENT	Cloud Device Registration Entitlement	The cloud device registration provides the ability to register Cisco video devices purchased upfront as well as Hardware as a Service to the Webex cloud, with no need for on-premises infrastructure.	31-Mar-22	1-Feb-27	14400	$ -	$ -	$ -	$ -	$ -
A-FLEX-EAPL	EntW On-Premises Calling	Enterprise– a full-featured robust offer targeted to the organization's Knowledge Workers; includes unified communications, mobility (desktop and mobile clients with support for multiple devices) and voicemail.	31-Mar-22	1-Feb-27	12000	$ 678,960	$ 678,960	$ 678,960	$ 678,960	$ 678,960
SVS-FLEX-SUPT-BAS	Basic Support for Flex Plan	Software maiintence for Contact Center	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-PJXPC	Flex CC On-Premises UCCX Premium Concurrent Agent	Premium Agent includes all Standard Agent features and adds omnichannel communication such as chat and email, multi-channel reporting and analytics, and supervisor monitoring and barge-in for all types of agents.	31-Mar-22	1-Feb-27	60	$ 27,046	$ 27,046	$ 27,046	$ 27,046	$ 27,046
A-FLEX-J-AGT-RTU	On-Premises PCCE & UCCE, Hosted CCE & CCX Agent RTU	UCCX Agent Right to Use license	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-05-12.5-K9	On-Premises UCCX Standard & Premium Media Kit v12.5	UCCX Software media kit 12.5	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-PJX-SVR12.5	On-Premises UCCX Standard & Premium Server v12.5 (incl 12.6)	UCCX Server licenses 12.5	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-PJXPAGT12.5	On-Premises UCCX Premium Agent License v12.5	Premium Agent license for premise UCCX 12.5	31-Mar-22	1-Feb-27	60	$ -	$ -	$ -	$ -	$ -
A-FLEX-PJXSC	Flex CC On-Premises UCCX Standard Concurrent Agent	Standard Agent provides essential functionality to voice-only call centers with typical or sophisticated needs. Standard Agent functionality includes browser based agent desktop, inbound and outbound voice, touch-tone IVR, web and voice callbacks, and standard CRM connectors	31-Mar-22	1-Feb-27	221	$ 80,150	$ 80,150	$ 80,150	$ 80,150	$ 80,150
A-FLEX-PJXSAGT12.5	On-Premises UCCX Standard Agent License v12.5 (12.6)	Standard Agent license for premise UCCX 12.5	31-Mar-22	1-Feb-27	221	$ -	$ -	$ -	$ -	$ -
A-FLEX-EXP-PAK	Expressway Product Authorization Key (1)	Cisco Expressway Series works as part of the Cisco Unified Communications Manager product family to provide access for mobile, desktop, and fixed clients. The application provides advanced multimodal firewall traversal and access services for secure voice, video, instant messaging and presence, directory, and visual voicemail outside your enterprise firewall without the need for a VPN.	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-CMS-SW-12X-K9	On-Premises CMS & Jabber for CMS SW Bundle v12	CMS / Jabber Software Bundle	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-EXP-RMS	Expressway Rich Media Session (1)	Required for concurrent calls to and from any endpoint or application not registered to Cisco Unified Communications Manager. For example, business-to-business calls, Cisco Collaboration Meeting Rooms, Cisco Jabber Guest, and interworked calls (H.323 to SIP, H.264 AVC to H.264 SVC)	31-Mar-22	1-Feb-27	50	$ -	$ -	$ -	$ -	$ -
A-FLEX-CMS-PAK	CMS Product Authorization Key (1)	CMS Product Key for enablement	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-CMS-JABBER	Jabber per host for connecting to CMS Meetings Only	Total Jabber connections for Cisco Meetings	31-Mar-22	1-Feb-27	5000	$ -	$ -	$ -	$ -	$ -
SVS-CMS-SUPT-BAS	Basic Support for Cisco Meeting Server	Software maiintence for Cisco Meeting Server	31-Mar-22	1-Feb-27	1	$ -	$ -	$ -	$ -	$ -
A-FLEX-SMP	Shared Mulitiparty User License (1)	Shared Mulitparty User licenses concurrent sessions	31-Mar-22	1-Feb-27	50	$ -	$ -	$ -	$ -	$ -
A-CMS-SMP	CMS On-Prem Shared Meeting License	Shared Mulitparty User licenses	31-Mar-22	1-Feb-27	50	$ 111,116	$ 111,116	$ 111,116	$ 111,116	$ 111,116
										-
					Annual Totals	$ 921,973	$ 921,973	$ 921,973	$ 921,973	$ 921,973

Exhibit C – Network County Service Locations

Address		
1 Aloha Lane	1835 W Harrison St	4455 Sauk Trail
1 Asselborn Wy	185 W Sauk Trail	447 N Catherine Ave
1 Briar Rd	18725 S Stony Island Ave	450 E 51st St
1 E Dundee Rd	18725 Stoney Island Av Ch	4500 123rd St
1 Grand Central Ln	1900 W Polk	4545 W Cermak Rd
1 N Schoenbeck Rd	1901 W Harrison St	46 Raupp Bl
1 N Wacker Dr	1901 W Harrison St	4600 _ Roosevelt Dr
10 S Canal St	1903 Ruby	4734 W Chicago Ave
10 Scott	1904 W 174th St	4771 Sauk Trail Rchtn Pk
100 E Erie St	1910 S Busse Rd Mt Prspct	4800 W Chicago Ave
1000 W Schaumburg Rd	1926 N Green Lane North P	49 Park Ave
1007 Church St	195 W Oakton St	4901 W Cermak Rd
101 Biesterfield Rd	1950 W Polk St	4924 Forest Ave
101 N Wolf Rd	1969 W Ogden Ave	4946 W 13th St
1010 S Dixie Hwy	1st Ave ,Maywd	4950 Old Orchard Rd
10202 S 76th Ave	2 E Higgins Rd Hofmn Ests	5 Revere Dr Northbrk
10220 S 76th Ave	20 N Main St	50 S Emerson
1025 Pleasant	200 _ Vine St	50 W Washington St
103 S Prospect Ave	200 E 115th St	500 E 51st St
10300 Roosevelt Rd	200 Lakewood Bl	500 Ogden Ave
10300 S Luella Ave	200 N La Salle St	5003 W Fullerton Ave
10351 S Woodlawn Ave	200 N Portwine	5101 S Wentworth Ave
10355 S Woodlawn Ave	200 Pulaski Rd	517 Des Plaines Ave
104 Luella Ave	200 Vine Ave	520 S Federal St
10425 S Ridgeland Ave	2000 _ 5th Ave	521 S La Grange Rd
106 W Eastman St	2000 5th Ave	530 W 18th St
1061 S Wolf Rd	2000 Bayberry Ln	5333 N Western Ave
10655 S Oak Ave	20009 E Higgins Rd	5358 N Ashland Ave
1078 Gregory Ct	20040 Governors Hwy	536 Archer Ave
108 S Barrington Rd	201 _ Acacia Dr	536 N Harlem Ave
10900 S 88th St	2011 Lake	536 S Clark St
10s437 Route 83 Hinsdl	202 S Halsted St	540 W Madison St
110 James	2020 W Harrison St	5400 W Roosevelt Rd
110 S Barrington Rd	2029 Walters Ave	5401 Cermak Rd
1100 River Oaks Dr	20500 Cicero Ave	5405 W 127th St
1100 S Hamilton Ave	20602 Lincoln Way Ln	55 E North Ave
111 W Washington St	2100 _ Ridge Ave	5515 N East River Rd
111 Windsor Dr	2101 Ballard Rd	5533 N Broadway St
1110 S Oakley Blvd	2101 Plum Grove Rd	555 W Harrison St
1112 S Oakley Blvd	21113 Dettmering Dr	5555 W Grand Ave
1116 W Ogden Ave	2121 Euclid Ave	5600 Old Orchard Rd
112 Algonquin Rd	2121 W Harrison St	5602 167th Tinly Pk
1120 S State St	2138 S 61st Ct	5608 W 75th Pl
11202 S Avenue B Chgo	21460 Lincoln Hwy	5650 W 75th Pl
1135 W 69th St	21701 Torrence Ave	5810 Archer Rd
1138 Park Ave	2199 S 1st Ave	5819 Electric Ave
1140 _ Lake St	2200 _ Busse Ave	5912 W Cermak Rd
1140 Harms Rd	2200 S Dirksen Pkwy Springfield	5934 N East Circle Ave

Address		
11400 S Avenue E	221 N La Salle St	595 N Hicks Rd
1150 E 89th	221 N Lasalle St	600 Holiday Plaza
1154 Ridge Rd	2240 W 37th	600 S Hoyne Ave
11591 123rd Palos Pk	2240 W 37th St	600 W Jackson Blvd
1160 Plaza Dr	2245 W Ogden Ave	600 W Winchester Rd
11601 Pulaski Rd	2246 Swainwood Dr	601 Apple Dr
11750 S Kedzie Ave	228 Main	6015 Lenzi Ave
118 N Clark St	230 S Dearborn St	6100 N Central Ave
11s215 Lemont Rd	2300 State	6101 Capulina Ave
120 S Lincoln	231 N Martingale Rd	615 _ Locust
120 S Lincoln Ave	2323 S Rockwell St	6200 Joliet Rd Contrysd
120 S Riverside Plz	2325 N Meacham Rd	6200 W Devon Ave
120 W Huron Rm 207	233 W 76th St	621 S Wincheser
120 W Huron St	23300 Governors Hwy	625 E 151st St
1200 Pulaski Rd	2349 17th Ave	627 S Wood St
1201 W Davis	2350 S 25th Ave	629 E 151st St
121 N Lasalle St	2359 Des Plaines Ave	6337 S Woodlawn Ave
1215 Waukegan Rd	238 W 154th	6358 W Devon Av Chgo
12201 123rd	240 S Route 59	638 Independence Ct
12203 Mccarthy Rd	2400 S Arlington Heights Rd	64 W 162nd St
12229 S Orchard St	2405 _ 17th St	640 Cosman Rd
1229 N North Branch	2423 S Austin Ave	6401 31st St
123 Madison	2424 5 Pulaski Road	649 Lake Cook Rd Derfld
1240 S Damen Ave	2424 S Pulaski Rd	650 Burnham Dr
12409 Throop	2427 Union	650 E Phoenix Center Dr
1249 Torrence Ave	2440 Walters Zimny Dr	650 Phoenix Center Dr
125 S 5th Ave	245 S 24th Ave	650 Phoenix Center Dr
12545 W 111th	2452 W Belmont Ave	6501 W 31st St
12545 W 111th St	250 153rd	6533 Pershing Rd
1255 W North Ave	250 Route 59 Bartlt	6533 W Pershing Rd
12700 S Sacramento Ave	2500 East Lake Ave	654 Meacham Rd Elk Grv Vl
12757 S Western	2500 Westfield Dr	6545 W Hurlbut St
129th & Inland	2501 Mannheim Rd	6601 Dempster St
13031 Greenwood Ave	2510 _ Green Bay Ave	6614 W North Ave
131 S Dearborn St	2515 _ Veterans Rd	6633 Harts Rd Niles
13100 Halsted	2523 N Meacham Rd	6633 W Harts Rd
13101 Halsted St	255 W Dundee Rd	6650 N Northwest Hwy
1311 Maybrook Dr	2552 E 79th St	6700 S Archer Ave
1311 S 1st Ave	2600 California	6701 S Archer Rd
1313 E Sibley Bl	2600 Mannheim Rd	675 Village Ct
1319 S 1st Ave	2600 S California Ave	675 W Central Ave
1321 S Paulina St	2600 S Washtenaw Ave	6797 _ 147th St
1325 _ Wiley	2601 S California Ave	6802 147th Tinly Pk
1330 S 54th St	2621 Thatcher Ave	69 W Washington Chgo
1339 Evergreen Ct	2650 S California Ave	69 W Washington St
1340 S Damen Ave	2653 N Kedzie Ave	6900 N Lincoln Ave
1340 S Michigan Ave	2700 S California Ave	6920 N Mannheim Rd
1340 W Adams St	2701 W 26th St	70 W Madison St
1340 W Monroe	2710 170th St	700 Mall Dr
1340 W Monroe St	2717 S Sacramento Ave	700 N Sacramento Blvd

Address		
1343 Ellis Ave	2729 Jackson Ave	700 Park Ave
13450 S Kedzie Ave	28 N Clark Ave	7000 46th St
13500 Rolls Rd	28 N Clark St	7000 W Touhy Ave
1351 S Morgan St	2800 Flossmor Rd	703 S 5th Ave
135th St & 89th Ave	2800 S California Ave	710 Ridge Rd
13600 S Ashland Ave	2801 S Rockwell St	711 Chelmsford Ln
13700 108th Ave	2840 W Fullerton Ave	7112 111th St
13700 110th Ave	2880 Sanders Rd	7122 W 40th St
13801 S Harlem Ave	28w040 Route 58	715 Oak
13801 S Harlem Ave	28w040 Route 58 Hofmn Est	715 W Central Rd
13840 S Cicero Ave	3 Stover Rd Baringtn	715 W Lake St
139 S State	30 S Barrington Rd	715 W Maxwell St
14 E Camp Mc Donald Rd	30 S Westmore Ave	718 S Wood St
1401 Greenwood Rd	3000 W 170th	7221 W Madison St
1401 Landwehr	3000 W 170th Pl	725 W 138th St
1401 S Maybrook Dr	3015 S California Ave	727 E 111th St
14014 Park Ave	3026 S California Ave	729 Houston, Lemont
141 S Central Ave	304 W Burlington Ave	7300 Niles Center Rd
1411 W Madison St	3045 S Sacramento Ave	7300 W Wilson Ave
1420 Miner St	31 Riverside Rd	738 Thatcher Ave
14450 Manistee Ave	3100 S Robinson	739 S Winchester Ave
1454 Elmwood Ave	3100 W Golf Rd Hofmn Ests	740 Hillgrove Ave
14600 S 127th St	3108 W Golf Rd	7401 S Cicero Ave
14600 S Ravinia Ave	311 W Washington	7401 W 75th St
14698 S Oak Park Ave	311 W Washington St	7420 Fullerton Ave
14750 _ Ravinia	3120 Milwaukee Ave	743 Illinois Rd
1477 Burberry Ln	3120 N Milwaukee Ave	7500 S Oketo Ave
14801 Pulaski Rd	3120 N Sheridan Rd	7507 W Cermak Rd
14829 Dixie Hwy	3151 W Harrison St	7507 W Cermak Rd
14949 Washington Ave	31w133 Rohrsen Rd Elgn	7556 Jackson Blvd
1500 Maybrook Dr	3200 Washington St Bl	7600 Ogden Ave
1500 W Shure Dr, Arlngtn Hgts Il 60004	321 N Lasalle St	7600 W 103rd St
1501 Maybrook Dr	3223 N Sheffield Ave	7601 S Cicero Ave
1501 Opus Pl	325 S Kenilworth	7607 College Dr
1501 S Canal St	3250 N Arlington Heights Rd	7611 College Dr
15040 S Ravinia Ave	33 N Dearborn St	7625 Wilcox
151 Douglas Ave	33 S Arlington Hts Rd	7700 S County Line Rd
15100 Ravinia Ave	3300 Ashland Av, Stgr	7701 Lincoln Ave
15101 Oak Park Ave	3300 E Cheltenham Pl	777 E Algonquin Rd Des Pl
1515 _ Lake St	3302 Ashland Av Stgr	7800 Archer Rd
152 S York Rd	3311 N Kennicott Ave	7801 S Lawndale Ave
152 S York Rd	3323 137th St	7850 183rd
15201 Halsted	333 W Wacker Dr	80 W Washington St
15301 Dixie Hwy	3349 W 183rd	801 N River Rd
15321 Center Ave	3400 East Lake Av Glenvw	801 N River Road
1536 Prairie Ave	35 S 19th Ave	8020 Chicago Ave
15440 S Central Ave	35 W 34th St	803 _ Joliet Rd
155 W 51st St	35 W Wacker Dr	808 S Kedzie Ave
15700 Paxton Ave	350 E Cermak Rd	820 Davis

Address		
15800 S State St	350 N Orleans	820 Frontage Rd Nfld
15827 Cicero Ave	350 Walnut Ave	8223 S Princeton Ave
1585 N Rand Rd	3500 Rohlwing Rd	825 W Wise Rd Schmbrg
15891 Paxton Ave	3500 Rohlwing Rd Rolng Md	8255 Willow Springs Rd
15900 S Cicero Ave	3500 Rohlwing Rd, Rolng M	8350 Laramie Ave
15901 S Cicero Ave	3510 S Michigan Ave	840 E State Pkwy
15944 Central Ave	3518 139th Robns	840 S Wood St
15948 S Halsted St	3525 S Michigan Ave	845 W 69th St
16 Red Oak Ln	36 S Fairview Ave	8450 50th
160 145th St	3600 Kirchoff Rd	850 E 26th St
1600 94th Pl	3600 W Ogden Ave	8555 W 103rd St
1600 E Golf	3601 Lake	8658 S Cottage Grove Ave
1600 Golf Rd	3700 W 175th Pl	8659 S Western Ave
1601 S Halsted	3800 Woodland Av Wstrn Sp	8699 S Western Av Chgo
16039 94th Ave	3801 W Lake St	8699 S Western Ave
16150 127th	3818 Sauk Trail Rchtn Pk	8755 W Higgins Rd
16220 Wausau Ave	3826 W Wabansia Ave	8800 W 87th St
1625 Cottage Grove Ave	3900 S California Ave	8800 W Belmont Av Chgo
1629 N Mannheim Rd	3930 N Clark St	8800 W Belmont Ave
16310 Central Ave	3936 W Roosevelt Rd	8820 Brookfield Ave
16313 Kedzie Pkwy	3948 W 26th	8900 135th St
1639 W Walnut St	4 W Chicago Ave	8970 N Milwaukee Ave
1640 W Walnut St	400 N Northwest Hwy	8999 S 123rd St
1645 Cottage Grove	400 Park Ave	9 Centre
16501 Kedzie Ave	400 W Grand Ave	900 N 25th St
1680 N Quentin Rd Palatin	4000 Midlothian Turnpike	900 S Arlington Heights Rd
1701 N Quentin Rd	4008 Midlothian Turnpike	9000 W College Pkwy
1701 S 1st Ave	401 E Irving Park Rd	901 E 26th
17051 88th Ct Orland Hils	401 S 22nd Pl	901 Wellington Ave
1713 Ash Nfld	4020 Olcott Ave	9057 S Longwood Dr
1720 _ Cherry Ave	405 River Rd	9059 S Cottage Grove Ave
17223 S Throop St	405 S River Rd	916 W Washington Ave
1728 Cherry St	410 Green Bay Rd	9325 Church St
175 S 5th Ave	410 W Dundee	937 N Wood St
175 W Hintz Rd	4105 Teri-Lyn Ln Northbrk	9420 S Kedzie Ave
1751 Lake Cook Rd, Derfld	411 W Higgins Rd	9446 S Raymond Ave
1775 W Dempster St	419 Richmond Rd	9451 Belmont Ave
1775 Dempster St	420 E 14th St	9501 W Devon Ave
17950 Dixie Hwy	4200 Lawndale Ave	9511 W Harrison St
1800 S Harlem	4200 N Oak Park Ave	9526 Irving Park Rd
1801 East Lake Av Glenvw	4201 Lake Cook Rd	9659 Soreng Ave
1801 Hinman Ave	421 N County Farm Rd	9800 S 104th Ave
1812 _ Waukegan Rd	424 N Mc Henry Rd Buflo G	9800 Willow Springs Rd
1816 W 91st St	425 N Hillside Ave	9801 W Cal Sag Rd
18250 Cicero Ave	4253 N Milwaukee Ave	9801 W Route 83 Palos Pk
1828 S Roselle Rd Rosel	427 S Lasalle St	9801 Willow Springs Rd
1830 51st Ave	4331 Southwest Hwy	9901 Willow Springs Rd
1830 W Polk St	4374 S Archer	9925 _ Grand Ave
1835 W Harrison St	440 E Thornton-Lansing Rd	

Exhibit D – Network Policies, Procedures and Standards

Excerpt from NCC Operations Manual:

4. Change Management

Change management is defined as the process to communicate, assess, monitor, and control all the changes to network resources and processes.

In order to control any changes that will occur in the County's network environment NCC staff will first comprehensively test any proposed change in a controlled environment, whenever possible. In addition to testing changes, this controlled environment will also provide the opportunity for staff training. Through the use of the training/testing environment, NCC staff will implement the proposed hardware/software upgrade in the controlled environment, and review the change for any impact to the network. The impact study would present a more realistic view of the change, thus allowing NCC staff to deploy the implementation with the least effect to the County's WAN. Through the use of proper backup procedures, the County would be assured the least amount of impact should a large-scale outage occur.

The Project Manager and the Director's role in the change management methodology will be that of a Reviewer and Approver. The NCC Project Manager will present to the County any proposed change, and the County will, at its discretion, either accept or reject the proposed change. Project related changes are logged in the project inventory.

In the event a configuration is required in response to a trouble ticket, the associated information will be logged in resolution section of the tickets. Tickets are provided to the Director on an as need basis providing the opportunity to discuss any unplanned changes/ fixes. Persistent trouble tickets are also reviewed with the Director and Sentinel Management on a weekly or bi-weekly basis.

5. Network Configuration Documentation

NCC staff will maintain all network configuration documentation in an electronic format and on-line for the County's access. The network configuration documents will consist of topology drawings, an Access database recording specifics (i.e., serial number, location, IP address etc.) and the configuration files (i.e., IOS version, configuration settings, etc.) on all WAN devices, and the activity produced from the utilities monitoring the WAN.

6. Testing

Testing involves the provision of network resources necessary for all offline environments (development, test, and/or training). It includes the ability to test changes to existing hardware and software or to test new software for the purpose of evaluation prior to taking it online.

The NCC's process for providing testing of network components prior to bringing the components on-line is as follows:

NCC staff will maintain a testing/staging environment, whenever possible, for all network components slated for WAN implementation. NCC staff will install all components and

verify that all hardware is functional both physically and with all operating systems/software installed. NCC staff will test the equipment and configuration for a predetermined time to insure that all the components are functioning to the expected operating parameters.

Pending the review of testing and approval of the Director, projects will progress from test to implementation.

EXCERPT: NCC SECURITY SERVICES AND PROCEDURES

Control

All firewall administration is performed by authorized Network Engineer II – refer to "roles and responsibilities" document for more information

- Firewall Policy
  - Default Policy
    - Any and all traffic to and from a network of lower security level is prohibited
      - Unless otherwise specified, the default policy will be enforced
  - Required authorization for changes to the default policy
    - All requests to change the default policy must be made in writing to the NCC Project Manager
      - The requested change must be made by the head of the department requesting the change
      - The requested change must include the port that needs to be opened, the service that needs to go through, and the IP addresses of the source and destination, and the purpose of the change
    - Any and all changes to the default policy must be approved by the Director – Fitz Miller
      - NCC security administrator must review the request, and must properly submit its opinion to the Director of NCC who will then make a decision based on the opinion
      - The request, and the corresponding opinion must be properly filed with the Project Manager
      - Changes will be logged by the NCC Engineer in the change log and trouble ticket or project inventory – as appropriate
  - Logging & Reporting
    - Log all access through the firewall
    - Log all activities that are suspicious in nature from an IDS

Monitoring

- Intrusion Detection Policy
  - Logging and Filtering
    - Log all suspicious activities on all network segments
    - The logs are reviewed on a regular basis
    - The intrusion detection logs will be kept for a minimum of 6 Months
  - Real Threats vs. False Positives
    - After reviewing the logs, the security administrators will tune the IDS to the network to avoid false positives and identify real threats

Remote Access

- Types of Access Allowed (e.g. VPN, RAS, PC Anywhere, Terminal Service)
  - VPN using IPSEC will be allowed

- Request for VPN access must be made in writing to the Director and NCC Operations Manager
- VPN encryption and authentication must adhere to the encryption standard of Cook County
- Authentication methodology must meet authentication standards of Cook County
- NCC reserves the right to issue user ID and passwords and change them if need be without proper notification to the user
- NCC reserves the right to shutdown VPN access if need be without proper notification to the user

- Any and all terminal emulation must be used over VPN or over a dialup
  - Exception will be made for outgoing terminal emulation, which must still be approved by the Director of NCC
- Remote Access via telephone dialup will be allowed for selected authorized personnel
  - Request for dial-up remote access must be made in writing to the Director of NCC
  - Authentication methodology must meet authentication standards of Cook County
  - Dial up access will be considered network security level 2, and will only be able to access data at the same security level. Security level 3 data will only be accessible through proper multiple factor authentication and proper encryption
  - NCC reserves the right to issue user ID and passwords and change or delete them if need be without proper notification to the user
  - NCC reserves the right to shutdown VPN access if need be without proper notification to the user

Wireless Access

- Securing/Managing Authorized Wireless Access Points
  - All placement of wireless access points and related wireless device must be authorized and overseen by NCC
  - Wireless network will be considered remote access of Cook County Wide Area Network and will be required to meet all standards of remote access identified in the "Remote Access" portion of this section
  - Regular monitoring will be performed to identify unauthorized wireless access points

Ongoing Activities

- Incident Warnings
  - Responsible parties must actively research and document system vulnerabilities and fixes
- Virus warnings
  - NCC will actively research and document current virus threats

NCC INVENTORY CONTROL PROCESS

1. All new equipment is received by Steve Utanoff, a representative of Systems Solutions, Inc (SSI). SSI verifies the devices based upon the serial number, equipment description and quantity listed on the packing document.

2. Equipment is then stored in the equipment room located at 118 N. Clark - floor 7. The boxes are normally categorized by equipment type (routers, switches, blades, etc.), and remain in the storage area until ready for use.

3. When an NCC Engineer needs equipment, he/she will remove it from inventory and complete the configuration process. When the equipment is ready to be shipped for deployment, the engineer will affix a Cook County Asset Tag and complete an Inventory Transfer Form or ITF. The ITF must contain the following information: the model and serial number of the device, the date it is being shipped, the name and location of the agency it is going to, the IP address of the device and the name of the engineer. The ITF is given to the Operations Manager where she enters all of the recorded information into an access database titled "Equipment Inventory".

4. The engineer creates a Work Order, requesting Central Services to install the device at the location listed on the ITF, which is included on the work order. Once the equipment is installed, the installer will contact the NCC engineer and verify the device was successfully installed.

5. If a device needs to be replaced due to hardware failure, an engineer will repeat steps number 3 and 4. In addition, the engineer will also create a work order requesting the installer to remove the defective device and return to the NCC. The ITF for the defective device is given to the Operations Manager. Once received, the Operations Manager finds the device in the Equipment Inventory database, removes the name of the agency the device was originally assigned to and marks "DEFECTIVE/RMA if under warranty or DEFECTIVE/SALVAGE if salvageable.

6. If a device falls under RMA, an engineer will open a Cisco TAC case and complete the process. If the device falls under savage, it is stored in the equipment room until ready to be disposed of.

Cook County NCC Operations Manual	Last Revision: 10/18/2020 10:42 AM
Section 3 – NCC Procedures	Last Revised by: D. Houston

Cook County NCC Escalation Procedures

Regular Business Hours:
When any of these situations occur:

1. One of the CCWAN major nodes is down
2. Two or more Municipalities are down
3. The Internet Firewall, City/County Firewall, *or E911 Firewall* is down

NCC Engineers are required to notify the Project Manager (Jeremy Boscaccy) and Operations Manager (Deborah Houston) of the situation. If services are impacted over 1 hour, the Director (Fitz Miller) is to be notified. If neither the PM,OM nor the Director can be reached, NCC Engineers are required to notify the County CTO (Ron Fiala). "Down" in this context means users' can't traverse the WAN to reach a destination or can't perform their work-related tasks. Subsequent status updates will be provided as determined by the course of events but no longer than one hour will elapse without an update being provided to management.

2nd/3rd/Weekend & Holiday Shifts:
If any of these aforementioned "down" situations occur on the 2nd, 3rd, or Weekend & Holiday shifts, then the NCC engineer taking the call is required to notify the Operations Manager of the situation.

If Deborah does not respond within 20 minutes, then the NCC Engineer must escalate and notify the Project Manager (Jeremy Boscaccy) of the situation.

Once management has been notified, then the NCC Engineer must provide status back to him/her at the 1-hour interval and then hourly or sooner if necessary.

Also at the 1-hour mark, Deborah and/or Jeremy will notify Fitz with a status of the situation. *However, if more than one major node is down at the same time, Deborah/Jeremy will notify Fitz immediately and not wait for the 1-hour mark.* Notification to Fitz will continue at one-hour intervals or sooner if necessary, until the problem is corrected. Fitz will be responsible for notifying CTO and CIO of the situation as necessary.

Cook County NCC Operations Manual	Last Revision: 10/18/2020 10:42 AM
Section 3 – NCC Procedures	Last Revised by: D. Houston

Customer Service Call Procedures
Sentinel/Cook County NCC

All calls coming into the NCC on the 2nd, 3rd, and Weekend/Holiday shifts and which meet the NCC Escalation Criteria require that a ticket be opened with Sentinel's Customer Service Center (CSC). By opening a call with CSC, it will automatically alert management of the outage if it goes on for more than 2 hours and allow Sentinel to tabulate statistics on the quality service.

Please follow these instructions to open a service call.

- Call 800-860-8102.
- The CSC tech will ask you several questions. The account name on the system is Sentinel/Cook County NCC They will want the phone number for the NCC. Use the main number, 312-603-9000. This number will bring up all the information we have set up on the system for Cook County NCC.
- Your name and phone number where you can be reached.
- Type of equipment that is failing.
- Serial number if you have it. Not mandatory.
- What is the problem you are experiencing?
- They will ask who is going to be taking the service call. Tell them it will be you taking the call. They will ask for your employee number.
- Tell CSC whether you are working remotely or are onsite.

After you provide this information, you will receive a page on your Sentinel pager with the call number and all pertinent information. At this time you do not need to do anything with CSC regarding this ticket. Continue with your troubleshooting. At the same time, Idris will be paged and informed by the CSC of the outage. If Idris does not respond, then the CSC will page Jon Rimkus, then Steve Sansone, etc. until someone in management responds.

When you have resolved the issue, you will need to call the CSC back and close the ticket. They will ask for the call number, which you will have on your pager. They will then ask you a few questions. You are done at this point.

If you have not closed the ticket after two hours or provided a status to the CSC, you will be paged and required to call in with a status. If you don't respond, the internal escalation tree will start. When you call in with status, if the problem is not resolved, you can place this ticket as still in-progress, which will start another 2-hour window. Once again, CSC will ask you several questions.

Cook County NCC Operations Manual **Last Revision: 10/18/2020 10:42 AM**
Section 3 – NCC Procedures **Last Revised by: D. Houston**

NCC TROUBLE TICKET PROCESS

The NCC uses a Countywide Database to record all calls received and problems worked. The database is referred to as Cherwell and managed by Office Technology.

All calls received at the 9000 number or out of hours must be logged into this system. Tickets should not be opened to document work on projects that are not in production. At the request of management, a ticket may be opened as an "Informational" ticket and it should be stated in the ticket what it is for and why it is being opened.

Upon entering the system, the user will get a blank trouble ticket form to complete. The Cherwell Case number, also referred to as the ticket number in general conversation, will be assigned sequentially by the database.

This system is THE most important tracking tool the NCC has to document the day-to-day work and problems that are resolved. As such, it must contain accurate, concise, and timely information. The descriptions of how tickets were worked should show the thought process, the reasoning, the why behind the steps being taken and not just the actions that occurred. Each Trouble Ticket is the fact of how a call was worked. If something is not documented in the ticket, then it may as well not have occurred. And, the way events transpired in the ticket is the way they occurred. Verbal differences carry no weight. Because of the emphasis placed on the Trouble Ticket System, all persons involved with the resolution of a ticket are instructed to add their input to a ticket.

The NCC has a goal of closing all tickets within 2 hours. When this is not possible, perhaps because of dispatch consideration or waiting for other tech staffs to do work necessary to troubleshoot the problem, then it should be noted in the ticket that it is on-hold. The ticket picks up on the next activity associated with it. Tickets left open pending verification by a user need to be followed up on by the person who opened the ticket. All tickets need to be closed at some point.

Tickets are reviewed daily by the Operations and Project Managers, (independent of each other, not in a meeting). Tickets for the past week are reviewed weekly at the NCC Team Meeting and again at the weekly Management Meeting..

Cook County NCC Operations Manual **Last Revision: 10/18/2020 10:42 AM**
Section 3 – NCC Procedures **Last Revised by: D. Houston**

NCC TROUBLE TICKET FIELD DEFINITIONS

Cherwell Number:	Auto-generated sequential number
Requestor:	Person that placed the call
Location:	Address of the person that placed the call
Call Source:	How NCC received the call, phone, email, fax, etc..
Owned By:	NCC Team an Engineer assigned to
Record the Details:	Provide a brief description of the call
Service:	Type of service needed
Category:	The device that needs attention
Subcategory:	Work to be performed
Journal:	This is where you would add narrative on the ticket. Document all work on a ticket as this is considered the definitive source document.
Resolve Now:	Too close the ticket
Resolution:	Brief statement of what the problem was and it's solution
Cause:	Root cause of the incident

Cook County NCC Operations Manual **Last Revised: 10/18/2020 10:42 AM**
Section 3 – NCC Procedures **Last Revised by: D. Houston**

NCC Project (Work Order) Completion Process

1. The Project Manager and/or Operations Manager assigns a Project (Work Order) to an NCC Engineer.

2. The Project Manager creates a record in the NCC Project Inventory and keys it with the Project Number from the NCC Project Initiation Form. The Project Status is updated continually until the project is completed.

3. The NCC Engineer researches the project and determines what will be required to complete it.

4. If there are issues that prevent the NCC Engineer from completing the project, they need to be brought to the Project Manager. These might be equipment needs, resource needs, priorities, or any number of issues. Jointly, the NCC Engineer and Project Manager will determine what needs to be done to resolve the issue and how it will be resolved.

5. As issues are resolved, the NCC Engineer completes the project.

6. If a Team Review is required, it should be held as soon as the Engineer is ready to implement the solution but BEFORE the actual deployment to allow for improvements in the solution that might come out of the review.

7. When the project is completed, the NCC Engineer sends a memo (either hardcopy or email) to the Client Contact that the job is completed. This notification includes all information necessary for the client to proceed (such as subnet information). A copy is also sent to the NCC Project Manager.

8. The NCC Engineer is required to provide the following as it applies to each project:

    a. Accurate and descriptive information where applicable in the switch configurations and on the routers so that anyone on the device can understand its purpose.
    b. Completing a Switch Checklist for each switch being deployed (store with your Project Initiation Form)
    c. Updating the IP Addressing Database and the Revised IP Addressing spreadsheet with new subnets or changes to subnets when they occur
    d. Updating the Equipment Received List when equipment is deployed or when it is returned to the NCC
    e. Updating the Circuit ID database whenever adds or deletes or changes to circuits occur

f. Creating a Visio diagram whenever a new site is added to the WAN
g. Adding new contact information to the contact lists for a site or a Municipality if this is a new location.

9. The NCC Project Manager marks the project as "COMPLETED" in the project inventory. A project is not completed until all required documentation is finished and the client has been notified.

   Keep the original request, any supporting documents, and the client notification memo in your files for future reference. Additionally, a folder must be created on the K: drive for the specific project documentation to be stored for future reference by NCC Engineers and others.

Before a site gets put on to the WAN, you need to ask for the following information:
1. The new site address
2. Department information
3. Number of users
4. Security assessment
5. Actual plan of implementation - IP addressing, the router from which the new site's router comes off of, the bandwidth, and expected date of completion.

Once the site is complete, they need to provide the following information:
1. Notice of completion
2. Any changes from information given previously before the implementation
3. Any unfinished items or items which require special attention which NCC needs to know.

It's extremely important that each Network Engineer give you all this information beforehand due to security risks. We need to make security assessments before any new site gets put on to the WAN.

Cook County NCC Operations Manual **Last Revision: 10/18/2020 10:42 AM**
Section 3 – NCC Procedures **Last Revised by: D. Houston**

Adding Remote Nodes to the WAN

A Remote Node is any location connected via a T1 to one of the Major Nodes of the WAN. Remote Nodes include Municipalities, Clinics, or County facilities such as Forest Preserves, Adult Probation, etc.

Municipalities must sign an Inter-government agreement in order to ride the WAN. This agreement will be taken care of by the CIO office. Municipalities pay for the T1 installation, the network equipment required to provide connectivity, and an annual fee for T1 Carrier Coordination (by ATT) and WAN Support (by the NCC)

Clinics and County facilities do not need an Inter-governmental agreement nor are they charged for the T1, the equipment or the support services.

The Process

1. A written request is required from the end user department to add a Remote Node to the WAN. The CIO or Director must give verbal approval and it should be noted on the request when the approval was given.

2. If required, verify that the Inter-government agreement has been signed. In cases where it is required, no work should begin until the IGA is signed. Also, verify that the Municipality has paid the CIO for access and equipment.

3. At this point, an NCC Engineer should be assigned to own and work this request as a project.

4. Conduct a Site Survey to verify the operating environment at the site and the T1 extension point. Also determine which Major Node the Remote Site will connect to. Verify that the router at the Major Node has an available interface to connect the CSU. Municipalities connect to Router 3. Others connect to Router 1 or Router 2.

5. Order the T1 at this point. The T1 should run from the Remote Node to the nearest Major Node. ATT will need to be informed as to where at each location the T1 needs to be extended to.

6. If this is a Municipality, then place an order through the Kathy Cline (Network Informity) for the "Standard Municipality Package". This pre-set configuration consists of a router with T1 card, 24-port switch, cat5 cables and CSO. It also includes installation and post support.

7. All equipment should be pulled from the NCC inventory or place an order to acquire the equipment. Central Services will install the equipment at clinics and County facilities. The NCC Engineer is responsible for installing equipment at the Municipalities.

8. The NCC Engineer assigned to the project is responsible for installation status but also must work on the equipment. This involves configuring the router and switch for installation, reserving an interface on the Major Node router, creating a

subnet and seeing that the circuit connected at both ends prior to turn-up. When the equipment is ready to ship, the NCC Engineer writes up a PON and ships it with the equipment over to the warehouse for installation.

9. Once the equipment has been installed at the Remote Node, the NCC will test for connectivity. All connectivity must test clean before the site can be considered good to go. Notification is then sent to the end user department.

Cook County Network Control Center

MEMORANDUM

TO: [Insert Department Contact & Department Name]

FROM: [NCC Engineer], Network Control Center

DATE: [Date]

SUBJECT: **IP ADDRESS RANGE FOR [DEPARTMENT] AT [LOCATION] – [FLOOR NUMBER, LEVEL NAME, or ROOM NUMBER]**

The switches that were requested by your department have been installed at [Location] and the IP Address Range for the [Floor Number or Level Name] are listed below:

Main Level

Dynamic (For Users):	[Dynamic Range]
Static (For Printers and Servers):	[Static Range]
Default Gateway:	[IP Address]
Subnet Mask:	[Subnet Mask]

[Additional Ranges if more than one Floor or Level has been installed]

****If the agency falls under Office of the President, make sure you cc: members in Office Technology****

SAMPLE *** SAMPLE *** SAMPLE *** SAMPLE *** SAMPLE *** SAMPLE *** SAMPLE ***

WAN INFORMATION TECHNOLOGY

MEMORANDUM

TO: Derek Thomas, Assessor's Office

FROM: Deborah Houston, Network Control Center

DATE: December 3, XXXX

SUBJECT: **IP ADDRESS RANGE FOR ASSESSOR'S OFFICE AT MARKHAM COURTHOUSE – MAIN LEVEL AND UPPER LEVEL**

The switches that were requested by your department have been installed at Markham Courthouse, and the IP Address range for the main level and upper level are listed below:

Main Level

Dynamic (For Users):	10.128.98.1 to 10.128.98.13
Static (For Printers and Servers):	10.128.98.14 to 10.128.98.22
Default Gateway:	10.128.98.27
Subnet Mask:	255.255.255.224

Upper Level

Dynamic (For Users):	10.128.98.33 to 10.128.98.45
Static (For Printers and Servers):	10.128.98.46 to 10.128.98.54
Default Gateway:	10.128.98.59
Subnet Mask:	255.255.255.224

****If the agency falls under Office of the President, make sure you cc: members in Office Technology****

Checklist for Adding Switches at the Closet/Access Layer

Approved Version: 4/18/03

Step	Description	Done
1	Department Name and Contact:	
2	New LAN or Addition to Existing LAN ? (Circle one)	
3	Site Survey Required ? Yes or No (circle one) Enter date conducted ---------->	
4	Equipment Required (circle): *Switch Router WICs DSUs*	
	If this is a new LAN, do Steps 5 - 14, otherwise skip to Step 15	
5	IP Range assigned to this LAN: ___.___.___.___ **NOTE: All changes to existing subnets must be approved by Deborah Houston, Subnet Administrator**	
6	WAN Static IP address assigned to this device ___.___.___.___	
7	Switch configured using NCC Standard Configuration (check when completed) Switch IP Address ___ Subnet Mask ___ Rtr 1 Interface ___ Rtr 2 Interface ___ Default Gateway ___ No Shut ___ ISL ___ 5500/2900 Port ___ Password ___ SNMP (read only) ___ Console Password ___ Host Name ___ Description ___ Spanning Tree Default ___ Port Fast ___ Memory Saved ___ Comments _____	
8	Router Interface configured	
9	ISL or VLAN # configured on the "big" switch at the site	
10	Network Statement for this subnet added in the router.	
11	Range set in the DHCP server	
12	IP Addressing Database updated for this subnet	
13	Department and subnet assigned in the Revised Countywide IP Spreadsheet	
14	Go to Step 18	
	If this is an addition to an existing LAN, do steps 15-17	
15	Department's IP range found in the Countywide Revised IP Addressing DB	
16	WAN Static IP address assigned to this device ___.___.___.___	
17	Switch configured using NCC Standard Configuration (check when completed) Switch IP Address ___ Subnet Mast ___ Rtr 1 Interface ___ Rtr 2 Interface ___ Default Gateway ___ No Shut ___ ISL ___ 5500/2900 Port ___ Password ___ SNMP (read only) ___ Console Password ___ Host Name ___ Description ___ Spanning Tree Default ___ Port Fast ___ Memory Saved ___ Comments _____	
18	Asset tags on the switch, Serial Number, IP address, Department, and Location added to Equipment Received List	
19	PON completed with any instructions for the installers to connect to the network. ON ALL PON's, LEAVE INSTRUCTIONS FOR THE INSTALLER TO CALL YOU WHEN THE SWITCH IS INSTALLED (INCLUDE YOU DESK PHONE NUMBER)	
20	Switches boxed and ready for shipping	
21	Original PON filed in the WAN Work Order Binder and log book completed	
22	Notify Bob Z. that the switches are ready for pick-up (Downtown switches remain at the NCC, all others are picked up for transport to the warehouse on Mondays)	

Engineer: _____ Date Completed: _____

Checklist for Adding Switches at the Closet/Access Layer Approved Version: 4/18/03

23	If **1 week** has gone by since the switches were picked up and you have not received a call that job is complete, contact either Tom Quinn (773-843-4916) or Bob Zemke (312-603-0662) or notify Deborah.	
24	Installation confimed, switch is pingable, telnet to switch verified	
25	If this is a new LAN, IP notification memo completed.	
26	IP Notification memo sent over to the department contact. A copy should be sent to Office Technology if they provide desktop support to the agency.	
27	Checklist completed, turn in to PM	

Engineer: _____ Date Completed: _____

Switch Data Sheet
(Checklist Page 2)

10/18/2020 10:43 AM

Switch IP Address	
Subnet Mask	
Router 1 Interface	
Router 2 Interface	
Default Gateway	
No Shut	
ISL	
5500/2900 Port	
Password	
SNMP (read only)	
Console Password	
Host Name	
Descriptions	
Spanning Tree Default	
Port Fast	
Memory Saved	
Other Comments	

Cook County NCC Operations Manual	Last Revision: 10/18/2020 10:43:16 AM
Section 3 – NCC Procedures	Last Revised by: D. Houston

The following are procedures that the Network Control Center will take when the United Stated Department of Homeland Security elevates the Terrorist Alert status to SEVERE or greater:

- Cook County IT organizations will be notified via email that the NCC is instituting heightened security procedures.
- No one requesting admittance to the WAN Equipment Rooms at the Downtown Campus or the Suburban Nodes to work on data equipment will be allowed access until their need to be there and access to these rooms can be verified by a management representative of the NCC. A member from the NCC or BOT Management Team must be contacted to verify authorization.
- Vendor access to WAN facilities in the Downtown Campus and the outlying Nodes will be restricted. No vendors are to be allowed into the WAN Equipment Room at any of these sites unless accompanied by a member of the NCC or approved representative.
- The NCC will check logs on a scheduled basis throughout the SEVERE Alert period to watch for suspicious behavior. Among the surveillance steps being instituted are to check (once per shift) for hacking attempts at the network access points, monitoring VPN usage, and checking other logs as deemed appropriate to look for suspicious activity. Also during a SEVERE alert period, requests for opening ports on the firewall will be suspended unless submitted in writing by a County IT director and approved by the Chief Information Officer.

Cook County NCC Operations Manual	Last Revision: 10/18/2020 10:43:28 AM
Section 3 – NCC Procedures	Last Revised by: D. Houston

TROUBLE SHOOTING PROCEDURES

Answer the phone as follows:
"Network Control Center, [Name] speaking"

Get the name, phone number and location of the person calling, also the County department (like Sheriff, State's Attorney, etc.)

ASK QUESTIONS REGARDING THE OUTAGE.

IS ONLY ONE DEVICE AFFECTED?
HAS ANYTHING BEEN CHANGED or INSTALLED RECENTLY?
WHAT ERROR ARE THEY RECEIVING?
ARE THEY LOGGED ONTO THE NETWORK?

KEYWORDS TO LISTEN FOR:
"Commissioner", "firewall", the name of an Elected Official; a doctor, a Police Department, E911, one of the eight network nodes, VPN or RAS.

