

Village of Homewood, IL

Request for Proposals for Network Infrastructure Upgrades

10/28/2024

Submitted to:

Village of Homewood, IL
ATTN: Richard Wachowski
2020 Chestnut Road
Homewood, Illinois 60430

Electronic copies to: rwachowski@homewoodil.gov

SCIENTEL CONTACT:

Glenn Luckman



VP of Sales

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1. Cover Letter / Proposal Summary

Cover Letter: *identifying the consultant, their place of business, name, and telephone number of the person to contact regarding the subject RFP. The Cover Letter shall be authored and signed by an individual, partner, or designated representative of the contractor that is sanctioned to enter into contracts. The Cover Letter should be formal and intelligible yet clearly demonstrate the vendor's candidacy for this request.*

Scientel Solutions LLC (Scientel) prides itself in being The Universal Integrator - for all types of advanced technology solutions both locally and abroad. We are headquartered in Aurora, IL. For more than 30 years, Scientel has been designing, installing, supporting, and operating network and security systems. We do this through longstanding partnerships with the world's leading technology companies. For this proposal, Scientel has partnered with industry leader, Fortinet. Scientel is pleased to have the opportunity to respond to the Village of Homewood, IL (Homewood) Request for Proposals for Network Infrastructure Upgrades (Software-Defined Wide Area Network (SDWAN)).

Scientel is proposing to provide, install & configure 201G Fortinet FortiGate Firewall(s) at Village Hall and implement a new Fortinet SD-WAN Solution for Homewood to its ISP Providers. This proposal aims to significantly enhance Homewood's network's performance, security, cost-efficiency, and management. Our proposal would provide Homewood with the following benefits:

1. Improve Network Performance and Reliability

- **Intelligent Traffic Routing:** Fortinet SD-WAN uses application-aware routing to ensure that critical applications receive the optimal path based on real-time network conditions such as latency, jitter, and packet loss. This improves overall network performance by ensuring that traffic is dynamically routed through the best available links.
- **Redundant Connectivity:** In the event of a link failure, traffic can be automatically rerouted to ensure continuous connectivity and reliability.

2. Enhance Security Across All Network Locations

- **Integrated Security Services:** Fortinet SD-WAN includes built-in security features such as NGFW (Next-Generation Firewall), IPS (Intrusion Prevention System), and web filtering. These features ensure that all traffic, whether it's traveling between data centers or from remote locations, is secured against potential threats.
- **Advanced Threat Detection and Response:** FortiGate with local storage onboard enhances security by providing detailed logs and analytics for all network activity. It allows for advanced threat detection, incident response, and compliance reporting, ensuring that all locations are monitored for suspicious activities.

3. Reduce Operational Costs Through Optimized WAN Usage

- **WAN Optimization:** Fortinet SD-WAN optimizes the use of WAN links by aggregating bandwidth and using lower-cost connections where possible. This reduces the dependency on expensive MPLS circuits, leading to significant cost savings.
- **Efficient Bandwidth Management:** The solution intelligently allocates bandwidth to prioritize critical applications, ensuring that resources are used efficiently. This prevents unnecessary over-provisioning of bandwidth, further reducing operational costs.

- Consolidated Network Functions: By deploying Fortinet SD-WAN with integrated security and networking functions, you reduce the need for multiple standalone devices at each location. This consolidation lowers hardware costs, simplifies management, and reduces maintenance expenses.

Scientel's offers will remain valid for a period of not less than 30 days from the closing date of this solicitation on October 28, 2024.