If you hear any of these keywords, then this trouble ticket MUST be treated with the highest priority. For example, if a doctor can't remotely access a server on a weekend, it's a HIGH PRIORITY. This is regardless of whether of not the Bureau of Health Services indicates the issue can wait or that the doctor is not longer attempting to gain access; it must be investigated NOW!

GENERAL TROUBLE SHOOTING

Q&A DIRECTED TO THE USER:

ARE YOU THE ONLY ONE NOT CONNECTING?
ARE THEY ON THE CORRECT SUBNET?
DO THEY HAVE THE CORRECT GATEWAY AND MASK?
WINDOWS NT DOS PROMPT IPCONFIG/ALL
WINDOWS 95 DOS PROMPT WINIPCONFG
IPCONFIG\ RELEASE
IPCONFIG\ RENEW

CAN YOU PING DEVICES NEAR YOU?
CAN YOU PING YOUR GATEWAY?
CAN YOU PING 10.128.51.100 (ACROSS THE ROUTER)?
WHAT LIGHTS ARE ON THE DEVICE (NIC CARD)?
ASK IF THEY ARE CABLED INTO THE SWITCH (NEW PC ADDED)?
ASK FOR THEIR MAC ADDRESS. TELNET TO THEIR SWITCH AND FIND THE PORT ON THE SWITCH THEY ARE CABLED INTO. IS THAT PORT FAILING?

TROUBLESHOOTING Q&A FOR THE NCC ENGINEER TO CONSIDER:

IF SEVERAL PCS IN SAME AREA ARE OUT then ASK IF THEY CONNECTED INTO THE SAME SWITCH AND IF THE SWITCH HAS FAILED (no green lights)

HAS THERE BEEN A POWER OUTAGE?
IS THE ROUTER or SWITCH POWERED ON?
DO THEY SEE ANY AMBER LIGHTS ON THE ROUTER
HAS THE CSU BEEN REBOOTED and WHAT LIGHTS ARE ON?
HAS ROUTER (REMOTELY) or the SWITCH BEEN REBOOTED?

CAN SOMEONE ON SITE PUSH IN CABLE CONNECTED TO THE SMART JACK (IT MIGHT BE LOOSE)?

HAS THE CORRECT CABLE BEEN USED (STRAIGHT or CROSS OVER)?

IF IT IS NOT OBVIOUS WHAT THE PROBLEM IS, ACCESS THE TROUBLE TICKET DATABASE. GO INTO THE DATABASE PORTION AND DO A FIND NEXT FOR THE SITE THAT IS HAVING THE PROBLEM TO SEE IF THEY'VE EXPERIENCE THIS BEFORE. OR FIND SIMILAR PROBLEMS INVOLVING THIS TYPE OF EQUIPMENT BY SEARCHING FOR IT OR SEARCHING FOR SIMILAR SYMPTOMS. *CAUTION: DON'T LET A PREVIOUS PROBLEM MISLEAD YOU AND OVERRIDE WHAT YOU ARE SEEING ON THIS PARTICULAR TROUBLE!*

ROUTER TROUBLESHOOTING

HAS THE INTERFACE BEEN TURNED UP (NEW SUBNET)?

IS THE INTERFACE UP / UP or UP / DOWN or DOWN / DOWN?
IS THE CIRCUIT BOUNCING OR DOWN?
ASK THEIR IP ADDRESS AND THE ADDRESS THEY ARE TRYING TO REACH.
TRACE ROUTE TO DESTINATION AND FIND POINT OF FAILURE

TELNET TO THE LAST ROUTER AND CHECK THE ROUTING TABLE
TELNET TO THE SWITCH ON THEIR SUBNET & TRY PINGING A REVERSE ROUTE
CHECK THE ROUTER and SWITCH LOG FOR ERRORS

IS FORWARDING CONFIGURED ON THE ETHERNET INTERFACE?
HAS A SCOPE BEEN ESTABLISHED AND ACTIVATED ON THE DHCP SERVER

FIREWALL TROUBLESHOOTING

CAN YOU PING A DEVICE OUTSIDE THE FIREWALL?

CAN YOU PING FIREWALL ITSELF?
CHECK OTHER DEVICES SUCH AS ROUTERS 1 AND 2 OR TACACS
VISUALLY INSPECT THE FIREWALL BOX IF THAT IS POSSIBLE OR HAVE SOMEONE AT THE SUBURBAN SITES INSPECT IT IF IT IS OUT THERE
CHECK THE EQUIPMENT THAT FEEDS INTO THE FIREWALL FOR ANY ABNORMAL FUNCTIONS
IS THERE ANY RESPONSE FROM THE CONSOLE?
CAN YOU START AND RESTART THE FIREWALL?
ARE THERE RULES IN THE CHECKPOINT RULES BASE RELATED TO THE SITE HAVING THE PROBLEM?

INVOLVING ATT

ATT HAS BEEN CONTRACTED TO PROVIDE MAINTENANCE ON THE CIRCUITS IN THE NETWORK. CISCO TAC PROVIDES ASSISTANCE WITH THE CORE EQUIPMENT. CIRCUIT ISSUES ARE CALLED IN TO THE ATT SERVICE CENTER.

IN ALL CASES, ATT HAS COMMITTED TO A 2-HOUR RESPONSE TIME.

ATT SERVICE CENTER:

ATT WILL TEST THE CIRCUIT AT THE NCC REQUEST. IF THE RESULTS ARE CLEAN, FOCUS ON THE EQUIPMENT AT BOTH ENDS OF THE CIRCUIT. IF ATT DECLARES A CIRCUIT ISSUE, THEY SHOULD IDENTIFY WHERE THEY SEE THE PROBLEM AND ACKNOWLEDGE A DISPATCH IS GOING TO TAKE PLACE. WITHIN AN HOUR OF THE DISPATCH BEING ACKNOWLEDGED, THEY SHOULD PROVIDE AN ETA.

IF ONE HOUR HAS PASSED AND NO ETA HAS BEEN ESTABLISHED, CHECK BACK WITH ATT. IF THEY HAVE NOT SET AN ETA, CONTACT ATT AND ESCALATE THE ISSUE. UNTIL AN ETA IS ESTABLISHED, REPEAT THE CALL TO ATT AND CONTACT THEIR SERVICE EXEC. MANAGER CHARLES CLEMENT AT 708-755-7644.

ONCE ATT HAS BEGUN TO WORK ON A TRANSMISSION ISSUE, INSIST ON UPDATES EVERY 2 HOURS UNTIL THE PROBLEM IS CORRECT AND NOTIFICATION WHEN THE JOB IS COMPLETED. ***BE SURE TO LEAVE ACCURATE CONTACT INFORMATION WHEN CHANGING SHIFTS! MAKE SURE YOU UPDATE THE CHERWELL DATABASE*** WITH STATUS UPDATES AFTER YOU HAVE BEEN CONTACTED BY ATT.



DCSC Escalation Guideline and Contact List

ESCALATION NOTIFICATION PROCESS

The DataComm Customer Service Center (DCSC) strives to resolve a service outage on a timely basis. However, there are times when delays occur and it becomes necessary to escalate the delay(s) to higher levels of management. Escalations may be customer-initiated or DCSC employee-initiated.

If a customer feels a trouble condition is not being handled on a timely basis or feels the DCSC personnel are unresponsive; they can initiate the escalation process by calling **1-877-866-5622** and request their ticket be escalated to the next level of management to expedite the trouble restoration. The appropriate group to receive notification of escalation is Data Service Engineers.

Data Service Engineers are responsible and have access to any and all corporate resources available to customer's problem. Their mission is to provide a high quality solution to customer's problem in as expeditious a manner as possible.

ESCALATION GUIDELINES

For reference, the time frames associated with the escalation levels are:

Elapsed Time	Priority 1*	Priority 2*	Priority 3*	Priority 4*
1-Hour	Escalation Level 1			
2-Hour	Escalation Level 2	Escalation Level 1		
4-Hour	Escalation Level 3	Escalation Level 2	Escalation Level 1	
6-Hour	Escalation Level 4	Escalation Level 3	Escalation Level 2	
24-Hour	Escalation Level 5	Escalation Level 4	Escalation Level 3	Escalation Level 1
48-Hour		Escalation Level 5	Escalation Level 4	Escalation Level 2
72-Hour			Escalation Level 5	Escalation Level 3

Note: Priority 1 problem escalation times are measured in calendar hours 24 hours per day, 7 days per week. Priority 2, 3 and 4 escalation times correspond with Standard Business Hours



For reference, the definitions of priorities used by DCSC are:

PRIORITY 1: Outage affecting operation or performance of one customer's entire network or more than one customer network.

PRIORITY 2: Outage affecting more than one site of a customer, but less than the entire network and there is no alternate connectivity method such as dial back up.

PRIORITY 3: Outage affecting more than one site of a customer, but less than the entire network and there is alternate connectivity method such as dial back up.

PRIORITY 4: Network is operational but customer experiences performance issues.

DCSC ESCALATION CONTACT LIST

Level	Contact	Contact Information
1	Stephanie Beard Escalation Manager	312-382-5026 Office
2	Ronnie Wier Customer Service Manager	312-456-8624 Office
3	Brian O' Mahoney Technical Sales Engineer	312-364-3121 Office 312-213-2410 Cell
4	Jerome Taylor Assoc. Director - Service Mgt.	708-756-8820 Office 312-320-5115 Cell

Exhibit E – Network Agreements and Licenses

Suite Name	License Category	Product Name	License Feature	SKU	Requested Quantity	Quantity Delivered	Issued Date	Smart Account Name	Customer Suite Name	Device Name	Contract #	Fulfillment Type
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-PSPA-ENH-1	500	500	06/25/2020	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	500	500	03/25/2020	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	500	500	02/15/2020	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	1000	1000	02/06/2020	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	500	500	01/28/2020	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	1000	1000	11/20/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	1000	1000	11/01/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	1000	1000	10/23/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	1000	1000	10/18/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	1000	1000	10/18/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	1000	1000	09/30/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	500	500	09/26/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	500	500	09/13/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	1000	1000	09/09/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	500	500	09/04/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	500	500	09/04/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	500	500	08/30/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	500	500	08/19/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	500	500	08/09/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	500	500	07/09/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	500	500	07/09/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	200	200	06/26/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-ESS-11X	50	50	06/25/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	50	50	06/25/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-ESS-11X	1000	1000	06/11/2019	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	5000	5000	09/27/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-ESS-11X	2000	2000	09/27/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	3000	3000	09/27/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	3000	3000	09/27/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	08/21/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway - C	200889354	LICENSING

Suite Name	License Category	Product Name	License Feature	SKU	Requested Quantity	Quantity Delivered	Issued Date	Smart Account Name	Customer Suite Name	Device Name	Contract #	Fulfillment Type
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	08/21/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway - C	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	08/21/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway - C	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-AN-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPE	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-E-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPE	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPC	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPE	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-HCC	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPC	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-HCC	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-TURN-EA	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPE	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPC	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-HCC	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	08/17/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	HHSUCV07-SH-EXPE	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	EA-11X-TP-ROOM	50	50	08/16/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-AN-LIC	5000	5000	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-AN-LIC	5000	5000	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-AS-LIC	5000	5000	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-AS-LIC	5000	5000	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-ASSW-K9	1	1	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Prime Collaboration	Assurance/Analytics	ASW	ASW Version 11.x	EA-PC11-ASSW-K9	1	1	08/10/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-PC-EA2	DOCUCV01-118-PCA	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-AN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-AN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-AN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-AN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-E-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-E-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-E-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-E-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	CountyExpressway C-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING

Suite Name	License Category	Product Name	License Feature	SKU	Requested Quantity	Quantity Delivered	Issued Date	Smart Account Name	Customer Suite Name	Device Name	Contract #	Fulfillment Type
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-GW-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-4	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-RMS-EA	710	710	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	CountyExpressway C-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-SERIES-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-4	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-TURN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-TURN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-TURN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Options	EXP	Expressway E and C - Options	LIC-EXP-TURN-EA	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-2	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-4	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-2	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	CountyExpressway C-1	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-1	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway C-3	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-4	200889354	LICENSING
Unified Communications	Expressway E and C - Release Keys	EXP	Expressway E and C - Release Keys	LIC-SW-EXP-EA-K9	1	1	07/02/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	Expressway E-3	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	NA	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	ER-11X-EA-USR	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-ESS-11X	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	NA	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	LIC-EA-ESS-11X	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	NA	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCM-11X-EA-PRO	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	NA	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Version 11	UCXN-11X-EA-PRO	100	100	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Encryption License	LIC-EA-PLM-ENC-K9	3	3	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2	NA	200889354	LICENSING
Unified Communications	Call Manager - Unity Connection - Emergency Responder v.10 and above - Essential and TP Room	UCM	Unified Communications Encryption License	LIC-EA-PLM-ENC-K9	1	1	03/19/2018	COOKCOUNTYIL.GOV	COOKCOUNTY-UC-EA2		200889354	LICENSING

Exhibit F – Network Related Work in Progress

INITIATIVES - ADMINISTRATION BUREAU

Title.	DATE	DESCRIPTION	STATUS	REF #
VIDEO	20200507	WE ARE UPGRADING OUR VIDEO AND CABLE EQUIPMENT THAT IS IN THE NETWORK AND WE WANTED TO DETERMINE WHO ALL FROM YOUR TEAMS SHOULD BE INVOLVED TO HELP US WITH PLANNING AND CONFIGURATION IN THE NETWORK. THIS WILL INVOLVE BOTH CONNECTING IN-NETWORK DEVICES, AS WELL		202012801

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INITIATIVES - ASSESSOR

Title.	DATE	DESCRIPTION	STATUS	REF #
ASSESOR VZW NETWORK	20190721	CREATE A WIRELESS PRIVATE NETWORK OVER A VERIZON BACKBONE FOR ASSESSOR FIELD WORKERS.	12/30: SCHEDULE DESIGN MEETING WITH VERIZON 8/19 AT: ORDER ISR SECURITY LICENSE & BUILD GRE TUNNEL WITH VZW NETWORK 07/12/19-MET WITH VZW AND ASSESSOR TO UNDERSTAND BUSINESS USE CASE AND IDENTIFY BEST APPROACH.	201920202

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INITIATIVES - BOT

Title.	DATE	DESCRIPTION	STATUS	REF #
DMZ MIGRATION	20151101	DMZ MIGRATION. TRACK SSI DELVIERABLES TOWARD COMPLETION OF DMZ MIGRATION SCOPE. REMEDY ANY ISSUE TAGGED BY RICARDO CISO	2/24: INVESTIGATE SHERIFF TRAFFIC - WAIT FOR AVAYA PROJECT 12/2 AT - GIS VLANS REMOVED 10/26 AT - NO NEW MAJOR UPDATES 4/8 AT - NO NEW MAJOR UPDATES 8/13/18-AWAITING CCC AND GIS TO MIGRATE SERVER ENVIRONMENTS 2/1/16 - NCC WILL PICKUP AND COMPLETE	201530527
OS & FIRMWARE	20180124	CREATE AND MAINTAIN A MONTHLY PROGRESS REPORT ON CRITICAL AND HIGH CISCO O.S. AND FIRMWARE UPDATES	2/24: SCHEDULING 69W NEXUS FOR APRIL 12/2: DIV 6 NEXUS COMPLETE, SCHEDULING LAST PAIR OF NEXUS IN JAIL FOR DECEMBER. ACCESS LAYER SWITCHES FOR BRANCH COURT AND FPHQ 9/16 AT: BRANCH COURTS UP NEXT 8/19: NEXUS UPGRADES COMPLETE AT OAK FOREST AND 118 N CLARK. SCHEDULING	201802401

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INITIATIVES - CAPITAL PLANNING

Title.	DATE	DESCRIPTION	STATUS	REF #
OAK FOREST RELOCATE	20201006	OAK FOREST DEMOLITION PROJECT KICKING OFF. NEED TO ADRESS THE FOLLOWING: 1. NEW INTERENT EGRESS 2. NEW ALTERNATE DMZ 3. RELOCATE OF NON DMS DR SERVERS		202028001

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INITIATIVES - COUNTY CLERK

Title.	DATE	DESCRIPTION	STATUS	REF #
ELECTION NETWORK	20170401	DESIGN HIGH LEVEL NETWORK TO ENSURE QUALITY VERIZON WIRELESS NETWORK SOLUTION FOR NEW ELECTION SYSTEM.	2/24 AT: 1GB LINKS BETWEEN COOK AND VERIZON BACKBONE ORDER PLACED. 12/30 AT - NETWORK UP AND TESTED 12/2 AT - WAITING FOR TEST OF NEW ENVIRONMENT 10/28 AT - VERIZON CONTRACT APPROVED. CIRCUIT SHOULD BE ABLE TO BE ORDERED MID NOVEMBER.	201709103
CLERK VPN TO AZURE	20200706	CLERK REQUEST SITE TO SITE VPN TO AZURE FOR VDI	9/1/20: MET WITH CLERK TO GATHER REQUIREMENTS. ADVISE CLERK TO RUN THROUGH THE PROJECT REQUEST WITH ISO FOR APPROVAL.	202018801

INITIATIVES - ENTERPRISE

Title.	DATE	DESCRIPTION	STATUS	REF #
6509 --69 W MIGRATION	20151109	MIGRATE ALL INTERFACES OFF OF THE 6509 AT 69W	12/30 AT: BEACH STREET READY FOR TURN UP 12/2 AT: GIS DECOMISSIONED - AVAYA TARGET DATE MARCH 2020 8/26 AT - GIS AND AVAYA INTERFACES VLANS REMAINING. 8/19 AT - LAST INTERFACE REMAINING ON 6500 IS GIS OLD DMZ NETSCALER. CANNOT	201531306
SONET & CABS MIGRATION	20151110	DEVELOP & EXCUTE PLAN FOR MIGRATION FROM SONET TO ETHERNET BACKBONE LEVERAGING COUNTY OWNED 10G LINKS	12/2 AT - MEETING WITH MOUNT PROSPECT AND BARRINGTON TODAY 9/16 AT - SKOKIE MIGRATED TO ICN 8/26 AT - ORDERING SDWAN FOR FOREST PRESERVE SITES 8/19 AT - SKOKIE SCHEDULED FOR EARLY SEPTEMBER FOR MIGRATION. 7/15 AT - FOCUSING ON SKOKIE OC3, FEW	201531403
OBSOLETE EQUIPMENT	20161229	FOLLOW UP ON QUOTE FOR REFRESH OF OBSOLETE NETWORK EQUIPMENT. 2017 CAPITAL ALLOMENT NEEDS TO BE PRIORITZED FOR OBSOLETE UNSUPPORTED EQUIPMENT	2/24 AT: ORDER FOR FIREWALLS, CERMAK SWITCHES, AND PAIR OF 9400S. 12/30 AT - INTERNET FW, 4500X, 6500, 7600 10/28 AT - ORDER REQUEST SENT TO CDW 8/26 AT - PLACING ORDER THIS WEEK FOR 9400, ADDITIONAL SWITCHES, AND EXTRAS	201636407
U.C. IMPLEMENTATI	20170706	IMPLEMENT ENTERPRISE UNIFIED COMMUNICATIONS CISCO TELEPHONE SOLUTION.	7/15 AT - ORDER IN PROGRESS FOR 8/19 AT - MAYWOOD AND CICERO WAREHOUSE COMPLETE 7/1 - SCHEDULING MAYWOOD AND FP HEADQUARTERS. 6/17 - JAIL CAMPUS COMPLETE, WORKING ON UPCOMING SCHEDULE 6/3 AT - JAIL CAMPUS SCHEDULED FOR 6/7 4/29 AT - WAITING ON DATES FOR JAIL	201718702
INTERNET EDGE AND	20171010	1) UPGRADED INTERNET EDGE WITH NEW HA CISCO ASR ROUTERS AT 69W AND OAK FOREST. 2) REMIDATE NEXUS 7K 3) MIGRATE OPTEMAN HEADEND FROM 6500 TO N7K 4) OSPF AND ROUTING CHANGES FOR JTDC	9/1/20: NET PAHSE IS ASA REPLACEMENT AT OAK FOREST 12/30 AT - DESIGN MEETING SCHEDULED FOR 1/14 9/30 AT - FULL ROUTING TABLE MAINTENANCE COMPLETE 9/16 AT - NEXT SCHEDULED WINDOW FOR 9/29 TO IMPLEMENT FULL ROUTING TABLES	201728301
6509 - MAYWOOD	20171228	RETIRE THE MAYWOOD 6509 AND REPLACE WITH CISCO 9400	4/27: MKCH, MAYWOOD, 2/24: SKCH COMPLETE 1/27 AT - DATE SCHEDULED FOR 2/2 1/6 AT - STAGING 9400, WORKING ON DATE 8/26 AT - ORDERING PAIR FOR SKCH 6/17 AT - RMCH IS COMPLETE, WE WILL ORDER NEXT PAIR FOR IMPLEMENTATION	201736201

INITIATIVES - ENTERPRISE

Title.	DATE	DESCRIPTION	STATUS	REF #
QUALITY CONTRO;L	20180102	INSTITUTE QUALITY CHECKLISTS IN THE PROVISIONING AND DEPROVISIONING OF NETWORK ELEMENTS. INCORPORATE PROCESS STEP OF MANAGERIAL REVIEW OF ENINGEER WORK (SUCH AS UPDATING ELEMENTS IN MANAGMNENT TOOLS - SOLARWINDS, CISCO PRIME, INVENTORY	2/24 AT: WIRELESS AP NAMING 1/27 AT - DECOM PROCESS 12/2 AT - INTERFACE MONITORING ON CHECKLIST 8/19 AT- UPDATE WIRELESS AP NAMES 6/24 AT - UPDATE CHECKLIST WITH INTERFACE BW ONBOARDING 6/17 AT - NAMING CONVENTION, CLEAN UP	201800202
9300S + F5	20180406	REPLACE AGING INSIDE F5 LOAD BALANCERS AND RETIRE THE EDGE ISP LOAD BALANCERS IN FAVOR OF BGP ROUTING	9/1/2020: TARGETING JANURARY 20201 8/19 AT - SCHEDULE F5 UPDATES 7/15 AT - MEETING WITH F5 THIS WEEK TO REVIEW UPGRADE PLAN 7/1 AT: NEED TO SIGN UPDATED SOW FROM F5 TO MOVE FORWARD. 6/3 AT: SCHEDULE UPGRADE FOR INTERNAL F5S	201809601
IPTS ENSONO	20181031	PROVIDE NETOWRK SUPPORT FOR IPTS HOSTING ENVIRONMENT AT ENSONO	9/1/20: ENSONO AWAITING FINANCIAL APPROVAL FROM DERRICK 2/24 AT: REACH OUT TO ENSONO PM SUMEET FOR SITE TO SITE VPN. 6/24 AT- NO NEW UPDATES, AWAITING EQUIPMENT 6/10 AT: AWAITING EQUIPMENT FROM ENSONO	201830402
6509 - DVC MIGRATION	20200511	MIGRATE 6500 AT DOMESTIC VIOLENCE TO CISCO 9400 SERIES		202013201

INITIATIVES - ENTERPRISE

Title.	DATE	DESCRIPTION	STATUS	REF #
6509 - JTDC MIGRATION	20200511	RETIRE 6500 AT JTDC AND REPLACE WITH CISCO 9400'S		202013202
6509 - JAIL CAMPUS	20200511	MIGRATE REMAINING INTERFACES ON THE 6500 AND REMOVE EQUIPMENT AT JAIL CORE		202013203
6509 - DALEY CENTER	20200511	MIGRATE INTERFACES OFF OF DALEY CENTER 6509		202013204
6509 - MARKHAM	20200511	RETIRE 6509 AT MARKHAM AND REPLACE WITH CISCO 9400		202013205
6509 -CERMAK	20200804	MIGRATE OFF OF THE 6509 AT CERMAK HOSPITAL		202021701

INITIATIVES - ERP

Title.	DATE	DESCRIPTION	STATUS	REF #
EBS MIRATION TO OCI	20190610	ERP MIGRATING ORACLE SUITE OF EBS APPLICATIONS TO OCI	2/24 AT: PRIMARY AND SECONDARY SITE TO SITE VPN ESTABLISHED 7/1 AT: PROJECT KICKOFF COMPLETE, NO NEW UPDATES 6/7/19-PROJECT KICKING OFF	201916101

INITIATIVES - HEALTH

Title.	DATE	DESCRIPTION	STATUS	REF #
CCPH BRIDGEVIEW	20201005	PUBLIC HEALTH MOVING FROM OAK FOREST TO BRIDGEVIEW COURTHOUSE		202027901

INITIATIVES - HIGHWAYS

Title.	DATE	DESCRIPTION	STATUS	REF #
HWY BW UPGRADES	20171217	MAINTENANCE DISTRICT 1 – 2325 MEACHAM ROAD (AT ALGONQUIN ROAD), SCHAUMBURG MAINTENANCE DISTRICT 2 – 2101 BALLARD ROAD, DES PLAINES MAINTENANCE DISTRICT 4 – 8900 W. 135TH STREET, ORLAND PARK MAINTENANCE DISTRICT 5 – 13600 SOUTH	12/30 AT: DES PLANES HW READY 8/5 AT - ORLAND PARK COMPLETE, SCHAUMBURG COMPLETE. DES PLANES CIRCUIT NOT FOUND, RIVER UNDER CONSTRUCTION. 7/1 AT: ROUTERS CONFIGURED, WORKING WITH HIGHWAY ON SCHEDULING INSTALL AND RE-IP.	201735101

INITIATIVES - HOSPITAL

Title.	DATE	DESCRIPTION	STATUS	REF #
LOGAN SQUARE	20171219	LOGAN SQR NEW FACILTIY 2ND HALF OF 2019	8/5 AT: MOVE IN DATE NOT UNTIL 2020 6/10 AT: AWAITING CONSTRUCTION	201735302
CCHHS EDGE REDESIGN	20180802	STROGER ASR IMPELEMTNAETION COUNTY MIGRATING OFF OF THE N7K TO THE CISCO 9300	9/1/20: JOINTLY DEVELOPED A PROJECT CHARTER WITH CCHHS TO DESCRIBE PRPGRAM DELIVERABLES AND END STATE 9/30 AT - CCHHS HAS PRESENTED END STATE DIAGRAM. WORKINGING WITH TEAM TO DEVELOP PLAN TO ACCOMPLISH THAT. 4/29 AT - NO NEW UPDATES	201821402
PHARMACY MOVE	20180924	MAIL ORDER PHARMACY MOVING OUT OF OAK FOREST AND INTO 2111 DIXIE HIGHWAY IN CHICAGO HEIGTHS	4/15 AT - OPTEMAN HEADEND MIGRATED, 11/4: NO NEW UPDATES 6/10 AT: NO NEW UPDATES 4/29 AT: CONSTRUCTION HAS NOT STARTED.	201826702
CERNER RHO PROJECT	20200626	CCHHS REQUESTING ADDITIONAL CIRCUITS FROM PROVIDENT TO STROGER FOR CERNER APPLICATION (OVER THE 10 GIG ONS BACKBONE		202017801
CCHS ASE CONVERSION	20200918	MIGRATING CCHHS OPETMAN AND CLNIC T1S TO ASE		202026203

INITIATIVES - ISO-INFO SECUR OFCE

Title.	DATE	DESCRIPTION	STATUS	REF #
ISO UPGRADES	20191104	ISO IS UPGRADING MULTIPLE APPLIANCES. ISO DOING UPDATE TO SEVERAL APPLIANCE IS THEIR STACK, INFLOBLOX, MCAFFEE, ISE ETC…	9/1/2020-	201930801
ISO 2FA	20200827	I WOULD LIKE FOR OUR TEAMS (ISO TEAM LED BY MIKE) TO BEGIN DISCUSSION ON RE-ESTABLISHING 2FA ON THE VPN INFRASTRUCTURE. I REALIZE THERE WILL BE A LOT OF COORDINATION, STAKEHOLDER NOTIFICATION AND COLLABORATION WITH AGENCIES AND THE HELP DESK TO MAKE THIS		202024001

INITIATIVES - OCJ

Title.	DATE	DESCRIPTION	STATUS	REF #
VIDEO CALLS SUPPORT PLAN 201920203 TO DEVELOP CONFIGURATION	20190721	1. BUSINESS USE CASE WITH A PROJECT ENGAGEMENT: • SIP DIRECTLY TO ANOTHER SIP VIDEO ENDPOINT. •	WE NEED TO ADDRESS THE FOLLOWING 12/23 AT - TESTING H323 INBOUND 9/30 AT - WORKING ON CONFIGURATION, USING A COUNTY VIDEO ENDPOINT, DIAL OUT OPERATIONAL SUPPORT PLAN 8/19 AT - INCLUDE H323 CODEC IN HAVING ANOTHER SIP VIDEO ENDPOINT DIAL 8/5 AT - CONFIGURE EXPRESSWAY FOR	12/30 AT: OPERATIONAL SRV RECORDS, AND NEED EXPRESSWAY

INITIATIVES - SAO

Title.	DATE	DESCRIPTION	STATUS	REF #
AZURE REDUNANCY	20200806	VIVEK LOOKING FOR REDUNANT CONNECTION TO AZURE-EITHER THROUGH EXPRESS ROUTE OR THROUGH REDUNDANT S2S VPN TUNNEL.	9/1/2020: MEETING WAS HELD WITH SHI TO DISCUSS EXPRESS ROUTE. AWATING PROPOSAL FROM SHI	202021903

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INITIATIVES - SHERIFF

Title.	DATE	DESCRIPTION	STATUS	REF #
DOC CAMERA PROJ PH 2	20170213	CW DOC CAMERAP PROJECT PHASE II	4/8 AT - NO NEW UPDATES	201704403
CISCO ISE	20190415	ENABLE CISCO ISE AT THE JAIL CAMPUS AT THE REQUEST OF CCSSO SECUIRT	114 AT: 1ST ROUGH DRAFT OF NETWORK ACCESS POLICY DEFINED. WORKING THROUGH EXPECTIONS. 6/10: PROJECT MANAGER HAS BEEN ASSIGNED, MEETING SCHEDULED FOR MID JUNE. 4/15/19-SUSCCESSFULLY TESTED IN LAB ENVIRONEMNT. NEED AN ESTABLISHED	201910501
MAYWOOD CAMERA	20190702	SUBJECT: CAMERA'S DEPLOYMENT AT MAYWOOD EXECUTIVE BLDG WE ARE PLANNING TO INSTALL 24 IP CAMERA'S AT MAYWOOD EXECUTIVE BUILDING. WE WANT TO ADD THESE CAMERA'S TO OUR ARCHIVER SERVERS IN MAYWOOD COURTHOUSE THUS	11/4 AT - NO NEW UPDATES 8/5 AT - AWAITING LIST OF CAMERA PLACEMENTS	201918301
CCSO VPN	20190924	CCSO EMPLOYEE VPN TRIAL. PROJECT TO INTEGRATE CCSO TO EMPLOYEE VPN SOLUTION	11/4 AT - WAITING FOR SHERIFF TO SCHEDULE MEETING, NCC TO FOLLOW UP 9/30 AT - NCC TO PROVIDE INTEGRATION STEPS FOR SHERIFF AD	201926701
S2S VPN AZURE	20200128	RE-ESTABLISH A SITE 2 SITE VPN TUNENLE TO AZURE AS BACK-UP	9/1/2020--HAVE BEEN EMAILING CCSO REQUESTING SCHEDULING.	202002801
COMMEND CENTER VIDEO	20200219	COMMAND CENTER IS LOCATED AT THE JAIL COMPLEX (2801 S. ROCKWELL). THE SHERIFF WOULD LIKE TO BE ABLE TO VIEW VIDEO FROM ALL OF ITS LOCATIONS AT THE SITE. THIS WOULD INCLUDE ALL COURTHOUSES AND JAIL DIVISIONS AND ANY OTHER COUNTY BUILDING THAT VIDEO IS AVAILABLE TO SEE.		202005003

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INITIATIVES - SHERIFF

Title.	DATE	DESCRIPTION	STATUS	REF #
CCSO NUTANIX	20200505	CCSSO WILL BE REPLACING OUR INFRASTRUCTURE WITH NUTANIX. THE KEY FACTOR HERE IS THE IP ADDRESS. OUR CURRENT IP SUBNET 10.122.X.X WAS ASSIGNED TO DCFS AND WE WERE TOLD NOT TO USE IT ANY MORE. THE NEW IP SUBNET WAS 10.130.X.X (I THINK).	9/1/30--DATA CENTER NETOWRK SWITCHING EQUIPMENT ON ORDER WITH CDW TO SUPPORT CCSSO' NUTANTIX ENIVORNMENT IN THE SOUTH CAMPUS DATA CENTER.	202012601
INTERVIEW ROOMS	20200615	LAST PHASE OF AXON UPGRADE ARE THE INTERVIEW ROOMS. THERE ARE 4 LOCATIONSL NEED CONNECTIVITY FOR MULTIPLE CAMERAS . THERE WILL BE TOTAL OF 8 SERVERS, 2 SERVING EACH LOCATION AND WILL UPLOAD INTERVIEW VIDEOS TO EVIDENCE.COM..		202016702
SHERRIFF DHCP	20200811	CLEAN UP DHCP AT MAYWOOD FACILTIY FOR CCSSO	9/1/30-PLANNNING SESSIONS UNDERWAY	202022401

INITIATIVES - TREASURERS OFFICE

Title.	DATE	DESCRIPTION	STATUS	REF #
TREASURER AZURE	20201013	THE TREASURERS OFFICE WOULD LIKE TO HOST 6-10 SERVERS\MACHINES ON AZURE. WHAT NEEDS TO BE DONE ON OUR SIDE TO HAVE THAT CONFIGURED. THANKS,		202028708

Exhibit G – Map of eight-county Chicagoland Region

Exhibit G -Map of eight-county Chicagoland Region



Exhibit H – Network Circuits

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
ASE	.KRFN.119830..LB	10220 S 76TH AVE		ENTERPRISE
ASE	.KRFN.121658..LB	10220 S 76TH AVE		ENTERPRISE
ASE	.KRFN.119833..LB	118 N CLARK ST		ENTERPRISE
ASE	.KRFN.124610..LB	12757 S WESTERN		HOSPITAL
ASE	.KQFN.142755..LB	1330 S 54TH ST	520 S FEDERAL ST	ELECTIONS - COUNTY CLERK
ASE	.KRFN.127806..LB	1330 S 54TH ST		ELECTIONS - COUNTY CLERK
ASE	.KRFN.119792..LB	1500 MAYBROOK DR		ENTERPRISE
ASE	.KRFN.119740..LB	15900 S CICERO AVE		ENTERPRISE
ASE	.KRFN.127678..LB	1645 COTTAGE GROVE		HOSPITAL
ASE	.KRFN.119834..LB	16501 KEDZIE AVE		ENTERPRISE
ASE	.KRFN.125454..LB	1800 S HARLEM		HOSPITAL
ASE	.KRFN.119788.LB	1901 W HARRISON ST		HOSPITAL
ASE	.KSFN.101063..LB	1901 W HARRISON ST		HOSPITAL
ASE	.KQFN.143049..LB	2101 BALLARD RD		HIGHWAYS
ASE	.KRFN.119796..LB	2121 EUCLID AVE		ENTERPRISE
ASE	.KRFN.121659..LB	2121 EUCLID AVE		ENTERPRISE
ASE	.KRFN.123863..LB	2121 W HARRISON ST	1340 W MONROE ST	ENTERPRISE
ASE	.KRFN.119850..LB	2245 W OGDEN AVE		ENTERPRISE
ASE	.KQFN.144400..LB	2325 N MEACHAM RD		HIGHWAYS
ASE	.KRFN.127593..LB	2424 5 PULASKI ROAD		HOSPITAL
ASE	.KRFN.119741..LB	2650 S CALIFORNIA AVE		ENTERPRISE
ASE	.KRFN.120565..LB	520 S FEDERAL ST	1330 S 54TH ST	ELECTIONS - COUNTY CLERK
ASE	.KQFN.147566..LB	530 W 18TH ST		CABS BILLING
ASE	.KRFN.119828..LB	555 W HARRISON ST		ENTERPRISE
ASE	.KRFN.124518..LB	555 W HARRISON ST		ENTERPRISE
ASE	.KRFN.119787..LB	5600 OLD ORCHARD RD		ENTERPRISE
ASE	.KRFN.121660..LB	5600 OLD ORCHARD RD		ENTERPRISE
ASE	.KQGN.128845..LB	69 W WASHINGTON ST	311 W WASHINGTON ST	ELECTIONS - COUNTY CLERK
ASE	.KRFN.123123..LB	69 W WASHINGTON ST		SHERIFF
ASE	.KRFN.127805..LB	69 W WASHINGTON ST		ELECTIONS - COUNTY CLERK

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
ASE	.KSFN.101031..LB	69 W WASHINGTON ST		ENTERPRISE
ASE	.KQFN.148772..LB	845 W 69TH ST		OCJ
ASE	.KQFN.144890..LB	8900 135TH ST		HIGHWAYS
ASE	.KRFN.125332..LB	901 E 26TH		SHERIFF
CABLE_ MODEM	19461854 DELUXE 75	738 THATCHER AVE		FOREST PRESERVE DISTRICT
DS1	.DHZA.019291..LB	10220 S 76TH AVE	13840 S CICERO AVE	CABS BILLING
DS1	.DHZA.019855..LB	10220 S 76TH AVE	8659 S WESTERN AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.168580..LB	10220 S 76TH AVE	2650 S CALIFORNIA AVE	SHERIFF
DS1	.DHZA.249922..LB	10220 S 76TH AVE	8255 WILLOW SPRINGS RD	CABS BILLING
DS1	.DHZA.285050..LB	10220 S 76TH AVE	13500 ROLLS RD	HIGHWAYS
DS1	.DHZA.313644..LB	10220 S 76TH AVE	13700 110TH AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.382155..LB	10220 S 76TH AVE	8800 W 87TH ST	CABS BILLING
DS1	.DHZA.383376..LB	10220 S 76TH AVE	7700 S COUNTY LINE RD	CABS BILLING
DS1	.DHZA.394093..LB	10220 S 76TH AVE	7112 111TH ST	CABS BILLING
DS1	.DHZA.513279..LB	10220 S 76TH AVE	13500 ROLLS RD	HIGHWAYS
DS1	.DHZA.550784..LB	10220 S 76TH AVE	14600 S 127TH ST	CABS BILLING
DS1	.DHZA.597613..LB	10220 S 76TH AVE	4200 LAWNDALE AVE	CABS BILLING
DS1	.DHZA.699879..LB	10220 S 76TH AVE	2440 WALTERS ZIMNY DR	CABS BILLING
DS1	.DHZA.773197..LB	10220 S 76TH AVE	6533 PERSHING RD	CABS BILLING
DS1	.DHZA.774793..LB	10220 S 76TH AVE	8999 S 123RD ST	CABS BILLING
DS1	.DHZA.844593..LB	10220 S 76TH AVE	201 _ ACACIA DR	CABS BILLING
DS1	.DHZA.870146..LB	10220 S 76TH AVE	8450 50TH	CABS BILLING
DS1	.DHZA.870147..LB	10220 S 76TH AVE	8555 W 103RD ST	CABS BILLING
DS1	.DHZA.870153..LB	10220 S 76TH AVE	6015 LENZI AVE	CABS BILLING
DS1	.DHZA.870154..LB	10220 S 76TH AVE	304 W BURLINGTON AVE	CABS BILLING
DS1	.DHZA.870155..LB	10220 S 76TH AVE	740 HILLGROVE AVE	CABS BILLING
DS1	.DHZA.870156..LB	10220 S 76TH AVE	7000 46TH ST	CABS BILLING
DS1	.DHZA.870158..LB	10220 S 76TH AVE	5650 W 75TH PL	CABS BILLING
DS1	.DHZA.870160..LB	10220 S 76TH AVE	9420 S KEDZIE AVE	CABS BILLING
DS1	.DHZA.870161..LB	10220 S 76TH AVE	9446 S RAYMOND AVE	CABS BILLING

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.870163..LB	10220 S 76TH AVE	4331 SOUTHWEST HWY	CABS BILLING
DS1	.DHZA.870164..LB	10220 S 76TH AVE	11750 S KEDZIE AVE	CABS BILLING
DS1	.DHZA.870165..LB	10220 S 76TH AVE	4500 123RD ST	CABS BILLING
DS1	.DHZA.870167..LB	10220 S 76TH AVE	7607 COLLEGE DR	CABS BILLING
DS1	.DHZA.870168..LB	10220 S 76TH AVE	16039 94TH AVE	CABS BILLING
DS1	.DHZA.870170..LB	10220 S 76TH AVE	7500 S OKETO AVE	CABS BILLING
DS1	.DHZA.870171..LB	10220 S 76TH AVE	803 _ JOLIET RD	CABS BILLING
DS1	.DHZA.870243..LB	10220 S 76TH AVE	6701 S ARCHER RD	CABS BILLING
DS1	.DHZA.870244..LB	10220 S 76TH AVE	7800 ARCHER RD	CABS BILLING
DS1	.DHZA.870245..LB	10220 S 76TH AVE	5810 ARCHER RD	CABS BILLING
DS1	.DHZA.875391..LB	10220 S 76TH AVE	10425 S RIDGELAND AVE	CABS BILLING
DS1	.DHZA.011543..LB	13500 ROLLS RD	10220 S 76TH AVE	HIGHWAYS
DS1	.DHZA.018962..LB	1401 S MAYBROOK DR	123 MADISON	CABS BILLING
DS1	.DHZA.018972..LB	1401 S MAYBROOK DR	125 S 5TH AVE	CABS BILLING
DS1	.DHZA.019000..LB	1401 S MAYBROOK DR	5819 ELECTRIC AVE	CABS BILLING
DS1	.DHZA.019256..LB	1401 S MAYBROOK DR	10300 ROOSEVELT RD	CABS BILLING
DS1	.DHZA.176080..LB	1401 S MAYBROOK DR	2325 N MEACHAM RD	SHERIFF
DS1	.DHZA.193635..LB	1401 S MAYBROOK DR	9511 W HARRISON ST	ETSB
DS1	.DHZA.199964..LB	1401 S MAYBROOK DR	9511 W HARRISON ST	ETSB
DS1	.DHZA.319627..LB	1401 S MAYBROOK DR	2501 MANNHEIM RD	CABS BILLING
DS1	.DHZA.347549..LB	1401 S MAYBROOK DR	8800 W BELMONT AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.393118..LB	1401 S MAYBROOK DR	10220 S 76TH AVE	SHERIFF
DS1	.DHZA.499029..LB	1401 S MAYBROOK DR	7300 W WILSON AVE	CABS BILLING
DS1	.DHZA.505730..LB	1401 S MAYBROOK DR	7507 W CERMAK RD	SAO
DS1	.DHZA.509069..LB	1401 S MAYBROOK DR	7507 W CERMAK RD	SAO
DS1	.DHZA.510341..LB	1401 S MAYBROOK DR	8020 CHICAGO AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.516577..LB	1401 S MAYBROOK DR	2405 _ 17TH ST	FOREST PRESERVE DISTRICT

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.530621..LB	1401 S MAYBROOK DR	2199 S 1ST AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.580106..LB	1401 S MAYBROOK DR	8820 BROOKFIELD AVE	CABS BILLING
DS1	.DHZA.596289..LB	1401 S MAYBROOK DR	9325 CHURCH ST	HOSPITAL
DS1	.DHZA.656525..LB	1401 S MAYBROOK DR	4901 W CERMAK RD	CABS BILLING
DS1	.DHZA.691440..LB	1401 S MAYBROOK DR	1501 S CANAL ST	CABS BILLING
DS1	.DHZA.782755..LB	1401 S MAYBROOK DR	7556 JACKSON BLVD	HOSPITAL
DS1	.DHZA.782758..LB	1401 S MAYBROOK DR	7556 JACKSON BLVD	HOSPITAL
DS1	.DHZA.783742..LB	1401 S MAYBROOK DR	7600 OGDEN AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.845876..LB	1401 S MAYBROOK DR	425 N HILLSIDE AVE	CABS BILLING
DS1	.DHZA.858741..LB	1401 S MAYBROOK DR	3200 WASHINGTON ST BL	CABS BILLING
DS1	.DHZA.858750..LB	1401 S MAYBROOK DR	2350 S 25TH AVE	CABS BILLING
DS1	.DHZA.858757..LB	1401 S MAYBROOK DR	1 BROADWAY AVE	CABS BILLING
DS1	.DHZA.858820..LB	1401 S MAYBROOK DR	1629 N MANNHEIM RD	CABS BILLING
DS1	.DHZA.858823..LB	1401 S MAYBROOK DR	2359 DES PLAINES AVE	CABS BILLING
DS1	.DHZA.858828..LB	1401 S MAYBROOK DR	31 RIVERSIDE RD	CABS BILLING
DS1	.DHZA.858829..LB	1401 S MAYBROOK DR	55 E NORTH AVE	CABS BILLING
DS1	.DHZA.858831..LB	1401 S MAYBROOK DR	400 PARK AVE	CABS BILLING
DS1	.DHZA.858833..LB	1401 S MAYBROOK DR	7420 FULLERTON AVE	CABS BILLING
DS1	.DHZA.858835..LB	1401 S MAYBROOK DR	9451 BELMONT AVE	CABS BILLING
DS1	.DHZA.858843..LB	1401 S MAYBROOK DR	4020 OLCOTT AVE	CABS BILLING
DS1	.DHZA.861209..LB	1401 S MAYBROOK DR	447 N CATHERINE AVE	CABS BILLING
DS1	.DHZA.782116..LB	14450 MANISTEE AVE	2300 STATE	CABS BILLING
DS1	.DHZA.001628..LB	15900 S CICERO AVE	1901 W HARRISON ST	HOSPITAL
DS1	.DHZA.012484..LB	16501 KEDZIE AVE	725 W 138TH ST	CABS BILLING
DS1	.DHZA.020861..LB	16501 KEDZIE AVE	1 ASSELBORN WY	CABS BILLING
DS1	.DHZA.074974..LB	16501 KEDZIE AVE	14829 DIXIE HWY	CABS BILLING
DS1	.DHZA.100047..LB	16501 KEDZIE AVE	185 W SAUK TRAIL	CABS BILLING

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.117682..LB	16501 KEDZIE AVE	14014 PARK AVE	CABS BILLING
DS1	.DHZA.117705..LB	16501 KEDZIE AVE	7850 183RD	CABS BILLING
DS1	.DHZA.140571..LB	16501 KEDZIE AVE	15301 DIXIE HWY	CABS BILLING
DS1	.DHZA.147593..LB	16501 KEDZIE AVE	15100 RAVINIA AVE	CABS BILLING
DS1	.DHZA.147656..LB	16501 KEDZIE AVE	11400 S AVENUE E	FOREST PRESERVE DISTRICT
DS1	.DHZA.214552..LB	16501 KEDZIE AVE	8699 S WESTERN AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.321023..LB	16501 KEDZIE AVE	1100 RIVER OAKS DR	FOREST PRESERVE DISTRICT
DS1	.DHZA.343662..LB	16501 KEDZIE AVE	440 E THORNTON-LANSING RD	FOREST PRESERVE DISTRICT
DS1	.DHZA.465830..LB	16501 KEDZIE AVE	16313 KEDZIE PKWY	CABS BILLING
DS1	.DHZA.469024..LB	16501 KEDZIE AVE	650 BURNHAM DR	CABS BILLING
DS1	.DHZA.469596..LB	16501 KEDZIE AVE	160 145TH ST	CABS BILLING
DS1	.DHZA.579958..LB	16501 KEDZIE AVE	13801 S HARLEM AVE	FOREST PRESERVE DISTRICT
DS1	.DHZA.625413..LB	16501 KEDZIE AVE	21113 DETTMERING DR	CABS BILLING
DS1	.DHZA.754043..LB	16501 KEDZIE AVE	12409 THROOP	CABS BILLING
DS1	.DHZA.754044..LB	16501 KEDZIE AVE	14450 MANISTEE AVE	CABS BILLING
DS1	.DHZA.754045..LB	16501 KEDZIE AVE	1200 PULASKI RD	CABS BILLING
DS1	.DHZA.754046..LB	16501 KEDZIE AVE	2710 170TH ST	CABS BILLING
DS1	.DHZA.754047..LB	16501 KEDZIE AVE	1601 S HALSTED	CABS BILLING
DS1	.DHZA.754049..LB	16501 KEDZIE AVE	21460 LINCOLN HWY	CABS BILLING
DS1	.DHZA.754050..LB	16501 KEDZIE AVE	21701 TORRENCE AVE	CABS BILLING
DS1	.DHZA.754051..LB	16501 KEDZIE AVE	16220 WAUSAU AVE	CABS BILLING
DS1	.DHZA.754052..LB	16501 KEDZIE AVE	700 PARK AVE	CABS BILLING
DS1	.DHZA.754053..LB	16501 KEDZIE AVE	3700 W 175TH PL	CABS BILLING
DS1	.DHZA.754054..LB	16501 KEDZIE AVE	17223 S THROOP ST	CABS BILLING
DS1	.DHZA.754055..LB	16501 KEDZIE AVE	2800 FLOSSMOR RD	CABS BILLING
DS1	.DHZA.754056..LB	16501 KEDZIE AVE	3000 W 170TH	CABS BILLING
DS1	.DHZA.754057..LB	16501 KEDZIE AVE	17950 DIXIE HWY	CABS BILLING
DS1	.DHZA.754058..LB	16501 KEDZIE AVE	20500 CICERO AVE	CABS BILLING
DS1	.DHZA.754059..LB	16501 KEDZIE AVE	20040 GOVERNORS HWY	CABS BILLING

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.754060..LB	16501 KEDZIE AVE	200 LAKEWOOD BL	CABS BILLING
DS1	.DHZA.754062..LB	16501 KEDZIE AVE	15440 S CENTRAL AVE	CABS BILLING
DS1	.DHZA.754064..LB	16501 KEDZIE AVE	13031 GREENWOOD AVE	CABS BILLING
DS1	.DHZA.754065..LB	16501 KEDZIE AVE	14801 PULASKI RD	CABS BILLING
DS1	.DHZA.754066..LB	16501 KEDZIE AVE	4455 SAUK TRAIL	CABS BILLING
DS1	.DHZA.777534..LB	16501 KEDZIE AVE	1154 RIDGE RD	ENTERPRISE
DS1	.DHZA.778930..LB	16501 KEDZIE AVE	35 W 34TH ST	CABS BILLING
DS1	.DHZA.782520..LB	16501 KEDZIE AVE	15900 S CICERO AVE	HOSPITAL
DS1	.DHZA.859897..LB	16501 KEDZIE AVE	3323 137TH ST	CABS BILLING
DS1	.DHZA.860001..LB	16501 KEDZIE AVE	625 E 151ST ST	CABS BILLING
DS1	.DHZA.005474..LB	1901 W HARRISON ST	500 E 51ST ST	VOICE NETWORK
DS1	.DHZA.006124..LB	1901 W HARRISON ST	2020 W HARRISON ST	HOSPITAL
DS1	.DHZA.007777..LB	2121 EUCLID AVE	33 S ARLINGTON HTS RD	CABS BILLING
DS1	.DHZA.060684..LB	2121 EUCLID AVE	3500 ROHLWING RD	FOREST PRESERVE DISTRICT
DS1	.DHZA.130580..LB	2121 EUCLID AVE	411 W HIGGINS RD	CABS BILLING
DS1	.DHZA.249195..LB	2121 EUCLID AVE	2011 LAKE	CABS BILLING
DS1	.DHZA.263601..LB	2121 EUCLID AVE	20009 E HIGGINS RD	FOREST PRESERVE DISTRICT
DS1	.DHZA.454373..LB	2121 EUCLID AVE	401 E IRVING PARK RD	CABS BILLING
DS1	.DHZA.477795..LB	2121 EUCLID AVE	595 N HICKS RD	CABS BILLING
DS1	.DHZA.516072..LB	2121 EUCLID AVE	3 STOVER RD BARINGTN	FOREST PRESERVE DISTRICT
DS1	.DHZA.639074..LB	2121 EUCLID AVE	112 ALGONQUIN RD	CABS BILLING
DS1	.DHZA.663959..LB	2121 EUCLID AVE	30 S BARRINGTON RD	CABS BILLING
DS1	.DHZA.688741..LB	2121 EUCLID AVE	50 S EMERSON	CABS BILLING
DS1	.DHZA.754093..LB	2121 EUCLID AVE	14 E CAMP MC DONALD RD	CABS BILLING
DS1	.DHZA.754094..LB	2121 EUCLID AVE	3600 KIRCHOFF RD	CABS BILLING
DS1	.DHZA.754096..LB	2121 EUCLID AVE	400 N NORTHWEST HWY	CABS BILLING
DS1	.DHZA.754099..LB	2121 EUCLID AVE	901 WELLINGTON AVE	CABS BILLING
DS1	.DHZA.754100..LB	2121 EUCLID AVE	9501 W DEVON AVE	CABS BILLING

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.754101..LB	2121 EUCLID AVE	103 S PROSPECT AVE	CABS BILLING
DS1	.DHZA.754103..LB	2121 EUCLID AVE	9526 IRVING PARK RD	CABS BILLING
DS1	.DHZA.754104..LB	2121 EUCLID AVE	46 RAUPP BL	CABS BILLING
DS1	.DHZA.754105..LB	2121 EUCLID AVE	255 W DUNDEE RD	CABS BILLING
DS1	.DHZA.754108..LB	2121 EUCLID AVE	228 MAIN	CABS BILLING
DS1	.DHZA.037504..LB	2325 N MEACHAM RD	2650 S CALIFORNIA AVE	SHERIFF
DS1	.DHZA.005466..LB	2650 S CALIFORNIA AVE	500 E 51ST ST	VOICE NETWORK
DS1	.DHZA.178911..LB	2650 S CALIFORNIA AVE	1401 S MAYBROOK DR	NOT IDENTIFIED
DS1	.DHZA.445197..LB	2650 S CALIFORNIA AVE	530 W 18TH ST	OCJ
DS1	.DHZA.448716..LB	2650 S CALIFORNIA AVE	1401 S MAYBROOK DR	SHERIFF
DS1	.DHZA.450125..LB	2650 S CALIFORNIA AVE	1816 W 91ST ST	FOREST PRESERVE DISTRICT
DS1	.DHZA.515990..LB	2650 S CALIFORNIA AVE	10220 S 76TH AVE	SHERIFF
DS1	.DHZA.000392..LB	3600 W OGDEN AVE		COMMISSIONERS
DS1	.DHZA.000004..LB	5600 OLD ORCHARD RD	1201 W DAVIS	CABS BILLING
DS1	.DHZA.053722..LB	5600 OLD ORCHARD RD	4201 LAKE COOK RD	SHERIFF
DS1	.DHZA.060690..LB	5600 OLD ORCHARD RD	5333 N WESTERN AVE	SAO
DS1	.DHZA.297732..LB	5600 OLD ORCHARD RD	1 BRIAR RD	CABS BILLING
DS1	.DHZA.399630..LB	5600 OLD ORCHARD RD	6633 W HARTS RD	FOREST PRESERVE DISTRICT
DS1	.DHZA.515487..LB	5600 OLD ORCHARD RD	1720 _ CHERRY AVE	DHSEM
DS1	.DHZA.754013..LB	5600 OLD ORCHARD RD	1420 MINER ST	CABS BILLING
DS1	.DHZA.754014..LB	5600 OLD ORCHARD RD	1454 ELMWOOD AVE	CABS BILLING
DS1	.DHZA.754015..LB	5600 OLD ORCHARD RD	1215 WAUKEGAN RD	CABS BILLING
DS1	.DHZA.754019..LB	5600 OLD ORCHARD RD	200 VINE AVE	CABS BILLING
DS1	.DHZA.754021..LB	5600 OLD ORCHARD RD	6900 N LINCOLN AVE	CABS BILLING
DS1	.DHZA.754023..LB	5600 OLD ORCHARD RD	710 RIDGE RD	CABS BILLING
DS1	.DHZA.125341..LB	69 W WASHINGTON ST	100 E ERIE ST	CABS BILLING
DS1	.DHZA.145968..LB	69 W WASHINGTON ST	1240 S DAMEN AVE	SAO
DS1	.DHZA.514360..LB	69 W WASHINGTON ST	421 N COUNTY FARM RD	ENTERPRISE

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DS1	.DHZA.773602..LB	69 W WASHINGTON ST	8755 W HIGGINS RD	CABS BILLING
DS1	107T1ZFCHCGILEKH04 CHCGILFR	69 W WASHINGTON ST	CHCGILFR CO	ENTERPRISE
DS1	.DHZA.461998..LB	9511 W HARRISON ST	2650 S CALIFORNIA AVE	ETSB
DS3	101T3BRDVILARH01HC HLILHH	10220 S 76TH AVE	HCHLILHH CO	ENTERPRISE
DS3	101T3UBRDVILARH00C HCGILFR	10220 S 76TH AVE	CHCGILFR CO	ENTERPRISE
DS3	801T3BRDVILARH01HC HLILHH	10220 S 76TH AVE	HCHLILHH CO	ENTERPRISE
DS3	801UT3ACHCGILFRCH CHILHHH02	1100 S HAMILTON AVE	CHCGILFR CO	OCJ
DS3	101T3BLWDILBWK01M YWDILAJH00	1401 S MAYBROOK DR	BLWDILBW CO	ENTERPRISE
DS3	101T3UCHCGILFRMYW DILAJH00	1401 S MAYBROOK DR	CHCGILFR CO	ENTERPRISE
DS3	801T3BLWDILBWMYW DILAJH00	1401 S MAYBROOK DR	BLWDILBW CO	ENTERPRISE
DS3	101T3HRVYILHAK04MH MCILABH00	16501 KEDZIE AVE	HRVYILHA CO	ENTERPRISE
DS3	101T3HRVYILHAK04MH MCILABH02	16501 KEDZIE AVE	HRVYILHA CO	NOT IDENTIFIED
DS3	101T3UCHCGILFRMHM CILABH02	16501 KEDZIE AVE	CHCGILFR CO	NOT IDENTIFIED
DS3	102T3HRVYILHAK04MH MCILABH02	16501 KEDZIE AVE	HRVYILHA CO	ENTERPRISE
DS3	101T3ARLHILAHK02RL MDILBDH00	2121 EUCLID AVE	ARLHILAH CO	CABS BILLING
DS3	801T3CHCGILLAK03CH CGILUKH04	2650 S CALIFORNIA AVE	CHCGILLA CO	NOT IDENTIFIED
DS3	801UT3ACHCGILFRCH CGILUKH04	2650 S CALIFORNIA AVE	CHCGILFR CO	NOT IDENTIFIED
DS3	101T3CHCGILMOK01C HCLILIGH00	500 E 51ST ST	1901 W HARRISON ST	HOSPITAL
DS3	101T3MRGVILMGSKOK ILBOH00	5600 OLD ORCHARD RD	MRGVILMG CO	ENTERPRISE
DS3	101T3UCHCGILFRSKO KILBOH01	5600 OLD ORCHARD RD	CHCGILFR CO	VOICE NETWORK
DS3	.HIDC.720431..LB	69 W WASHINGTON ST	1411 W MADISON ST	CABS BILLING
DS3	.HIDC.772986..LB	69 W WASHINGTON ST	3510 S MICHIGAN AVE	CABS BILLING
DS3	102T3CHCGILEKH04C HCGILFRK03	69 W WASHINGTON ST	CHCGILFR CO	ENTERPRISE
DS3	.HIDC.580014..LB	901 E 26TH	1401 S MAYBROOK DR	SHERIFF
DSL	3126580969	118 N CLARK ST		SECRETARY OF THE BOARD
DSL	3126580970	118 N CLARK ST		SECRETARY OF THE BOARD
DSL	292323533	1812 _ WAUKEGAN RD		COMMISSIONERS

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
DSL	8476406890	2400 S ARLINGTON HEIGHTS RD		ELECTIONS - COUNTY CLERK
DSL	7735420414	2424 S PULASKI RD		HOSPITAL
DSL	8478641445	2510 _ GREEN BAY AVE		COMMISSIONERS
DSL	7735258158	3223 N SHEFFIELD AVE		COMMISSIONERS
DSL	7735611035	5533 N BROADWAY ST		COMMISSIONERS
DSL	20732020	6501 W 31ST ST		ELECTIONS - COUNTY CLERK
DSL	20732027	6501 W 31ST ST		ELECTIONS - COUNTY CLERK
DSL	38742360	715 W MAXWELL ST		SAO
DSL	7084426233	7507 W CERMAK RD		SAO
INTERNET	8771100780768857	1140 HARMS RD		FOREST PRESERVE DISTRICT
INTERNET	301707629	118 N CLARK ST		COMMISSIONERS
INTERNET	902577753	118 N CLARK ST		COMMISSIONERS
INTERNET	CSFN_OFHOSP-01	15900 S CICERO AVE		ENTERPRISE
INTERNET	901915879	1901 W HARRISON ST		HOSPITAL
INTERNET	902559809	1901 W HARRISON ST		HOSPITAL
INTERNET	902609540	1901 W HARRISON ST		HOSPITAL
INTERNET	.KRGN.109051..LB	1901 W HARRISON ST		HOSPITAL
INTERNET	8771101351270414	2510 _ GREEN BAY AVE		COMMISSIONERS
INTERNET	902438674	2650 S CALIFORNIA AVE		SHERIFF
INTERNET	301954235	2653 N KEDZIE AVE		COMMISSIONERS
INTERNET	8771300421965538	3600 W OGDEN AVE		COMMISSIONERS
INTERNET	151350154	410 W DUNDEE		FOREST PRESERVE DISTRICT
INTERNET	302622937	4253 N MILWAUKEE AVE		COMMISSIONERS
INTERNET	154361849	50 W WASHINGTON ST		OCJ
INTERNET	301242360	5333 N WESTERN AVE		SAO
INTERNET	302295803	5515 N EAST RIVER RD		COMMISSIONERS

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
INTERNET	299859438	555 W HARRISON ST		OCJ
INTERNET	902357275	555 W HARRISON ST		OCJ
INTERNET	9020222849	69 W WASHINGTON ST		ENTERPRISE
INTERNET	16D1EB6F377B977	69 W WASHINGTON ST		SHERIFF
INTERNET	220722M01	69 W WASHINGTON ST		ENTERPRISE
INTERNET	302922524	700 N SACRAMENTO BLVD		SHERIFF
INTERNET	8771201230155586	738 THATCHER AVE		FOREST PRESERVE DISTRICT
INTERNET	8771201340140965	7507 W CERMAK RD		SAO
INTERNET	151476975	801 N RIVER ROAD		FOREST PRESERVE DISTRICT
ISDN BRI	1.IBDC.000069..LB	1835 W HARRISON ST	NONE	HOSPITAL
ISDN BRI	.IBZD.058871..LB	1901 W HARRISON ST	NONE	HOSPITAL
ISDN BRI	.IBZD.103006..LB	1901 W HARRISON ST	NONE	HOSPITAL
ISDN BRI	.IBZD.167870..LB	1901 W HARRISON ST	NONE	HOSPITAL
ISDN BRI	.IBZD.318062..LB	1901 W HARRISON ST	NONE	HOSPITAL
ISDN BRI	.IBZD.669428..LB	9511 W HARRISON ST	NONE	ETSB
OPTEMAN	.L1XN.060792..LB	1 ALOHA LANE		FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.467852..LB	10220 S 76TH AVE	120 S LINCOLN AVE	SHERIFF
OPTEMAN	.L1XN.107465..LB	1061 S WOLF RD		DHSEM
OPTEMAN	.L2XN.168720..LB	10900 S 88TH ST	120 S LINCOLN	SHERIFF
OPTEMAN	L2XN.168720..LB	10900 S 88TH ST		SHERIFF
OPTEMAN	.L2XN.100746..LB	111 W WASHINGTON ST		SAO
OPTEMAN	.L2XN.067842..LB	1116 W OGDEN AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.173212..LB	1135 W 69TH ST	233 W 76TH ST	HOSPITAL
OPTEMAN	.L2XN.000550..LB	1140 _ LAKE ST	69 W WASHINGTON ST	FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.150485..LB	118 N CLARK ST		COMMISSIONERS

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
OPTEMAN	.L1XN.173068..LB	118 N CLARK ST	1501 OPUS PL	ENTERPRISE
OPTEMAN	.L2XN.009180..LB	118 N CLARK ST	15900 S CICERO AVE	ENTERPRISE
OPTEMAN	.L2XN.175888..LB	1240 S DAMEN AVE	1340 W MONROE ST	HOSPITAL
OPTEMAN	.L2XN.001204..LB	12545 W 111TH ST		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.007385..LB	131 S DEARBORN ST		TREASURERS OFFICE
OPTEMAN	.L1XN.003166..LB	1330 S 54TH ST		ELECTIONS - COUNTY CLERK
OPTEMAN	.L2XN.004230..LB	1330 S 54TH ST		ELECTIONS - COUNTY CLERK
OPTEMAN	.L2XN.098716..LB	1340 S DAMEN AVE		HOSPITAL
OPTEMAN	.L2XN.011326..LB	1343 ELLIS AVE		SHERIFF
OPTEMAN	.L2XN.461450..LB	13450 S KEDZIE AVE	15321 CENTER AVE	HOSPITAL
OPTEMAN	.KRFN.118780..LB	1401 S MAYBROOK DR		SHERIFF
OPTEMAN	.L1XN.455930..LB	1401 S MAYBROOK DR	152 S YORK RD	SHERIFF
OPTEMAN	.L1XN.531420..LB	1401 S MAYBROOK DR	9511 W HARRISON ST	ETSB
OPTEMAN	.l2xn.169054..lb	14698 S OAK PARK AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.181150..LB	1501 OPUS PL	4924 FOREST AVE	ENTERPRISE
OPTEMAN	.L1XN.489193..LB	1501 OPUS PL	69 W WASHINGTON ST	ENTERPRISE
OPTEMAN	.L2XN.001488..LB	15440 S CENTRAL AVE	69 W WASHINGTON ST	COMMISSIONERS
OPTEMAN	.L1XN.028266..LB	15900 S CICERO AVE		ENTERPRISE
OPTEMAN	.L1XN.593462..LB	15900 S CICERO AVE	15321 CENTER AVE	HOSPITAL
OPTEMAN	.L2XN.159471..LB	15900 S CICERO AVE	15321 CENTER AVE	HOSPITAL
OPTEMAN	.L2XN.112272..LB	1645 COTTAGE GROVE		HOSPITAL
OPTEMAN	.L2XN.182639..LB	1701 N QUENTIN RD		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.000111..LB	18725 S STONY ISLAND AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.104231..LB	1901 W HARRISON ST	1340 W MONROE ST	HOSPITAL
OPTEMAN	.L1XN.550991..LB	1901 W HARRISON ST	1340 W MONROE ST	HOSPITAL
OPTEMAN	.L2XN.158273..LB	1901 W HARRISON ST	1340 W MONROE ST	HOSPITAL

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
OPTEMAN	.L2XN.300201..LB	1901 W HARRISON ST	1340 W MONROE ST	HOSPITAL
OPTEMAN	.L2XN.180397..LB	200 N PORTWINE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.100683..LB	2000 _ 5TH AVE		SHERIFF
OPTEMAN	.L2XN.532850..LB	2020 W HARRISON ST		HOSPITAL
OPTEMAN	.L1XN.454280..LB	2121 EUCLID AVE	700 MALL DR	SHERIFF
OPTEMAN	.L2XN.389425..LB	2199 S 1ST AVE	69 W WASHINGTON ST	FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.245582..LB	2245 W OGDEN AVE	1340 W MONROE ST	OCJ
OPTEMAN	.L2XN.000578..LB	2323 S ROCKWELL ST		ENTERPRISE
OPTEMAN	.L2XN.246502..LB	2423 S AUSTIN AVE		HOSPITAL
OPTEMAN	.L2XN.559197..LB	2424 S PULASKI RD	1340 W MONROE ST	HOSPITAL
OPTEMAN	.L2XN.158225..LB	2650 S CALIFORNIA AVE	1340 W MONROE ST	ENTERPRISE
OPTEMAN	.L1XN.316600..LB	2700 S CALIFORNIA AVE		HOSPITAL
OPTEMAN	.L2XN.490096..LB	2840 W FULLERTON AVE		HOSPITAL
OPTEMAN	.L2XN.100272..LB	3120 N MILWAUKEE AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.480115..LB	3151 W HARRISON ST	1340 W MONROE ST	ENTERPRISE
OPTEMAN	.L1XN.007702..LB	3250 N ARLINGTON HEIGHTS RD		HOSPITAL
OPTEMAN	.L2XN.477175..LB	3525 S MICHIGAN AVE		HOSPITAL
OPTEMAN	.L2XN.174854..LB	4800 W CHICAGO AVE		HOSPITAL
OPTEMAN	.L1XN.172794..LB	500 E 51ST ST	233 W 76TH ST	HOSPITAL
OPTEMAN	.L2XN.016805..LB	500 OGDEN AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.101755..LB	536 N HARLEM AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.LX1XN.060792	536 N HARLEM AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.448322..LB	5555 W GRAND AVE		ENTERPRISE
OPTEMAN	.L1XN.467211..LB	5600 OLD ORCHARD RD	2029 WALTERS AVE	SHERIFF
OPTEMAN	.L1XN.015091..LB	600 HOLIDAY PLAZA	1901 W HARRISON ST	HOSPITAL

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
OPTEMAN	.L1XN.004359..LB	600 W JACKSON BLVD	1901 W HARRISON ST	HOSPITAL
OPTEMAN	.LX2N.103047..LB	6100 N CENTRAL AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.478513..LB	6337 S WOODLAWN AVE		HOSPITAL
OPTEMAN	.L2XN.111668..LB	640 COSMAN RD		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.000089..LB	6614 W NORTH AVE		COMMISSIONERS
OPTEMAN	.L2XN.024227..LB	6797 _ 147TH ST		FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.002912..LB	69 W WASHINGTON ST	70 W MADISON ST	PENSION BOARD
OPTEMAN	.L1XN.212147..LB	69 W WASHINGTON ST		SHERIFF
OPTEMAN	.L1XN.470404..LB	69 W WASHINGTON ST	311 W WASHINGTON ST	FOREST PRESERVE DISTRICT
OPTEMAN	.L1XN.489199..LB	69 W WASHINGTON ST	1501 OPUS PL	ENTERPRISE
OPTEMAN	.L1XN.501193..LB	69 W WASHINGTON ST	311 W WASHINGTON ST	ENTERPRISE
OPTEMAN	.L2XN.004120..LB	69 W WASHINGTON ST		ELECTIONS - COUNTY CLERK
OPTEMAN	.L2XN.520334..LB	69 W WASHINGTON ST	311 W WASHINGTON ST	ENTERPRISE
OPTEMAN	.L2XN.166116..LB	727 E 111TH ST	233 W 76TH ST	ENTERPRISE
OPTEMAN	.L2XN.320558..LB	7556 JACKSON BLVD	715 W LAKE ST	HOSPITAL
OPTEMAN	.L2XN.320028..LB	9325 CHURCH ST		HOSPITAL
OPTEMAN	.L2XN.142262..LB	937 N WOOD ST	1340 W MONROE ST	SHERIFF
OPTEMAN	.KQFN.126606..LB	9511 W HARRISON ST		ETSB
OPTEMAN	.KRFN.118771..LB	9511 W HARRISON ST		SHERIFF
OPTEMAN	.L1XN.531422..LB	9511 W HARRISON ST	700 MALL DR	ETSB
OPTEMAN	.L2XN.077635..LB	9800 S 104TH AVE		FOREST PRESERVE DISTRICT
OPTEMAN	.L2XN.145535..LB	9801 W CAL SAG RD		FOREST PRESERVE DISTRICT
SIP	0000155601	1901 W HARRISON ST		HOSPITAL
SIP	903062511	1901 W HARRISON ST		HOSPITAL
SIP	.IUEC.853492..ATI	1901 W HARRISON ST		HOSPITAL

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
SIP	7735210750	2424 S PULASKI RD		HOSPITAL
SIP	0000281755	2650 S CALIFORNIA AVE		VOICE NETWORK
SIP	903369006	2650 S CALIFORNIA AVE		VOICE NETWORK
SIP	0000623926	69 W WASHINGTON ST		VOICE NETWORK
SIP	903236091	69 W WASHINGTON ST		VOICE NETWORK
SIP	.IUEC.991924..ATI	69 W WASHINGTON ST		VOICE NETWORK
SIP	.KRGN.122362..LB	69 W WASHINGTON ST		VOICE NETWORK
SONET	CID1AOC03BRDVILARH00CHCGILFR	10220 S 76TH AVE	CHCGILFR CO	ENTERPRISE
SONET	ZID10OC12BRDVILARH00CHCGILFR	10220 S 76TH AVE	CHCGILFR CO	ENTERPRISE
SONET	26D10OC12CHCGILMOCHCHIL48H02	1340 W MONROE ST	CHCHIL48H02	ENTERPRISE
SONET	26D1AOC03CHCGILMOCHCHIL48H02	1340 W MONROE ST	CHCHIL48H02	ENTERPRISE
SONET	CID10OC12BLWDILBWMYWDILAJH00	1401 S MAYBROOK DR	BLWDILBW CO	ENTERPRISE
SONET	CID1AOC03BLWDILBWMYWDILAJH00	1401 S MAYBROOK DR	BLWDILBW CO	ENTERPRISE
SONET	26D10OC12HRVYILHAMHMCILABH02	15321 CENTER AVE	MHMCILABH02	ENTERPRISE
SONET	26D1AOC03HRVYILHAMHMCILABH02	15321 CENTER AVE	MHMCILABH02	ENTERPRISE
SONET	LPD9UOC12CHCLILIGH00OKFOILADH01	15900 S CICERO AVE	NONE	HOSPITAL
SONET	26D10OC12CHCGILLAMHMCILABH02	16501 KEDZIE AVE	CHCGILLA	ENTERPRISE
SONET	26D1AOC03CHCGILLAMHMCILABH02	16501 KEDZIE AVE	CHCGILLA	ENTERPRISE
SONET	LPD9UOC12CHCGILMOCHCSILUBH01	1901 W HARRISON ST	NONE	HOSPITAL
SONET	26D10OC12CHCGILLACHCIILZJH01	2240 W 37TH	CHCIILZJH01	ENTERPRISE
SONET	26D1AOC03CHCGILLACHCIILZJH01	2240 W 37TH	CHCIILZJH01	ENTERPRISE
SONET	CID10OC12BLWDILBWHNDLILHI	245 S 24TH AVE	HNDLILHI CO	ENTERPRISE
SONET	CID1AOC03BLWDILBWBRDVILARH00	245 S 24TH AVE	BRDVILAR CO	ENTERPRISE
SONET	LPD2VOC48CHCGILUKH04CHCHILOFH00	2650 S CALIFORNIA AVE	CHCHILOFH00	ENTERPRISE
SONET	26D10OC12CHCGILFRCHCGILFR	311 W WASHINGTON ST	CHCGILFR CO	ENTERPRISE
SONET	26D10OC12CHCGILFRHRVYILHA	311 W WASHINGTON ST	HRVYILHA CO	ENTERPRISE
SONET	26D1AOC03CHCGILFRHRVYILHA	311 W WASHINGTON ST	HRVYILHA CO	ENTERPRISE
SONET	AHD71OC12CHCGILFRCHCGILFR	311 W WASHINGTON ST	CHCGILFR CO	ENTERPRISE

TYPE	Circuit ID	Address 1	Adress 2	AGENCY
SONET	AHD74OC03CHCGILFR MRGVILMG	311 W WASHINGTON ST	MRGVILMG CO	ENTERPRISE
SONET	CID10OC12CHCGILFR MYWDILAJH00	311 W WASHINGTON ST	MYWDILAJ CO	ENTERPRISE
SONET	CID1AOC03CHCGILFR MYWDILAJH00	311 W WASHINGTON ST	MYWDILAJ CO	ENTERPRISE
SONET	LPD2VOC48CHCGILFR CHCGILFR	311 W WASHINGTON ST	CHCGILFR CO	ENTERPRISE
SONET	LPD2VOC48CHCGILFR CHCGILUIH50	311 W WASHINGTON ST	CHCGILUIH50	ENTERPRISE
SONET	LPD3VOC03CHCGILFR CHCGILUIH50	311 W WASHINGTON ST	CHCGILUIH50	ENTERPRISE
SONET	ZHD71OC12CHCGILFR MRGVILMG	311 W WASHINGTON ST	MRGVILMG CO	ENTERPRISE
SONET	ZPDN5OC12CHCGILFR CHCHIL48H02	311 W WASHINGTON ST	CHCHIL48H02	ENTERPRISE
SONET	LPD9UOC12CHCGILFR CHCLILIGH00	500 E 51ST ST	NONE	HOSPITAL
SONET	LPD9UOC12CHCGILFR CHCSILUBH01	500 E 51ST ST	311 W WASHINGTON	HOSPITAL
SONET	AHD74OC03MRGVILM GSKOKILBOH01	6601 DEMPSTER ST	SKOKILBO CO	ENTERPRISE
SONET	.MGXS.309755..LB	69 W WASHINGTON ST	15900 S CICERO AVE	ENTERPRISE
SONET	.OBGS.362394..LB	69 W WASHINGTON ST	1901 W HARRISON ST ST	ENTERPRISE
SONET	LPD2VOC48CHCGILEK H04CHCGILUKH04	69 W WASHINGTON ST	CHCGILUK	ENTERPRISE
SONET	LPD3VOC03CHCGILEK H04CHCGILUKH04	69 W WASHINGTON ST	CHCGILUKH04	ENTERPRISE

Exhibit J – Network Topology

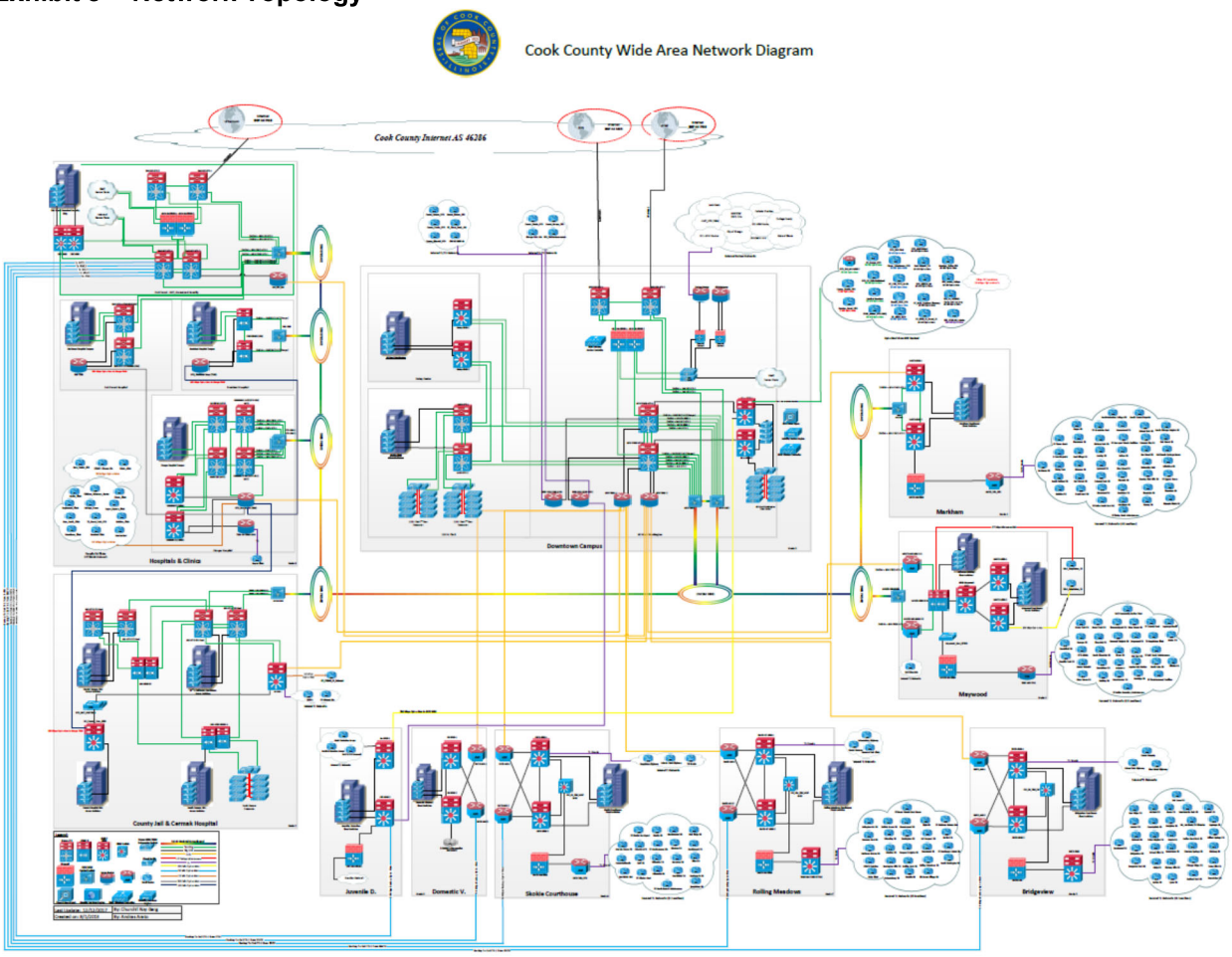
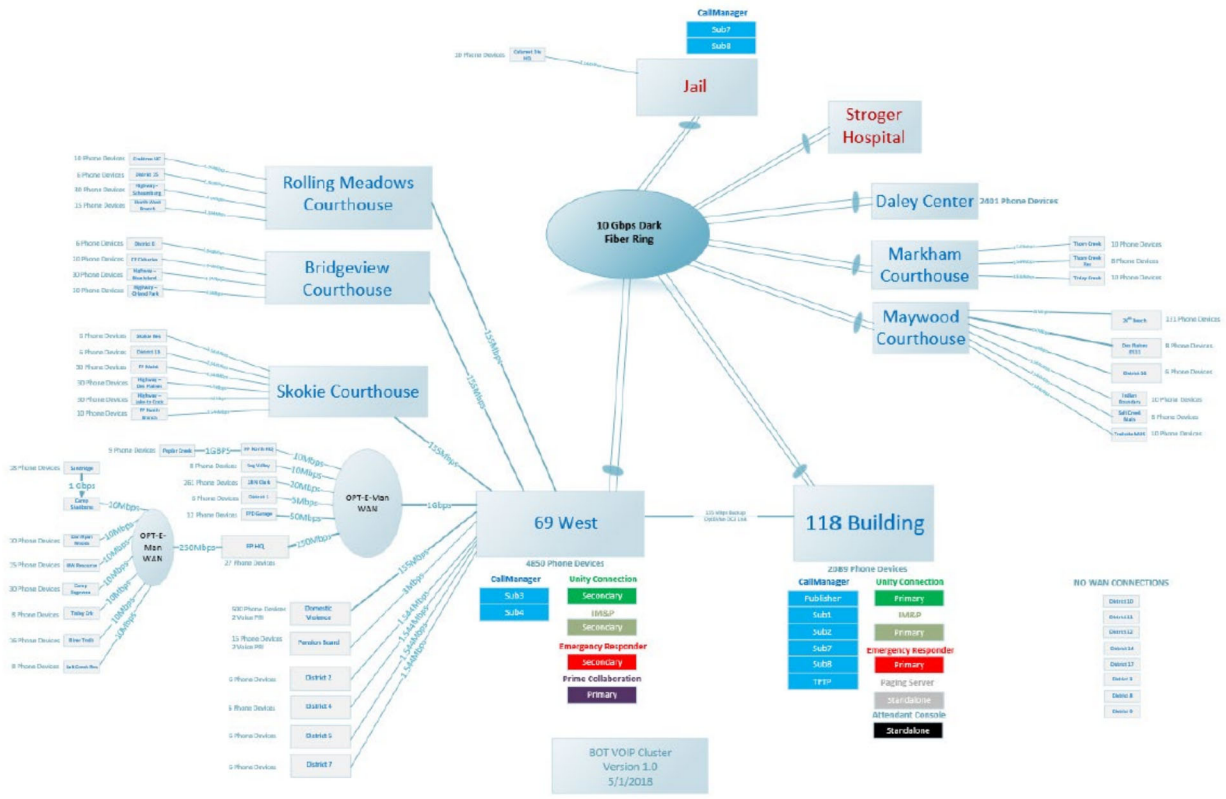
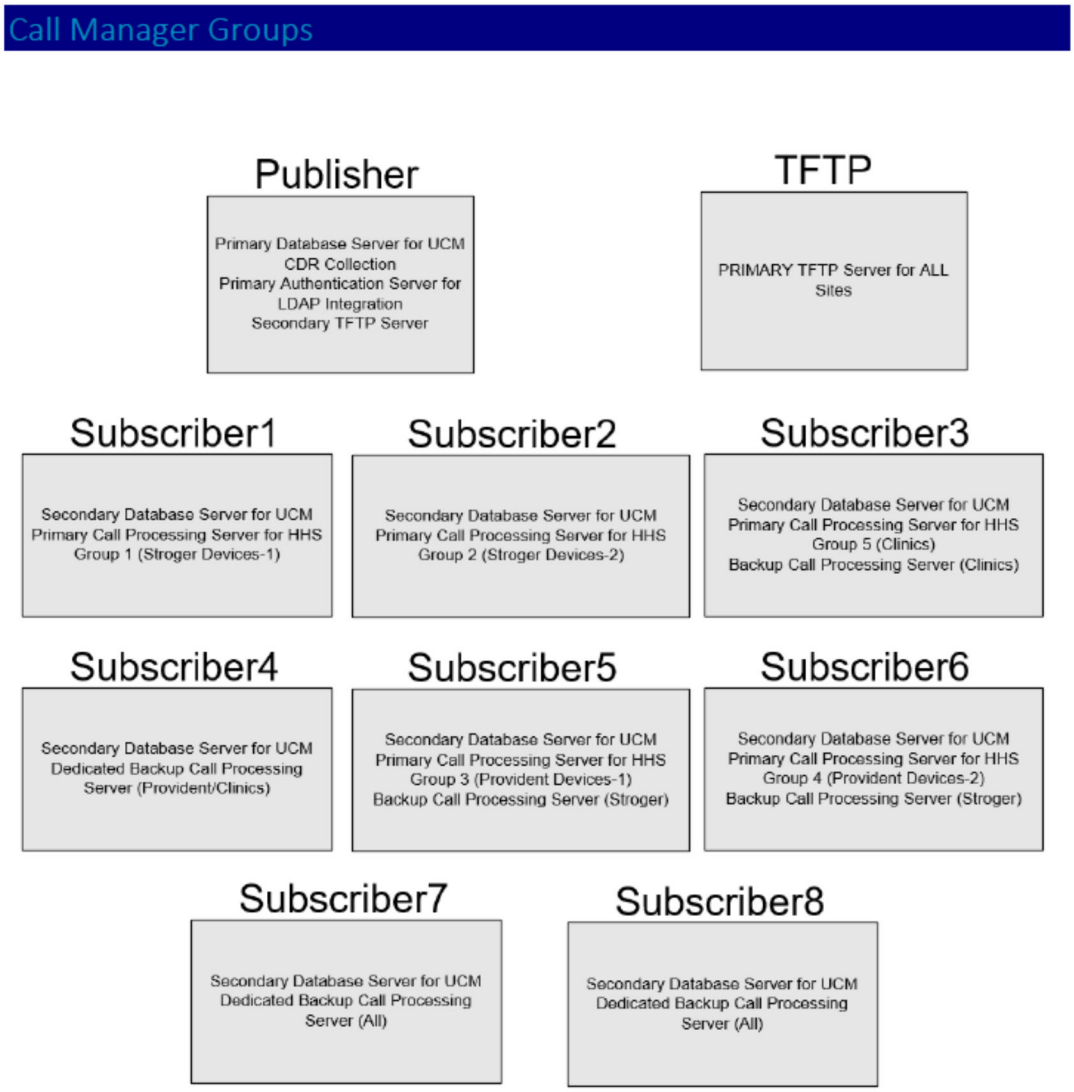


Exhibit K – Voice Topology

Addendum No. 2



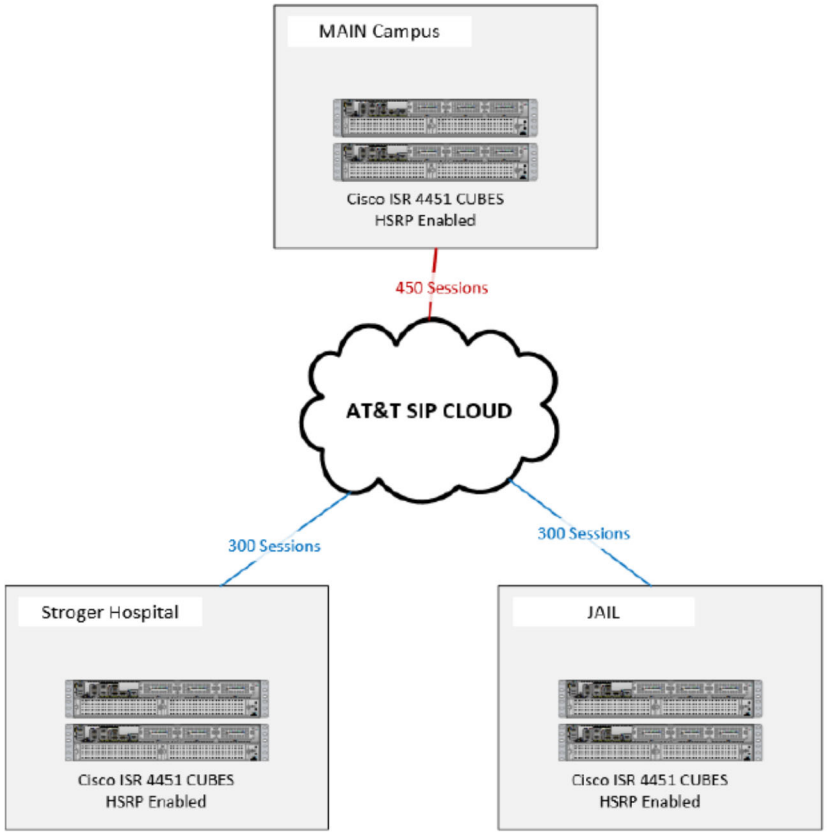
EXHIBT K – VOICE TOPOLOGY



EXHIBT K – VOICE TOPOLOGY

PSTN Design

SIP Diagram



EXHIBT K – VOICE TOPOLOGY

Normal Call Flow – Remote Site

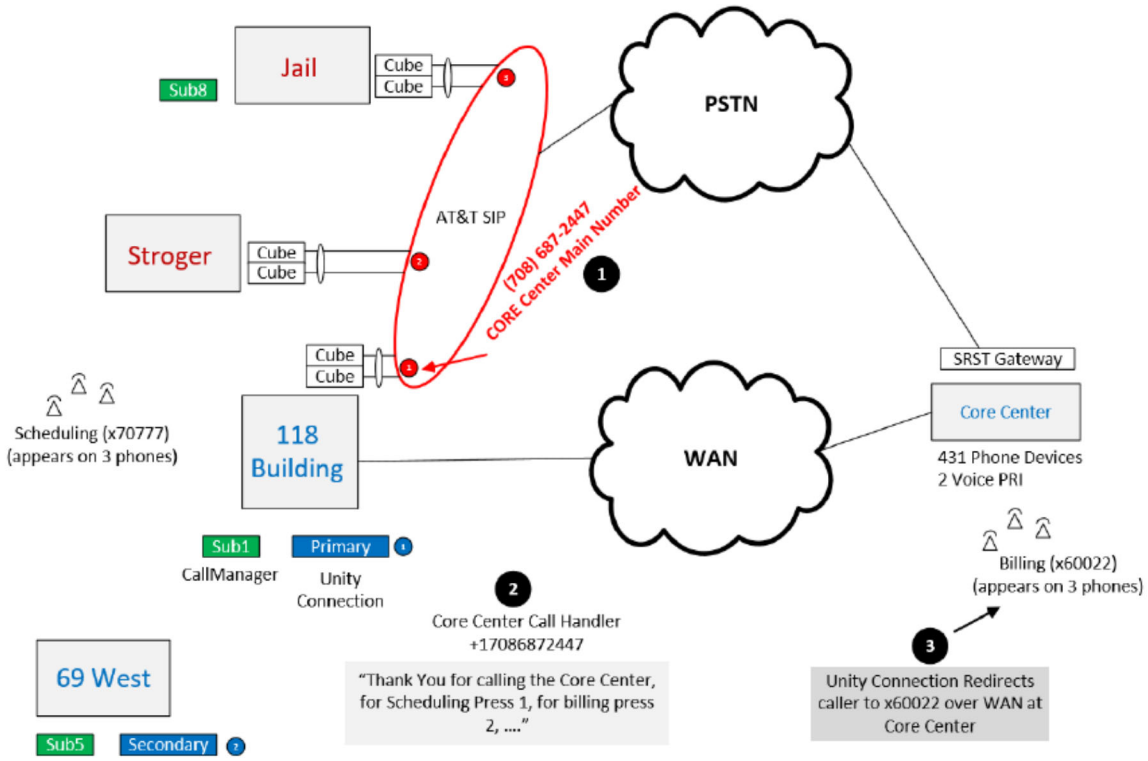


Exhibit L – End User Cisco Flex Maintenance

End User Information Form

For End Users of the Cisco Flex Plans

To purchase the Cisco Collaboration Flex Plan or Cisco Spark Flex Plan under the Enterprise Agreement ("EA") buying model for you and your Participating Affiliate(s), an authorized representative of the End User must complete this form in its entirety and sign it. This form will be used for provisioning and entitlement under the Flex Plan, as well as to ensure that you understand the terms of use that apply to your Flex Plan. Cisco will provide a quote to your reseller for the selected buying model, based upon the information that you provide in this form. Your reseller will in turn provide a quote to you. **Your signature is required on this form prior to receiving access to the program.**

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End User Overview

Defined Terms Used in This Section

"Participating Affiliates" means Your Affiliates whose Meter counts are included on the EUIF.

"Affiliate" means, with respect to a party, any entity that directly or indirectly Controls, or is Controlled by, or is under common Control with such party. **"Control"** means to: (a) own more than 50% of the relevant party; or (b) be able to direct the affairs of the relevant party through any lawful means (e.g., a contract that allows control).

"End User", **"You"** or **"Your"** mean the final purchasing entity as identified on the EUIF.

End User Information	
End User's full legal name	Cook County
Address of End User's principal place of business	69 W WASHINGTON ST CHICAGO, IL, 60602 US

Participating Affiliates
Cisco requires any Participating Affiliate(s) for which you are purchasing coverage to be included in this End User Information Form. Cisco relies on this list to define the scope of the agreement, ensure accurate pricing, as well as effective provisioning and support.
Participating Affiliate(s)
☐ None ☐ Only listed Participating Affiliates (to be recorded immediately below)
Participating Affiliates

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Cisco Enterprise Agreement Program Terms and Conditions for End Users

These terms and conditions together with the applicable Enrollment Descriptions and EUIF (collectively, "EA Program Terms") govern any Suites that You order under the Cisco Enterprise Agreement Program ("Purchased Suites"). The EA Program Terms do not modify the terms of any Cisco products or services You purchase outside of the Cisco Enterprise Agreement Program.

By signing these terms and conditions You agree to the EA Program Terms and the Licensing Documents. If You do not agree to the EA Program Terms or Licensing Documents, You may not Consume the Software or Cloud Services. Notwithstanding the foregoing, You are not obligated to make a purchase by entering into the EA Program Terms, and neither the EA Program Terms, nor the Licensing Documents will apply until You place an order as further described in section 1, below.

1. **Orders.** To purchase Suites under the EA Program Terms, You must first submit the applicable EUIF, and Enrollment Description signed by Your authorized representative to the Approved Source. The EUIF must list: (a) Your Participating Affiliates; (b) the Purchased Suites; (c) the Suite Term; and (d) accurate Meter counts for You and all Participating Affiliates. You will then be required to place an order for the Purchased Suites according to the process set forth in Your purchasing agreement with the Approved Source.

2. **Access To Purchased Suites.** Subject to Your payment of the applicable fees to the Approved Source, Cisco will grant You and all Participating Affiliates the right to Consume the Purchased Suites during the Suite Term via the EA Workspace or as otherwise set forth in the applicable Enrollment Description. You must pay for all Software and Cloud Services Consumed. You are responsible for keeping all login credentials to the EA Workspace secure and for the actions of any individual You or a Participating Affiliate authorize to access the EA Workspace, including payment for any Software or Cloud Services Consumed by such individuals.

3. **Enterprise-wide Commitment.** The Approved Source relies on the information You provide in the EUIF to establish the Enterprise-wide Commitment. During the Suite Term, Your payment obligation related to the Enterprise-wide Commitment may increase as a result of any of the following: (a) You exceed the Initial Growth Cap (as described in section 5); (b) You exceed the Initial Entitlement or the previous year's Entitlement subject to a True Forward (as described in section 6); or (c) You purchase an additional Suite (as described in section 9).

4. **Term & Termination.**

   a. **Term.** The Term of the EA Program Terms will commence on the date of signature and continue so long as there is an active Purchased Suite, unless earlier terminated in accordance with section 4(c)(i), below.

   b. **Suite Term.** The Suite Term for each Purchased Suite will commence on the Suite Start Date and last for the period set forth in the EUIF, or as specified in the order with the Approved Source, unless terminated in accordance with section 4(c)(i), below.

   c. **Termination.**

      i. Either party may terminate the EA Program Terms or a Purchased Suite if the other party materially breaches the EA Program Terms and does not cure the breach within 30 days of written notice of the breach.

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End User Information Form Acceptance

THE UNDERSIGNED REPRESENTS THAT THEY ARE AUTHORIZED TO SIGN THIS FORM ON THE END USER'S BEHALF AND THAT THE INFORMATION PROVIDED, INCLUDING METER COUNTS FOR THE END USER AND ITS PARTICIPATING AFFILIATES, IS ACCURATE AS OF THE DATE OF SIGNATURE. THE UNDERSIGNED UNDERSTANDS THAT THE APPROVED SOURCE RELIES UPON THE INFORMATION PROVIDED IN THIS FORM TO ESTABLISH THE PRICE QUOTE FOR THE END USER'S PURCHASE.

I HAVE READ THE EA PROGRAM TERMS INCLUDED AND DEFINED BELOW AND UNDERSTAND THAT IN THE EVENT OF A PURCHASE, THESE EA PROGRAM TERMS APPLY TO THE SOFTWARE AND SERVICES AS DESCRIBED IN THE EA PROGRAM TERMS.

End User Organization	
Full Legal Name of the End User Organization (e.g., company, government entity) You Represent	Cook County
Authorized Representative Name	
Authorized Representative Title	
Date	
End User Authorized Representative Signature	



a. Cisco performs a True Forward for the Purchased Suites on each anniversary of the Suite Start Date. On the first anniversary of the Suite Start Date, if You have exceeded the Initial Entitlement, the Approved Source will charge You for the Consumption above the Initial Entitlement through the remainder of the Suite Term. On each subsequent anniversary of the Suite Start Date, the Approved Source will charge You for any Consumption above the previous year's Entitlement through the remainder of the Suite Term.

b. Your True Forward payment obligation for each Purchased Suite will be calculated by comparing Your Consumption of Software and Cloud Services to Your Entitlement for the previous year. Any payment owed to the Approved Source will be determined as follows and reflected in the price quote from the Approved source: the unit price less any applicable discount or incentive multiplied by the quantity by which You exceeded Your then-current Entitlement. The price used to calculate any True Forward fees will be established when You place the order for each Purchased Suite.

c. For some Suites, a portion of Your True Forward payment obligation may be offset by the residual value remaining in Software or Cloud Services in the same Suite. This process is called value shift, and the applicable Enrollment Description indicates whether and to the extent value shift applies to a given Suite.

d. There is no fee for exceeding the Entitlement in the final year of the Suite Term.

7. **Updates to Purchased Suites.** Cisco may enhance or refine the Purchased Suites at no additional cost to You. Such updates will not materially reduce the core functionality of the Purchased Suites.

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3. **Enterprise-wide Commitment.** The Approved Source relies on the information You provide in the EUIF to establish the Enterprise-wide Commitment. During the Suite Term, Your payment obligation related to the Enterprise-wide Commitment may increase as a result of any of the following: (a) You exceed the Initial Growth Cap (as described in section 5); (b) You exceed the Initial Entitlement or the previous year's Entitlement subject to a True Forward (as described in section 6); or (c) You purchase an additional Suite (as described in section 9).

4. **Term & Termination.**

a. **Term.** The Term of the EA Program Terms will commence on the date of signature and continue so long as there is an active Purchased Suite, unless earlier terminated in accordance with section 4(c)(i), below.

b. **Suite Term.** The Suite Term for each Purchased Suite will commence on the Suite Start Date and last for the period set forth in the EUIF, or as specified in the order with the Approved Source, unless terminated in accordance with section 4(c)(i), below.

c. **Termination.**

i. Either party may terminate the EA Program Terms or a Purchased Suite if the other party materially breaches the EA Program Terms and does not cure the breach within 30 days of written notice of the breach.

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ii. In the event of Your uncured material breach of the EA Program Terms for non-payment of fees to the Approved Source, Cisco may, in lieu of termination of the Program Terms pursuant to section 4(c)(i), suspend Your right to Consume the Software and Cloud Services in the Purchased Suite and suspend Your access to the EA Workspace, until Your breach has been cured.

iii. In the event of Your termination for Cisco's uncured material breach of the EA Program Terms, Cisco will refund to the Approved Source (or You, if You purchased directly from Cisco) any fees You paid covering the period after the effective date of termination.

iv. Other than as provided in this section 4 and to the extent permitted by law, the EA Program Terms, and any orders placed thereunder are non-cancellable and may not be terminated.

d. **Effect of Termination; End of Suite Term.** Upon termination or at the end of the Suite Term:

i. The following rights will terminate with respect to the Purchased Suites: (1) Your right to Consume Cloud Services and Software; (2) Your right to access the EA Workspace; (3) Your right to receive Support Services; and

ii. You must destroy the product activation keys (PAKs) provided in connection with the Purchased Suites.

5. **Initial Growth Cap.** If You exceed the Initial Growth Cap during the first six months of the Suite Term, the Approved Source may charge You for such Consumption above the Initial Growth Cap. If the Purchased Suite includes a Growth Allowance (described in the applicable Enrollment Description), the Growth Allowance cannot be used to offset fees for exceeding the Initial Growth Cap.

6. **True Forward.**

a. Cisco performs a True Forward for the Purchased Suites on each anniversary of the Suite Start Date. On the first anniversary of the Suite Start Date, if You have exceeded the Initial Entitlement, the Approved Source will charge You for the Consumption above the Initial Entitlement through the remainder of the Suite Term. On each subsequent anniversary of the Suite Start Date, the Approved Source will charge You for any Consumption above the previous year's Entitlement through the remainder of the Suite Term.

b. Your True Forward payment obligation for each Purchased Suite will be calculated by comparing Your Consumption of Software and Cloud Services to Your Entitlement for the previous year. Any payment owed to the Approved Source will be determined as follows and reflected in the price quote from the Approved source: the unit price less any applicable discount or incentive multiplied by the quantity by which You exceeded Your then-current Entitlement. The price used to calculate any True Forward fees will be established when You place the order for each Purchased Suite.

c. For some Suites, a portion of Your True Forward payment obligation may be offset by the residual value remaining in Software or Cloud Services in the same Suite. This process is called value shift, and the applicable Enrollment Description indicates whether and to the extent value shift applies to a given Suite.

d. There is no fee for exceeding the Entitlement in the final year of the Suite Term.

7. **Updates to Purchased Suites.** Cisco may enhance or refine the Purchased Suites at no additional cost to You. Such updates will not materially reduce the core functionality of the Purchased Suites.

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8. **End of Life.** Notwithstanding anything in the EA Program Terms to the contrary, Cisco reserves the right to discontinue a Suite with at least three years' prior notice. If a Purchased Suite is discontinued, Cisco will either: (a) provide You a substantially similar replacement Suite for the remainder of the Suite Term; or (b) issue a credit to the Approved Source (or You, if You purchased directly from Cisco) for any fees You paid for the Purchased Suite covering the period after the last date such Purchased Suite is available for You to Consume. Such credit can be applied towards the future purchase of Cisco products and services.

9. **Purchasing Additional Suites.** You may purchase additional Suites by submitting a new EUIF and order to the Approved Source. Additional Suites may co-terminate with a pre-existing Purchased Suite provided there are at least 12 months remaining in the Suite Term of such pre-existing Purchased Suite. Otherwise, additional Purchased Suites will be given a new Suite Term and will be subject to the then-current EA Program Terms in accordance with section 10, below.

10. **Modifications.** As our business evolves, Cisco may modify the EA Program Terms. Updated EA Program Terms do not apply to pre-existing Purchased Suites or to future orders that co-terminate to a pre-existing Purchased Suite, which will be governed by the version of the EA Program Terms already in effect for the pre-existing Purchased Suite.

11. **Participating Affiliates.** You are responsible for Your Participating Affiliates' compliance with the EA Program Terms.

12. **Support Services.** Basic Support Services are included in the price of the Purchased Suite and described in the applicable Enrollment Description and Licensing Documents. Higher levels of Support Services may be available for You to purchase and, if You elect to do so, will be described in documentation provided to You at the time of purchase.

13. **Importation Fee for Embedded Software.** For Purchased Suites that include Embedded Software, the value of Embedded Software will be deducted from the purchase price of the related Cisco hardware. If You are required to pay an Importation Fee, Your jurisdiction may use the value of both the hardware and Embedded Software to calculate the Importation Fee. Accordingly, the Importation Fee on the value of the combined products may be higher than if calculated solely using the price of the hardware.

14. **Delivery of Embedded Software.** Embedded Software is delivered pre-installed on Cisco hardware to the address provided on the purchase order for the Cisco hardware. Your use of the smart licensing account Cisco designates for the Embedded Software will ensure accurate pricing of the Embedded Software.

15. **No Assignment & Transfer.** Neither the EA Program Terms, nor any right or obligation herein may be assigned or transferred by a party (including under Cisco's Software Transfer and Relicensing Policy) without the other party's prior written consent, which may not be unreasonably conditioned, withheld, or delayed. Any attempted assignment without the other party's consent shall be void and of no effect. Notwithstanding the foregoing, Cisco may assign the EA Program Terms and any right or obligation herein to a Cisco Affiliate without Your consent.

16. **Verification.** Upon reasonable request from Cisco, You will assist Cisco in verifying the quantity of Software and Cloud Services that You have Consumed. If the verification discloses Consumption above Your then-current Entitlement, the Approved Source will charge You for the excess Consumption in accordance with the EA Program Terms.

17. **Combined Discounts.** The pricing, discounts, and other incentives offered in connection with a Purchased Suite may not be combined with any other price reductions, discounts, promotional pricing, rebates, credits, trade-in, or other pricing programs or incentives offered by Cisco unless expressly agreed by Cisco in writing.

18. **Entire Agreement.** The EA Program Terms constitute the entire agreement between the parties concerning the Cisco Enterprise Agreement Program and supersede all prior oral or written communications between the parties concerning the program.

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19. **Order of Precedence.** The documents comprising the EA Program Terms are complimentary, and to the extent possible, construed and interpreted consistently. In the event of an inconsistency, conflict, or ambiguity between the EA Program Terms, the order of precedence for any Purchased Suite is first the EUIF, then the Enrollment Description, and then these terms and conditions. The EA Program Terms take precedent over the applicable Licensing Documents.

20. **Definitions.**

a. "**Affiliate**" means, with respect to a party, any entity that directly or indirectly Controls, or is Controlled by, or is under common Control with such party. "**Control**" means to: (a) own more than 50% of the relevant party; or (b) be able to direct the affairs of the relevant party through any lawful means (e.g., a contract that allows control).

b. "**Approved Source**" means Cisco or a Cisco authorized reseller, distributor, or systems integrator.

c. "**Cisco**" means Cisco Systems, Inc. or its applicable Affiliate delivering the EA Program Terms.

d. "**Cloud Service**" means the Cisco hosted software-as-a-service listed in the applicable Enrollment Description.

e. "**Consume**" or "**Consumption**" means to download, install, activate, provision, enable, or otherwise access Software or Cloud Services.

f. "**EA Program**" has the meaning given to it in the introductory paragraph.

g. "**EA Program Terms**" has the meaning given to it in the introductory paragraph.

h. "**EA Workspace**" means the portal from where You Consume Software and Cloud Services and view and manage Your Entitlement.

i. "**Embedded Software**" means Software that is delivered on newly purchased Cisco hardware.

j. "**End User**," "**You**," or "**Your**" means the final purchasing entity as identified on the EUIF.

k. "**Enterprise-wide Commitment**" means Your purchase commitment in the Purchased Suite for You and all Participating Affiliates, as reflected on the EUIF.

l. "**Entitlement**" means, at any point in time during the Suite Term, the type and quantity of Software and Services as determined by the Meter counts for which You have already paid the applicable fees to the Approved Source.

m. "**Enrollment**" means a combination of Suites belonging to the same Cisco product family. Cisco DNA, Cisco Data Center, Cisco Security Choice, Cisco Meraki, and Cisco Collaboration Flex Plan each represent an Enrollment.

n. "**Enrollment Description**" means the supplemental program terms and description governing an Enrollment.

o. "**EUIF**" means the End User Information Form for the Purchased Suite.

p. "**EULA**" mean's Cisco End User License Agreement, available at cisco.com/go/eula (or similar terms existing between You and Cisco).

q. "**Growth Allowance**" means the right to exceed the Initial Entitlement without incurring additional fees as set forth in the applicable Enrollment Description.

r. "**Importation Fee**" means an import duty or tax on the purchase of Cisco hardware.

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s. **"Initial Entitlement"** means Your Entitlement at the start of the Suite Term as determined by the Meter counts for You and all Participating Affiliates provided on the EUIF.

t. **"Initial Growth Cap"** means 105% of the Initial Entitlement.

u. **"Licensing Documents"** means the EULA and SEULAs for the Software and the EULA and ODs for the Cloud Services in the Purchased Suites (or similar terms existing between You and Cisco). The applicable Licensing Documents are listed in the Enrollment Description for each Purchased Suite.

v. **"Meter"** means the unit of measurement for Software or Cloud Services Consumption.

w. **"OD"** means the offer description and supplemental licensing terms governing Cloud Services.

x. **"Participating Affiliates"** means Your Affiliates whose Meter counts are included on the EUIF.

y. **"Purchased Suites"** has the meaning given to it in the introductory paragraph.

z. **"Services"** means both Cloud Services and Support Services.

aa. **"SEULA"** means the supplemental licensing terms governing Software.

bb. **"Software"** means the Cisco software listed in the applicable Enrollment Description.

cc. **"Suite"** means a combination of Software and Services in an Enrollment.

dd. **"Suite Start Date"** means, with respect to each Purchased Suite, the earliest date any Software or Cloud Service in the Purchased Suite is made available for You to Consume.

ee. **"Suite Term"** means, with respect to each Purchased Suite, the duration of the Purchased Suite.

ff. **"Support Services"** means maintenance, technical assistance, or other support provided for the Software and Cloud Services in a Purchased Suite.

gg. **"Term"** means the duration of the EA Program Terms.

hh. **"True Forward"** means an annual adjustment to account for exceeding the previous year's Entitlement.

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Cisco Collaboration Flex Plan Enrollment Description & Supplemental EA Program Terms

This Enrollment Description lists the available Suites and additional terms and conditions that apply to the Cisco Collaboration Flex Plan Enrollment. You may purchase any or all of the Suites available under the Cisco Collaboration Flex Plan Enrollment, but the collection of Software and Cloud Services that comprise a Suite may not be modified.

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan Meetings Enterprise Agreement	Cisco Meeting Server	Software	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	Cisco Webex Meetings	Cloud Service		
	Cisco Webex app	Cloud Service		

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan Calling Enterprise Agreement	Cisco Webex app	Cloud Service	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	Cisco Webex Calling; or Cisco Webex Calling for SP; or Cisco Webex Calling (formerly Cisco Spark Call)	Cloud Service		
	UCM Cloud Calling	Cloud Service		
	Partner-Hosted Unified Communications Calling	Software		
	On-Premises Unified Communications Manager Calling	Software		

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan for Education Meetings Enterprise Agreement	Cisco Meeting Server	Software	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker; Student
	Cisco Webex Meetings	Cloud Service		
	Cisco Webex app	Cloud Service		

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan for Education Calling Enterprise Agreement	Cisco Webex Calling (formerly Cisco Spark Call)	Cloud Service	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	On-Premises Unified Communications Manager Calling	Software		

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Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan Enterprise Agreement for Public Sector	Cisco FedRAMP Webex Meetings	Cloud Service	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	Unified Communications Manager Cloud for Government	Cloud Service		

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Flex Plan Enterprise Agreement for FedRAMP	Cisco FedRAMP Webex Meetings	Cloud Service	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	Unified Communications Manager Cloud for Government	Cloud Service		
	On-Premises Unified Communications Manager Calling	Software		
	Cisco Webex app	Cloud Service		

Suite	Included Licenses	License Type	Licensing Documents	Meter
Cisco Collaboration Webex Suite	Cisco Webex Meetings	Cloud Service	Cisco Collaboration Flex Plan OD; EULA	Deployed Knowledge Worker
	Cisco Webex App	Cloud Service		
	Cisco Webex Calling; or Webex Calling Dedicated Instance	Cloud Service		
	Webex Events 5000	Cloud Service		

Supplemental Terms and Conditions

Applicable Meters

The Meter for the Cisco Collaboration Flex Plan Enrollment is the number of Deployed Knowledge Workers.

"**Deployed Knowledge Worker**" means a Knowledge Worker who has a profile configured within the Software or Cloud Service provisioning platform and associates that profile with the applicable desk phone, Jabber client, Webex app, mobile phone, video device, or personal computing device. You must assign each Knowledge Worker a cloud, on-premises, or hosted account to be treated as a single Deployed Knowledge Worker. A Knowledge Worker who is assigned more than one configuration (cloud, on-premises, or hosted) will be counted as multiple Deployed Knowledge Workers. Changing a Knowledge Worker's configuration to a new deployment model may result in an increased price, with any applicable fees being assessed at the time the new account is configured. "**Knowledge Worker**" means an employee or contractor who utilizes devices capable of running the Software, Cloud Services, or related browser plug-ins as part of their job duties.

If You purchase the Cisco Collaboration Flex Plan for Education Meetings Enterprise Agreement Suite, Your Students may Consume the Purchased Suite free of charge. "**Student**" means an individual who is currently

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enrolled or registered at Your institution for academic study on a full- or part-time basis. Employees, contractors, alumni, former students, prospective students, and students on an extended leave or indefinite absence are not considered Students. You will be required to provide a Student count on the EUIF. Thirty days prior to the True Forward event, you or your Reseller must update your order to reflect the number of Students provisioned at that time, which will be used to determine if you have exceeded your Growth Allowance. Failure to update your subscription will result in the additional Students being counted as Deployed Knowledge Workers for purposes of the True Forward.

Access to Purchased Suites

The Cisco Collaboration Flex Plan Enrollment does not utilize the EA Workspace. Subject to Your payment of the applicable fees to the Approved Source, Cisco will grant You and all Participating Affiliates access to the Purchased Suites via automated integrated electronic delivery tools and email notification to the point of contact designated in the order.

Purchasing Additional Suites

During the Suite Term, You may add another Cisco Collaboration Flex Plan Suite without submitting a new EUIF.

Common Area Licenses

Common area licenses are calling licenses not associated with Knowledge Workers that are intended to be used in lobbies, conference rooms, and other public spaces. If Your Consumption of common area licenses exceeds 50% of Your then-current Deployed Knowledge Worker count, the Approved Source may charge You for such excess Consumption.

Term and Termination

At the end of the Suite Term, the Purchased Suite will automatically renew for one year (a "**Renewal Suite Term**") unless: (a) You elect on the order not to auto-renew; or (b) at least 30 days before the end of then-current Suite Term, You notify the Approved Source of Your intention not to renew the Purchased Suite. If the Growth Allowance has not been exceeded, the Purchased Suite will renew for the Knowledge Worker count on the EUIF. If the Growth Allowance has been exceeded, the Purchased Suite will renew for the Deployed Knowledge Worker count at the end of the then-current Suite Term.

Notwithstanding the foregoing, the Approved Source will notify You of any fee changes reasonably in advance of the Renewal Term. The new fees will apply for the upcoming Renewal Term unless You notify the Approved Source that You do not accept the fee changes before the next Suite Start Date.

Growth Allowance

The Growth Allowance for the Cisco Collaboration Flex Plan Enrollment is 20%. During the Suite Term, You may Consume up to 120% of the Initial Entitlement without incurring any additional charges. The True Forward is calculated once You exceed the Growth Allowance. For clarity, if You exceed the Initial Entitlement but do not exceed the Growth Allowance, You will not incur any True Forward charges.

Support Services

The basic Support Services are set forth in the Cisco Collaboration Flex Plan OD.

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Supplemental Terms and Conditions for Cisco Collaboration Webex Suite

Definitions

"Downturn" means an event such as a corporate divestiture, merger, acquisition, or significant restructuring or reorganization of your business that causes a reduction of your Knowledge Workers by 20% or more.

Growth Allowance

The Growth Allowance for the Cisco Collaboration Webex Suite is 15%. During the Suite Term, You may Consume up to 115% of the Initial Entitlement without incurring any additional charges. The True Forward is calculated once You exceed the Growth Allowance. For clarity, if You exceed the Initial Entitlement but do not exceed the Growth Allowance, You will not incur any True Forward charges.

Downturn

After the first 12 months of the Suite Term, You have the ability to reduce Your Knowledge Worker quantity for the Cisco Collaboration Webex Suite Enrollment by up to 20%, if such reduction is: a) attributed to Downturn; and, b) does not cause Your Knowledge Worker quantity to fall below the minimum requirement of 250 Knowledge Workers. You may request only one Downturn reduction for the Collaboration Webex Suite during the Suite Term. If You reduce Your Knowledge Worker quantity for the Cisco Collaboration Webex Suite due to Downturn, You may be required to provide Cisco with a revised EUIF. No refunds or credits will be provided for any services that have been delivered and/or invoiced.

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14.0 Definitions of Terms

- **ACL** – Access Control List.
- **AD** – Active Directory.
- **A-Flex-3** – Is a licensing bundle for Cisco Webex Meeting and Calling. It is a new, simple way of quoting and purchasing licenses for Cisco UC and Collaboration System.
- **AP** – Access Point.
- **ASAs** – Adaptive Security Appliance.
- **BAFO** – Best and Final Offer.
- **BGP** – Border Gateway Protocol.
- **Board** – The Cook County Board of Commissioners.
- **BoT** – Bureau of Technology.
- **CCHHS** – Cook County Health and Hospital Systems, an agency of the County.
- **CCIE** – Cisco Certified Internetwork Expert is a technical certification offered by Cisco Systems.
- **CCNA** – Cisco Certified Network Associate is an information technology (IT) certification from Cisco Systems.
- **CCNP** – Cisco Certified Network Professional is a person in the IT industry who has achieved the professional level of Cisco Career Certification.
- **Change Request** – A formal request for change of scope or services between the County and the Proposer.
- **Cisco TAC Support** – Total activity control.
- **CJIS** – Criminal Justice Information Systems.
- **Contract Year** – A year's length in time from the signing of the contract, may not necessarily follow a calendar year.
- **County** – Cook County.
- **CPO** – Chief Procurement Officer.
- **CPU** – Central processing unit, principal part of any digital computer system, generally composed of the main memory, control unit, and arithmetic-logic unit.
- **CSM** – Customer Success Manager.
- **DC** – Data Center.
- **Deployed Knowledge Worker** – Means a Knowledge Worker who has a profile configured within the installed Cisco Technology provisioning platform and associates that profile with the applicable desk phone, any Jabber client, any Webex app client, mobile phone, video Device, or personal computing Device, as applicable.
- **DHCP** – Dynamic host control protocol.
- **DNS** – Domain name server.
- **DR** – Disaster Recovery.
- **DS-3** – Digital Signal-3.
- **DWDM** – Dense wave division multiplexing.
- **Effective Date** – Effective date of the Service Agreement as determined between the County and the Proposer.
- **Enterprise Insight** – The Contractor's Monitoring Portal
- **Equipment** – Equipment is any device used in operation and management of the network and is inclusive of hardware, firmware, software, operating system and any peripheral required to make operational.
- **External Pentest** – External penetration testing is a practice that assesses the externally facing assets for an organization. During an external penetration test, the assessor attempts to gain entry into the internal network by leveraging vulnerabilities discovered on the external assets.
- **Facilities Management** – The function responsible for managing the physical environment where the IT infrastructure is located. Facilities management includes all aspects of managing the physical environment – for example, power and cooling, building access management, and environmental monitoring.
- **FTE** – Full-time Employee or equivalent.
- **GDT** – Company name.

- **HIDS** – Host-based intrusion detection service.
- **HIPAA** – Health Insurance Portability and Accountability Act.
- **ID** – Identification.
- **IDS/IPS** – Intrusion detection systems and intrusion prevention systems.
- **IMACs** – Install, move, add and change.
- **Incident management** – The process responsible for managing the lifecycle of all incidents. Incident management ensures that normal service operation is restored as quickly as possible and the business impact is minimized.
- **Internal Pentest** – Internal network penetration testing performed by qualified experts is aimed at identifying whether an insider attack can take place. Insiders are anyone such as members of teams, partners, or contractors who can access organizational applications, corporate information, and systems. Internal penetration testing is carried out by imitating the activities performed both by authenticated and non-authenticated users to estimate the scope of potential exploits.
- **IP** – Internal protocol.
- **ISO** – Information Security Office.
- **IT** – Information Technology.
- **ITIL** – Information Technology Infrastructure Library.
- **ITSM** – Information Technology Service Management.
- **Knowledge Workers** – Means the County's employees and contractors who use communications devices (applicable desk phone, any Jabber client, any Webex app client, mobile phone, video Device, or personal computing Device) capable of running the Cisco Technology provisioning platform and associates that profile with voicemail as part of their duties performed on the County's behalf.
- **KPI** – Key Performance Indicator.
- **LAN** – Local Area Network (LAN) is a network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building. By contrast, a wide area network (WAN) not only covers a larger geographic distance, but also generally involves leased telecommunication circuits.
- **LEC** – page 13
- **MACD** – Moves, Adds, Changes or Deletes. Any order for a move, add, change or a disconnection of services. Often referred to as provisioning activity.
- **MBE/WBE** – Minority and/or Women Owned Businesses.
- Measurement Interval – Time between the measurements of SLAs.
- **MSP** – Managed Service Proposer.
- **MSTP/MSPP** – Multiservice transport platform / multiservice provisioning platform.
- **NCC** – Network Control Center. One or more locations from which network monitoring and control, or network management, is exercised over a telecommunications network.
- **NCM** – Network Configuration Manager.
- **NDA** – Non-Disclosure Agreement.
- **NE** – Network Engineer.
- **NIDS** – Network-based intrusion detection service.
- **NIST** – National Institute of Standards and Technology.
- **NOC** – Network operations center.
- **Normal Service Hours** – The hours of on-site operation which are 6 a.m. to 10p.m. Central time Monday through Friday.
- **OC-12** – Optical carrier 622.8 MBPS lease line.
- **OC-48** – Optical carrier 2.48 GBPS lease line.
- **OCJ** – Office of the Chief Judge, an agency of the County.
- **OEM** – Optional Equipment Manufacturer.
- **OLA** – Operating Level Agreement.
- **ONS** – Optical Network Services. A transport medium for delivering network traffic through Dense Wave Division Multiplexing.
- **OSPF** – Open shortest path first.
- **OUP** – Office under president of the County.

- **PDA** – Personal digital assistant.
- **POC** – Point of Contact.
- **POE** – Power over Ethernet.
- **PRI** – Primary rate interface.
- **Pricing Response** – The pricing response(s) to this RFP and SOWs.
- **Proposal(s)** – a vendor's response to this RFP. May also be referred to in this RFP as a "Technical Response" or "Response".
- **Proposer(s)** – Vendors who will be providing the services identified in the RFP and SOWs and/or are bidding on this RFP.
- **PRTG** – Monitoring software.
- **Q&A** – Question and Answer.
- **QA** – Quality assurance.
- **QoS** – Quality of Service.
- **RAS** – Remote access server.
- **RFP** – Request for Proposal.
- **ROD** – Recorder of Deeds, an agency of the County.
- **ROI** – Return on Investment.
- **SAO** – States Attorney Office, an agency of the County.
- **SD-WAN** – A software-defined approach to managing the wide-area network through a centralized interface in a cloud-delivered SD-WAN architecture.
- **Service Agreement(s)** – A contract or contracts between the County and a Proposer for goods or services identified in this RFP.
- **SIP** – Session initiated protocol.
- **SLA** – Service Level Agreement. A commitment between Proposer (provider) and County (client). Particular aspects of the service, as described within this RFP, are agreed between the service provider and the client. The services should be provided to the customer as agreed upon in the contract.
- **SMS** – Sentinel monitoring systems.
- **SOW** – Statement of Work.
- **SQL** – Structured Query Language is a programing language which is used to access data stored in a database.
- **SSID** – Service set identifier.
- **TBD** – To be determined.
- **TCP/IP** – Transmission control protocol / internet protocol.
- **Transition Period** – 90 days.
- **UC** – Unified communications.
- **UCCE/UCCX** – Unified contact center enterprise / Unified contact center express.
- **VLSM** – Variable length subnet mask.
- **VoIP** – Voice over Internet Protocol is a method and group of technologies for the delivery of voice communications over Internet Protocol (IP) networks, such as the Internet.
- **VPN** – A virtual private network (VPN) extends a private network across a public network and enables users to send and receive data across shared or public networks as if their computing devices were directly connected to the private network. Applications running across a VPN may therefore benefit from the functionality, security, and management of the private network. Encryption is an essential component of a VPN connection.
- **Vulnerability Assessment** – A vulnerability assessment is the process of identifying, quantifying, and prioritizing (or ranking) the vulnerabilities in a system.
- **WAN** – Wide Area Network. A telecommunications network that extends over a large geographic area for the primary purpose of computer networking. Wide area networks are often established with leased telecommunication circuits.
- **WLAN** – Wireless Network (WLAN) is a wireless computer network that links two or more devices using wireless communication to form a local area network (LAN).

EXHIBIT 2

Schedule of Compensation

Summary of Contract Value Calculation This table is an estimate of forecasted expenditures and is in no way a guarantee of amounts due to Contractor.

		Annual Cost	Monthly Service Fee
Monthly Fixed Service Fee			
	YEAR 1 ESTIMATE	$2,117,976	$176,498.00
	YEAR 2 ESTIMATE	$2,160,336	$180,028.00
	YEAR 3 ESTIMATE	$2,203,542	$183,629.00
	YEAR 4 ESTIMATE	$2,247,613	$187,301.00
	YEAR 5 ESTIMATE	$2,292,565	$191,047.00
	Subtotal Network Services	$11,022,032	$918,503.00
Estimated Network Consulting Fees			
	YEAR 1 ESTIMATE	$175,000	
	YEAR 2 ESTIMATE	$175,000	
	YEAR 3 ESTIMATE	$175,000	
	YEAR 4 ESTIMATE	$175,000	
	YEAR5 ESTIMATE	$175,000	
	Subtotal Network Consulting	$875,000	
Equipment, Maintenance Repair and Support			
	YEAR 1 ESTIMATE	$1,095,412	
	YEAR 2 ESTIMATE	$1,935,485	
	YEAR 3 ESTIMATE	$2,090,896	
	YEAR 4 ESTIMATE	$2,273,093	
	YEAR 5 ESTIMATE	$2,414,005	
	Subtotal Equipment, Maintenance Repair and Support	$9,808,891	
	Total Estimated Contract Value	$21,705,923	

Network Services

Service Recipient: Cook County

4/5/2021

Vendor Name: Sentinel

Service Components	Year 1 Price Per Month		Year 2 Price Per Month		Year 3 Price Per Month		Year 4 Price Per Month		Year 5 Price Per Month	
	Monthly Unit Cost	Monthly Total	Monthly Unit Cost	Monthly Total	Monthly Unit Cost	Monthly Total	Monthly Unit Cost	Monthly Total	Monthly Unit Cost	Monthly Total
Network/Project Manager	$ 121.37	$ 20,228.25	$ 123.80	$20,632.82	$ 126.27	$21,045.47	$ 128.80	$21,466.38	$ 131.37	$21,895.71
Operations Manager & Network Engineer I	$ 74.23	$ 12,371.62	$ 75.71	$12,619.05	$ 77.23	$12,871.43	$ 78.77	$13,128.86	$ 80.35	$13,391.44
Senior Engineer	$ 118.40	$ 19,733.25	$ 120.77	$20,127.92	$ 123.18	$20,530.48	$ 125.65	$20,941.09	$ 128.16	$21,359.91
Network Engineer II - 1st Shift	$ 91.34	$ 15,223.27	$ 93.17	$15,527.74	$ 95.03	$15,838.29	$ 96.93	$16,155.06	$ 98.87	$16,478.16
Network Engineer II - 2st Shift	$ 95.85	$ 15,974.94	$ 97.77	$16,294.43	$ 99.72	$16,620.32	$ 101.72	$16,952.73	$ 103.75	$17,291.78
Network Engineer II - 1st Shift	$ 91.34	$ 15,223.27	$ 93.17	$15,527.74	$ 95.03	$15,838.29	$ 96.93	$16,155.06	$ 98.87	$16,478.16
Network Engineer II - 1st Shift	$ 91.34	$ 15,223.27	$ 93.17	$15,527.74	$ 95.03	$15,838.29	$ 96.93	$16,155.06	$ 98.87	$16,478.16
Network Engineer I - 1st Shift	$ 73.29	$ 12,214.95	$ 74.76	$12,459.25	$ 76.25	$12,708.44	$ 77.78	$12,962.60	$ 79.33	$13,221.86
Network and Voice Monitoring and Reporting Services	$ 11,265.33	$ 11,265.33	$ 11,490.64	$11,490.64	$ 11,720.45	$11,720.45	$ 11,954.86	$11,954.86	$ 12,193.96	$12,193.96
Senior Voice Engineer- Tier II Support	$ 127.73	$ 21,288.25	$ 130.28	$21,714.01	$ 132.89	$22,148.29	$ 135.55	$22,591.26	$ 138.26	$23,043.08
Voice Engineer- Tier II Support	$ 106.51	$ 17,751.60	$ 108.64	$18,106.63	$ 110.81	$18,468.76	$ 113.03	$18,838.14	$ 115.29	$19,214.90
Voice Equipment Maintenance, Repair and Technical Support- See SOW Exhibit B	$ -	$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
Network Equipment Maintenance, Repair and Technical Support- Included in SOW EXHIBIT A		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
Note: Sentinel can propose this service as an annual fee upon renewal of existing contract once the voice project is complete and all devices have been identified for quoting.		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
Penetration Testing (Annual Option $14,400) ***- External Penetration Test*** (Includes reconnaissance, discovery, exploitation, and full reporting with remediation details) - 50 Public IP Addresses		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
Penetration Testing (Annual Option $16,175) ***- Internal Penetration Test*** (Includes reconnaissance, discovery, exploitation, and full reporting with remediation details) - 2,000 Devices (Workstations, Servers, Cameras, Printers, IoT devices, etc.)		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
Vulnerability Scanning (Annual Option $12,431) ***- Advisory Services Analysis*** (Includes Tenable Nessus Professional 1 year license, Professional Services for Installation & Configuration)		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
		$ -	$ -	$0.00	$ -	$0.00	$ -	$0.00	$ -	$0.00
FEE FOR SERVICES BASED ON ESTIMATED WORKLOAD FOR PROPOSED SOLUTION		**$ 176,498**		**$ 180,028**		**$ 183,629**		**$ 187,301**		**$ 191,047**
	ANNUAL FEE	**$ 2,117,976.03**		**$ 2,160,336**		**$ 2,203,542**		**$ 2,247,613**		**$ 2,292,565**

T&M Resources Hourly Rate Sheet	
Service Recipient:	**Cook County**
5-Apr-2021	
Vendor Name:	Sentinel Technologies

Best and Final Offer

All Rates must be USD Net of Taxes	**Hourly Rates 8hr Minimum**			
Job Title / Labor Category	**Senior 12+**	**Senior 7+**	**Intermediate 4+**	**Junior**
Network Architect	$ 165.00	$ 150.00	$ -	$ -
Network Project Manager	$ 143.00	$ 130.00	$ -	$ -
Network Operations Analyst	$ 115.00	$ 110.00	$ -	$ -
Network Operations Manager	$ 121.00	$ 110.00	$ -	$ -
Senior Network Engineer	$ 165.00	$ 150.00	$ -	$ -
Network Engineer	$ 110.00	$ 100.00	$ -	$ -
Security Engineer	$ 160.00	$ 150.00	$ -	$ -
Other Resources / Subject Matter Experts for Projects or Emergencies	$ -	$ 150.00	$ -	$ -

Senior 12+ - Bachelor's Degree with more than 12 years in role;
Senior 7+ - Bachelor's Degree with more than 7 years in role;
Intermediate 4+ - Bachelor's Degree with 4+ years in role,
Junior - Bachelor's Degree with less than 4 years in role;

Equipment Discounts		
Service Recipient:	**Cook County**	
5-Apr-2021		
Vendor Name:	**Sentinel Technologies**	
	Original Equipment Manufacturer	**Percentage Discount%**
4.001	Cisco	Sentinel Cost + 5%
4.002	HP	Sentinel Cost + 5%
4.003	Dell	Sentinel Cost + 5%
4.004	3PAR	Sentinel Cost + 5%
4.005	Netgear	Sentinel Cost + 5%
4.006	Cradlepoint	Sentinel Cost + 5%
4.007	Commscope	Sentinel Cost + 5%
4.008	Emerson	Sentinel Cost + 5%
4.009	Motorola	Sentinel Cost + 5%

SLA Service Credits

Cook County

Sentinel Technologies

Company Name

Service Level Agreements (SLA) Service Credits

Service Type	Service Measure	Performance Target	SLA	Proposed $ (dollar) Credit if missed within a monthly interval	Notes
Circuit Availability —Critical Locations	Availability	*Sun-Sat, 0000-2400*	0.00%	$ -	SLA is with Carrier
Circuit Availability—Standard Locations	Availability	*Sun-Sat, 0000-2400*	0.00%	$ -	SLA is with Carrier
Internet Access Availability	Availability	*Sun-Sat, 0000-2400*	99.90%	$ 86.07	Per device, per month the SLA was missed
Router Availability - Critical Locations	Availability	*Sun-Sat, 0000-2400*	99.99%	$ 430.35	Per device, per month the SLA was missed
Router Availability - Standard Location	Availability	*Sun-Sat, 0000-2400*	99.90%	$ 86.07	Per device, per month the SLA was missed
LAN Availability – Critical Location	Availability	*Sun-Sat, 0000-2400*	99.99%	$ 430.35	Per device, per month the SLA was missed
LAN Availability - Standard Location	Availability	*Sun-Sat, 0000-2400*	99.90%	$ 86.07	Per device, per month the SLA was missed
VPN Availability	Availability	*Sun-Sat, 0000-2400*	99.99%	$ 86.07	Per device, per month the SLA was missed
IP Dial Availability	Availability	*Sun-Sat, 0000-2400*	99.99%	$ 86.07	Per device, per month the SLA was missed
Network Transit Delay	Elapsed Time – round trip transit delay from ingress and egress ports on premise devises.	*120 ms*	99.99%	$ 86.07	Per device, per month the SLA was missed
Packet Delivery Ratio	Successful packet transmission	*99.90%*	99.95% (data loss ≤ 0.05%)	$ 86.07	Per device, per month the SLA was missed
Jitter	Variation in timing, or time of arrival, of received packets.	*10 ms*	99.95%	$ 86.07	Per device, per month the SLA was missed
Network Service Capacity Reallocation or Change	Proactive monitoring and preemptive intervention to advise the County of need to increase capacity.	*Sustained avg. daily utilization reaches 60% of installed capacity*	98.00%	$ 86.07	Per device, per month the SLA was missed
IMAC– Implement service packs and updates to "dot" releases	Overall Schedule	*<4 hours* *Note: Non-emergency IMACs should be performed during pre-scheduled maintenance hours*	98.00%	$ 86.07	Per device, per month the SLA was missed
IMAC—Implement version or major release updates	Overall Schedule	*<24 hours*	98.00%	$ 86.07	Per device, per month the SLA was missed
IMAC—service addition or change as scheduled under Change Control process	Elapsed Time	*Increases of installed capacity within 2 months*	95.00%	$ 86.07	Per device, per month the SLA was missed
IMAC—service addition or change as scheduled under Change Control process	Elapsed Time	*Increases of installed capacity within 6 months*	95.00%	$ 86.07	Per device, per month the SLA was missed
Adding/deleting user accounts	Response Time	*Mon-Fri, 0600-2100, Immediately*	99.00%	$ 86.07	Per device, per month the SLA was missed
Firewall Management	Response Time	*Emergencies: ≤2 hours*	99.00%	$ 86.07	Per device, per month the SLA was missed
Implementation of firewall changes related to changing, adding/deleting firewall rules.	Overall Schedule	*Standard Requests: within normal change control parameters after submission by the County*		$ 86.07	Per device, per month the SLA was missed
Activate Ports		*<4 hours*	98.00%	$ 86.07	Per device, per month the SLA was missed

EXHIBIT 3

Minority and Women Owned Business Enterprise Commitment

OFFICE OF CONTRACT COMPLIANCE
Nicole Mandeville
DIRECTOR
69 W. Washington Street, George W. Dunne Cook County Building, Suite 3000 ● Chicago, Illinois 60602 ● (312) 603-5502

TONI PRECKWINKLE
PRESIDENT
Cook County Board of Commissioners

BRANDON JOHNSON
1st District

DENNIS DEER
2nd District

BILL LOWRY
3rd District

STANLEY MOORE
4th District

DEBORAH SIMS
5th District

DONNA MILLER
6th District

ALMA E. ANAYA
7th District

LUIS ARROYO, JR.
8th District

PETER N. SILVESTRI
9th District

BRIDGET GAINER
10th District

JOHN P. DALEY
11th District

BRIDGET DEGNEN
12th District

LARRY SUFFREDIN
13th District

SCOTT R. BRITTON
14th District

KEVIN B. MORRISON
15th District

FRANK AGUILAR
16th District

SEAN M. MORRISON
17th District

January 25, 2022

Mr. Raffi Sarrafian
Chief Procurement Officer
69 W. Washington Street
County Building-Room 3000
Chicago, IL 60602

Re: Contract No. 2003-18509
Network Managed Services
Bureau of Technology

Dear Mr. Sarrafian:

The following bid for the above-referenced contract has been reviewed for compliance with the Minority- and Women- owned Business Enterprises (MBE/WBE) Ordinance and have been found to be responsive to the ordinance.

Bidder: Sentinel Technologies, Inc.
Contract Amount: $21,705,923.00
Contract Goal: 35% MBE/WBE

MBE/WBE	Status	Certifying Agency	Commitment (Direct)*
Solai & Cameron.	MBE (8)	City of Chicago	27%
Smart Technology Services	MBE (6)	City of Chicago	9%
		Total	36%

The Office of Contract Compliance has been advised by the Requesting Department that no other bidders are being recommended for award. Revised MBE/WBE forms were used in the determination of the responsiveness of this contract.

Sincerely,

Aleatha Easley

Aleatha Easley
Contract Compliance Deputy Officer

cc: Yaneth Lopez, OCPO
Carlyn Augustave, BOT

MBE/WBE UTILIZATION PLAN - FORM 1

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions – Section 19.

I. BIDDER/PROPOSER MBE/WBE STATUS: (check the appropriate line)

- [x] Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of current Letter of Certification)
- [ ] Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit – available online at www.cookcountyil.gov/contractcompliance)
- [x] Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II below and the Letter(s) of Intent – Form 2).

II. [x] **Direct Participation of MBE/WBE Firms** [ ] **Indirect Participation of MBE/WBE Firms**

NOTE: Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs/WBEs that will perform as subcontractors/suppliers/consultants include the following:

MBE/WBE Firm: Solai & Cameron

Address: 2335 N. Southport Ave., Chicago, IL 60664

E-mail: msolai@solcam.com

Contact Person: Mallar Solai Phone: 773-506-2720

Dollar Amount Participation: $ $5,823,494

Percent Amount of Participation: 27%

*Letter of Intent attached? Yes [x] No [ ]
*Current Letter of Certification attached? Yes [x] No [ ]

MBE/WBE Firm: Smart Technology Services

Address: 333 W. Wacker Dr., Ste. 1600, Chicago, IL 60606

E-mail: scbaker@smarts.com

Contact Person: Steve Baker Phone: 312-612-8221

Dollar Amount Participation: $ $1,948,281

Percent Amount of Participation: 9%

*Letter of Intent attached? Yes X No [ ]
*Current Letter of Certification attached? Yes X No [ ]

Attach additional sheets as needed.

*** Letter(s) of Intent and current Letters of Certification must be submitted at the time of bid.**

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: Solai & Cameron
Certifying Agency: Cook County
Contact Person: Mallar Solai
Certification Expiration Date: 04-01-2023
Address: 2335 N. Southport Ave.
Ethnicity: Asian
City/State: Chicago, IL Zip: 60664
Bid/Proposal/Contract #: 2003-18509
Phone: 773-506-2720 Fax: 773-506-2717
FEIN #: 36-3990452
Email: msolai@solcam.com
Participation: [✓] Direct [ ] Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

[✓] No [ ] Yes – Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: *(If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)*

Provide On-Site Engineering Support, Network Consulting, Equipment Maintenance and Repair, Hardware & Software procurement as needed.

Indicate the **Dollar Amount**, **Percentage**, and the **Terms of Payment** for the above-described Commodities/ Services:
Net 30 / 27% / $5,823,494

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Mallar R Solai
Signature (M/WBE)

MALLAR R SOLAI
Print Name

SOLAI & CAMERON
Firm Name

1/18/2022
Date

Subscribed and sworn before me
this 18th day of January, 20 22.
Notary Public Noelle J. Zon
SEAL

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

Signature (*Prime Bidder/Proposer*)

Timothy Hill, co-President and CTO
Print Name

Sentinel Technologies, Inc.
Firm Name

01-18-2022
Date

Subscribed and sworn before me
this 18th day of January, 20 22.
Notary Public Noelle J. Zon
SEAL

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

DEPARTMENT OF PROCUREMENT SERVICES

CITY OF CHICAGO

JUN 18 2018

Mallar Solai
Solai & Cameron, Inc.
3410 W. Van Buren
Chicago, IL 60624

Dear Mallar Solai:

We are pleased to inform you that **Solai & Cameron, Inc.,** has been recertified as a **Minority-Owned Business Enterprise ("MBE") and Women-Owned Business Enterprise ("WBE")** by the City of Chicago ("City"). This **MBE/WBE** certification is valid until **06/01/2023**; however your firm's certification must be revalidated annually. In the past the City has provided you with an annual letter confirming your certification; such letters will no longer be issued. As a consequence, we require you to be even more diligent in filing your **annual No-Change Affidavit 60 days** before your annual anniversary date.

It is now your responsibility to check the City's certification directory and verify your certification status. As a condition of continued certification during the five year period stated above, you must file an **annual No-Change Affidavit**. Your firm's annual No-Change Affidavit is due by **6/01/2019, 6/01/2020, 6/01/2021 and 6/01/2022**. Please remember, you have an affirmative duty to file your No-Change Affidavit 60 days prior to the date of expiration. Failure to file your annual No-Change Affidavit may result in the suspension or rescission of your certification.

Your firm's five year certification will expire on **6/01/2023**. You have an affirmative duty to file for recertification **60 days** prior to the date of the five year anniversary date. Therefore, you must file for recertification by **4/01/2023.**

It is important to note that you also have an ongoing affirmative duty to notify the City of any changes in ownership or control of your firm, or any other fact affecting your firm's eligibility for certification **within 10 days** of such change. These changes may include but are not limited to a change of address, change of business structure, change in ownership or ownership structure, change of business operations, gross receipts and or personal net worth that exceed the program threshold. Failure to provide the City with timely notice of such changes may result in the suspension or rescission of your certification. In addition, you may be liable for civil penalties under Chapter 1-22, "False Claims", of the Municipal Code of Chicago.

Please note – you shall be deemed to have had your certification lapse and will be ineligible to participate as a **MBE/WBE** if you fail to:

- File your annual No-Change Affidavit within the required time period;

- Provide financial or other records requested pursuant to an audit within the required time period;
- Notify the City of any changes affecting your firm's certification **within 10 days** of such change; or
- File your recertification within the required time period.

Please be reminded of your contractual obligation to cooperate with the City with respect to any reviews, audits or investigation of its contracts and affirmative action programs. We strongly encourage you to assist us in maintaining the integrity of our programs by reporting instances or suspicions of fraud or abuse to the **City's Inspector General at chicagoinspectorgeneral.org, or 866-IG-TIPLINE (866-448-4754).**

Be advised that if you or your firm is found to be involved in certification, bidding and/or contractual fraud or abuse, the City will pursue decertification and debarment. In addition to any other penalty imposed by law, any person who knowingly obtains, or knowingly assists another in obtaining a contract with the City by falsely representing the individual or entity, or the individual or entity assisted is guilty of a misdemeanor, punishable by incarceration in the county jail for a period not to exceed six months, or a fine of not less than $5,000 and not more than $10,000 or both.

Your firm's name will be listed in the City's Directory of Minority Women-Owned Business Enterprises in the specialty area(s) of:

NAICS Code(s):
541511 – Computer Software Support Services
541511 – Custom Computer Programming Services
541512 – Computer Hardware Consulting Services
541512 – Computer Software Consulting Services
541512 – Network Systems Integration Design Services, Computer
541512 – Local Area Network (LAN) Computer System Integration Design Services
541513 – Computer Facilities Management Services
561320 – Temporary Help Services
561330 – Professional Employer Organization
517919 – All Other Telecommunications
518210 – Data Processing, Hosting, and Related Services
541512 – Computer System Design Services
541512 – Network Systems Integration Design Services, Computer
541512 – Local Area Network (LAN) Computer System Integration Design Services
541519 – Other Computer Related Services
611420 – Computer Training
722310 – Food Service Contractors, Concession Operator (e.g., convention facilities, entertainment facilities, sporting facilitates)
811212 – Computer and Office Machine Repair and Maintenance

Your firm's participation on City contracts will be credited only toward **Minority-Owned Business Enterprise and Women-Owned Business Enterprise** goals in your area(s) specialty. While your participation on City contracts is not limited to your area of specialty, credit toward goals will be given only for work that is self-performed and providing a commercially useful function that is done in the approved specialty category.

Thank you for your interest in the City's Minority, Women-Owned Business Enterprise, Veteran-Owned Business Enterprise and Business Enterprise Owned or Operated by People with Disabilities (MBE/WBE/VBE/BEPD) Program.

Sincerely,

Rich Butler
First Deputy Procurement Officer

RB/em

Cook County Government
M/WBE Reciprocal Certification Affidavit

Firm Name Solai & Cameron Inc

Address 3410 W Van Buren City Chicago

County cook State IL Zip 60624

Phone (773) 344-7154 Email msolai@solcam.com

I MALLAR R SOLAI, PRESIDENT
(Authorized Representative) *(Print Title)*

of SOLAI & CAMERON INC do hereby affirm:
(Name of Firm)

1) SOLAI & CAMERON INC is a Minority and/or Women Business Enterprise
(Name of Firm)

currently certified by the City of Chicago as: ☐ Black- ☐ Hispanic- ☑ Asian- ☐ Woman-owned business.

2) With respect to SOLAI & CAMERON, the personal net worth of the qualifying
(Name of Firm)
(51%) individual(s) does not exceed $2,210,847, excluding the individual's ownership interest in the M/WBE firm and the equity of the owner's primary residence, and otherwise meets the requirements of Chapter 34, Article IV of the Cook County Procurement Code. (As per Section 34-263 of the Cook County Procurement Code, an individual's personal net worth includes only his or her own Share of assets held jointly or as community/marital property with the individual's spouse.)

3) The average annual gross receipts of 9.6 M,
(Name of Firm)
as derived from tax filings over the five most recent years, does not exceed the Small Business Size Standards published by the U.S. Small Business Administration found in Title 13, Code of Federal Regulations, Part 121. (http://www.sba.gov/content/small-business-size-standards)

Upon penalty of perjury, I MALLAR R SOLAI affirm that, to the best of my
(Authorized Representative)

knowledge and belief, the information herein is true and accurate.

Signature Mallar R Solai *Title* PRESIDENT *Date* 1/21/2022

Subscribed and sworn to before me this 21st day of January (Month) / 2022 (Year).

Noelle J. Zon
(Notary's Signature)

Notary's Seal

My Commission Expires

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

Revised 8/2014

MBE/WBE LETTER OF INTENT - FORM 2

M/WBE Firm: Smart Technology Services
Certifying Agency: Cook County
Contact Person: Steve Baker
Certification Expiration Date: 2021
Address: 333 W. Waker Dr., Ste. 1600
Ethnicity: African American
City/State: Chicago, IL Zip: 60606
Bid/Proposal/Contract #: 2003-18509
Phone: 312-612-8221 Fax: 312-775-6554
FEIN #: 36-3990452
Email: scbaker@smarts.com
Participation: ☑ Direct ☐ Indirect

Will the M/WBE firm be subcontracting any of the goods or services of this contract to another firm?

☑ No ☐ Yes – Please attach explanation. Proposed Subcontractor(s): _____

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract: *(If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)*

Provide On-Site Engineering Support, Network Consulting, Equipment Maintenance and Repair,
Hardware & Software procurement as needed.

Indicate the **Dollar Amount**, **Percentage**, and the **Terms of Payment** for the above-described Commodities/ Services:
Net 30 / 9% / $1,948,281

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement for the above work, conditioned upon (1) the Bidder/Proposer's receipt of a signed contract from the County of Cook; (2) Undersigned Subcontractor remaining compliant with all relevant credentials, codes, ordinances and statutes required by Contractor, Cook County, and the State to participate as a MBE/WBE firm for the above work. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Signature *(M/WBE)*
STEPHEN C. Baker
Print Name
Smart Technology Src., Inc.
Firm Name
1/20/2022
Date

Subscribed and sworn before me
this 20 day of January, 2022
Notary Public

TERRENCE M LARSEN SEAL
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
May 12, 2022

Signature *(Prime Bidder/Proposer)*
Timothy Hill, co-President and CFO
Print Name
Sentinel Technologies, Inc.
Firm Name
01-18-2022
Date

Subscribed and sworn before me
this 18th day of January, 2022.
Notary Public Noelle J. Zon

OFFICIAL SEAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

Cook County Government
M/WBE Reciprocal Certification Affidavit

Firm Name Stephen C. Baker

Address 312 N. May Street, 4G City Chicago

County Cook State Illinois Zip 60607

Phone (312) 612-8200 Email scbaker@smartts.com

I Stephen C. Baker (*Authorized Representative*), President (*Print Title*)

of Smart Technology Services, Inc. (*Name of Firm*) do hereby affirm:

1) Smart Technology Services, Inc. (*Name of Firm*) is a Minority and/or Women Business Enterprise currently certified by the City of Chicago as: [4] Black- [ ] Hispanic- [ ] Asian- [ ] Woman-owned business.

2) With respect to Smart Technology Services, Inc. (*Name of Firm*), the personal net worth of the qualifying (51%) individual(s) does not exceed $2,210,847, excluding the individual's ownership interest in the M/WBE firm and the equity of the owner's primary residence, and otherwise meets the requirements of Chapter 34, Article IV of the Cook County Procurement Code. (As per Section 34-263 of the Cook County Procurement Code, an individual's personal net worth includes only his or her own Share of assets held jointly or as community/marital property with the individual's spouse.)

3) The average annual gross receipts of $2,200,000.00 (*Name of Firm*), as derived from tax filings over the five most recent years, does not exceed the Small Business Size Standards published by the U.S. Small Business Administration found in Title 13, Code of Federal Regulations, Part 121. (http://www.sba.gov/content/small-business-size-standards)

Upon penalty of perjury, I Smart Technology Services, Inc. (*Authorized Representative*) affirm that, to the best of my knowledge and belief, the information herein is true and accurate.

Signature _____ *Title* President *Date* 1/20/2022

Subscribed and sworn to before me this 20 day of January (Month) / 2022 (Year)

_____
(Notary's Signature)

Notary's Seal

My Commission Expires 05/12/2022

TERRENCE M LARKIN
OFFICIAL SEAL
Notary Public, State of Illinois
My Commission Expires
May 12, 2022

CITY OF CHICAGO

DEPARTMENT OF PROCUREMENT SERVICES

JUN 2 5 2021

Stephen Baker
Smart Technology Services, Inc.
562 West Washington Boulevard
Chicago, IL 60661

Dear Mr. Baker:

The City of Chicago has reviewed your annual *No Change Affidavit* and supporting documentation and is pleased to inform you that your firm, **Smart Technology Services, Inc.,** continues to meet the **Disadvantaged Business Enterprise ("DBE")** program certification eligibility standards set forth in 49 CFR Part 26. Your next No Change Affidavit is due **November 30, 2021**.

This certification allows your firm to participate as a DBE in the Illinois Unified Certification Program (IL UCP). The participating agencies include the City of Chicago, Illinois Department of Transportation, the Chicago Transit Authority, Metra and Pace.

If there is any change in circumstances during the course of your certification period that affect your ability to meet size, disadvantaged status, ownership, or control requirements or any material change in the information provided in your initial application, you must provide written notification to this agency within **thirty (30) days** of the occurrence of the change. Failure to provide this information is a ground for denial of certification based on failure to cooperate pursuant to 49 CFR 26.109(c).

Your firm's name will appear in the IL UCP DBE Directory under the following category name(s):

NAICS Code(s):
541512 - Computer Software Consulting Services or Consultants
811212 - Computer and Office Machine Repair and Maintenance

The Directory is used by prime contractors/consultants, as well as other agencies, to solicit participation of DBE, and ACDBE firms. The Directory can be accessed on the Internet at https://webapps.dot.illinois.gov/UCP/ExternalSearch .

Your participation on contracts will only be credited toward **DBE** contract goals when you perform in your firm's approved area(s) of specialty. Credit for participation in an area outside your specialty requires prior approval (verification of resources, expertise, and corresponding support documentation, etc.).

Sincerely,

Monica Jimenez
Acting Chief Procurement Officer

MJ/cm

MBE/WBE/BEPD/VBE No Change Affidavit

TYPE	**MBE/WBE/BEPD/VBE No Change Affidavit**
CERTIFYING AGENCY	**City of Chicago**
BUSINESS NAME	**Smart Technology Services., Inc.**
CURRENT STATUS	**Submitted, Pending Receipt**
APPLICATION NUMBER	**2681626**
CONTACT PERSON	**Stephen Baker**

Contact Information

A.1. Certification Type(s)

MBE/Minority-Owned Business Enterprise

A.2. Renewal Date

12/31/2022

A.3. Name of Firm

Smart Technology Services., Inc.

A.4. DBA Name

A.5. Address

562 WEST WASHINGTON BOULEVARD
CHICAGO, IL 60661

A.6. Telephone Number

312-612-8221

A.7. Fax Number

312-612-6992

A.8. Email

scbaker@smartts.com

A.9. Contact Person

Stephen Baker, President

A.10. Website

http://www.smartts.com

Business Information

B.1. Current number of employees of the firm, including all affiliates and subsidiaries.

Full-time	34
Part-time	0
Contract Personnel	1

B.2. Have the owners/partners of the firm changed?

No

B.3. Have the officers of the firm changed?

No

B.4. Have the directors of the firm changed?

No

B.5. Has the control/management of the firm changed?

No

B.6. Has the address of the firm changed?

No

B.7. List the amount of annual gross receipts for the last three fiscal years.

Year Ending	Total Receipts
2020	$2
2019	$2,104,000
2018	$2,260,000

B.8. Does the firm have affiliate(s) or subsidiaries?

No affiliates

B.9. If your company has affiliates, please list each affiliate company name and the products and services for each affiliate company.

B.10. Has any owner or management official of the applicant firm acquired an ownership interest in any other firm?

No

B.12. In what Ward is your business located?

42

B.13. In what Community Area is your business located?

Near West Side

Mandatory Documents

Copy of current year business tax returns, including all schedules/attachments

Attached by Stephen Baker on 1/6/2022

Smart Technology Services 2020 Federal Tax Return 1.pdf (PDF, 15.78 MB)

Smart Technology Services, Inc. 2020 Federal Tax Return

Required Documents

Personal Net Worth Statement	**Not Applicable**, noted by Stephen Baker on 1/6/2022
Statement of Material Change	**Not Applicable**, noted by Stephen Baker on 1/6/2022
ADDING SPECIALTY AREA: Provide supporting documentation demonstrating your ability to perform in the additional area(s)	**Not Applicable**, noted by Stephen Baker on 1/6/2022
Resolution(s) documenting changes in Owners/Partners, Officers, Directors, change in Control/Management or Address	**Not Applicable**, noted by Stephen Baker on 1/6/2022
If an owner or management official of the applicant firm acquired an ownership interest in any other firm, submit information as to the owner's title, address of firm, percentage of ownership and product or service of the other firm.	**Not Applicable**, noted by Stephen Baker on 1/6/2022
Federal and state corporate tax returns for any affiliates for the past 3 years (5 years for construction firms)	**Not Applicable**, noted by Stephen Baker on 1/6/2022
Lease or proof of ownership if address has changed	**Not Applicable**, noted by Stephen Baker on 1/6/2022
Additional supporting documents not listed above	**Not Applicable**, noted by Stephen Baker on 1/6/2022

Electronic Signature

SIGNATURE	***Stephen Carl Baker***
TITLE	**President/CEO**
ORGANIZATION	**Smart Technology Services., Inc.**
DATE	**1/6/2022**
IP NUMBER	**67.173.12.105**
TOKEN	**9609AE4950330E6B72860099D7247BADAB0F68DD0CEA98086E...**

Certification: View

Help & Tools

Certification List | Submit Change Request | View Letters & Certificates | Add Date Alert

Vendor Capabilities

BUSINESS NAME	**Smart Technology Services., Inc.**
SYSTEM VENDOR NUMBER	**20061369**
PRIMARY OWNER'S NAME	**Mr. Stephen Baker**
ETHNIC GROUP	**African American**
GENDER	**Male**

Certification Information

CERTIFYING AGENCY	**City of Chicago**
CERTIFICATION TYPE	**MBE - Minority Business Enterprise**
EFFECTIVE DATE	**1/24/2022**
RENEWAL DATE	**12/15/2022**

Contact Information

MAIN COMPANY EMAIL	**scbaker@smartts.com**
MAIN PHONE	**312-612-8221**
MAIN FAX	**312-612-6992**
MAIN COMPANY WEBSITE	**http://www.smartts.com**

Addresses

PHYSICAL ADDRESS	**562 WEST WASHINGTON BOULEVARD CHICAGO, IL 60661**
MAILING ADDRESS	**562 WEST WASHINGTON BOULEVARD CHICAGO, IL 60661**

Business Capabilities

BUSINESS CERTIFIED FOR	**COMPUTER SOFTWARE CONSULTING;INSTALLATION OF COMPUTERS, PERIPHERALS, AND RELATED EQUIPMENT;COMPUTERS, PARTS AND SUPPLIES**

FULL DESCRIPTION OF CAPABILITIES/PRODUCTS	**COMPUTER SOFTWARE CONSULTING;INSTALLATION OF COMPUTERS, PERIPHERALS, AND RELATED EQUIPMENT;COMPUTERS, PARTS AND SUPPLIES**
COMMODITY CODES	**NAICS 541512** Computer software consulting services or consultants (More) **NAICS 811212** Computer and Office Machine Repair and Maintenance (More)

Owner Ethnicity and Gender

ETHNIC GROUP	**African American**
GENDER	**Male**
DBE ETHNIC GROUP	**Black American**

Location

COUNTY	**Cook (IL)**

Additional Information

WARD	**42**
COMMUNITY AREA	**32 Loop**
QUALIFIED INVESTMENT AREA	**No**

Letters & Certificates

View	Letter Type	Format	Date Sent	Viewed

Certification List

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I. POLICY AND GOALS

A. It is the policy of the County of Cook to prevent discrimination in the award of or participation in County Contracts and to eliminate arbitrary barriers for participation in such Contracts by local businesses certified as a Minority Business Enterprise (MBE) and Women-owned Business Enterprise (WBE) as both prime and sub-contractors. In furtherance of this policy, the Cook County Board of Commissioners has adopted a Minority- and Women-owned Business Enterprise Ordinance (the "Ordinance") which establishes annual goals for MBE and WBE participation as outlined below:

Contract Type	**Goals**	
	MBE	**WBE**
Goods and Services	25%	10%
Construction	24%	10%
Professional Services	35% Overall	

B. **The County shall set contract-specific goals, based on the availability of MBEs and WBEs that are certified to provide commodities or services specified in this solicitation document. The MBE/WBE participation goals for this Agreement is [thirty-five percent (35%)].** A Bid, Quotation, or Proposal shall be rejected if the County determines that it fails to comply with this General Condition in any way, including but not limited to: (i) failing to state an enforceable commitment to achieve for this contract the identified MBE/WBE Contract goals; or (ii) failing to include a Petition for Reduction/Waiver, which states that the goals for MBE/WBE participation are not attainable despite the Bidder or Proposer Good Faith Efforts, and explains why. If a Bid, Quotation, or Proposal is rejected, then a new Bid, Quotation, or Proposal may be solicited if the public interest is served thereby.

C. To the extent that a Bid, Quotation, or Proposal includes a Petition for Reduction/Waiver that is approved by the Office of Contract Compliance, the Contract specific MBE and WBE participation goals may be achieved by the proposed Bidder or Proposer's status as an MBE or WBE; by the Bidder or Proposer's enforceable joint-venture agreement with one or more MBEs and/or WBEs; by the Bidder or Proposer entering into one or more enforceable subcontracting agreements with one or more MBE and WBE; by the Bidder or Proposer establishing and carrying out an enforceable mentor/protégé agreement with one or more MBE and WBE; by the Bidder or Proposer actively engaging the Indirect Participation of one or more MBE and WBE in other aspects of its business; or by any combination of the foregoing, so long as the Utilization Plan evidences a commitment to meet the MBE and WBE Contract goals set forth in (B) above, as approved by the Office of Contract Compliance.

D. A single Person, as defined in the Procurement Code, may not be utilized as both an MBE and a WBE on the same Contract, whether as a Consultant, Subcontractor or supplier.

E. Unless specifically waived in the Bid or Proposal Documents, this Exhibit; the Ordinance; and the policies and procedures promulgated thereunder shall govern. If there is a conflict between this Exhibit and the Ordinance or the policies and procedures, the Ordinance shall control.

F. A Consultant's failure to carry out its commitment regarding MBE and WBE participation in the course of the Contract's performance may constitute a material breach of the Contract. If such breach is not appropriately cured, it may result in withholding of payments under the Contract, contractual penalties, disqualification and any other remedy provided for in Division 4 of the Procurement Code at law or in equity.

II. REQUIRED BID OR PROPOSAL SUBMITTALS

A Bidder or Proposer shall document its commitment to meeting the Contract specific MBE and WBE participation goals by submitting a Utilization Plan with the Bid or Proposal. The Utilization Plan shall include (1) one or more Letter(s) of Intent from the relevant MBE and WBE firms; and (2) current Letters of Certification as an MBE or WBE. Alternatively, the Bidder or Proposer shall submit (1) a written Petition for Reduction/Waiver with the Bid, Quotation or Proposal, which documents its preceding Good Faith Efforts and an explanation of its inability to meet the goals for MBE and WBE participation. The Utilization Plan shall be submitted at the time that the bid or proposal is due. **Failure to include a Utilization Plan will render the submission not Responsive and shall be cause for the CPO to reject the Bid or Proposal.**

A. MBE/WBE Utilization Plan

Each Bid or Proposal shall include a complete Utilization Plan, as set forth on Form 1 of the M/WBE Compliance Forms. The Utilization Plan shall include the name(s), mailing address, email address, and telephone number of the principal contact person of the relevant MBE and WBE firms. If the Bidder or Proposer submits a Bid or Proposal, and any of their subconsultants, suppliers or consultants, are certified MBE or WBE firms, they shall be identified as an MBE or WBE within the Utilization Plan.

1. Letter(s) of Intent

Except as set forth below, a Bid or Proposal shall include, as part of the Utilization Plan, one or more Letter(s) of Intent, as set forth on Form 2 of the M/WBE Compliance Forms, executed by each MBE and WBE and the Bidder or Proposer. The Letter(s) of Intent will be used to confirm that each MBE and WBE shall perform work as a Subcontractor, supplier, joint venture, or consultant on the Contract. Each Letter of Intent shall indicate whether and the degree to which the MBE or WBE will provide goods or services directly or indirectly during the term of the Contract. The box for direct participation shall be marked if the proposed MBE or WBE will provide goods or services directly related to the scope of the Contract. The box for Indirect participation shall be marked if the proposed MBE or WBE will not be directly involved in the Contract but will be utilized by the Bidder or Proposer for other services not related to the Contract. Indirect Participation shall not be counted toward the participation goal. Each Letter of Intent shall accurately detail the

work to be performed by the relevant MBE or WBE firm, the agreed dollar amount, the percentage of work, and the terms of payment.

Failure to include Letter(s) of Intent will render the submission not Responsive and shall be cause for the CPO to reject the Bid or Proposal.

All Bids and Proposals must conform to the commitments made in the corresponding Letter(s) of Intent, as may be amended through change orders.

The Contract Compliance Director may at any time request supplemental information regarding Letter(s) of Intent, and such information shall be furnished if the corresponding Bid or Proposal is to be deemed responsive.

2. Letter(s) of Certification

Only current Letter(s) of Certification from one of the following entities may be accepted as proof of certification for MBE/WBE status, provided that Cook County's requirements for certification are met:

- County of Cook
- City of Chicago

Persons that are currently certified by the City of Chicago in any area other than Construction/Public Works shall also complete and submit a MBE/WBE Reciprocal Certification Affidavit along with a current letter of certification from the City of Chicago. This Affidavit form can be downloaded from www.cookcountyil.gov/contractcompliance.

The Contract Compliance Director may reject the certification of any MBE or WBE on the ground that it does not meet the requirements of the Ordinance, or the policies and rules promulgated thereunder.

3. Joint Venture Affidavit

In the event a Bid or Proposal achieves MBE and/or WBE participation through a Joint Venture, the Bid or Proposal shall include the required Joint Venture Affidavit, which can be downloaded from www.cookcountyil.gov/contractcompliance. The Joint Venture Affidavit shall be submitted with the Bid or Proposal, along with current Letter(s) of Certification.

B. Petition for Reduction/Waiver

In the event a Bid or Proposal does not meet the Contract specific goals for MBE and WBE participation, the Bid or Proposal shall include a Petition for Reduction/Waiver, as set forth on Form 3. The Petition for Reduction/Waiver shall be supported by sufficient evidence and documentation to demonstrate the Bidder or Proposer's Good Faith Efforts in

attempting to achieve the applicable MBE and WBE goals, and its inability to do so despite its Good Faith Efforts.

Failure to include Petition for Reduction/Waiver will render the submission not Responsive and shall be cause for the CPO to reject the Bid or Proposal.

III. REDUCTION/WAIVER OF MBE/WBE GOALS

A. Granting or Denying a Reduction/Waiver Request.

1. The adequacy of the Good Faith Efforts to utilize MBE and WBE firms in a Bid or Proposal will be evaluated by the CCD under such conditions as are set forth in the Ordinance, the policies and rules promulgated thereunder, and in the "Petition for Reduction/Waiver of MBE/WBE Participation Goals" – Form 3 of the M/WBE Compliance Forms.

2. With respect to a Petition for Reduction/Waiver, the sufficiency or insufficiency of a Bidder or Proposer's Good Faith Efforts shall be evaluated by the CCD as of the date upon which the corresponding Bid or Proposal was due.

3. The Contract Compliance Director or his or her duly authorized Waiver Committee may grant or deny the Petition for Reduction/Waiver based upon factors including but not limited to: (a) whether sufficient qualified MBE and WBE firms are unavailable despite good faith efforts on the part of the Bidder or Proposer; (b) the degree to which specifications and the reasonable and necessary requirements for performing the Contract make it impossible or economically infeasible to divide the Contract into sufficiently small tasks or quantities so as to enable the Bidder or Proposer to utilize MBE and WBE firms in accordance with the applicable goals; (c) the degree to which the prices or prices required by any potential MBE or WBE are more that 10% above competitive levels; and (d) such other factors as are determined relevant by the Contract Compliance Director or the duly authorized Waiver Committee.

4. If the Contract Compliance Director or the duly authorized Waiver Committee determines that the Bidder or Proposer has not demonstrated sufficient Good Faith Efforts to meet the applicable MBE and WBE goals, the Contract Compliance Director or the duly authorized Waiver Committee may deny a Petition for Reduction/Waiver, declare the Bid or Proposal non-responsive, and recommend rejection of the Bid, Quotation, or Proposal.

IV. CHANGES IN CONSULTANT'S UTILIZATION PLAN

A. A Consultant, during its performance of the Contract, may not change the original MBE or WBE commitments specified in the relevant Utilization Plan, including but not limited to, terminating a MBE or WBE Contract, reducing the scope of the work to be performed by a MBE/WBE, or decreasing the price to a MBE/WBE, except as

otherwise provided by the Ordinance and according to the policies and procedures promulgated thereunder.

B. Where a Person listed under the Contract was previously considered to be a MBE or WBE but is later found not to be, or work is found not to be creditable toward the MBE or WBE goals as stated in the Utilization Plan, the Consultant shall seek to discharge the disqualified enterprise, upon proper written notification to the Contract Compliance Director, and make every effort to identify and engage a qualified MBE or WBE as its replacement. Failure to obtain an MBE or WBE replacement within 30 business days of the Contract Compliance Director's written approval of the removal of a purported MBE or WBE may result in the termination of the Contract or the imposition of such remedy authorized by the Ordinance, unless a written Petition for Reduction/Waiver is granted allowing the Consultant to award the work to a Person that is not certified as an MBE or WBE.

V. NON-COMPLIANCE

If the CCD determines that the Consultant has failed to comply with its contractual commitments or any portion of the Ordinance, the policies and procedures promulgated thereunder, or this Exhibit, the Contract Compliance Director shall notify the Consultant of such determination and may take any and all appropriate actions as set forth in the Ordinance or the policies and procedures promulgated thereunder which includes but is not limited to disqualification, penalties, withholding of payments or other remedies in law or equity.

VI. REPORTING/RECORD-KEEPING REQUIREMENTS

The Consultant shall comply with the reporting and record-keeping requirements in the manner and time established by the Ordinance, the policies and procedure promulgated thereunder, and the Contract Compliance Director. Failure to comply with such reporting and record-keeping requirements may result in a declaration of Contract default. Upon award of a Contract, a Consultant shall acquire and utilize all Cook County reporting and record-keeping forms and methods which are made available by the Office of Contract Compliance. MBE and WBE firms shall be required to verify payments made by and received from the prime Consultant.

VII. EQUAL EMPLOYMENT OPPORTUNITY

Compliance with MBE and WBE requirements will not diminish or supplant other legal Equal Employment Opportunity and Civil Rights requirements that relate to Consultant and Subcontractor obligations.

Any questions regarding this section should be directed to:
Contract Compliance Director
Cook County
69 West Washington Street, Suite 3000
Chicago, Illinois 60602
(312) 603-5502

EXHIBIT 4

Evidence of Insurance

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 09/28/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
GCG Risk Management Consultants LLC/Alper Services	PHONE (A/C, No, Ext): (312) 642-1000	FAX (A/C, No):
410 North Michigan Avenue	E-MAIL ADDRESS: Certs@alperservices.com	
12th Floor	INSURER(S) AFFORDING COVERAGE	NAIC #
Chicago IL 60611	INSURER A : The Phoenix Insurance Company	25623
INSURED	INSURER B : Travelers Property Casualty Company of America	25674
Sentinel Technologies, Inc.	INSURER C : The Travelers Indemnity Company	25658
2550 Warrenville Road	INSURER D :	
	INSURER E :	
Downers Grove IL 60515	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 21-22 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Sexual Abuse/Molestation [ ] Limit $1,000,000/Ded $25,000 GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [ ] PRO-JECT [X] LOC [ ] OTHER:	Y	Y	630-6S529605	09/29/2021	09/29/2022	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY [X] Comp: 1000 [X] Coll:1000			630-6S529605	09/29/2021	09/29/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
B	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000			CUP-6S602272	09/29/2021	09/29/2022	EACH OCCURRENCE AGGREGATE 	$ 10,000,000 $ 10,000,000 $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-6S53151A	09/29/2021	09/29/2022	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Tech E&O/Cyber Liability			ZPL-16P12767	09/29/2021	09/29/2022	Limit	10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Cook County.
Cook County Bureau of Technology is included as Additional Insured with respects to General Liability and Waiver of Subrogation applies when required by written contract.

CERTIFICATE HOLDER

Cook County Bureau of Technology
118 N. Clark St.
Chicago IL 60602

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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AGENCY CUSTOMER ID: 00015230

LOC #:

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Alper Services, an Alera Group Company	Sentinel Technologies, Inc.
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 **FORM TITLE:** Certificate of Liability Insurance: Notes

Commercial Crime-Employee Dishonesty-Computer Fraud: $1,000,000 Limit; Hanover Insurance Company #LHCH056680-01, Effective 10/14/20 - 10/14/21.

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CNA

CNA PARAMOUNT

Technology General Liability Extension Endorsement

It is understood and agreed that this endorsement amends the **COMMERCIAL GENERAL LIABILITY COVERAGE PART** as follows. If any other endorsement attached to this policy amends any provision also amended by this endorsement, then that other endorsement controls with respect to such provision, and the changes made by this endorsement with respect to such provision do not apply.

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5. **Broad Named Insured**
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20. **Unintentional Failure To Disclose Hazards**
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1. ADDITIONAL INSUREDS

a. **WHO IS AN INSURED** is amended to include as an **Insured** any person or organization described in paragraphs **A.** through **K.** below whom a **Named Insured** is required to add as an additional insured on this **Coverage Part** under a written contract or written agreement, provided such contract or agreement:

(1) is currently in effect or becomes effective during the term of this **Coverage Part**; and

(2) was executed prior to:

(a) the **bodily injury** or **property damage**; or

(b) the offense that caused the **personal and advertising injury**,

for which such additional insured seeks coverage.

b. However, subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:

(1) a higher limit of insurance than required by such contract or agreement; or

(2) coverage broader than required by such contract or agreement, and in no event broader than that described by the applicable paragraph **A.** through **K.** below.

Any coverage granted by this endorsement shall apply only to the extent permissible by law.

A. Controlling Interest

Any person or organization with a controlling interest in a **Named Insured**, but only with respect to such person or organization's liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of:

1. such person or organization's financial control of a **Named Insured**; or

2. premises such person or organization owns, maintains or controls while a **Named Insured** leases or occupies such premises;

provided that the coverage granted by this paragraph does not apply to structural alterations, new construction or demolition operations performed by, on behalf of, or for such additional insured.

B. Co-owner of Insured Premises

A co-owner of a premises co-owned by a **Named Insured** and covered under this insurance but only with respect to such co-owner's liability for **bodily injury**, **property damage** or **personal and advertising injury** as co-owner of such premises.

C. Grantor of Franchise

Any person or organization that has granted a franchise to a **Named Insured**, but only with respect to such person or organization's liability for **bodily injury**, **property damage** or **personal and advertising injury** as grantor of a franchise to the **Named Insured**.

D. Lessor of Equipment

Any person or organization from whom a **Named Insured** leases equipment, but only with respect to liability for **bodily injury**, **property damage** or **personal and advertising injury** caused, in whole or in part, by the **Named Insured's** maintenance, operation or use of such equipment, provided that the **occurrence** giving rise to such **bodily injury**, **property damage** or the offense giving rise to such **personal and advertising injury** takes place prior to the termination of such lease.

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E. Lessor of Land

Any person or organization from whom a **Named Insured** leases land but only with respect to liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of the ownership, maintenance or use of such land, provided that the **occurrence** giving rise to such **bodily injury**, **property damage** or the offense giving rise to such **personal and advertising injury** takes place prior to the termination of such lease. The coverage granted by this paragraph does not apply to structural alterations, new construction or demolition operations performed by, on behalf of, or for such additional insured.

F. Lessor of Premises

An owner or lessor of premises leased to the **Named Insured**, or such owner or lessor's real estate manager, but only with respect to liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of the ownership, maintenance or use of such part of the premises leased to the **Named Insured**, and provided that the **occurrence** giving rise to such **bodily injury** or **property damage**, or the offense giving rise to such **personal and advertising injury**, takes place prior to the termination of such lease. The coverage granted by this paragraph does not apply to structural alterations, new construction or demolition operations performed by, on behalf of, or for such additional insured.

G. Mortgagee, Assignee or Receiver

A mortgagee, assignee or receiver of premises but only with respect to such mortgagee, assignee or receiver's liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of the **Named Insured's** ownership, maintenance, or use of a premises by a **Named Insured**.

The coverage granted by this paragraph does not apply to structural alterations, new construction or demolition operations performed by, on behalf of, or for such additional insured.

H. State or Governmental Agency or Subdivision or Political Subdivisions – Permits

A state or governmental agency or subdivision or political subdivision that has issued a permit or authorization but only with respect to such state or governmental agency or subdivision or political subdivision's liability for **bodily injury**, **property damage** or **personal and advertising injury** arising out of:

1. the following hazards in connection with premises a **Named Insured** owns, rents, or controls and to which this insurance applies:

a. the existence, maintenance, repair, construction, erection, or removal of advertising signs, awnings, canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoistaway openings, sidewalk vaults, street banners, or decorations and similar exposures; or

b. the construction, erection, or removal of elevators; or

c. the ownership, maintenance or use of any elevators covered by this insurance; or

2. the permitted or authorized operations performed by a **Named Insured** or on a **Named Insured's** behalf.

The coverage granted by this paragraph does not apply to:

a. **Bodily injury**, **property damage** or **personal and advertising injury** arising out of operations performed for the state or governmental agency or subdivision or political subdivision; or

b. **Bodily injury** or **property damage** included within the **products-completed operations hazard**.

With respect to this provision's requirement that additional insured status must be requested under a written contract or agreement, the Insurer will treat as a written contract any governmental permit that requires the **Named Insured** to add the governmental entity as an additional insured.

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I. Trade Show Event Lessor

1. With respect to a **Named Insured's** participation in a trade show event as an exhibitor, presenter or displayer, any person or organization whom the **Named Insured** is required to include as an additional insured, but only with respect to such person or organization's liability for **bodily injury**, **property damage** or **personal and advertising injury** caused by:

a. the **Named Insured's** acts or omissions; or

b. the acts or omissions of those acting on the **Named Insured's** behalf,

in the performance of the **Named Insured's** ongoing operations at the trade show event premises during the trade show event.

2. The coverage granted by this paragraph does not apply to **bodily injury** or **property damage** included within the **products-completed operations hazard**.

J. Vendor

Any person or organization but only with respect to such person or organization's liability for **bodily injury** or **property damage** arising out of **your products** which are distributed or sold in the regular course of such person or organization's business, provided that:

1. The coverage granted by this paragraph does not apply to:

a. **bodily injury** or **property damage** for which such person or organization is obligated to pay **damages** by reason of the assumption of liability in a contract or agreement unless such liability exists in the absence of the contract or agreement;

b. any express warranty unauthorized by the **Named Insured**;

c. any physical or chemical change in any product made intentionally by such person or organization;

d. repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;

e. any failure to make any inspections, adjustments, tests or servicing that such person or organization has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;

f. demonstration, installation, servicing or repair operations, except such operations performed at such person or organization's premises in connection with the sale of a product;

g. products which, after distribution or sale by the **Named Insured**, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for such person or organization; or

h. **bodily injury** or **property damage** arising out of the sole negligence of such person or organization for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:

(1) the exceptions contained in Subparagraphs **d.** or **f.** above; or

(2) such inspections, adjustments, tests or servicing as such person or organization has agreed with the **Named Insured** to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.

2. This Paragraph **J.** does not apply to any insured person or organization, from whom the **Named Insured** has acquired such products, nor to any ingredient, part or container, entering into, accompanying or containing such products.

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3. This Paragraph **J.** also does not apply:

a. to any vendor specifically scheduled as an additional insured by endorsement to this **Coverage Part**;

b. to any of **your products** for which coverage is excluded by endorsement to this **Coverage Part**; nor

c. if **bodily injury** or **property damage** included within the **products-completed operations hazard** is excluded by endorsement to this **Coverage Part**.

K. Other Person Or Organization / Your Work

Any person or organization who is not an additional insured under Paragraphs **A.** through **J.** above. Such additional insured is an **Insured** solely for **bodily injury**, **property damage** or **personal and advertising injury** for which such additional insured is liable because of the **Named Insured's** acts or omissions.

The coverage granted by this paragraph does not apply to any person or organization:

1. who is specifically scheduled as an additional insured on another endorsement to this **Coverage Part**; nor

2. for **bodily injury** or **property damage** included within the **products-completed operations hazard** except to the extent all of the following apply:

a. this **Coverage Part** provides such coverage;

b. the written contract or agreement described in the opening paragraph of this **ADDITIONAL INSUREDS** Provision requires the **Named Insured** to provide the additional insured such coverage; and

c. the **bodily injury** or **property damage** results from **your work** that is the subject of the written contract or agreement, and such work has not been excluded by endorsement to this **Coverage Part**.

2. ADDITIONAL INSURED - PRIMARY AND NON-CONTRIBUTORY TO ADDITIONAL INSURED'S INSURANCE

A. The **Other Insurance** Condition in the **COMMERCIAL GENERAL LIABILITY CONDITIONS** Section is amended to add the following paragraph:

If the **Named Insured** has agreed in writing in a contract or agreement that this insurance is primary and non-contributory relative to an additional insured's own insurance, then this insurance is primary, and the Insurer will not seek contribution from that other insurance. For the purpose of this Provision **2.**, the additional insured's own insurance means insurance on which the additional insured is a named insured.

B. With respect to persons or organizations that qualify as additional insureds pursuant to paragraph **1.K.** of this endorsement, the following sentence is added to the paragraph above:

Otherwise, and notwithstanding anything to the contrary elsewhere in this Condition, the insurance provided to such person or organization is excess of any other insurance available to such person or organization.

3. BODILY INJURY – EXPANDED DEFINITION

Under **DEFINITIONS**, the definition of **bodily injury** is deleted and replaced by the following:

Bodily injury means physical injury, sickness or disease sustained by a person, including death, humiliation, shock, mental anguish or mental injury sustained by that person at any time which results as a consequence of the physical injury, sickness or disease.

4. BROAD KNOWLEDGE OF OCCURRENCE/ NOTICE OF OCCURRENCE

Under **CONDITIONS**, the condition entitled **Duties in The Event of Occurrence, Offense, Claim or Suit** Condition is amended to add the following provisions:

A. BROAD KNOWLEDGE OF OCCURRENCE

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The **Named Insured** must give the Insurer or the Insurer's authorized representative notice of an **occurrence**, offense or **claim** only when the **occurrence**, offense or **claim** is known to a natural person **Named Insured**, to a partner, executive officer, manager or member of a **Named Insured**, or to an **employee** designated by any of the above to give such notice.

B. NOTICE OF OCCURRENCE

The **Named Insured's** rights under this **Coverage Part** will not be prejudiced if the **Named Insured** fails to give the Insurer notice of an **occurrence**, offense or **claim** and that failure is solely due to the **Named Insured's** reasonable belief that the **bodily injury** or **property damage** is not covered under this **Coverage Part**. However, the **Named Insured** shall give written notice of such **occurrence**, offense or **claim** to the Insurer as soon as the **Named Insured** is aware that this insurance may apply to such **occurrence**, offense or **claim**.

5. BROAD NAMED INSURED

WHO IS AN INSURED is amended to delete its Paragraph **3.** in its entirety and replace it with the following:

3. Pursuant to the limitations described in Paragraph **4.** below, any organization in which a **Named Insured** has management control:

a. on the effective date of this **Coverage Part**; or

b. by reason of a **Named Insured** creating or acquiring the organization during the **policy period**,

qualifies as a **Named Insured**, provided that there is no other similar liability insurance, whether primary, contributory, excess, contingent or otherwise, which provides coverage to such organization, or which would have provided coverage but for the exhaustion of its limit, and without regard to whether its coverage is broader or narrower than that provided by this insurance.

But this **BROAD NAMED INSURED** provision does not apply to:

(a) any partnership or joint venture; or

(b) any organization for which coverage is excluded by another endorsement attached to this **Coverage Part**.

For the purpose of this provision, and of this endorsement's **JOINT VENTURES / PARTNERSHIP / LIMITED LIABILITY COMPANIES** provision, management control means:

A. owning interests representing more than 50% of the voting, appointment or designation power for the selection of a majority of the Board of Directors of a corporation, or the members of the management board of a limited liability company; or

B. having the right, pursuant to a written trust agreement, to protect, control the use of, encumber or transfer or sell property held by a trust.

4. With respect to organizations which qualify as **Named Insureds** by virtue of Paragraph **3.** above, this insurance does not apply to:

a. bodily injury or **property damage** that first occurred prior to the date of management control, or that first occurs after management control ceases; nor

b. personal or advertising injury caused by an offense that first occurred prior to the date of management control or that first occurs after management control ceases.

5. The insurance provided by this **Coverage Part** applies to **Named Insureds** when trading under their own names or under such other trading names or doing-business-as names (dba) as any **Named Insured** should choose to employ.

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6. ESTATES, LEGAL REPRESENTATIVES, AND SPOUSES

The estates, heirs, legal representatives and **spouses** of any natural person **Insured** shall also be insured under this policy; provided, however, coverage is afforded to such estates, heirs, legal representatives, and **spouses** only for **claims** arising solely out of their capacity or status as such and, in the case of a **spouse**, where such **claim** seeks **damages** from marital community property, jointly held property or property transferred from such natural person **Insured** to such **spouse**. No coverage is provided for any act, error or omission of an estate, heir, legal representative, or **spouse** outside the scope of such person's capacity or status as such, provided however that the **spouse** of a natural person **Named Insured** and the **spouses** of members or partners of joint venture or partnership **Named Insureds** are **Insureds** with respect to such **spouses'** acts, errors or omissions in the conduct of the **Named Insured's** business.

7. EXPECTED OR INTENDED INJURY – EXCEPTION FOR REASONABLE FORCE

Under **COVERAGES**, **Coverage A** – **Bodily Injury And Property Damage Liability**, the paragraph entitled **Exclusions** is amended to delete the exclusion entitled **Expected or Intended Injury** and replace it with the following:

This insurance does not apply to:

Expected or Intended Injury

Bodily injury or **property damage** expected or intended from the standpoint of the **Insured**. This exclusion does not apply to **bodily injury** or **property damage** resulting from the use of reasonable force to protect persons or property.

8. IN REM ACTIONS

A quasi in rem action against any vessel owned or operated by or for the **Named Insured**, or chartered by or for the **Named Insured**, will be treated in the same manner as though the action were in personam against the **Named Insured**.

9. INCIDENTAL HEALTH CARE MALPRACTICE COVERAGE

Solely with respect to **bodily injury** that arises out of a **health care incident**:

A. Under **COVERAGES**, **Coverage A – Bodily Injury And Property Damage Liability**, the **Insuring Agreement** is amended to replace Paragraphs **1.b.(1)** and **1.b.(2)** with the following:

b. This insurance applies to **bodily injury** provided that the professional health care services are incidental to the **Named Insured's** primary business purpose, and only if:

(1) such **bodily injury** is caused by an **occurrence** that takes place in the **coverage territory**.

(2) the **bodily injury** first occurs during the **policy period**. All **bodily injury** arising from an **occurrence** will be deemed to have occurred at the time of the first act, error, or omission that is part of the **occurrence**; and

B. Under **COVERAGES**, **Coverage A – Bodily Injury And Property Damage Liability**, the paragraph entitled **Exclusions** is amended to:

i. add the following to the **Employers Liability** exclusion:

This exclusion applies only if the **bodily injury** arising from a **health care incident** is covered by other liability insurance available to the **Insured** (or which would have been available but for exhaustion of its limits).

ii. delete the exclusion entitled **Contractual Liability** and replace it with the following:

This insurance does not apply to:

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Contractual Liability

the **Insured's** actual or alleged liability under any oral or written contract or agreement, including but not limited to express warranties or guarantees.

iii. add the following additional exclusions.

This insurance does not apply to:

Discrimination

any actual or alleged discrimination, humiliation or harassment, that includes but shall not be limited to **claims** based on an individual's race, creed, color, age, gender, national origin, religion, disability, marital status or sexual orientation.

Dishonesty or Crime

Any actual or alleged dishonest, criminal or malicious act, error or omission.

Medicare/Medicaid Fraud

any actual or alleged violation of law with respect to Medicare, Medicaid, Tricare or any similar federal, state or local governmental program.

Services Excluded by Endorsement

Any **health care incident** for which coverage is excluded by endorsement.

C. DEFINITIONS is amended to:

i. add the following definitions:

Health care incident means an act, error or omission by the **Named Insured's employees** or **volunteer workers** in the rendering of:

a. **professional health care services** on behalf of the **Named Insured** or

b. Good Samaritan services rendered in an emergency and for which no payment is demanded or received.

Professional health care services means any health care services or the related furnishing of food, beverages, medical supplies or appliances by the following providers in their capacity as such but solely to the extent they are duly licensed as required:

a. Physician;

b. Nurse;

c. Nurse practitioner;

d. Emergency medical technician;

e. Paramedic;

f. Dentist;

g. Physical therapist;

h. Psychologist;

i. Speech therapist;

j. Other allied health professional; or

Professional health care services does not include any services rendered in connection with human clinical trials or product testing.

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ii. delete the definition of **occurrence** and replace it with the following:

Occurrence means a **health care incident**. All acts, errors or omissions that are logically connected by any common fact, circumstance, situation, transaction, event, advice or decision will be considered to constitute a single **occurrence**;

iii. amend the definition of **Insured** to:

a. add the following:

- the **Named Insured's employees** are **Insureds** with respect to:

  (1) **bodily injury** to a co-**employee** while in the course of the co-**employee's** employment by the **Named Insured** or while performing duties related to the conduct of the **Named Insured's** business; and

  (2) **bodily injury** to a **volunteer worker** while performing duties related to the conduct of the **Named Insured's** business;

  when such **bodily injury** arises out of a **health care incident**.

- the **Named Insured's volunteer workers** are **Insureds** with respect to:

  (1) **bodily injury** to a co-**volunteer worker** while performing duties related to the conduct of the **Named Insured's** business; and

  (2) **bodily injury** to an **employee** while in the course of the **employee's** employment by the **Named Insured** or while performing duties related to the conduct of the **Named Insured's** business;

when such **bodily injury** arises out of a **health care incident**.

b. delete Subparagraphs **(a)**, **(b)**, **(c) and (d)** of Paragraph **2.a.(1)** of **WHO IS AN INSURED**.

c. add the following:

Insured does not include any physician while acting in his or her capacity as such.

D. The **Other Insurance** condition is amended to delete Paragraph **b.(1)** in its entirety and replace it with the following:

Other Insurance

b. Excess Insurance

(1) To the extent this insurance applies, it is excess over any other insurance, self insurance or risk transfer instrument, whether primary, excess, contingent or on any other basis, except for insurance purchased specifically by the **Named Insured** to be excess of this coverage.

10. JOINT VENTURES / PARTNERSHIP / LIMITED LIABILITY COMPANIES

WHO IS AN INSURED is amended to delete its last paragraph and replace it with the following:

No person or organization is an **Insured** with respect to:

- the conduct of any current or past partnership or joint venture that is not shown as a **Named Insured** in the Declarations; nor
- the conduct of a current or past limited liability company in which a **Named Insured's** interest does/did not rise to the level of management control;

except that if the **Named Insured** was a joint venturer, partner, or member of such a limited liability company, and such joint venture, partnership or limited liability company terminated prior to or during the **policy period**, then such

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Named Insured is an **Insured** with respect to its interest in such joint venture, partnership or limited liability company but only to the extent that:

a. any offense giving rise to **personal and advertising injury** occurred prior to such termination date, and the **personal and advertising injury** arising out of such offense, first occurred after such termination date;

b. the **bodily injury** or **property damage** first occurred after such termination date; and

c. there is no other valid and collectible insurance purchased specifically to insure the partnership, joint venture or limited liability company.

11. LEGAL LIABILITY – DAMAGE TO PREMISES

A. Under **COVERAGES, Coverage A – Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended to delete the first paragraph immediately following subparagraph **(6)** of the **Damage to Property** exclusion and replace it with the following:

Paragraphs **(1), (3)** and **(4)** of this exclusion do not apply to **property damage** (other than damage by fire, lightning, explosion, smoke or leakage from automatic fire protective systems) to premises rented to the **Named Insured** or temporarily occupied by the **Named Insured** with the permission of the owner, nor to the contents of premises rented to the **Named Insured** for a period of 7 or fewer consecutive days. A separate limit of insurance applies to Damage To Premises Rented To You as described in **LIMITS OF INSURANCE**.

B. Under **COVERAGES, Coverage A – Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended to delete its last paragraph and replace it with the following:

Exclusions **c.** through **n.** do not apply to damage by fire, lightning, explosion, smoke or leakage from automatic fire protective systems to premises while rented to a **Named Insured** or temporarily occupied by a **Named Insured** with permission of the owner, nor to damage to the contents of premises rented to a **Named Insured** for a period of 7 or fewer consecutive days.

A separate limit of insurance applies to this coverage as described in the **LIMITS OF INSURANCE** Section.

C. **LIMITS OF INSURANCE** is amended to delete Paragraph **6.** (the Damage To Premises Rented To You Limit) and replace it with the following:

6. Subject to Paragraph **5.** above, (the Each Occurrence Limit), the Damage To Premises Rented To You Limit is the most the Insurer will pay under **COVERAGE A** for **damages** because of **property damage** to:

a. any one premises while rented to a **Named Insured** or temporarily occupied by a **Named Insured** with the permission of the owner; and

b. contents of such premises if the premises is rented to the **Named Insured** for a period of 7 or fewer consecutive days.

The Damage To Premises Rented To You Limit is $500,000. unless a higher Damage to Premises Rented to You Limit is shown in the Declarations.

D. The **Other Insurance** Condition is amended to delete Paragraph **b.(1)(a)(ii)**, and replace it with the following:

(ii) That is property insurance for premises rented to a **Named Insured**, for premises temporarily occupied by the **Named Insured** with the permission of the owner; or for personal property of others in the **Named Insured's** care, custody or control;

E. This Provision **11.** does not apply if liability for damage to premises rented to a **Named Insured** is excluded by another endorsement attached to this **Coverage Part**.

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12. MEDICAL PAYMENTS

A. LIMITS OF INSURANCE is amended to delete Paragraph **7.** (the Medical Expense Limit) and replace it with the following:

7. Subject to Paragraph **5.** above (the Each Occurrence Limit), the Medical Expense Limit is the most the Insurer will pay under **Coverage C – Medical Payments** for all medical expenses because of **bodily injury** sustained by any one person. The Medical Expense Limit is the greater of:

(1) $15,000 unless a different amount is shown here: ; or

(2) the amount shown in the Declarations for Medical Expense Limit.

B. Under **COVERAGES**, the **Insuring Agreement** of **Coverage C** – **Medical Payments** is amended to replace Paragraph **1.a.(3)(b)** with the following:

(b) The expenses are incurred and reported to the Insurer within three years of the date of the accident; and

13. NON-OWNED AIRCRAFT

Under **COVERAGES, Coverage A – Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended as follows:

The exclusion entitled **Aircraft, Auto or Watercraft** is amended to add the following:

This exclusion does not apply to an aircraft not owned by any **Named Insured**, provided that:

1. the pilot in command holds a currently effective certificate issued by the duly constituted authority of the United States of America or Canada, designating that person as a commercial or airline transport pilot;

2. the aircraft is rented with a trained, paid crew to the **Named Insured**; and

3. the aircraft is not being used to carry persons or property for a charge.

14. NON-OWNED WATERCRAFT

Under **COVERAGES, Coverage A – Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended to delete subparagraph **(2)** of the exclusion entitled **Aircraft, Auto or Watercraft**, and replace it with the following.

This exclusion does not apply to:

(2) a watercraft that is not owned by any **Named Insured**, provided the watercraft is:

(a) less than 75 feet long; and

(b) not being used to carry persons or property for a charge.

15. PERSONAL AND ADVERTISING INJURY –DISCRIMINATION OR HUMILIATION

A. Under **DEFINITIONS**, the definition of p**ersonal and advertising injury** is amended to add the following tort:

- Discrimination or humiliation that results in injury to the feelings or reputation of a natural person.

B. Under **COVERAGES**, **Coverage B – Personal and Advertising Injury Liability**, the paragraph entitled **Exclusions** is amended to:

1. delete the Exclusion entitled **Knowing Violation Of Rights Of Another** and replace it with the following:

This insurance does not apply to:

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Knowing Violation of Rights of Another

Personal and advertising injury caused by or at the direction of the **Insured** with the knowledge that the act would violate the rights of another and would inflict **personal and advertising injury**. This exclusion shall not apply to discrimination or humiliation that results in injury to the feelings or reputation of a natural person, but only if such discrimination or humiliation is not done intentionally by or at the direction of:

(a) the **Named Insured**; or

(b) any **executive officer**, director, stockholder, partner, member or manager (if the **Named Insured** is a limited liability company) of the **Named Insured**.

2. add the following exclusions:

This insurance does not apply to:

Employment Related Discrimination

Discrimination or humiliation directly or indirectly related to the employment, prospective employment, past employment or termination of employment of any person by any **Insured**.

Premises Related Discrimination

discrimination or humiliation arising out of the sale, rental, lease or sub-lease or prospective sale, rental, lease or sub-lease of any room, dwelling or premises by or at the direction of any **Insured**.

Notwithstanding the above, there is no coverage for fines or penalties levied or imposed by a governmental entity because of discrimination.

The coverage provided by this **PERSONAL AND ADVERTISING INJURY –DISCRIMINATION OR HUMILIATION** Provision does not apply to any person or organization whose status as an **Insured** derives solely from

- Provision **1. ADDITIONAL INSURED** of this endorsement; or
- attachment of an additional insured endorsement to this **Coverage Part**.

16. PERSONAL AND ADVERTISING INJURY - LIMITED CONTRACTUAL LIABILITY

A. Under **COVERAGES**, **Coverage B –Personal and Advertising Injury Liability**, the paragraph entitled **Exclusions** is amended to delete the exclusion entitled **Contractual Liability** and replace it with the following:

This insurance does not apply to:

Contractual Liability

Personal and advertising injury for which the **Insured** has assumed liability in a contract or agreement.

This exclusion does not apply to liability for **damages**:

(1) that the **Insured** would have in the absence of the contract or agreement; or

(2) assumed in a contract or agreement that is an **insured contract** provided the offense that caused such **personal or advertising injury** first occurred subsequent to the execution of such **insured contract**. Solely for the purpose of liability assumed in an **insured contract**, reasonable attorney fees and necessary litigation expenses incurred by or for a party other than an **Insured** are deemed to be **damages** because of **personal and advertising injury** provided:

(a) liability to such party for, or for the cost of, that party's defense has also been assumed in such **insured contract**; and

(b) such attorney fees and litigation expenses are for defense of such party against a civil or alternative dispute resolution proceeding in which covered **damages** are alleged.

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B. Solely for the purpose of the coverage provided by this paragraph, **DEFINITIONS** is amended to delete the definition of **insured contract** in its entirety, and replace it with the following:

Insured contract means that part of a written contract or written agreement pertaining to the **Named Insured's** business under which the **Named Insured** assumes the tort liability of another party to pay for **personal or advertising injury** arising out of the offense of false arrest, detention or imprisonment. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

C. Solely for the purpose of the coverage provided by this paragraph, the following changes are made to the Section entitled **SUPPLEMENTARY PAYMENTS – COVERAGES A AND B:**

1. Paragraph **2.d.** is replaced by the following:

d. The allegations in the **suit** and the information the Insurer knows about the offense alleged in such **suit** are such that no conflict appears to exist between the interests of the **Insured** and the interests of the indemnitee;

2. The first unnumbered paragraph beneath Paragraph **2.f.(2)(b)** is deleted and replaced by the following:

So long as the above conditions are met, attorneys fees incurred by the Insurer in the defense of that indemnitee, necessary litigation expenses incurred by the Insurer, and necessary litigation expenses incurred by the indemnitee at the Insurer's request will be paid as **defense costs**. Notwithstanding the provisions of Paragraph **e.(2)** of the Contractual Liability exclusion (as amended by this Endorsement), such payments will not be deemed to be **damages** for **personal and advertising injury** and will not reduce the limits of insurance.

D. This **PERSONAL AND ADVERTISING INJURY - LIMITED CONTRACTUAL LIABILITY** Provision does not apply if **Coverage B –Personal and Advertising Injury Liability** is excluded by another endorsement attached to this **Coverage Part**.

17. PROPERTY DAMAGE – ELEVATORS

A. Under **COVERAGES**, **Coverage A** – **Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended such that the **Damage to Your Product** Exclusion and subparagraphs **(3)**, **(4)** and **(6)** of the **Damage to Property** Exclusion do not apply to **property damage** that results from the use of elevators.

B. Solely for the purpose of the coverage provided by this **PROPERTY DAMAGE – ELEVATORS** Provision, the **Other Insurance** conditions is amended to add the following paragraph:

This insurance is excess over any of the other insurance, whether primary, excess, contingent or on any other basis that is Property insurance covering property of others damaged from the use of elevators.

18. SUPPLEMENTARY PAYMENTS

The section entitled **SUPPLEMENTARY PAYMENTS – COVERAGES A AND B** is amended as follows:

A. Paragraph **1.b.** is amended to delete the $250 limit shown for the cost of bail bonds and replace it with a $5,000. limit; and

B. Paragraph **1.d.** is amended to delete the limit of $250 shown for daily loss of earnings and replace it with a $1,000. limit.

19. PROPERTY DAMAGE - PATTERNS MOLDS AND DIES

Under **COVERAGES**, **Coverage A – Bodily Injury and Property Damage Liability**, the paragraph entitled **Exclusions** is amended to delete subparagraphs **(3)** and **(4)** of the Exclusion entitled **Damage to Property**, but only with respect to patterns, molds or dies that are in the care, custody or control of the **Insured**, and only if such patterns, molds or dies are not being used to perform operations at the time of loss. A limit of insurance of $25,000 per **policy period** applies to this **PROPERTY DAMAGE - PATTERNS MOLDS AND DIES** coverage, and this limit:

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A. is included within the General Aggregate Limit as described in **LIMITS OF INSURANCE**; and

B. applies excess over any valid and collectible property insurance available to the **Insured**, including any deductible applicable to such insurance; the **Other Insurance** condition is changed accordingly.

20. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

If the **Named Insured** unintentionally fails to disclose all existing hazards at the inception date of the **Named Insured's Coverage Part**, the Insurer will not deny coverage under this **Coverage Part** because of such failure.

21. WAIVER OF SUBROGATION - BLANKET

Under **CONDITIONS**, the condition entitled **Transfer Of Rights Of Recovery Against Others To Us** is amended to add the following:

The Insurer waives any right of recovery the Insurer may have against any person or organization because of payments the Insurer makes for injury or damage arising out of:

1. the **Named Insured's** ongoing operations; or

2. **your work** included in the **products-completed operations hazard**.

However, this waiver applies only when the **Named Insured** has agreed in writing to waive such rights of recovery in a written contract or written agreement, and only if such contract or agreement:

1. is in effect or becomes effective during the term of this **Coverage Part**; and

2. was executed prior to the **bodily injury**, **property damage** or **personal and advertising injury** giving rise to the **claim**.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.

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WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Any Person or Organization on whose behalf you are required to obtain this waiver of our right to recover from under a written contract or agreement.

The premium charge for the endorsement is reflected in the Schedule of Operations.

All other terms and conditions of the policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the policy issued by the designated Insurers, takes effect on the Policy Effective Date of said policy at the hour stated in said policy, unless another effective date (the Endorsement Effective Date) is shown below, and expires concurrently with said policy unless another expiration date is shown below.

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ADDITIONAL INSURED - PRIMARY AND NON-CONTRIBUTORY

It is understood and agreed that this endorsement amends the **BUSINESS AUTO COVERAGE FORM** as follows:

SCHEDULE
Name of Additional Insured Person Or Organization
ANY PERSON OR ORGANIZATION THAT YOU ARE REQUIRED BY WRITTEN CONTRACT OR WRITTEN AGREEMENT TO NAME AS AN ADDITIONAL INSURED.

1. In conformance with paragraph **A.1.c.** of **Who Is An Insured** of Section **II** - LIABILITY COVERAGE, the person or organization scheduled above is an insured under this policy.
2. The insurance afforded to the additional insured under this policy will apply on a primary and non-contributory basis if you have committed it to be so in a written contract or written agreement executed prior to the date of the "**accident**" for which the additional insured seeks coverage under this policy.

All other terms and conditions of the policy remain unchanged

This endorsement, which forms a part of and is for attachment to the policy issued by the designated Insurers, takes effect on the Policy Effective date of said policy at the hour stated in said policy, unless another effective date (the Endorsement Effective Date) is shown below, and expires concurrently with said policy.

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EXHIBIT 5

Board Authorization

Legislation Details (With Text)

File #:	22-1090	**Version:**	1	**Name:**	Sentinel Contract for WAN
Type:	Contract (Technology)			**Status:**	Approved
File created:	1/5/2022			**In control:**	Technology and Innovation Committee
On agenda:	2/10/2022			**Final action:**	3/17/2022
Title:	PROPOSED CONTRACT (TECHNOLOGY)				

Department(s): Bureau of Technology

Vendor: Sentinel Technologies, Inc., Downers Grove, Illinois

Request: Authorization for the Chief Procurement Officer to enter into and execute contract

Good(s) or Service(s): Network Managed Services

Contract Value: $21,705,923.00

Contract period: 4/1/2022 - 3/31/2027 with two (2) one-year renewal options

Potential Fiscal Year Budget Impact: FY 2022 $3,388,388.00; FY 2023 $4,270,821.00; FY 2024 $4,469,438.00; FY 2025 $4,695,706.00; FY 2026 $4,881,570.00

Accounts: 1100-1490-15050-520150

Contract Number(s): 2003-18509

Concurrence(s):
The vendor has met the Minority- and Women-owned Business Enterprise Ordinance via direct participation.

The Chief Procurement Officer concurs.

N/A

Summary: The operation of the County's Wide Area Network (WAN) is an outsourced function. This contract consolidates several legacy contracts for the maintenance and repair of the County's converged Voice and Data Network under one support contract resulting in future savings over legacy contract costs. The services provided through this agreement will support BOT's ability to provide services to all County agencies and employees.

This contract is awarded through Request for Proposals (RFP) procedures in accordance with Cook County Procurement Code. Sentinel Technologies, Inc. was selected based on established evaluation criteria.

Sponsors:

Indexes: F. THOMAS LYNCH, Chief Information Officer, Bureau of Technology

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result

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3/17/2022	1	Board of Commissioners	approve	Pass
3/16/2022	1	Technology and Innovation Committee	recommend for approval	Pass
2/10/2022	1	Board of Commissioners	refer	Pass

PROPOSED CONTRACT (TECHNOLOGY)

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EXHIBIT 6

Cook County IT Special Conditions

Exhibit 6

Cook County Information Technology Special Conditions (ITSCs)

1. DEFINITIONS FOR SPECIAL CONDITIONS

1.1. ***"Assets"*** means Equipment, Software, Intellectual Property, IP Materials and other assets used in providing the Services. Assets are considered in use as of the date of deployment.

1.2. "***Business Associate Agreement***" or "***BAA***" means an agreement that meets the requirements of 45 C.F.R. 164.504(e).

1.3. "***Business Continuity Plan***" means the planned process, and related activities, required to maintain continuity of business operations between the period of time following declaration of a Disaster until such time an IT environment is returned to an acceptable condition of normal business operation.

1.4. ***"Cardholder Data"*** means data that meets the definition of "Cardholder Data" in the most recent versions of the Payment Card Industry's Data Security Standard.

1.5. ***"Change"*** means, in an operational context, an addition, modification or deletion to any Equipment, Software, IT environment, IT systems, network, device, infrastructure, circuit, documentation or other items related to Services. Changes may arise reactively in response to Incidents/Problems or externally imposed requirements (e.g., legislative changes), or proactively from attempts to (a) seek greater efficiency or effectiveness in the provision or delivery of Services; (b) reflect business initiatives; or (c) implement programs, projects or Service improvement initiatives.

1.6. "***Change Management***" means, in an operational context, the Using Agency approved processes and procedures necessary to manage Changes with the goal of enabling Using Agency-approved Changes with minimum disruption.

1.7. ***"Change Order"*** means a document that authorizes a Change to the Services or Deliverables under the Agreement, whether in time frames, costs, or scope.

1.8. ***"Change Request"*** means one Party's request to the other Party for a Change Order.

1.9. ***"Contractor"*** has the same meaning as either: (a) both "Contractor" and "Consultant" as such terms are defined, and may be interchangeably used in the County's Professional Services Agreement, if such document forms the basis of this Agreement or (b) "Contractor" as defined in the County's Instruction to Bidders and General Conditions, if such document forms the basis of this Agreement.

1.10. "***Contractor Confidential Information***" means all non-public proprietary information of Contractor that is marked confidential, restricted, proprietary, or with a similar designation; provided that Contractor Confidential Information excludes: (a) Using Agency Confidential Information, (b) Using Agency Data; (c) information that may be subject to disclosure under Illinois Freedom of Information Act, 5 ILCS 140/1 et seq. or under the Cook County Code of Ordinances; and (d) the terms of this Agreement, regardless of whether marked with a confidential designation or not.

1.11. "***Contractor Facilities***" means locations owned, leased or otherwise utilized by

Contractor and its Subcontractors from which it or they may provide Services.

1.12. "***Contractor Intellectual Property***" means all Intellectual Property owned or licensed by Contractor.

1.13. "***Contractor IP Materials***" means all IP Materials owned or licensed by Contractor.

1.14. ***"Contractor Personnel"*** means any individuals that are employees, representatives, Subcontractors or agents of Contractor, or of a direct or indirect Subcontractor of Contractor.

1.15. "***Contractor-Provided Equipment***" means Equipment provided by or on behalf of Contractor."

1.16. "***Contractor-Provided Software***" means Software provided by or on behalf of Contractor.

1.17. "***Criminal Justice Information***" means data that meets the definition of "Criminal Justice Information" in the most recent version of FBI's CJIS Security Policy and also data that meets the definition of "Criminal History Record Information" at 28 C.F.R. 20.

1.18. "***Critical Milestone***" means those milestones critical to the completion of the Services as identified in this Agreement, in any work plan, project plan, statement of work, or other document approved in advance by the Using Agency.

1.19. "***Data Protection Laws***" means laws, regulations, regulatory requirements, industry self-regulatory standards, and codes of practice in connection with the processing of Personal Information, including those provisions of the Health Insurance Portability and Accountability Act of 1996 (42 U.S.C. §§ 1320(d) et seq.) as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 (42 U.S.C. §§ 17921 et seq.) and the Payment Card Industry standards.

1.20. ***"Data Security Breach"*** means (a) the loss or misuse (by any means) of any Using Agency Data or other Using Agency Confidential Information; (b) the unauthorized or unlawful access, use, or disclosure of any Using Agency Data or other Using Agency Confidential Information; or (c) any other act or omission that compromises the security, confidentiality, integrity or availability of any Using Agency Data or other Using Agency Confidential Information.

1.21. ***"Deliverable"*** has the same meaning as either: (a) "Deliverable" as defined in the County's Professional Services Agreement, if such document forms the basis of this Agreement; or (b) "Deliverable" as defined in the County's Instruction to Bidders and General Conditions, if such document forms the basis of this Agreement. In either case, Deliverables includes without limitation Contractor-Provided Equipment, Contractor-Provided Software, Developed Intellectual Property.

1.22. "***Developed Intellectual Property***" means Intellectual Property as well as any IP Materials conceived, developed, authored or reduced to practice in the course of or in connection with the provision of the Services, including, but not limited to: (a) modifications to, or enhancements (derivative works) of, the Using Agency Intellectual Property or the Using Agency IP Materials; (b) Developed Software; (c) documentation, training materials, or other IP Materials that do not modify or enhance then existing Using Agency IP Materials; and (d) modifications to or enhancements (derivative works) of, Third Party Intellectual Property or related IP Materials to the extent not owned by the licensor of the Third Party Intellectual Property under the terms of the applicable license.

1.23. "***Developed Software***" any Software conceived, developed, authored or reduced to practice in the course of or in connection with the provision of the Services (including any modifications, enhancements, patches, upgrades or similar developments).

1.24. "***Disaster***" means a sudden, unplanned, calamitous event causing substantial damage or loss as defined or determined by a risk assessment and business impact analysis, and which creates an inability or substantial impairment on the organization's part to provide critical business functions for a material period of time. This also includes any period when the Using Agency management decides to divert resources from normal production responses and exercises its Disaster Recovery Plan.

1.25. "***Disaster Recovery Plan***" means the planned process, and related activities, required to return an IT environment to an acceptable condition of normal business operation following declaration of a Disaster.

1.26. "***Equipment***" means the computer, telecommunications, network, storage, and related hardware and peripherals owned or leased by the Using Agency or its Third Party Contractors, or by Contractor or its Subcontractors, and used or supported by Contractor or its Subcontractors, or by the Using Agency or its agents, in connection with the Services.

1.27. "***Exit Assistance Plan***" means a detailed plan for the delivery of the Exit Assistance Services.

1.28. "***Exit Assistance Period***" has the meaning given in Section 9.2.

1.29. "***Exit Assistance Services***" means such exit assistance services as are reasonably necessary from Contractor and/or its Subcontractors to enable a complete transition of the affected Services to the Using Agency or the Using Agency's designee(s), including, but not limited to, all of the services, tasks and functions described in Section 9.

1.30. "***Illicit Code***" means any hidden files, automatically replicating, transmitting or activating computer program, virus (or other harmful or malicious computer program) or any Equipment-limiting, Software-limiting or Services-limiting function (including, but not limited to, any key, node lock, time-out or similar function), whether implemented by electronic or other means.

1.31. "***Incident***" means any event that is not part of the standard operation of a service in the Using Agency IT environment (including an event in respect of the Services or any Equipment or Software) and that causes, or may cause, an interruption to, or a reduction in the quality of, that service. The Using Agency will determine the severity level of each reported Incident.

1.32. "***Intellectual Property***" means any inventions, discoveries, designs, processes, software, documentation, reports, and works of authorship, drawings, specifications, formulae, databases, algorithms, models, methods, techniques, technical data, discoveries, know how, trade secrets, and other technical proprietary information and all patents, copyrights, mask works, trademarks, service marks, trade names, service names, industrial designs, brand names, brand marks, trade dress rights, Internet domain name registrations, Internet web sites and corporate names, and applications for the registration or recordation of any of the foregoing.

1.33. "***IP Materials***" means works of authorship, software, documentation, processes, designs, drawings, specifications, formulae, databases, algorithms, models, methods, processes and techniques,

technical data, inventions, discoveries, know how, the general format, organization, or structure of any report, document or database, and other technical proprietary information.

1.34. ***"Laws"*** means all United States federal, state and local laws or foreign laws, constitutions, statutes, codes, rules, regulations, ordinances, executive orders, decrees, edicts of or by any governmental authority having the force of law or any other legal requirement (including common law), including Data Protection Laws and the Cook County Code of Ordinances.

1.35. ***"Open Source Materials"*** means any Software that: (a) contains, or is derived in any manner (in whole or in part) from, any Software that is distributed as free Software, open source Software, shareware (e.g., Linux), or similar licensing or distribution models; and (b) is subject to any agreement with terms requiring that such Software be (i) disclosed or distributed in source code or object code form, (ii) licensed for the purpose of making derivative works, and/or (iii) redistributable. Open Source Materials includes without limitation "open source" code (as defined by the Open Source Initiative) and "free" code (as defined by the Free Software Foundation).

1.36. "***Party***" means either County, on behalf of County and its Using Agencies, or Contractor.

1.37. ***"Parties"*** means both County, on behalf of County and its Using Agencies, and Contractor.

1.38. "***Personal Information***" means personal data or information that relates to a specific, identifiable, individual person, including Using Agency personnel and individuals about whom the Using Agency, Contractor, Contractor's Subcontractors or affiliates has or collects financial and other information. For the avoidance of doubt, Personal Information includes the following: (a) any government-issued identification numbers (e.g., Social Security, driver's license, passport); (b) any financial account information, including account numbers, credit card numbers, debit card numbers, and other Cardholder Data; (c) Criminal Justice Information; (d) Protected Health Information; (e) user name or email address, in combination with a password or security question and answer that would permit access to an account; and (f) any other personal data defined as personally identifiable information under the breach notification laws of the fifty states.

1.39. ***"Problem"*** means the underlying cause of one or more Incidents, including where such cause is unknown or where it is known and a temporary work-around or permanent alternative has been identified.

1.40. "***Protected Health Information***" or PHI shall have the same meaning as the term "Protected Health Information" in 45 C.F.R. 160.103.

1.41. ***"Public Record"*** shall have the same meaning as the term "public record" in the Illinois Local Records Act, 50 ILCS 205/1 et seq.

1.42. ***"Required Consent"*** means that consent required to secure any rights of use of or access to any of Using Agency-Provided Equipment, Using Agency-Provided Software, Using Agency Intellectual Property, Using Agency IP Materials, any other Equipment, any other Software whether Third Party Software or otherwise, any other Intellectual Property whether Third Party Intellectual Property or otherwise, any other IP Material, any of which are required by, requested by, used by or accessed by Contractor, its Subcontractors, employees or other agents in connection with the Services.

1.43. "***Services***" either: (a) has the same meaning as "Services" as defined in Article 3 of the County's Professional Services Agreement, if such document forms the basis of this Agreement or (b) collectively means all of Contractor's services and other acts required in preparing, developing, and tendering the Using Agency's Deliverables as "Deliverables" is defined in the County's Instruction to Bidders and General Conditions, if such document forms the basis of this Agreement.

1.44. "***Service Level Agreements***" or "***SLA***" means service level requirement and is a standard for performance of Services, which sets Contractor and Using Agency expectations, and specifies the metrics by which the effectiveness of service activities, functions and processes will be measured, examined, changed and controlled.

1.45. "***Software***" means computer software, including source code, object, executable or binary code, comments, screens, user interfaces, data structures, data libraries, definition libraries, templates, menus, buttons and icons, and all files, data, materials, manuals, design notes and other items and documentation related thereto or associated therewith.

1.46. ***"Third Party"*** means a legal entity, company or person that is not a Party to the Agreement and is not a Using Agency, Subcontractor, affiliate of a Party, or other entity, company or person controlled by a Party.

1.47. "***Third Party Intellectual Property***" means all Intellectual Property owned by a Third Party, including Third Party Software.

1.48. ***"Third Party Contractor"*** means a Third Party that provides the Using Agency with products or services that are related to, or in support of, the Services. Subcontractors of Contractor are not "Third Party Contractors."

1.49. "***Third Party Software***" means a commercial Software product developed by a Third Party not specifically for or on behalf of the Using Agency. For clarity, custom or proprietary Software, including customizations to Third Party Software, developed by or on behalf of the Using Agency to the Using Agency's specifications shall not be considered Third Party Software.

1.50. "***Using Agency***" has the same meaning as the term "Using Agency" in the Cook County Procurement Code, located at Chapter 34, Article IV in the Cook County Code of Ordinances as amended, as applied to each department or agency receiving goods, Services or other Deliverables under this Agreement and includes Cook County, a body politic and corporate of the State of Illinois, on behalf of such Using Agency.

1.51. "***Using Agency Confidential Information***" means: (a) all non-public proprietary information of Using Agency that is marked confidential, restricted, proprietary, or with a similar designation; (b) Using Agency Data; and (c) any information that is exempt from public disclosure under the Illinois Freedom of Information Act, 5 ILCS 140/1 et seq. or under the Cook County Code of Ordinances.

1.52. "***Using Agency Data***" means all data, whether Personal Information or other data, provided by the Using Agency to Contractor, provided by Third Parties to Contractor for purposes relating to this Agreement, or otherwise encountered by Contractor for purposes relating to this Agreement, including all data sent to Contractor by the Using Agency and/or stored by Contractor on any media relating to the Agreement, including metadata about such data. To the extent there is any uncertainty as to whether any data constitutes Using Agency Data, the data in question shall be treated as Using Agency

Data. Using Agency Data further includes information that is: (a) input, processed or stored by the Using Agency's IT systems, including any Using Agency-Provided Software; (b) submitted to Contractor or its Subcontractors by any employees, agents, the Using Agency, Third Parties, business partners, and customers in connection with the Services or otherwise; (c) Incident records containing information relating to the Services; (d) Using Agency Intellectual Property and Using Agency IP Materials; (e) any raw data used to generate reports under this Agreement and any data included therein; and (f) Using Agency Confidential Information.

1.53. "***Using Agency Intellectual Property***" means all Intellectual Property owned or licensed by the Using Agency, including Developed Intellectual Property.

1.54. "***Using Agency IP Materials***" means all IP Materials owned or licensed by the Using Agency.

1.55. "***Using Agency-Provided Equipment***" means Equipment provided by or on behalf of Using Agency.

1.56. "***Using Agency-Provided Software***" means Software provided by or on behalf of Using Agency.

1.57. "***WISP***" means written information security program.

2. SERVICES AND DELIVERABLES

2.1. Approved Facilities. Contractor will perform Services only within the continental United States and only from locations owned, leased or otherwise utilized by Contractor and its Subcontractors.

2.2. Licenses and Export Controls. Contractor will be responsible for obtaining all necessary export authorizations and licenses for export of technical information or data relating to Using Agency Data, Software, Intellectual Property, IP Materials, or otherwise under this Agreement.

2.3. Required Consents for Assets in Use and Third Party Contracts as of the Effective Date**.** Contractor shall be responsible for obtaining all Required Consents relating to this Agreement. If Contractor is unable to obtain a Required Consent, Contractor shall implement, subject to the Using Agency's prior approval, alternative approaches as necessary to perform the Services. Contractor shall be responsible for and shall pay all costs associated with this section, including any fees or other charges imposed by the applicable Third Parties as a condition or consequence of their consent (*e.g.*, any transfer, upgrade or similar fees). The Using Agency shall cooperate with Contractor and provide Contractor such assistance in this regard as the Contractor may reasonably request.

2.4. SLAs and Critical Milestones. Commencing on the Effective Date or as otherwise specified in this Agreement, Contractor shall, as set forth in this Agreement: (a) perform the Services in accordance with SLAs and Critical Milestones; and (b) regularly measure and report on its performance against SLAs and Critical Milestones. Contractor shall maintain all data relating to and supporting the measurement of its performance, including performance against SLAs and Critical Milestones, in sufficient detail to permit a "bottom up" calculation, analysis and reconstruction of performance reports (including all inclusion and exclusion calculations) throughout the term of this Agreement. Such data shall be made available to the Using Agency in an electronic format reasonably acceptable to the Using Agency upon reasonable request and upon the expiration or termination of this Agreement.

2.5. Default SLAs, Critical Milestones and Fee Reductions. Unless otherwise explicitly specified in this Agreement, the Contractor's SLAs, SLA targets, and Critical Milestones shall be those that the Using Agency recognizes as commonly accepted "industry best practices" for Services of similar cost, size, and criticality. For example and without limitation, such SLAs include availability and performance Contractor-Provided Software and hosting-related Services, on-time delivery of Deliverables, response and resolution times of Contractor's service desk. For example and without limitation, such Critical Milestones include significant events in projects such as completion of major Deliverables. Unless otherwise specified in this Agreement, Contractor shall proportionately reduce fees for failing to perform the Services in accordance with applicable SLAs and for failing to timely achieve Critical Milestones, and the Using Agency may withhold that amount of fee reduction from any outstanding Contractor invoice. Except as expressly allowed under this Agreement, any such fee reduction accompanying a failure to meet applicable SLAs or Critical Milestones shall not be the Using Agency's exclusive remedy and shall not preclude the Using Agency from seeking other remedies available to it for a material breach of this Agreement.

2.6. Standards and Procedures Manual. Contractor will prepare, update, and maintain a manual ("Standards and Procedures Manual") subject to the Using Agency's review and approval that shall: (a) be based upon ITIL processes and procedures; (b) conform to the Using Agency's standard operating procedures (c) be suitable to assist the Using Agency and the Using Agency's auditors in verifying and auditing the Contractor's performance of the Services; and (d) detail the operational and management processes by which Contractor will perform the Services under this Agreement, including to the extent applicable, processes relating to: (i) Change Management and Change control; (ii) Incident management; (iii) Problem management; (iv) configuration management; (v) backup and restore; (vi) capacity management and full utilization of resources; (vii) project management; (viii) management information; (ix) security processes; (x) Contractor's Business Continuity Plan; (xi) Contractor's Disaster Recovery Plan; and (xi) administration, including invoicing. Where this Agreement assumes that the Using Agency will provide Tier 1 help desk support, the Standards and Procedures Manual shall also include sufficient help desk scripts for the Using Agency to provide such support. Contractor will perform the Services in accordance with the Standards and Procedures Manual; *provided*, *however*, that the provisions of the Standards and Procedures Manual shall never supersede the provisions of this Agreement.

2.7. Project Management Methodology. Contractor shall perform the Services in accordance with an industry-recognized project management methodology and procedures, subject to Using Agency approval. Contractor shall comply with the Using Agency's procedures for tracking progress and documents for the duration of the Agreement, including the submission of weekly or monthly status reports to the Using Agency as the Using Agency may require.

2.8. Change Management Procedures. Contractor shall utilize Change Management procedures, subject to Using Agency approval, that conform to ITIL/ITSM to manage, track and report on Changes relating to the Services, including procedures for scheduling maintenance, patching, replacement of assets, and other matters required for proper management of the Services. No Change will be made without the Using Agency's prior written consent (which may be given or withheld in the Using Agency's sole discretion), unless such Change: (a) has no impact on the Services being provided by Contractor; (b) has no impact on the security of the Using Agency Data and the Using Agency systems; and (c) causes no increase in any fees under this Agreement or the Using Agency's retained costs.

2.9. Resources Necessary for Services. Except as set forth in this Agreement, Contractor shall provide and be financially responsible for all Equipment, Software, materials, facilities, systems and other

resources needed to perform the Services in accordance with the Agreement.

2.10. Using Agency Resources. Except as explicitly allowed under this Agreement, Contractor shall not use, nor permit any Subcontractor, employee, agent, or other Third Party to use any Using Agency-Provided Equipment, Using Agency-Provided Software, Using Agency facilities, or any other Equipment, Software, materials, facilities, systems or other resources that the Using Agency provides or otherwise makes available under this Agreement for any purpose other than the performance of the Services; and Contractor shall do so only upon prior written approval of the Using Agency. Contractor shall not purport to, pledge or charge by way of security any of the aforementioned. Contractor shall keep any Equipment owned or leased by the Using Agency that is under Contractor's or a Contractor Subcontractor's control, secure and, for any such Equipment that is not located at the Using Agency facilities, such Equipment shall be clearly identified as the Using Agency's and separable from Contractor's and Third Parties' property.

2.11. Maintenance of Assets. Contractor shall maintain all Equipment, Software, materials, systems, and other resources utilized predominately or exclusively for performing Services in good condition, less ordinary wear and tear, and in such locations and configurations as to be readily identifiable.

2.12. Service Compatibility. To the extent necessary to provide the Services, Contractor shall ensure that the Services, Contractor-Provided Equipment and Contractor-Provided Software (collectively, the "Contractor Resources") are interoperable with the Using Agency-Provided Equipment, Using Agency-Provided Software and with the Using Agency's other Assets, at no cost beyond that specified in this Agreement and without adversely affecting any systems or services retained by the Using Agency or its Third Party Contractors. In the event of any Problem related to service compatibility where it is not known whether the Problem is caused by Contractor's Assets or by Using Agency's Assets, Contractor shall be responsible for correcting the Problem except to the extent that Contractor can demonstrate, to the Using Agency's satisfaction, that the cause was not due to Contractor Resources or to Contractor's action or inaction.

2.13. Cooperation with Using Agency's Third Party Contractors. Contractor shall cooperate with all Third Party Contractors to coordinate its performance of the Services with the services and systems of such Third Party Contractors. Subject to reasonable confidentiality requirements, such cooperation shall include providing: (a) applicable written information, standards and policies concerning any or all of the systems, data, computing environment, and technology direction used in performing the Services so that the goods and services provided by the Third Party Contractor may work in conjunction with or be integrated with the Services; (b) assistance and support services to such Third Party Contractors; (c) Contractor's quality assurance, its development and performance acceptance testing and the applicable requirements of any necessary interfaces for the Third Party Contractor's work product; (d) applicable written requirements of any necessary modifications to the systems or computing environment; and (e) access to and use of the Contractor's Assets as mutually agreed upon by the Using Agency and Contractor (such agreement not to be unreasonably withheld or delayed) and subject to the Third Party Contractor's agreement to comply with Contractor's applicable standard security policies.

2.14. Procurement Assistance. At any time during the Agreement, Contractor shall, as requested by the Using Agency, reasonably cooperate and assist the Using Agency with any Using Agency procurement relating to any of the Services or replacing the Services, including: (a) providing information, reports and data for use in the Using Agency's procurement or transition to a subsequent Third Party

Contractor; (b) answering Third Parties' and Using Agency's questions regarding the procurement and Services transition; and (c) allowing Third Parties participating in the Using Agency's procurement to perform reasonable, non-disruptive due diligence activities in respect of the relevant Services, including providing reasonable access to Key Personnel.

3. WARRANTIES

3.1. Compliance with Law and Regulations. Contractor represents and warrants that it shall perform its obligations under this Agreement in accordance with all Laws applicable to Contractor and its business, including Laws applicable to the manner in which the Services are performed, including any changes in such Laws. With respect to laws governing data security and privacy, the term 'Contractor Laws' shall include any Laws that would be applicable to Contractor if it, rather than the Using Agency, were the owner or data controller of any of the Using Agency Data in its possession or under its control in connection with the Services. Contractor also represents and warrants that it shall identify, obtain, keep current, and provide for Contractor's inspection, all necessary licenses, approvals, permits, authorizations, visas and the like as may be required from time to time under Contractor Laws for Contractor to perform the Services.

3.2. Non-Infringement. Contractor represents and warrants that it shall perform its responsibilities under this Agreement in a manner that does not infringe any patent, copyright, trademark, trade secret or other proprietary rights of any Third Party.

3.3. Contractor Materials and Third Party Intellectual Property. Contractor represents and warrants that it owns, or is authorized to use, all Contractor Intellectual Property, Contractor IP Materials and Contractor-provided Third Party Intellectual Property.

3.4. Developed Software. Contractor represents and warrants that all Developed Software shall be free from material errors in operation and performance, shall comply with the applicable documentation and specifications in all material respects, for twelve (12) months after the installation, testing and acceptance of such Developed Software by the Using Agency; provided, however, for Developed Software that executes on a monthly or less frequent basis (e.g., quarterly or annual cycle), such warranty period will commence on the date of first execution of such Software. Any repairs made to Developed Software pursuant to this Section shall receive a new twelve (12) month warranty period in accordance with the terms of this Section.

3.5. No Open Source. Contractor represents and warrants that Contractor has not (i) incorporated Open Source Materials into, or combined Open Source Materials with, the Deliverables or Software, (ii) distributed Open Source Materials in conjunction with any Deliverables or Software, or (iii) used Open Source Materials, in such a way that, with respect to the foregoing (i), (ii), or (iii), creates obligations for the Contractor with respect to any material Deliverables or grant, or purport to grant, to any Third Party, any rights or immunities under any material Deliverables (including, but not limited to, using any Open Source Materials that require, as a condition of use, modification and/or distribution of such Open Source Materials that other material Software included in Deliverables incorporated into, derived from or distributed with such Open Source Materials be (A) disclosed or distributed in source code form, (B) be licensed for the purpose of making derivative works, or (C) be redistributable at no charge).

3.6. Access to Using Agency Data. Contractor represents and warrants that Contractor has not and will not prevent, or reasonably fail to allow, for any reason including without limitation late payment or otherwise, the Using Agency's access to and retrieval of Using Agency Data. Contractor

acknowledges that Using Agency Data may be Public Records and that any person who knowingly, without lawful authority and with the intent to defraud any party, public officer, or entity, alters, destroys, defaces, removes, or conceals any Public Record commits a Class 4 felony.

3.7. Viruses. Contractor represents and warrants that it has not knowingly provided, and will not knowingly provide, to the Using Agency in connection with the Services, any Software that uses Illicit Code. Contractor represents and warrants that it has not and will not introduce, invoke or cause to be invoked such Illicit Code in any Using Agency IT environment at any time, including upon expiration or termination of this Agreement for any reason, without the Using Agency's prior written consent. If Contractor discovers that Illicit Code has been introduced into Software residing on Equipment hosted or supported by Contractor, Contractor shall, at no additional charge, (a) immediately undertake to remove such Illicit Code, (b) promptly notify the Using Agency in writing of the introduction, and (c) use reasonable efforts to correct and repair any damage to Using Agency Data or Software caused by such Illicit Code and otherwise assist the Using Agency in mitigating such damage and restoring any affected Service, Software or Equipment.

3.8. Resale of Equipment and Software. If Contractor resells to the Using Agency any Equipment or Software that Contractor purchased from a Third Party, then Contractor, to the extent it is legally able to do so, shall pass through any such Third Party warranties to the Using Agency and reasonably cooperate in enforcing them. Such warranty pass-through will not relieve Contractor from its warranty obligations set forth in this Section.

3.9. Data Security. Contractor warrants and represents that (i) the performance of the Services shall not permit any unauthorized access to or cause any loss or damage to Using Agency Data, Using Agency Intellectual Property, or other Using Agency Confidential Information; and (ii) it complies and shall comply with all Using Agency security policies in place from time to time during the term of this Agreement.

4. INTELLECTUAL PROPERTY

4.1. Using Agency Intellectual Property. The Using Agency retains all right, title and interest in and to all Using Agency Intellectual Property and Using Agency IP Materials. To the extent the Using Agency may grant such license, Contractor is granted a worldwide, fully paid-up, nonexclusive license during the term of this Agreement to use, copy, maintain, modify, enhance and create derivative works of the Using Agency Intellectual Property and Using Agency IP Materials that are necessary for performing the Services, and that are explicitly identified in writing by the Using Agency's Chief Information Officer, for the sole purpose of performing the Services pursuant to this Agreement. Contractor shall not be permitted to use any of the Using Agency Intellectual Property or Using Agency IP Materials for the benefit of any entities other than the Using Agency. Contractor shall cease all use of the Using Agency Intellectual Property and Using Agency IP Materials upon expiration or termination of this Agreement. Upon expiration or termination of this Agreement or relevant Services under this Agreement, Contractor shall return to the Using Agency all the Using Agency Intellectual Property, Using Agency IP Materials and copies thereof possessed by Contractor.

4.2. Developed Intellectual Property. As between the Parties, the Using Agency shall have all right, title and interest in all Developed Intellectual Property. Contractor hereby irrevocably and unconditionally assigns, transfers and conveys to the Using Agency without further consideration all of its right, title and interest in such Developed Intellectual Property, including all rights of patent, copyright,

trade secret or other proprietary rights in such materials, which assignment shall be effective as of the creation of such works without need for any further documentation or action on the part of the Parties. Contractor agrees to execute any documents or take any other actions as may reasonably be necessary, or as the Using Agency may reasonably request, to perfect the Using Agency's ownership of any such Developed Intellectual Property. Contractor shall secure compliance with this Section by any personnel, employees, contractors or other agents of Contractor and its Subcontractors involved directly or indirectly in the performance of Services under this Agreement.

4.3. Contractor Intellectual Property. Contractor retains all right, title and interest in and to Contractor Intellectual Property and Contractor IP Materials that Contractor developed before or independently of this Agreement. Contractor grants to the Using Agency, a fully-paid, royalty-free, non-exclusive, non-transferable, worldwide, irrevocable, perpetual, assignable license to make, have made, use, reproduce, distribute, modify, publicly display, publicly perform, digitally perform, transmit, copy, and create derivative works based upon Contractor Intellectual Property and Contractor IP Materials, in any media now known or hereafter known, to the extent the same are embodied in the Services and Deliverables, or otherwise required to exploit the Services or Deliverables. During the term of this Agreement and immediately upon any expiration or termination thereof for any reason, Contractor will provide to the Using Agency the most current copies of any Contractor IP Materials to which the Using Agency has rights pursuant to the foregoing, including any related documentation. Contractor bears the burden to prove that Intellectual Property and IP Materials related to this Agreement were not created under this Agreement.

4.4. Third Party Intellectual Property. Contractor shall not introduce into the Using Agency's environment any Third Party Intellectual Property or otherwise use such Third Party Intellectual Property to perform the Services without first obtaining the prior written consent from the Using Agency's Chief Information Officer, which the Using Agency may give or withhold in its sole discretion. A decision by the Using Agency to withhold its consent shall not relieve Contractor of any obligation to perform the Services.

4.5. Residual Knowledge. Nothing contained in this Agreement shall restrict either Contractor or Using Agency from the use of any ideas, concepts, know-how, methodologies, processes, technologies, algorithms or techniques relating to the Services which either Contractor or Using Agency, individually or jointly, develops or discloses under this Agreement, provided that in doing so Contractor or Using Agency does not breach its respective obligations under Section 5 relating to confidentiality and non-disclosure and does not infringe the Intellectual Property rights of the other or Third Parties who have licensed or provided materials to the other. Except for the license rights contained under Section 4, neither this Agreement nor any disclosure made hereunder grants any license to either Contractor or Using Agency under any Intellectual Property rights of the other.

4.6. Software Licenses. This Agreement contains all terms and conditions relating to all licenses in Contractor-Provided Software and Contractor IP Materials. Except as explicitly set forth elsewhere in this Agreement, all licenses that Contractor grants in Contractor-Provided Software include the right of use by Third Party Contractors for the benefit of the Using Agency, the right to make backup copies for backup purposes or as may be required by the Using Agency's Business Continuity Plan or Disaster Recovery Plan, the right to reasonably approve the procedures by which Contractor may audit the use of license entitlements, and the right to give reasonable approval before Contractor changes Contractor-Provided Software in a manner that materially and negatively impacts the Using Agency.

5. USING AGENCY DATA AND CONFIDENTIALITY

5.1. Property of Using Agency. All Using Agency Confidential Information, including without limitation Using Agency Data, shall be and remain the sole property of the Using Agency. Contractor shall not utilize the Using Agency Data or any other Using Agency Confidential Information for any purpose other than that of performing the Services under this Agreement. Contractor shall not, and Contractor shall ensure that its Subcontractors, its employees, or agents do not, possess or assert any lien or other right against or to the Using Agency Data or any other Using Agency Confidential Information. Without the Using Agency's express written permission, which the Using Agency may give or withhold in its sole discretion, no Using Agency Data nor any other Using Agency Confidential Information, or any part thereof, shall be disclosed, shared, sold, assigned, leased, destroyed, altered, withheld, or otherwise restricted of by Contractor or commercially exploited by or on behalf of Contractor, its employees, Subcontractors or agents.

5.2. Acknowledgment of Importance of Using Agency Confidential Information. Contractor acknowledges the importance of Using Agency Confidential Information, including without limitation Using Agency Data, to the Using Agency and, where applicable, Third Party proprietors of such information, and recognizes that the Using Agency and/or Third Party proprietors may suffer irreparable harm or loss in the event of such information being disclosed or used otherwise than in accordance with this Agreement.

5.3. Return of Using Agency Data and Other Using Agency Confidential Information. Upon the Using Agency's request, at any time during this Agreement or at termination or expiration of this Agreement, Contractor shall promptly return any and all requested Using Agency Data and all other requested Using Agency Confidential Information to the Using Agency or its designee in such a format as the Using Agency may reasonably request. Contractor shall also provide sufficient information requested by the Using Agency about the format and structure of the Using Agency Data to enable such data to be used in substantially the manner in which Contractor utilized such data. Also upon Using Agency's request, in lieu of return or in addition to return, Contractor shall destroy Using Agency Data and other Using Agency Confidential Information, sanitize any media upon which such the aforementioned resided using a process that meets or exceeds DoD 5220.28-M 3-pass specifications, and provide documentation of same within 10 days of completion, all in compliance with Using Agency's policies and procedures as updated. All other materials which contain Using Agency Data and other Using Agency Confidential Information shall be physically destroyed and shredded in accordance to NIST Special Publication 800-88; and upon Using Agency request, Contractor shall provide Using Agency with a certificate of destruction in compliance with NIST Special Publication 800-88. Contractor shall be relieved from its obligation to perform any Service to the extent the return of any Using Agency Data or other Using Agency Confidential Information at the Using Agency's request under this Section materially impacts Contractor's ability to perform such Service; provided, that Contractor gives the Using Agency notice of the impact of the return and continues to use reasonable efforts to perform.

5.4. Public Records. Contractor will adhere to all Laws governing Public Records located at 50 ILCS 205/1 et seq. and at 44 Ill. Admin. Code 4500.10 et seq. Specifically, and without limitation, Contractor shall: (a) store Using Agency Data in such a way that each record is individually accessible for the length of the Using Agency's scheduled retention; (b) retain a minimum of two total copies of all Using Agency Data; (c) retain Using Agency Data according to industry best practices for geographic redundancy, such as NIST Special Publication 800-34 as revised; (d) store and access Using Agency Data in a manner allowing individual records to maintain their relationships with one another; (e) capture relevant structural, descriptive, and administrative metadata to Using Agency Data at the time a record is created or enters the control of Contractor or its Subcontractors.

5.5. Disclosure Required by Law, Regulation or Court Order. In the event that Contractor is required to disclose Using Agency Data or other Using Agency Confidential Information in accordance with a requirement or request by operation of Law, regulation or court order, Contractor shall, except to the extent prohibited by law: (a) advise the Using Agency thereof prior to disclosure; (b) take such steps to limit the extent of the disclosure to the extent lawful and reasonably practical; (c) afford the Using Agency a reasonable opportunity to intervene in the proceedings; and (d) comply with the Using Agency's requests as to the manner and terms of any such disclosure.

5.6. Loss of Using Agency Confidential Information. Without limiting any rights and responsibilities under Section 7 of these IT Special Conditions, in the event of any disclosure or loss of, or inability to account for, any Using Agency Confidential Information, Contractor shall promptly, at its own expense: (a) notify the Using Agency in writing; (b) take such actions as may be necessary or reasonably requested by the Using Agency to minimize the violation; and (c) cooperate in all reasonable respects with the Using Agency to minimize the violation and any damage resulting therefrom.

5.6. Undertakings With Respect To Personnel. Contractor acknowledges and agrees that it is responsible for the maintenance of the confidentiality of Using Agency Data and other Using Agency Confidential Information by Contractor Personnel. Without limiting the generality of the foregoing, Contractor shall undertake to inform all Contractor Personnel of Contractor's obligations with respect to Using Agency Data and other Using Agency Confidential Information and shall undertake to ensure that all Contractor Personnel comply with Contractor's obligations with respect to same.

5.7. Background Checks of Contractor Personnel. Whenever the Using Agency deems it reasonably necessary for security reasons, the Using Agency or its designee may conduct, at its expense, criminal and driver history background checks of Contractor Personnel. Contractor and its Subcontractors shall immediately reassign any individual who, in the opinion of the Using Agency, does not pass the background check.

5.8 Contractor Confidential Information. Using Agency shall use at least the same degree of care to prevent disclosing Contractor Confidential Information to Third Parties as Using Agency employs to avoid unauthorized disclosure, publication or dissemination of its Using Agency Confidential Information of like character.

6. DATA SECURITY AND PRIVACY

6.1. General Requirement of Confidentiality and Security. It shall be Contractor's obligation to maintain the confidentiality and security of all Using Agency Confidential Information, including without limitation Using Agency Data, in connection with the performance of the Services. Without limiting Contractor's other obligations under this Agreement, Contractor shall implement and/or use network management and maintenance applications and tools and appropriate fraud prevention and detection and encryption technologies to protect the aforementioned; provided that Contractor shall, at a minimum, encrypt all Personal Information in-transit and at-rest. Contractor shall perform all Services utilizing security technologies and techniques and in accordance with industry leading practices and the Using Agency's security policies, procedures and other requirements made available to Contractor in writing, including those relating to the prevention and detection of fraud or other inappropriate use or access of systems and networks.

6.2. General Compliance. Contractor shall comply with all applicable Laws, regulatory requirements and codes of practice in connection with all capturing, processing, storing and disposing of

Personal Information by Contractor pursuant to its obligations under this Agreement and applicable Data Protection Laws and shall not do, or cause or permit to be done, anything that may cause or otherwise result in a breach by the Using Agency of the same. Contractor and all Contractor Personnel shall comply with all the Using Agency policies and procedures regarding data access, privacy and security.

6.3. Security. Contractor shall establish and maintain reasonable and appropriate physical, logical, and administrative safeguards to preserve the security and confidentiality of the Using Agency Data and other Using Agency Confidential Information and to protect same against unauthorized or unlawful disclosure, access or processing, accidental loss, destruction or damage. Such safeguards shall be deemed reasonable and appropriate if established and maintained with the more rigorous of: (a) the Using Agency Policies as updated; (b) the security standards employed by Contractor with respect to the protection of its confidential information and trade secrets as updated; (c) security standards provided by Contractor to its other customers at no additional cost to such customers, as updated; or (d) compliance with the then-current NIST 800-series standards and successors thereto or an equivalent, generally accepted, industry-standard security standards series.

6.4. Written Information Security Program. Contractor shall establish and maintain a WISP designed to preserve the security and confidentiality of the Using Agency Data and other Using Agency Confidential Information. Contractor's WISP shall include Data Breach procedures and annual Data Breach response exercises. Contractor's WISP shall be reasonably detailed and shall be subject to the Using Agency's reasonable approval.

6.5. Contractor Personnel. Contractor will oblige its Contractor Personnel to comply with applicable Data Protection Laws and to undertake only to collect, process or use any Using Agency Data, Using Agency Intellectual Property, Using Agency Confidential Information, or Personal Information received from or on behalf of the Using Agency for purposes of, and necessary to, performing the Services and not to make the aforementioned available to any Third Parties except as specifically authorized hereunder. Contractor shall ensure that, prior to performing any Services or accessing any Using Agency Data or other Using Agency Confidential Information, all Contractor Personnel who may have access to the aforementioned shall have executed agreements concerning access protection and data/software security consistent with this Agreement.

6.6. Information Access. Contractor shall not attempt to or permit access to any Using Agency Data or other Using Agency Confidential Information by any unauthorized individual or entity. Contractor shall provide each of the Contractor Personnel, Subcontractors and agents only such access as is minimally necessary for such persons/entities to perform the tasks and functions for which they are responsible. Contractor shall, upon request from the Using Agency, provide the Using Agency with an updated list of those Contractor Personnel, Subcontractors and agents having access to Using Agency Data and other Using Agency Confidential Information and the level of such access. Contractor shall maintain written policies that include auditing access levels and terminating access rights for off-boarded Contractor Personnel, Subcontractors and agents.

6.7. Protected Health Information. If Contractor will have access to Personal Health Information in connection with the performance of the Services, Contractor shall execute a Business Associate Agreement in a form provided by the Using Agency.

6.8. Criminal Justice Information. If Contractor will have access to Criminal Justice Information in connection with the performance of the Services, Contractor shall execute an addendum to this

Agreement governing the Contractor's access to such Criminal Justice Information in a form provided by the Using Agency.

6.9. Cardholder Data. If Contractor will have access to Cardholder Data in connection with the performance of the Services, no less than annually, Contractor shall tender to Using Agency a current attestation of compliance signed by a Qualified Security Assessor certified by the Payment Card Industry.

6.10. Encryption Requirement. Contractor shall encrypt all Personal Information and all other Using Agency Confidential Information the disclosure of which would reasonably threaten the confidentiality and security of Using Agency Data. Contractor shall encrypt the aforementioned in motion, at rest and in use in a manner that, at a minimum, adheres to NIST SP 800-111, NIST SP 800-52, NIST SP 800-77 and NIST SP 800-113 encryption standards. Contractor shall not deviate from this encryption requirement without the advance, written approval of the Using Agency's Information Security Office.

6.11. Using Agency Security. Contractor shall notify the Using Agency if it becomes aware of any Using Agency security practices or procedures (or any lack thereof) that Contractor believes do not comport with generally accepted security policies or procedures.

6.12. Contractor as a Data Processor. Contractor understands and acknowledges that, to the extent that performance of its obligations hereunder involves or necessitates the processing of Personal Information, it shall act only on instructions and directions from the Using Agency; *provided*, *however*, that Contractor shall notify the Using Agency if it receives instructions or directions from the Using Agency that Contractor believes do not comport with generally accepted security polices or procedures and the Using Agency shall determine whether to modify such instructions or have Contractor comply with such instructions unchanged.

6.13. Data Subject Right of Access and Rectification. If the Using Agency is required to provide or rectify information regarding an individual's Personal Information, Contractor will reasonably cooperate with the Using Agency to the full extent necessary to comply with Data Protection Laws. If a request by a data subject is made directly to Contractor, Contractor shall notify the Using Agency of such request as soon as reasonably practicable.

6.14. Security, Privacy and Data Minimization in Software Development Life Cycle. Contractor shall implement an industry-recognized procedure that addresses the security and privacy of Personal Information as part of the software development life cycle in connection with the performance of the Services. Contractor shall implement procedures to minimize the collection of Personal Information and shall, subject to Using Agency's written request to the contrary, minimize the collection of Personal Information.

6.15. Advertising and Sale of Using Agency Data. Nothing in this Agreement shall be construed to limit or prohibit a Using Agency's right to advertise, sell or otherwise distribute Using Agency Data as permitted by the Cook County Code of Ordinances.

7. DATA SECURITY BREACH

7.1. Notice to Using Agency. Contractor shall provide to the Using Agency written notice of such Data Security Breach promptly following, and in no event later than one (1) business day following, the discovery or suspicion of the occurrence of a Data Security Breach. Such notice shall summarize in reasonable detail the nature of the Using Agency Data that may have been exposed, and, if applicable,

any persons whose Personal Information may have been affected, or exposed by such Data Security Breach. Contractor shall not make any public announcements relating to such Data Security Breach without the Using Agency's prior written approval.

7.2. Data Breach Responsibilities. If Contractor knows or has reason to know that a Data Security Breach has occurred (or potentially has occurred), Contractor shall: (a) reasonably cooperate with the Using Agency in connection with the investigation of known and suspected Data Security Breaches; (b) perform any corrective actions that are within the scope of the Services; and (c) at the request and under the direction of the Using Agency, take any all other remedial actions that the Using Agency deems necessary or appropriate, including without limitation, providing notice to all persons whose Personal Information may have been affected or exposed by such Data Security Breach, whether or not such notice is required by Law.

7.3. Data Breach Exercises. Contractor shall conduct annual Data Breach exercises. Upon Using Agency request, Contractor shall coordinate its exercises with the Using Agency.

7.4. Costs. The costs incurred in connection with Contractor's obligations set forth in Section 7 or Using Agency's obligations under relevant Data Security Laws shall be the responsibility of the Party whose acts or omissions caused or resulted in the Data Security Beach and may include without limitation: (a) the development and delivery of legal notices or reports required by Law, including research and analysis to determine whether such notices or reports may be required; (b) examination and repair of Using Agency Data that may have been altered or damaged in connection with the Data Security Breach, (c) containment, elimination and remediation of the Data Security Breach, and (d) implementation of new or additional security measures reasonably necessary to prevent additional Data Security Breaches; (e) providing notice to all persons whose Personal Information may have been affected or exposed by such Data Security Breach, whether or required by Law; (f) the establishment of a toll-free telephone number, email address, and staffing of corresponding communications center where affected persons may receive information relating to the Data Security Breach; (g) the provision of one (1) year of credit monitoring/repair and/or identity restoration/insurance for affected persons.

8. AUDIT RIGHTS

8.1. Generally. Contractor and its Subcontractors shall provide access to any records, facilities, personnel, and systems relating to the Services, at any time during standard business hours, to the Using Agency and its internal or external auditors, inspectors and regulators in order to audit, inspect, examine, test, and verify: (a) the availability, integrity and confidentiality of Using Agency Data and examine the systems that process, store, support and transmit Using Agency Data; (b) controls placed in operation by Contractor and its Subcontractors relating to Using Agency Data and any Services; (c) Contractor's disaster recovery and backup/recovery processes and procedures; and (d) Contractor's performance of the Services in accordance with the Agreement. The aforementioned Using Agency audit rights include the Using Agency's right to verify or conduct its own SOC 2 audits.

8.2. Security Audits. Contractor shall perform, at its sole cost and expense, a security audit no less frequently than every twelve (12) months. The security audit shall test Contractor's compliance with security standards and procedures set forth in: (a) this Agreement, (b) the Standards and Procedures Manual, and (c) any security standards and procedures otherwise agreed to by the Parties.

8.3. Service Organization Control (SOC 2), Type II Audits. Contractor shall, at least once annually in the fourth (4^{th}) calendar quarter and at its sole cost and expense, provide to the Using Agency

and its auditors a Service Organization Control (SOC 2), Type II report for all locations at which the Using Agency Data is processed or stored.

8.4. Audits Conducted by Contractor. Contractor promptly shall make available to the Using Agency the results of any reviews or audits conducted by Contractor and its Subcontractors, agents or representatives (including internal and external auditors), including SOC 2 audits, relating to Contractor's and its Subcontractors' operating practices and procedures to the extent relevant to the Services or any of Contractor's obligations under the Agreement. To the extent that the results of any such audits reveal deficiencies or issues that impact the Using Agency or the Services, Contractor shall provide the Using Agency with such results promptly following completion thereof.

8.5. Internal Controls. Contractor shall notify the Using Agency prior to modifying any of its internal controls that impact the Using Agency, the Services and/or Using Agency Data and shall demonstrate compliance with this Agreement.

8.6. Subcontractor Agreements. Contractor shall ensure that all agreements with its Subcontractors performing Services under this Agreement contain terms and conditions consistent with the Using Agency's audit rights.

9. RIGHT TO EXIT ASSISTANCE

9.1. Payment for Exit Assistance Services. Exit Assistance Services shall be deemed a part of the Services and included within the Contractor's fees under this Agreement, except as otherwise detailed in this Agreement.

9.2. General. Upon Using Agency's request in relation to any termination, regardless of reason, or expiration of the Agreement, in whole or in part, Contractor shall provide the Using Agency and each of its designees Exit Assistance Services. During the Exit Assistance Period, Contractor shall continue to perform the terminated Services except as approved by the Using Agency and included in the Exit Assistance Plan. Contractor's obligation to provide the Exit Assistance Services shall not cease until the Services have been completely transitioned to the Using Agency or the Using Agency's designee(s) to the Using Agency's satisfaction.

9.3. Exit Assistance Period. Contractor shall: (a) commence providing Exit Assistance Services at the Using Agency's request (i) up to six (6) months prior to the expiration of the Agreement, or (ii) in the event of termination of the Agreement or any Services hereunder, promptly following receipt of notice of termination from the Party giving such notice (such date notice is received, the "Termination Notice Date"), and (b) continue to provide the Exit Assistance Services through the effective date of termination or expiration of the Agreement or the applicable terminated Services (as applicable, the "Termination Date") (such period, the "Exit Assistance Period"). At the Using Agency's option, the Exit Assistance Period may be extended for a period of up to twelve (12) months after the Termination Date. The Using Agency shall provide notice regarding its request for Exit Assistance Services at least sixty (60) days prior to the date upon which the Using Agency requests that Contractor commence Exit Assistance Services unless such time is not practicable given the cause of termination.

9.4. Manner of Exit Assistance Services. Contractor shall perform the Exit Assistance Services

in a manner that, to the extent the same is within the reasonable control of Contractor: (a) is in accordance with the Using Agency's reasonable direction; (b) is in cooperation with, and causes its Subcontractors to cooperate with, the Using Agency and the Using Agency's designee(s); (c) supports the efficient and orderly transfer of the terminated Services to the Using Agency; (d) minimizes any impact on the Using Agency's operations; (e) minimizes any internal and Third Party costs incurred by the Using Agency and the Using Agency's designee(s); and (f) minimizes any disruption or deterioration of the terminated Services. Exit Assistance Plan. Contractor shall develop and provide to the Using Agency, subject to the Using Agency's approval and authorization to proceed, an Exit Assistance Plan that shall: (a) describe responsibilities and actions to be taken by Contractor in performing the Exit Assistance Services; (b) describe in detail any Using Agency Responsibilities which are necessary for Contractor to perform the Exit Assistance Services; (c) describe how any transfer of Assets and any novation, assignment or transfer of contracts will be achieved during the Exit Assistance Period; (d) detail the return, and schedule for return, of Using Agency Data and other Using Agency-specific information to be provided; (e) set out the timetable for the transfer of each element of the terminated Services (including key milestones to track the progress); (f) identify a responsible party for each service, task and responsibility to be performed under the Exit Assistance Plan; and (g) specify reasonable acceptance criteria and testing procedures to confirm whether the transfer of the terminated Services has been successfully completed. Following the Using Agency's approval of, and authorization to proceed with the final Exit Assistance Plan, Contractor will perform the Exit Assistance Services in accordance with the Exit Assistance Plan.

9.6. Exit Assistance Management. Within the first thirty (30) days of the Exit Assistance Period, Contractor will appoint a senior project manager to be responsible for, and Contractor's primary point of contact for, the overall performance of the Exit Assistance Services. Upon Using Agency request, Contractor will provide individuals with the required expertise to perform Exit Assistance Services, even if those individuals are not currently performing Services. Contractor will promptly escalate to the Using Agency any failures (or potential failures) regarding the Exit Assistance Services. Contractor will meet weekly with the Using Agency and provide weekly reports describing: the progress of the Exit Assistance Services against the Exit Assistance Plan; any risks encountered during the performance of the Exit Assistance Services; and proposed steps to mitigate such risks. The Using Agency may appoint, during the Exit Assistance Period, a Using Agency designee to be the Using Agency's primary point of contact and/or to operationally manage Contractor during the Exit Assistance Period.

9.7. Removal of Contractor Materials. Contractor shall be responsible at its own expense for de-installation and removal from the Using Agency Facilities any Equipment owned or leased by Contractor that is not being transferred to the Using Agency under the Agreement subject to the Using Agency's reasonable procedures and in a manner that minimizes the adverse impact on the Using Agency. Prior to removing any documents, equipment, software or other material from any Using Agency Facility, Contractor shall provide the Using Agency with reasonable prior written notice identifying the property it intends to remove. Such identification shall be in sufficient detail to apprise the Using Agency of the nature and ownership of such property.

9.8. Using Agency-specific Information. Upon Using Agency's request, Contractor will specifically provide to the Using Agency the following Using Agency Data to relating to the Services: (a) SLA statistics, reports and associated raw data; (b) operational logs; (c) the Standards and Procedures Manual; (d) Incident and Problem logs for at least the previous two (2) years; (e) security features; (f) passwords and password control policies; (g) identification of work planned or in progress as of the Termination Date, including the current status of such work and projects; and (h) any other information relating to the Services or the Using Agency's IT or operating environment which would be required by a

reasonably skilled and experienced Contractor of services to assume and to continue to perform the Services following the Termination Date without disruption or deterioration. This section shall not limit any other rights and duties relating to Using Agency Data.

9.9. Subcontractors and Third Party Contracts. For each contract for which Using Agency has an option to novate or transfer, Contractor will supply the following information upon Using Agency's request: (a) description of the goods or service being provided under the contract; (b) whether the contract exclusively relates to the Services; (c) whether the contract can be assigned, novated or otherwise transferred to the Using Agency or its designee and any restrictions or costs associated with such a transfer; (d) the licenses, rights or permissions granted pursuant to the contract by the Third Party; (e) amounts payable pursuant to the terms of such contract; (f) the remaining term of the contract and termination rights; and (g) contact details of the Third Party. Contractor's agreements with Third Parties that predominantly or exclusively relate to this Agreement shall not include any terms that would restrict such Third Parties from entering into agreements with the Using Agency or its designees as provided herein.

9.10. Knowledge Transfer. As part of the Exit Assistance Services and upon Using Agency's reasonable request, Contractor will provide knowledge transfer services to the Using Agency or the Using Agency's designee to allow the Using Agency or such designee to fully assume, become self-reliant with respect to, and continue without interruption, the provision of the terminated Services. Contractor shall: allow personnel of the Using Agency or the Using Agency's designee to work alongside Contractor Personnel to shadow their role and enable knowledge transfer; answer questions; and explain procedures, tools, utilities, standards and operations used to perform the terminated Services.

9.11. Change Freeze. Unless otherwise approved by the Using Agency or required on an emergency basis to maintain the performance of the Services in accordance with the Performance Standards and SLAs, during the Exit Assistance Period, Contractor will not make or authorize material Changes to: (a) the terminated Services, including to any Equipment, Software or other facilities used to perform the terminated Services; and (b) any contracts entered into by Contractor that relate to the Services (including contracts with Subcontractors).

9.12. Software Licenses. If and as requested by the Using Agency as part of the Exit Assistance Services, Contractor shall: (a) re-assign licenses to the Using Agency or the Using Agency's designee any licenses for which Contractor obtained Required Consents; (b) grant to the Using Agency, effective as of the Termination Date, at no cost to the Using Agency, a license under Contractor's then-current standard license terms made generally available by Contractor to its other commercial customers in and to all Contractor-Provided Software that constitutes generally commercially available Software that was used by Contractor on a dedicated basis to perform the Services and is reasonably required for the continued operation of the supported environment or to enable the Using Agency to receive services substantially similar to the Services for which Contractor utilized such Software; and with respect to such Software, Contractor shall offer to the Using Agency maintenance (including all enhancements and upgrades) at the lesser of a reasonable rate or the rates Contractor offers to other commercial customers for services of a similar nature and scope; (c) grant to the Using Agency, effective as of the Termination Date, a non-exclusive, non-transferable, fully-paid, royalty-free, perpetual, irrevocable, worldwide license following expiration of the Exit Assistance Period in and to all Contractor-Provided Software that does not constitute

generally commercially available Software that is incorporated into the supported environment, which license shall extend only to the use of such Software by the Using Agency or its designee (subject to Contractor's reasonable confidentiality requirements) to continue to enable the Using Agency to receive services substantially similar to the Services for which Contractor utilized such Software; and (d) provide the Using Agency with a copy of the Contractor-Provided Software described in this Section in such media as requested by the Using Agency, together with object code and appropriate documentation.

10. MISCELLANEOUS

10.1. Survival. Sections 1 (Definitions for Special Conditions), 4 (Intellectual Property), 7 (Data Security Breach), and 8 (Audit Rights) shall survive the expiration or termination of this Agreement for a period of five (5) years (and Sections 5 (Using Agency Data and Confidentiality) and 10 (Miscellaneous) shall survive for a period of ten [10] years) from the later of (a) the expiration or termination of this Agreement (including any Exit Assistance Period), or (b) the return or destruction of Using Agency Confidential Information as required by this Agreement.

10.2. No Limitation. The rights and obligations set forth in these IT special conditions exhibit do not limit the rights and obligations set forth in any Articles of the Professional Services Agreement. For the avoidance of doubt, the use of County in the PSA or GC shall expressly include Using Agency and vice versa.

10.3. No Waiver of Tort Immunity. Nothing in this Agreement waives immunity available to the Using Agency under Law, including under the Illinois Local Governmental and Governmental Employees Tort Immunity Act, 745 ILCS 10/1-101 et seq.

10.4. No Click-Wrap or Incorporated Terms. The Using Agency is not bound by any content on the Contractor's website, in any click-wrap, shrink-wrap, browse-wrap or other similar document, even if the Contractor's documentation specifically referenced that content and attempts to incorporate it into any other communication, unless the Using Agency has actual knowledge of the content and has expressly agreed to be bound by it in a writing that has been manually signed by the County's Chief Procurement Officer.

10.5. Change Requests. Except as otherwise set forth in this Agreement, this Section 10.5 shall govern all Change Requests and Change Orders. If either Party believes that a Change Order is necessary or desirable, such Party shall submit a Change Request to the other. Contractor represents to Using Agency that it has factored into Contractor's fees adequate contingencies for *de minimis* Change Orders. Accordingly, if Change Requests are made, they will be presumed not to impact the fees under this Agreement; provided, however, that if the Change Request consists of other than a *de minimis* deviation from the scope of the Services and/or Deliverables, Contractor shall provide Using Agency with written notification of such other deviation within five (5) business days after receipt of the Change Request. In the event of a Using Agency-initiated Change Request, within five (5) business days of Contractor's receipt of such Change Request, Contractor shall provide to Using Agency a written statement describing in detail: (a) the reasonably anticipated impact on any Services and Deliverables as a result of the Change Request including, without limitation, Changes in Software and Equipment, and (b) the fixed cost or cost estimate for the Change Request. If Licensor submits a Change Request to Customer, such Change Request shall include the information required for a Change Response.

10.6. Change Orders. Any Change Order that increases the cost or scope of the Agreement, or that materially affects the rights or duties of the Parties as set forth the Agreement, must be agreed upon by the Using Agency in a writing executed by the County's Chief Procurement Officer. In all cases, the approval of all Change Requests and issuance of corresponding Change Orders must comply the County's Procurement Code. If either Party rejects the other's Change Request, Contractor shall proceed to fulfill its obligations under this Agreement.

EXHIBIT 7

Identification of Subcontractor/Supplier/Subconsultant

Contract #: 2003-18509

OCPO ONLY:	
	Disqualification
X	Check Complete

Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract**. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: 2003-18509	Date: April 7, 2021
Total Bid or Proposal Amount: $21,705,923	Contract Title: Network Managed Services
Contractor: Sentinel Technologies, Inc.	Subcontractor/Supplier/ Subconsultant to be added or substitute: Smart Technology Services
Authorized Contact for Contractor: Chris Vasquez	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Steve Baker
Email Address (Contractor): cvasquez@sentinel.com	Email Address (Subcontractor): scbaker@smarts.com
Company Address (Contractor): 2550 Warrenville Road	Company Address (Subcontractor): 333 W. Wacker Dr., Ste. 1600
City, State and Zip (Contractor): Downers Grove, IL 60515	City, State and Zip (Subcontractor): Chicago, IL 60606
Telephone and Fax (Contractor): (T) 630-769-4300 (F) 630-769-1399	Telephone and Fax (Subcontractor): (T) 312-612-8221 (F) 312-775-6554
Estimated Start and Completion Dates (Contractor): TBD	Estimated Start and Completion Dates (Subcontractor): TBD

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	**Total Price of Subcontract for Services or Supplies**
Provide On-Site Engineering Support, Network Consulting, Equipment Maintenance and Repair, Hardware & Software procurement as needed.	$1,948,281

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Sentinel Technologies, Inc.
Contractor

Timothy Hill
Name

Co-President / CFO
Title

Prime Contractor Signature

01-18-2022
Date

Contract #: 2003-18509

OCPO ONLY:	
	Disqualification
X	Check Complete

Cook County
Office of the Chief Procurement Officer
Identification of Subcontractor/Supplier/Subconsultant Form

The Bidder/Proposer/Respondent ("the Contractor") will fully complete and execute and submit an Identification of Subcontractor/Supplier/Subconsultant Form ("ISF") with each Bid, Request for Proposal, and Request for Qualification. **The Contractor must complete the ISF for each Subcontractor, Supplier or Subconsultant which shall be used on the Contract**. In the event that there are any changes in the utilization of Subcontractors, Suppliers or Subconsultants, the Contractor must file an updated ISF.

Bid/RFP/RFQ No.: 2003-18509	Date: April 7, 2021
Total Bid or Proposal Amount: $21,705,923	Contract Title: Network Managed Services
Contractor: Sentinel Technologies, Inc.	Subcontractor/Supplier/ Subconsultant to be added or substitute: Solai & Cameron
Authorized Contact for Contractor: Chris Vasquez	Authorized Contact for Subcontractor/Supplier/ Subconsultant: Mallar Solai
Email Address (Contractor): cvasquez@sentinel.com	Email Address (Subcontractor): msoolai@solcam.com
Company Address (Contractor): 2550 Warrenville Road	Company Address (Subcontractor): 2335 N. Southport Ave.
City, State and Zip (Contractor): Downers Grove, IL 60515	City, State and Zip (Subcontractor): Chicago, IL 60664
Telephone and Fax (Contractor): (T) 630-769-4300 (F) 630-769-1399	Telephone and Fax (Subcontractor): (T) 773-506-2720 (F) 773-506-2717
Estimated Start and Completion Dates (Contractor): TBD	Estimated Start and Completion Dates (Subcontractor): TBD

Note: Upon request, a copy of all written subcontractor agreements must be provided to the OCPO.

Description of Services or Supplies	**Total Price of Subcontract for Services or Supplies**
Provide On-Site Engineering Support, Network Consulting, Equipment Maintenance and Repair, Hardware & Software procurement as needed.	$5,823,494

The subcontract documents will incorporate all requirements of the Contract awarded to the Contractor as applicable. The subcontract will in no way hinder the Subcontractor/Supplier/Subconsultant from maintaining its progress on any other contract on which it is either a Subcontractor/Supplier/Subconsultant or principal contractor. This disclosure is made with the understanding that the Contractor is not under any circumstances relieved of its abilities and obligations, and is responsible for the organization, performance, and quality of work. **This form does not approve any proposed changes, revisions or modifications to the contract approved MBE/WBE Utilization Plan. Any changes to the contract's approved MBE/WBE/Utilization Plan must be submitted to the Office of the Contract Compliance.**

Sentinel Technologies, Inc.
Contractor

Timothy Hill
Name

Co-President / CFO
Title

Prime Contractor Signature

01-18-2022
Date

EXHIBIT 8

Cook County Travel Policy

Cook County Travel and Business Expenses Policy and Procedures

Adopted: FY 2017

Cook County Travel and Business Expenses Policy and Procedures

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INTRODUCTION

The County of Cook ("County") has a fiduciary responsibility to ensure County resources are used responsibly and that individuals do not incur inappropriate or excessive expenses, or gain financially from the County. As such, all persons who travel on behalf of the County are fiscally responsible and accountable for all County expenditures.

The purpose of the County's travel and business expense policy and procedures is to provide guidelines for payment of authorized travel expenses in an efficient, cost effective manner, and to enable County travelers to successfully execute their local and non-local travel requirements at the lowest reasonable costs, resulting in the best value for the County.

All official travel should be prudently planned so that the County's best interests are served at the most reasonable cost. Anyone traveling on County business is expected to exercise the same economy that a practical person would exercise when traveling on personal business.

Excessive costs or unjustifiable costs are not acceptable and will not be reimbursed. The individual requesting reimbursement is responsible for insuring that his/her expense and related reimbursement request complies with all applicable policies, is properly authorized, and is supported with necessary receipts and documentation.

Supervisors and department heads are accountable for use of County funds and must verify that all travel is budgeted and expenditures are charged to the proper account(s).

These guidelines and procedures described in this policy may not cover every possible situation. Travelers should contact supervisors and/or department heads for clarification as needed.

APPLICABILITY

The Cook County Travel and Business Expense Policy and Procedures, and all associated requirements, applies to all County employees and all County officials, whether elected or appointed, who incur travel or business expenses while conducting official business on behalf of the County.

GENERAL PRINCIPLES AND REQUIREMENTS

The County reimburses authorized travelers for reasonable and necessary expenses incurred in connection with approved travel on its behalf.

A necessary expense is one for which there exists a clear business purpose and is within the County's expense policy limitations. A clear business purpose contains all information necessary to substantiate the expenditure including a list of attendees, if appropriate, and their

purpose for attending, business topics discussed, or how the expenditure benefited the County.

Each county bureau and department is charged with the responsibility for determining the necessity, available resources and justification for the need and the method of travel.

All employees and supervisory staff should keep the following key points in mind when planning and/or approving travel on behalf of the County:

i. All official travel should be planned so that the best interests of the County are served at the most reasonable cost;
ii. All official travel shall be by the most economical mode of transportation available considering travel time, cost and work requirements;
iii. Most travel must be authorized in advance by the traveler's department head;
iv. Each department head is responsible for ensuring that all travel on behalf of the County complies with all applicable travel regulations;
v. Employees must be authorized to commit the County's resources, and are subject to disciplinary action up to and including the termination of employment if proper authorization is not obtained;
vi. All travel authorizations must be documented by the process established within each bureau or department as to how prior authorization for travel will be documented, e.g., travel request form, email;
vii. Under no circumstances should an individual approve his/her own expense report.
viii. Travel related costs shall not be reimbursed from petty cash funds; and
ix. The County will not reimburse personal expenses.

LOCAL TRAVEL

Definitions

"Local travel" means travel that is performed for official purposes in and around the employee's primary work location and does not entitle the traveler to lodging, meals or other travel related allowances.

"Primary work location" means the worksite to which the employee is assigned and reports to when not performing local travel.

Authorized Modes of Transportation for Local Travel

Authorized modes of local transportation for conducting local official County business in preferred order are:

i. Public transportation, i.e., CTA, Pace, Metra
ii. County-owned vehicles, i.e., Shared Fleet or ZipCar;
iii. Taxicabs and ride sharing services; and
iv. Personally owned vehicle.

Local Travel Requirements

Preferred Method of Travel

Public transportation is the preferred method of local travel. However, it is recognized that there are times when this mode of transportation may not be feasible due to location, timing, equipment/materials, and/or security reasons. In such cases, the use of a County-owned or personally owned vehicle ("POV") for local travel may be approved by a department head. Use of a POV for local travel may not be approved solely to accommodate the traveler's personal comfort or convenience.

County-owned vehicles

The following requirements apply to local travel by means of a County-owned vehicle:

i. The department head has determined public transportation is not feasible or practical.
ii. County owned vehicles are to be used only for County business. The use of County-owned vehicles for personal use is prohibited.
iii. Employees must follow the Vehicle Policy Ordinance, and any other rules, regulations or other applicable requirements adopted by the Cook County Board of Commissioners or the Vehicle Steering Committee.

Personally Owned Vehicles

The following requirements apply to the use of a POV for local travel:

i. County employees, with the prior written permission of their department head, may use their POV to conduct official County business. Department heads shall only approve the use of POV for County business when it is in the best interest of the County to do so.
ii. POV use is in the County's best interest when it is the least expensive option or the employee's department head determines in writing that a less expensive mode of transportation is clearly not feasible or practical.
iii. Each bureau (or equivalent operating unit) is responsible for developing a process for approving and documenting the use of a POV for official travel.

A copy of the department head's written approval for each instance of POV use must accompany each request for POV mileage reimbursement and related expenses.

Reimbursement for Local Travel by Public Transportation

Mass Transit and Metra

Local official travel via mass transit, e.g., CTA, PACE, Metra, may be reimbursed as a transportation expense. A receipt is required for reimbursement.

Taxicabs
Employees may utilize a taxicab if advantageous to the County and necessary for urgent business. Reimbursement is limited to the metered fare. Tipping is at the traveler's expense and not reimbursable. A receipt is required for reimbursement.

Uber/Lyft, etc.
Employees may utilize Uber or a similar service if advantageous to the County and necessary for urgent business. In such cases, an employee may only use the service's lowest-cost option, e.g., Uber X. Reimbursement for Uber and similar ride services is limited to the actual cost of the trip. A receipt is required for reimbursement.

Reimbursement for Local Travel by POV

Reimbursement for POV mileage shall be subject to the following terms and conditions:

i. An employee shall not be reimbursed for commuting mileage, i.e., the distance between the employee's residence and the employee' primary work location.
ii. When approved local travel starts and terminates at the employee's primary work location, only the most direct route mileage (using the TEVS mileage calculator) from the primary work location to the site(s) visited and back to the primary work location will be reimbursed. In the event the employee's work day ends at a site, the mileage from the last site to residence shall not be reimbursed.
iii. An employee driving a POV may start and terminate the field assignment at her/his home or official workstation, at the discretion of the department head, provided that where the assignment starts and/or terminates at the employee's home, mileage from residence to first location and last location to residence is deemed commuting mileage and shall not be reimbursed.
iv. The number of County business miles driven per month will be compensated at the standard IRS deduction rate for business related transportation currently in effect and authorized by the Bureau of Administration. IRS mileage rates adjusted midyear will not be made retroactive. The IRS per-mile rate covers the total cost of operating a POV for local travel or transportation away from home, including such items as gasoline, oil, maintenance, repairs, etc.
v. Any travel voucher for POV reimbursement that does not include a copy of the prior authorization for POV travel shall not be processed for payment.

Parking and Tolls

Employees can be reimbursed for parking and toll expenses when using a County owned vehicle or POV for County business. Parking and tolls shall be allowed for reimbursement if items are

supported by receipts.

Local Travel Reimbursement

Local travel expenses are reimbursed by means of a Travel Expense Voucher (TEV) on the Transportation Expense Voucher System (TEVS). A sample TEV is attached at Appendix 1.

All requests for local travel reimbursement must be generated from the TEVS. The Comptroller's Office will not accept handwritten vouchers.

Employees are required to utilize the TEVS for all mileage reimbursement and other transportation expenses associated with local travel including tolls and parking. TEVS automatically calculates the distance for the most direct route between the two points of travel.

All TEV expenses for parking, tolls, taxi, and public transportation costs shall be supported by receipts for all items, individually.

TEVs prepared through the TEVS must be prepared and signed by the employee who has incurred the expense and signed by his/her department head (or a designated representative). The original local travel voucher shall be submitted to the Comptroller's Office and a copy should be retained by the employee and by the department. Falsification of a TEV is considered a major cause infraction subject to disciplinary action up to and including discharge.

The traveler submitting the TEV is personally responsible for its accuracy and propriety. Local travel trip details are to be entered immediately following travel to eliminate possibility of errors. The TEV must be completed in its entirety.

Approval and Submission of Local Transportation Expense Voucher

In order to be eligible for local travel reimbursement, the employee must submit the TEV by no later than the 20th day of the month following the month in which the travel expense was incurred, unless the failure to submit a voucher within the 20 day period is due to extraordinary circumstances.

The local transportation expense voucher shall then be reviewed and approved by the traveler's department head (or a designated representative), or bureau chief (or equivalent) in the case of a department head, whose signature will represent his or her representation that he or she has reviewed the voucher and that the information contained on the voucher is complete and accurate.

Upon approving a TEV, a supervisor and department head (or a designated representative) are certifying:

i. Appropriateness of the expenditure and reasonableness of the amount;
ii. Availability of funds;
iii. Compliance with applicable reimbursement policies; and

iv. Completeness and accuracy of documentation.

A department must submit the TEV to the Comptroller's Office via TEVS by no later than the 60th day after the end of the month in which the travel expense was incurred. An employee who submits a voucher within the 20-day submission period will not be denied reimbursement for failure of his/her department to timely submit the voucher to the Comptroller's office. A copy of the TEV shall be retained by the department.

Any TEV not prepared in accordance with these regulations, including the proper signatures, will be returned to the originator for corrections.

A request for reimbursement of an expense that does not comply with these guidelines may be denied and treated as a personal expense to the traveler and shall be deducted from the reimbursement due the traveler.

NON-LOCAL TRAVEL

The following is not intended to cover routine local travel related to the performance of regular job duties and applies only to official travel that requires an overnight stay.

Before planning non-local travel to attend conferences, meetings, seminars or training sessions, every effort should be made to identify local options for comparable conferences, meetings, seminars or training sessions.

Travelers must verify that planned travel is eligible for reimbursement before making travel arrangements.

Non-local travel connected to and/or funded by a grant (or contract) must be made in accordance with the funding agency's travel requirements. Reimbursement is made at whichever rate is lower, the County's rate or the rate set out in the grant (or contract).

Reasons for Non-Local Travel

The County recognizes the following activities as appropriate for non-local travel purposes:

i. Delivery of legislative testimony:
ii. As a stipulation or condition of grant funding or otherwise required for County or federal certification.
iii. Presentation on behalf of the County at a conference or seminar.
iv. Financial or tax audit.
v. Site visits or operational evaluations related to departmental improvement efforts.
vi. Court proceedings or case preparation.
vii. Law enforcement related investigations.
viii. Attendance at conferences, meetings, seminars or training sessions for which: the topic is of critical interest to the County; representation at the event is in the best interest of the County, and the topic is related to an employee's

professional development.

Non-local travel for any other purpose(s) requires the prior written approval of the traveler's bureau chief (or equivalent).

Limits on Participants

Attendance at conferences, meetings, seminars or training sessions held outside the Chicago Metropolitan Area is limited to two employees unless otherwise approved by the travelers' bureau chief (or equivalent). (The Chicago Metropolitan Area is comprised of Cook County, DuPage County, Kane County, Kendall County, Lake County, McHenry County and Will County.)

Non-Local Travel Approval Procedure

If the County has contracted with a travel management company, all travel arrangements are required to be secured through the County's designated travel management company.

If the County has not contracted with a travel management company, travel arrangements are the responsibility of the traveler(s). In such cases, all travel should be by means of the most direct route and the least costly alternative consistent with the itinerary.

All travel outside the Chicago Metropolitan Area requires bureau chief (or equivalent) approval. A completed Travel Request Form ("TRF") must be approved by the traveler's department head and submitted to the bureau chief (or equivalent) as far in advance as possible, but no later than ten (10) business days prior to the date of non-local travel. A sample TRF is attached at Appendix 2.

Supporting documentation should be attached to the TRF. Supporting documentation includes, but is not limited to:

a. A cover memo from the department head justifying the benefit to the County that will result in the employee attending the conference, meeting, or training, etc.;

b. An agenda; and

c. The estimated travel cost (obtained either from the travel management company or prepared by the traveler, as the case may be).

The County is not obligated to reimburse employees for non-local travel expenses that do not comply with the applicable travel requirements or those not previously approved by the traveler's bureau chief (or equivalent).

All expenses incurred during non-local travel are to be charged to the 190 account.

Non-local travel paid by a third party must adhere to these travel guidelines and the County's Ethic's rules.

Non-local travel shall not be reimbursed from petty cash funds.

Travel Outside the Continental United States (U.S.)

All requests for travel outside the continental U.S. must be submitted to the traveler's executive department head, i.e., the chief administrative officer responsible for the policy and administration of the traveler's department, as far in advance as possible, but not later than fifteen (15) business days prior to travel. The executive department head will seek approval from the President's chief of staff or the chief of staff of the elected official for whom the employee works, as the case may be, and will notify the department of approval or denial.

Travelers should convert all foreign expenses to U.S. currency prior to submitting a Travel Reimbursement Voucher. Official documentation of the exchange rate at the time of travel (i.e., bank receipt) must accompany all original receipts.

Reimbursable Non-Local Travel Expenses

County-owned vehicles.

Employees traveling on County business in a County-owned vehicle are entitled to reimbursement for any out of pocket gas expenditures, parking and toll expenses but not mileage reimbursement. Original receipts must be provided for all expenses.

Employees are responsible for all fines related to parking or moving violations issued while traveling on County business.

Personal Vehicles

Employees may use personal automobiles for non-local business travel within a 300-mile radius of Chicago.

Employees will be reimbursed at the IRS mileage rate, but in no event will the reimbursement exceed the cost of lowest available round trip coach airfare.

Mileage reimbursement includes full reimbursement for the cost of gas and general maintenance.

Parking and toll expenses will be reimbursed separately with original receipts.

Employee must carry liability and property damage insurance for business use of his or her vehicle and submit a copy of these insurance policies to the appropriate personnel within his or her department. The employee's personal insurance is primary in the event of an accident.

Employees are responsible for all fines related to parking or moving violations issued while traveling on County business. Absolutely no exceptions will be made.

Note: Travelers are advised to refer to the County Vehicle Policy Ordinance for other rules and regulations regarding the use of county-owned and personal vehicles.

Car Rental

Car rental will not be approved for travel within the Chicago Metropolitan Area. County Shared Fleet or ZipCar programs should be reserved for such travel.

Car rental is a reimbursable expense only when transportation by common carrier cannot be utilized or is impractical.

Car rental will be reimbursed at the compact car rate unless the need for a larger car can be justified.

Daily rental rates, taxes, surcharges, gas and car rental insurance are all considered reimbursable items.

Only one car rental will be allowed per trip. This includes trips with multiple travelers unless previously authorized by the traveler's bureau chief (or equivalent).

Employees are responsible for all fines related to parking or moving violations issued while traveling on County business. Absolutely no exceptions will be made.

Original receipts are required for reimbursement.

Common Carrier (Air, Train, Bus)

Reservations and ticket purchases should be made as far in advance as possible to take advantage of any available discount fares and/or government rates.

Tickets are to be booked at the most economical fare available that meets the requirement of the traveler's agenda.

No traveler may select tickets on a specific carrier or airport for any reason while on County business, unless it is the most economical fare.

First-class and business upgrades are prohibited.

Electronic tickets are the only acceptable delivery method of tickets unless this option is not available.

Any charges incurred as a result of changes to an original airline reservation made prior to or during travel are subject to the prior written approval of the traveler's bureau chief (or equivalent).

Original receipts are required for reimbursement.

Ground Transportation (Taxis, Public Transportation, Livery Service)

Transportation to and from the airport is included in the ground transportation allowance in the reimbursement rate.

Shuttle service or public transportation is encouraged.

Limousine or livery service charges to and from airports and railroad stations are reimbursable, where such costs do not exceed the comparable taxi fare.

Uber, Lyft and other similar transportation services are permitted options, and may include

surcharges and fees. Surcharges and fees may be reimbursable if the total cost is comparable to other ground transportation options, and must be clearly documented to substantiate reimbursement.

Livery service may be used if the cost is less than the cost of a taxi service or other means of transportation.

Gratuity for ground transportation is the sole responsibility of the traveler.

Original receipts are required for reimbursement.

Lodging

Government rates should be requested.

Lodging costs will be reimbursed at the lesser of actual costs or the current federal travel allowance published by the General Services Administration Lodging Rates at: http://www.gsa.gov/portal/category/104711.

Hotel lodging within the Chicago metropolitan area is not a reimbursable expense.

Lodging costs greater than the published GSA rate require the prior written approval of the bureau chief (or equivalent).

All personal expenses must be paid for separately or deducted from the lodging bill before it is submitted for reimbursement.

Original receipts are required for reimbursement.

Meals and Incidental Expenses

Employees shall receive the lesser of actual costs or the allowance for meals and incidental expenses allowance published by the General Services Administration at http://www.gsa.gov/portal/content/101518.

Employees will only receive 75% of the lesser of actual costs or applicable meals and incidentals expenses rate for the first and last day of the trip and 100% for the other days.

There will be no reimbursement for meals and incidental expenses beyond the above rates.

The value of any meal(s) included in registration fees shall, be deducted from the employee's reimbursement.

Original receipts are required for reimbursement.

Conference Registration Fees

Every effort should be made to take advantage of early registration or group rate discounts.

Additional Reimbursable Expenses

Business-Related Expenses. Business-related expenses incurred while on County travel may be reimbursed at the discretion of the department head. Original receipts must be provided for reimbursement. Examples of acceptable reimbursable business expenses are:

i. Internet connections
ii. Sending or receiving faxes
iii. Photocopying
iv. Express mail services

Laundry. Employees traveling on County business for three or more consecutive days are entitled to reimbursement for laundry expenses up to a maximum of $10 per three-day period beginning with the fourth day. Original receipts are required for reimbursement.

Telephone Calls.

i. If the employee has a County-issued cell phone, that phone should be used for all business calls (unless there is no service).
ii. When possible, employees should avoid surcharges by using cell.
iii. For approved international travel, the traveler should contact the Bureau of Technology so that the traveler's calling plan may be temporarily changed to the appropriate calling plan. Business calls may be reimbursed at the discretion of the department head.
iv. Original receipts are required for reimbursement for business calls made on a personal cell or other phone.

Incidentals. Reimbursement for other incidental expenses will be approved at the discretion of the department head. Original receipts are required to reimbursement traveler for incidentals not listed above.

Non-Reimbursable Non-Local Travel Expenses

Non-reimbursable expenses include, but are not limited to, the following:

i. Additional hotel charges for upgrades, special "club" floors, late checkout or early check-in;
ii. Airline convenience fees (e.g., early check-in, seat upgrades, TSA pre-check)
iii. Alcoholic beverages;
iv. Amenities such as movies, health clubs, or in-room bars;
v. Cancellation charges (unless justified);

vi. Child care, baby-sitting, house sitting, or pet sitting costs;

vii. Cost differential on premium and luxury car rentals or first or business class airline tickets;

viii. Entertainment, including, but not limited to, exercise facilities, movie rental, videos, games, or other non-business related items;

ix. Excess baggage fees;

x. Flight Insurance or other supplemental travel insurance, unless required for international travel and approved by the department head;

xi. Gasoline costs if mileage reimbursement is used;

xii. Laundry for trips less than three or more consecutive days;

xiii. Local transportation charges incurred for personal reasons;

xiv. Lost or stolen cash or personal property;

xv. Magazines, books, or other reading materials;

xvi. Meals included in the cost of registration fees and airfare;

xvii. Modifications to travel arrangements;

xviii. Personal items (e.g., toiletries, luggage, clothing, medications, etc.);

xix. Personal portions of a trip combined with business travel;

xx. Personal telephone calls;

xxi. Repairs, towing service, etc. for personal vehicle;

xxii. Snacks, beverages, etc. outside of a meal;

xxiii. Spouse, family member(s), and guest travel costs; and

xxiv. Traffic citations, parking tickets, and other fines.

Reimbursement for Non-Local Travel and Business Expenses

Non-Local Travel Reimbursement Voucher

All claims for reimbursement of non-local travel expenses shall be submitted on the Travel Reimbursement Voucher ("TRV") and shall be itemized in accordance with these regulations. A sample TRV is attached at Appendix 3.

The TRV shall show the purpose of travel, the dates of travel, the points of departure and destination, mode of transportation, and the cost of the transportation secured or mileage allowance if automobile is used.

The TRV shall be supported by receipts in all instances for railroad and airplane transportation, for lodging, meals and incidental expense items, and all other items. With respect to travel to conferences, the conference program must be attached to the voucher.

The TRV shall be prepared and signed by the employee who has incurred the expenses.

The employee submitting the TRV is personally responsible for accuracy and propriety. Falsification of a TRV is considered a major cause infraction subject to disciplinary action up to and including discharge.

Any TRV that does not include a copy of the traveler's approved TRF shall not be processed for payment.

Employees shall be reimbursed for airline, hotel, and conference registrations costs after expense is incurred. Airline and conference costs are reimbursable prior to flying or attending the conference as long as the employee shows those costs were paid. Lodging costs will be reimbursed after payment by the employee is made to the hotel.

Employees shall be reimbursed t for approved travel related expenses once the trip is complete and the voucher is submitted.

The County will reimburse employees for travel related costs incurred by the employee on their paycheck following the submittal and approval of the TRV.

Approval and Submission of Transportation Expense Vouchers

In order to be eligible for reimbursement, the employee must submit the TRV by no later than the 20th day of the month following the month in which the travel expense was incurred, unless the failure to submit a voucher within the 20 day period is due to extraordinary circumstances.

The TRV shall then be reviewed and approved by the traveler's department head (or a designated representative), whose signature will represent his or her representation that he or she has reviewed the voucher and that the information contained on the voucher is complete and accurate.

Upon approving a TRV, a department head (or a designated representative) and supervisors are certifying:

v. Appropriateness of the expenditure and reasonableness of the amount;
vi. Availability of funds;
vii. Compliance with applicable reimbursement policies; and
viii. Completeness and accuracy of documentation.

A department must submit the TRV to the Comptroller's Office by no later than the 60th day after the end of the month in which the travel expense was incurred. An employee who submits a voucher within the 20-day submission period will not be denied reimbursement for failure of his/her department to timely submit the voucher to the Comptroller's office. A copy of the

TRV shall be retained by the department.

Any TRV not prepared in accordance with these regulations, including the proper signatures, will be returned to the originator for corrections.

A request for reimbursement of an expense that does not comply with these guidelines may be denied and treated as a personal expense to the traveler and shall be deducted from the reimbursement due the traveler.

APPENDIX 1

Travel Expense Voucher

APPENDIX 2

Travel Request Form

APPENDIX 3

Travel Reimbursement Voucher

EXHIBIT 9

Electronic Payables Program

OFFICE OF THE COOK COUNTY COMPTROLLER
ELECTRONIC PAYABLES PROGRAM ("E-PAYABLES")

FOR INFORMATION PURPOSES ONLY

This document describes the Office of the Cook County Comptroller's Electronic Payables Program ("E-Payables").
If you wish to participate in E-Payables, please contact the Cook County Comptroller's Office, Accounts Payable, 118 N. Clark Street, Room 500, Chicago, IL 60602.

DESCRIPTION
To increase payment efficiency and timeliness, we have introduced E-Payables program, a new payment initiative to our accounts payable model. This new initiative utilizes a Visa purchasing card and operates through the Visa payment network. This is County's preferred method of payment and your participation in our Visa purchasing card program will provide mutual benefits both to your organization and ours.

As a vendor, you may experience the following benefits by accepting this new payment type:
- Improved cash flow and accelerated payment
- Reduced paperwork and a more streamlined accounts receivable process
- Elimination of stop payment issues
- Reduced payment delays
- Reduced costs for handling paper checks
- Payments settled directly to your merchant account

There are two options within this initiative:

3. Dedicated Credit Card – "PULL" Settlement
For this option, you will have an assigned dedicated credit card to be used for each payment. You will provide a point of contact within your organization who will keep credit card information on file. Each time a payment is made, you will receive a remittance advice via email detailing the invoices being paid. Each time you receive a remittance advice, you will process payments in the same manner you process credit card transactions today.

4. One-Time Use Credit Card – "SUGA" Settlement
For this option, you will provide a point of contact within your organization who will receive an email notification authorizing you to process payments in the same manner you process credit card transactions today. Each time payment is made, you will receive a remittance advice, via email, detailing the invoices being paid. Also, each time you receive a remittance advice, you will receive a new, unique credit card number. This option is ideal for suppliers who are unable to keep credit card account information on file.

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EXHIBIT 10

Federal Bureau of Investigation Criminal Justice Information Services Security Addendum

FEDERAL BUREAU OF INVESTIGATION

CRIMINAL JUSTICE INFORMATION SERVICES

SECURITY ADDENDUM

CERTIFICATION

I hereby certify that I am familiar with the contents of (1) the Security Addendum, including its legal authority and purpose; (2) the NCIC Operating Manual; (3) the CJIS Security Policy; and (4) Title 28, Code of Federal Regulations, Part 20, and agree to be bound by their provisions.

I recognize that criminal history record information and related data, by its very nature, is sensitive and has potential for great harm if misused. I acknowledge that access to criminal history record information and related data is therefore limited to the purpose(s) for which a government agency has entered into the contract incorporating this Security Addendum. I understand that misuse of the system by, among other things: accessing it without authorization; accessing it by exceeding authorization; accessing it for an improper purpose; using, disseminating or re-disseminating information received as a result of this contract for a purpose other than that envisioned by the contract, may subject me to administrative and criminal penalties. I understand that accessing the system for an appropriate purpose and then using, disseminating or re-disseminating the information received for another purpose other than execution of the contract also constitutes misuse. I further understand that the occurrence of misuse does not depend upon whether or not I receive additional compensation for such authorized activity. Such exposure for misuse includes, but is not limited to, suspension or loss of employment and prosecution for state and federal crimes.

Robert Lenartowicz DocuSigned by: Robert Lenartowicz B5C9F692FB774FE... 3/22/2022 | 1:28 PM CDT

Printed Name/Signature of Contractor Employee Date

Tim Hill DocuSigned by: Tim Hill 1CAE9C6350F54E6... 3/22/2022 | 3:33 PM CDT

Printed Name/Signature of Contractor Representative Date

Sentinel Technologies, Inc. CFO

Organization and Title of Contractor Representative

EXHIBIT 11

Economic Disclosure Statement

COOK COUNTY
ECONOMIC DISCLOSURE STATEMENT
AND EXECUTION DOCUMENT
INDEX

Section	Description	Pages
1	Instructions for Completion of EDS	EDS i - ii
2	Certifications	EDS 1– 2
3	Economic and Other Disclosures, Affidavit of Child Support Obligations, Disclosure of Ownership Interest and Familial Relationship Disclosure Form	EDS 3 – 12
4	Cook County Affidavit for Wage Theft Ordinance	EDS 13-14
5	Contract and EDS Execution Page	EDS 15
6	Cook County Signature Page	EDS 16

SECTION 1
INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every Proposer responding to a Request for Proposals, and every Respondent responding to a Request for Qualifications, and others as required by the Chief Procurement Officer. The execution of the EDS shall serve as the execution of a contract awarded by the County. The Chief Procurement Officer reserves the right to request that the Bidder or Proposer, or Respondent provide an updated EDS on an annual basis.

Definitions. Terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the Instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, as applicable.

Affiliate means a person that directly or indirectly through one or more intermediaries, Controls is Controlled by, or is under common Control with the Person specified.

Applicant means a person who executes this EDS.

Bidder means any person who submits a Bid.

Code means the Code of Ordinances, Cook County, Illinois available on municode.com.

Contract shall include any written document to make Procurements by or on behalf of Cook County.

Contractor or *Contracting Party* means a person that enters into a Contract with the County.

Control means the unfettered authority to directly or indirectly manage governance, administration, work, and all other aspects of a business.

EDS means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.

Joint Venture means an association of two or more Persons proposing to perform a for-profit business enterprise. Joint Ventures must have an agreement in writing specifying the terms and conditions of the relationship between the partners and their relationship and respective responsibility for the Contract

Lobby or lobbying means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.

Lobbyist means any person who lobbies.

Person or *Persons* means any individual, corporation, partnership, Joint Venture, trust, association, Limited Liability Company, sole proprietorship or other legal entity.

Prohibited Acts means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

Proposal means a response to an RFP.

Proposer means a person submitting a Proposal.

Response means response to an RFQ.

Respondent means a person responding to an RFQ.

RFP means a Request for Proposals issued pursuant to this Procurement Code.

RFQ means a Request for Qualifications issued to obtain the qualifications of interested parties.

INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

Section 1: Instructions. Section 1 sets forth the instructions for completing and executing this EDS.

Section 2: Certifications. Section 2 sets forth certifications that are required for contracting parties under the Code and other applicable laws. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

Section 3: Economic and Other Disclosures Statement. Section 3 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Applicant to the warranties, representations, agreements and acknowledgements contained therein.

Required Updates. The Applicant is required to keep all information provided in this EDS current and accurate. In the event of any change in the information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Applicant shall supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is required.

Additional Information. The County's Governmental Ethics and Campaign Financing Ordinances impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions, and the Applicant is expected to comply fully with these ordinances. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit the web-site at cookcountyil.gov/ethics-board-of.

Authorized Signers of Contract and EDS Execution Page. If the Applicant is a corporation, the President and Secretary must execute the EDS. In the event that this EDS is executed by someone other than the President, attach hereto a certified copy of that section of the Corporate By-Laws or other authorization by the Corporation, satisfactory to the County that permits the person to execute EDS for said corporation. If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a partnership or joint venture, all partners or joint venturers must execute the EDS, unless one partner or joint venture has been authorized to sign for the partnership or joint venture, in which case, the partnership agreement, resolution or evidence of such authority satisfactory to the Office of the Chief Procurement Officer must be submitted with this Signature Page.

If the Applicant is a member-managed LLC all members must execute the EDS, unless otherwise provided in the operating agreement, resolution or other corporate documents. If the Applicant is a manager-managed LLC, the manager(s) must execute the EDS. The Applicant must attach either a certified copy of the operating agreement, resolution or other authorization, satisfactory to the County, demonstrating such person has the authority to execute the EDS on behalf of the LLC. If the LLC is not registered in the State of Illinois, a copy of a current Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.

If the Applicant is a Sole Proprietorship, the sole proprietor must execute the EDS.

A "Partnership" "Joint Venture" or "Sole Proprietorship" operating under an Assumed Name must be registered with the Illinois county in which it is located, as provided in 805 ILCS 405 (2012), and documentation evidencing registration must be submitted with the EDS.

Effective October 1, 2016 all foreign corporations and LLCs must be registered with the Illinois Secretary of State's Office unless a statutory exemption applies to the applicant. Applicants who are exempt from registering must provide a written statement explaining why they are exempt from registering as a foreign entity with the Illinois Secretary of State's Office.

SECTION 2

CERTIFICATIONS

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE APPLICANT IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE APPLICANT THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE APPLICANT IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE APPLICANT SHALL BE SUBJECT TO TERMINATION.

A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

1) Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;

2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.;*

3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government;

4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, *et seq.;*

5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;

6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;

7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or

8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in sub-paragraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20% or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

***THE APPLICANT HEREBY CERTIFIES THAT*:** The Applicant has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Applicant has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Applicant would not violate the provisions of such Section or of the Code.

B. BID-RIGGING OR BID ROTATING

THE APPLICANT HEREBY CERTIFIES THAT: *In accordance with 720 ILCS 5/33 E-11, neither the Applicant nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.*

C. DRUG FREE WORKPLACE ACT

***THE APPLICANT HEREBY CERTIFIES THAT*:** The Applicant will provide a drug free workplace, as required by (30 ILCS 580/3).

D. DELINQUENCY IN PAYMENT OF TAXES

THE APPLICANT HEREBY CERTIFIES THAT*: The Applicant is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-171.*

E. HUMAN RIGHTS ORDINANCE

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 *et seq.*).

F. ILLINOIS HUMAN RIGHTS ACT

THE APPLICANT HEREBY CERTIFIES THAT: *It is in compliance with the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.*

G. INSPECTOR GENERAL (COOK COUNTY CODE, CHAPTER 34, SECTION 34-174 and Section 34-250)

The Applicant has not willfully failed to cooperate in an investigation by the Cook County Independent Inspector General or to report to the Independent Inspector General any and all information concerning conduct which they know to involve corruption, or other criminal activity, by another county employee or official, which concerns his or her office of employment or County related transaction.

The Applicant has reported directly and without any undue delay any suspected or known fraudulent activity in the County's Procurement process to the Office of the Cook County Inspector General.

H. CAMPAIGN CONTRIBUTIONS (COOK COUNTY CODE, CHAPTER 2, SECTION 2-585)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning campaign contributions, which is codified at Chapter 2, Division 2, Subdivision II, Section 585, and can be read in its entirety at www.municode.com.

I. GIFT BAN, (COOK COUNTY CODE, CHAPTER 2, SECTION 2-574)

THE APPLICANT CERTIFIES THAT: It has read and shall comply with the Cook County's Ordinance concerning receiving and soliciting gifts and favors, which is codified at Chapter 2, Division 2, Subdivision II, Section 574, and can be read in its entirety at www.municode.com.

J. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-160;

Unless expressly waived by the Cook County Board of Commissioners, the Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is annually by the Chief Financial Officer of the County, and shall be posted on the Chief Procurement Officer's website.

The term "Contract" as used in Section 4, I, of this EDS, specifically excludes contracts with the following:

1) Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for -profit law);

2) Community Development Block Grants;

3) Cook County Works Department;

4) Sheriff's Work Alternative Program; and

5) Department of Correction inmates.

SECTION 3

REQUIRED DISCLOSURES

1. DISCLOSURE OF LOBBYIST CONTACTS

List all persons that have made lobbying contacts on your behalf with respect to this contract:

Name	Address
None.	

2. LOCAL BUSINESS PREFERENCE STATEMENT (CODE, CHAPTER 34, SECTION 34-230)

Local business means a Person, including a foreign corporation authorized to transact business in Illinois, having a bona fide establishment located within the County at which it is transacting business on the date when a Bid is submitted to the County, and which employs the majority of its regular, full-time work force within the County. A Joint Venture shall constitute a Local Business if one or more Persons that qualify as a "Local Business" hold interests totaling over 50 percent in the Joint Venture, even if the Joint Venture does not, at the time of the Bid submittal, have such a bona fide establishment within the County.

a) Is Applicant a "Local Business" as defined above?

Yes: ☐ No: ☑

b) If yes, list business addresses within Cook County:

c) Does Applicant employ the majority of its regular full-time workforce within Cook County?

Yes: ☐ No: ☑

3. THE CHILD SUPPORT ENFORCEMENT ORDINANCE (CODE, CHAPTER 34, SECTION 34-172)

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-5) and complete the Affidavit, based on the instructions in the Affidavit.

4. REAL ESTATE OWNERSHIP DISCLOSURES.

The Applicant must indicate by checking the appropriate provision below and providing all required information that either:

a) The following is a complete list of all real estate owned by the Applicant in Cook County:

PERMANENT INDEX NUMBER(S): _____

_____

_____

(ATTACH SHEET IF NECESSARY TO LIST ADDITIONAL INDEX NUMBERS)

OR:

b) ☑ The Applicant owns no real estate in Cook County.

5. EXCEPTIONS TO CERTIFICATIONS OR DISCLOSURES.

If the Applicant is unable to certify to any of the Certifications or any other statements contained in this EDS and not explained elsewhere in this EDS, the Applicant must explain below:

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Applicant certified to all Certifications and other statements contained in this EDS.

CONTRACT #: 2003-18509

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 *et seq.*) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing. **County reserves the right to request additional information to verify veracity of information contained in this statement.**

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"*Applicant*" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Person" "Entity" or *"Legal Entity"* means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by :

1. An Applicant for County Action and

2. A Person that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under **Ownership Interest Declaration**.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the [✓] Applicant or [ ] Stock/Beneficial Interest Holder

This Statement is an: [✓] Original Statement or [ ] Amended Statement

Identifying Information:

Name Sentinel Technologies, Inc.

D/B/A: N/A FEIN # Only: 36-3199182

Street Address: 2550 Warrenville Road

City: Downers Grove State: Illinois Zip Code: 60515

Phone No.: 630-769-4300 Fax Number: 630-769-1399 Email: cvasquez@sentinel.com

Cook County Business Registration Number: _____
(Sole Proprietor, Joint Venture Partnership)

Corporate File Number (if applicable): _____

Form of Legal Entity:

[ ] Sole Proprietor [ ] Partnership [✓] Corporation [ ] Trustee of Land Trust

[ ] Business Trust [ ] Estate [ ] Association [ ] Joint Venture

[ ] Other (describe) _____

Ownership Interest Declaration:

1. List the name(s), address, and percent ownership of each Person having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

Name	Address	Percentage Interest in Applicant/Holder
Dennis & Mary Hoelzer Trust	2550 Warrenville Road, Downers Grove, IL 60515	28.4%
Timothy Hill	2550 Warrenville Road, Downers Grove, IL 60515	5.6%
Brian Osborne	2550 Warrenville Road, Downers Grove, IL 60515	5.6%
Sentinel ESOP	2900 N. 23rd St., Quincy, IL 62305	43.7%

2. If the interest of any Person listed in (1) above is held as an agent or agents, or a nominee or nominees, list the name and address of the principal on whose behalf the interest is held.

Name of Agent/Nominee	Name of Principal	Principal's Address

3. Is the Applicant constructively controlled by another person or Legal Entity? [☐] Yes [☑] No

If yes, state the name, address and percentage of beneficial interest of such person, and the relationship under which such control is being or may be exercised.

Name	Address	Percentage of Beneficial Interest	Relationship

Corporate Officers, Members and Partners Information:

For all corporations, list the names, addresses, and terms for all corporate officers. For all limited liability companies, list the names, addresses for all members. For all partnerships and joint ventures, list the names, addresses, for each partner or joint venture.

Name	Address	Title (specify title of Office, or whether manager or partner/joint venture)	Term of Office
Brian Osborne	2550 Warrenville Road, Downers Grove, IL 60515	Co-President/Chief Sales & Marketing	25+ Years
Timothy Hill	2550 Warrenville Road, Downers Grove, IL 60515	Co-President/CFO	25+ Years
Robert Lenartowicz	2550 Warrenville Road, Downers Grove, IL 60515	Co-President/COO	25+ Years

Declaration (check the applicable box):

☑ I state under oath that the Applicant has withheld no disclosure as to ownership interest in the Applicant nor reserved any information, data or plan as to the intended use or purpose for which the Applicant seeks County Board or other County Agency action.

☐ I state under oath that the Holder has withheld no disclosure as to ownership interest nor reserved any information required to be disclosed.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT SIGNATURE PAGE

Timothy Hill
Name of Authorized Applicant/Holder Representative (please print or type)

Co-President and CFO
Title

Signature

01/18/2022
Date

cvasquez@sentinel.com
E-mail address

630-769-4300
Phone Number

Subscribed to and sworn before me
this 18th day of Jan., 2022.

My commission expires:

x
Notary Public Signature

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

Notary Seal

COOK COUNTY BOARD OF ETHICS
69 W. WASHINGTON STREET, SUITE 3040
CHICAGO, ILLINOIS 60602
312/603-4304 Office 312/603-9988 Fax

FAMILIAL RELATIONSHIP DISCLOSURE PROVISION

Nepotism Disclosure Requirement:

Doing a significant amount of business with the County requires that you disclose to the Board of Ethics the existence of any familial relationships with any County employee or any person holding elective office in the State of Illinois, the County, or in any municipality within the County. The Ethics Ordinance defines a significant amount of business for the purpose of this disclosure requirement as more than $25,000 in aggregate County leases, contracts, purchases or sales in any calendar year.

If you are unsure of whether the business you do with the County or a County agency will cross this threshold, err on the side of caution by completing the attached familial disclosure form because, among other potential penalties, any person found guilty of failing to make a required disclosure or knowingly filing a false, misleading, or incomplete disclosure will be prohibited from doing any business with the County for a period of three years. The required disclosure should be filed with the Board of Ethics by January 1 of each calendar year in which you are doing business with the County and again with each bid/proposal/quotation to do business with Cook County. The Board of Ethics may assess a late filing fee of $100 per day after an initial 30-day grace period.

The person that is doing business with the County must disclose his or her familial relationships. If the person on the County lease or contract or purchasing from or selling to the County is a business entity, then the business entity must disclose the familial relationships of the individuals who are and, during the year prior to doing business with the County, were:

- its board of directors,
- its officers,
- its employees or independent contractors responsible for the general administration of the entity,
- its agents authorized to execute documents on behalf of the entity, and
- its employees who directly engage or engaged in doing work with the County on behalf of the entity.

Do not hesitate to contact the Board of Ethics at (312) 603-4304 for assistance in determining the scope of any required familial relationship disclosure.

Additional Definitions:

"*Familial relationship*" means a person who is a spouse, domestic partner or civil union partner of a County employee or State, County or municipal official, or any person who is related to such an employee or official, whether by blood, marriage or adoption, as a:

☐ Parent	☐ Grandparent	☐ Stepfather
☐ Child	☐ Grandchild	☐ Stepmother
☐ Brother	☐ Father-in-law	☐ Stepson
☐ Sister	☐ Mother-in-law	☐ Stepdaughter
☐ Aunt	☐ Son-in-law	☐ Stepbrother
☐ Uncle	☐ Daughter-in-law	☐ Stepsister
☐ Niece	☐ Brother-in-law	☐ Half-brother
☐ Nephew	☐ Sister-in-law	☐ Half-sister

COOK COUNTY BOARD OF ETHICS
FAMILIAL RELATIONSHIP DISCLOSURE FORM

A. PERSON DOING OR SEEKING TO DO BUSINESS WITH THE COUNTY

Name of Person Doing Business with the County: Sentinel Technologies, Inc.

Address of Person Doing Business with the County: 2550 Warrenville Road, Downers Grove, IL 60515

Phone number of Person Doing Business with the County: 630-769-4300

Email address of Person Doing Business with the County: cvasquez@sentinel.com

If Person Doing Business with the County is a Business Entity, provide the name, title and contact information for the individual completing this disclosure on behalf of the Person Doing Business with the County:
Jessica Rimkus, General Counsel

B. DESCRIPTION OF BUSINESS WITH THE COUNTY
Append additional pages as needed and for each County lease, contract, purchase or sale sought and/or obtained during the calendar year of this disclosure (or the proceeding calendar year if disclosure is made on January 1), identify:

The lease number, contract number, purchase order number, request for proposal number and/or request for qualification number associated with the business you are doing or seeking to do with the County: 2003-18509

The aggregate dollar value of the business you are doing or seeking to do with the County: $ 21,705,923

The name, title and contact information for the County official(s) or employee(s) involved in negotiating the business you are doing or seeking to do with the County:

Yaneth Lopez, Senior Contract Negotiator, Office of the Chief Procurement Officer (OCPO)

The name, title and contact information for the County official(s) or employee(s) involved in managing the business you are doing or seeking to do with the County: Doug Coupland, Director of Telecommunications

C. DISCLOSURE OF FAMILIAL RELATIONSHIPS WITH COUNTY EMPLOYEES OR STATE, COUNTY OR MUNICIPAL ELECTED OFFICIALS

Check the box that applies and provide related information where needed

☐ The Person Doing Business with the County **is an individual** and there is **no familial relationship** between this individual and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.

☑ The Person Doing Business with the County **is a business entity** and there is **no familial relationship** between any member of this business entity's board of directors, officers, persons responsible for general administration of the business entity, agents authorized to execute documents on behalf of the business entity or employees directly engaged in contractual work with the County on behalf of the business entity, and any Cook County employee or any person holding elective office in the State of Illinois, Cook County, or any municipality within Cook County.

COOK COUNTY BOARD OF ETHICS
FAMILIAL RELATIONSHIP DISCLOSURE FORM

☐ The Person Doing Business with the County **is an individual** and **there is a familial relationship** between this individual and at least one Cook County employee and/or a person or persons holding elective office in the State of Illinois, Cook County, and/or any municipality within Cook County. **The familial relationships are as follows:**

Name of Individual Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

If more space is needed, attach an additional sheet following the above format.

☐ The Person Doing Business with the County **is a business entity** and **there is a familial relationship** between at least one member of this business entity's board of directors, officers, persons responsible for general administration of the business entity, agents authorized to execute documents on behalf of the business entity and/or employees directly engaged in contractual work with the County on behalf of the business entity, on the one hand, and at least one Cook County employee and/or a person holding elective office in the State of Illinois, Cook County, and/or any municipality within Cook County, on the other. **The familial relationships are as follows:**

Name of Member of Board of Director for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

Name of Officer for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

Name of Person Responsible for the General Administration of the Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

Name of Agent Authorized to Execute Documents for Business Entity Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

Name of Employee of Business Entity Directly Engaged in Doing Business with the County	Name of Related County Employee or State, County or Municipal Elected Official	Title and Position of Related County Employee or State, County or Municipal Elected Official	Nature of Familial Relationship*
N/A	N/A	N/A	N/A

If more space is needed, attach an additional sheet following the above format.

VERIFICATION: To the best of my knowledge, the information I have provided on this disclosure form is accurate and complete. I acknowledge that an inaccurate or incomplete disclosure is punishable by law, including but not limited to fines and debarment.

Signature of Recipient

01/18/2022
Date

SUBMIT COMPLETED FORM TO: Cook County Board of Ethics
69 West Washington Street, Suite 3040, Chicago, Illinois 60602
Office (312) 603-4304 – Fax (312) 603-9988
CookCounty.Ethics@cookcountyil.gov

* Spouse, domestic partner, civil union partner or parent, child, sibling, aunt, uncle, niece, nephew, grandparent or grandchild by blood, marriage (*i.e.* in laws and step relations) or adoption.

SECTION 4

COOK COUNTY AFFIDAVIT FOR WAGE THEFT ORDINANCE

Effective May 1, 2015, every Person, ***including Substantial Owners***, seeking a Contract with Cook County must comply with the Cook County Wage Theft Ordinance set forth in Chapter 34, Article IV, Section 179. Any Person/Substantial Owner, who fails to comply with Cook County Wage Theft Ordinance, may request that the Chief Procurement Officer grant a reduction or waiver in accordance with Section 34-179(d).

"*Contract*" means any written document to make Procurements by or on behalf of Cook County.

"*Person*" means any individual, corporation, partnership, Joint Venture, trust, association, limited liability company, sole proprietorship or other legal entity.

"*Procurement*" means obtaining supplies, equipment, goods, or services of any kind.

"*Substantial Owner*" means any person or persons who own or hold a twenty-five percent (25%) or more percentage of interest in any business entity seeking a County Privilege, including those shareholders, general or limited partners, beneficiaries and principals; except where a business entity is an individual or sole proprietorship, Substantial Owner means that individual or sole proprietor.

All Persons/Substantial Owners are required to complete this affidavit and comply with the Cook County Wage Theft Ordinance before any Contract is awarded. Signature of this form constitutes a certification the information provided below is correct and complete, and that the individual(s) signing this form has/have personal knowledge of such information. **County reserves the right to request additional information to verify veracity of information contained in this Affidavit.**

I. Contract Information:

Contract Number: 2003-18509

County Using Agency (requesting Procurement): Cook County Bureau of Technology

II. Person/Substantial Owner Information:

Person (Corporate Entity Name): Sentinel Technologies, Inc.

Substantial Owner Complete Name: No person qualified as substantial owner

FEIN# 36-2199182

Date of Birth: _____ E-mail address: cvasquez@sentinel.com

Street Address: 2550 Warrenville Road

City: Downers Grove State: Illinois Zip: 60515

[redacted]

III. Compliance with Wage Laws:

Within the past five years has the Person/Substantial Owner, in any judicial or administrative proceeding, been convicted of, entered a plea, made an admission of guilt or liability, or had an administrative finding made for committing a repeated or willful violation of any of the following laws:

No	*Illinois Wage Payment and Collection Act, 820 ILCS 115/1 et seq.,*	***YES or NO***
No	*Illinois Minimum Wage Act, 820 ILCS 105/1 et seq.,*	***YES or NO***
No	*Illinois Worker Adjustment and Retraining Notification Act, 820 ILCS 65/1 et seq.,*	***YES or NO***
No	*Employee Classification Act, 820 ILCS 185/1 et seq.,*	**YES or NO**
No	*Fair Labor Standards Act of 1938, 29 U.S.C. 201, et seq.,*	***YES or NO***
No	*Any comparable state statute or regulation of any state, which governs the payment of wages*	***YES or NO***

If the Person/Substantial Owner answered **"Yes"** to any of the questions above, it is ineligible to enter into a Contract with Cook County, but can request a reduction or waiver under **Section IV.**

IV. Request for Waiver or Reduction

If Person/Substantial Owner answered **"Yes"** to any of the questions above, it may request a reduction or waiver in accordance with Section 34-179(d), provided that the request for reduction of waiver is made on the basis of one or more of the following actions that have taken place:

No — There has been a bona fide change in ownership or Control of the ineligible Person or Substantial Owner. YES or NO

No — Disciplinary action has been taken against the individual(s) responsible for the acts giving rise to the violation. YES or NO

No — Remedial action has been taken to prevent a recurrence of the acts giving rise to the disqualification or default. YES or NO

No — Other factors that the Person or Substantial Owner believe are relevant. YES or NO

The Person/Substantial Owner must submit documentation to support the basis of its request for a reduction or waiver. The Chief Procurement Officer reserves the right to make additional inquiries and request additional documentation.

V. Affirmation

The Person/Substantial Owner affirms that all statements contained in the Affidavit are true, accurate and complete.

Signature: _____ Date: 01/18/2022

Name of Person signing (Print): Timothy Hill Title: Co-President / CFO

Subscribed and sworn to before me this 18th day of January, 20 22

x _____

Notary Public Signature

Notary Seal

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

Note: The above information is subject to verification prior to the award of the Contract.

CONTRACT #: 2003-18509

SECTION 5

CONTRACT AND EDS EXECUTION PAGE

The Applicant hereby certifies and warrants that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Applicant is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Applicant with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Applicant in this EDS are true, complete and correct. The Applicant agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

Execution by Corporation

Sentinel Technologies, Inc.
Corporation's Name

Timothy Hill /
President's Printed Name and Signature

630-769-4300
Telephone

cvasquez@sentinel.com
Email

Secretary Signature

01/18/2022
Date

Execution by LLC

LLC Name

*Member/Manager Printed Name and Signature

Date

Telephone and Email

Execution by Partnership/Joint Venture

Partnership/Joint Venture Name

*Partner/Joint Venturer Printed Name and Signature

Date

Telephone and Email

Execution by Sole Proprietorship

Printed Name Signature

Assumed Name (if applicable)

Date

Telephone and Email

Subscribed and sworn to before me this
18th day of Jan., 20 22.

My commission expires:

Notary Public Signature

Notary Seal

OFFICIAL SEAL
NOELLE J ZON
NOTARY PUBLIC, STATE OF ILLINOIS
DU PAGE COUNTY
MY COMMISSION EXPIRES 05/30/2023

*If the operating agreement, partnership agreement or governing documents requiring execution by multiple members, managers, partners, or joint venturers, please complete and execute additional Contract and EDS Execution Pages.

COOK COUNTY SIGNATURE PAGE

ON BEHALF OF THE COUNTY OF COOK, A BODY POLITIC AND CORPORATE OF THE STATE OF ILLINOIS, THIS CONTRACT IS HEREBY EXECUTED BY:

Raffi Sarrafian Digitally signed by Raffi Sarrafian Date: 2022.03.31 11:30:02 -05'00'

COOK COUNTY CHIEF PROCUREMENT OFFICER

DATED AT CHICAGO, ILLINOIS THIS_____DAY OF_____, 20_____

APPROVED AS TO FORM:

Kathleen J. McKee Digitally signed by Kathleen J. McKee Date: 2022.03.25 12:19:04 -05'00'

ASSISTANT STATES ATTORNEY
(Required on contracts over $1,000,000)

CONTRACT TERM & AMOUNT

2003-18509
CONTRACT #

April 01, 2022 through March 31, 2027 with Two (2), One-year renewal options
ORIGINAL CONTRACT TERM — RENEWAL OPTIONS (If Applicable)

$21,705,923.00
CONTRACT AMOUNT

March 17, 2022
COOK COUNTY BOARD APPROVAL DATE (If Applicable)

APPROVED BY THE BOARD OF COOK COUNTY COMMISSIONERS

MAR 17 2022

COM_____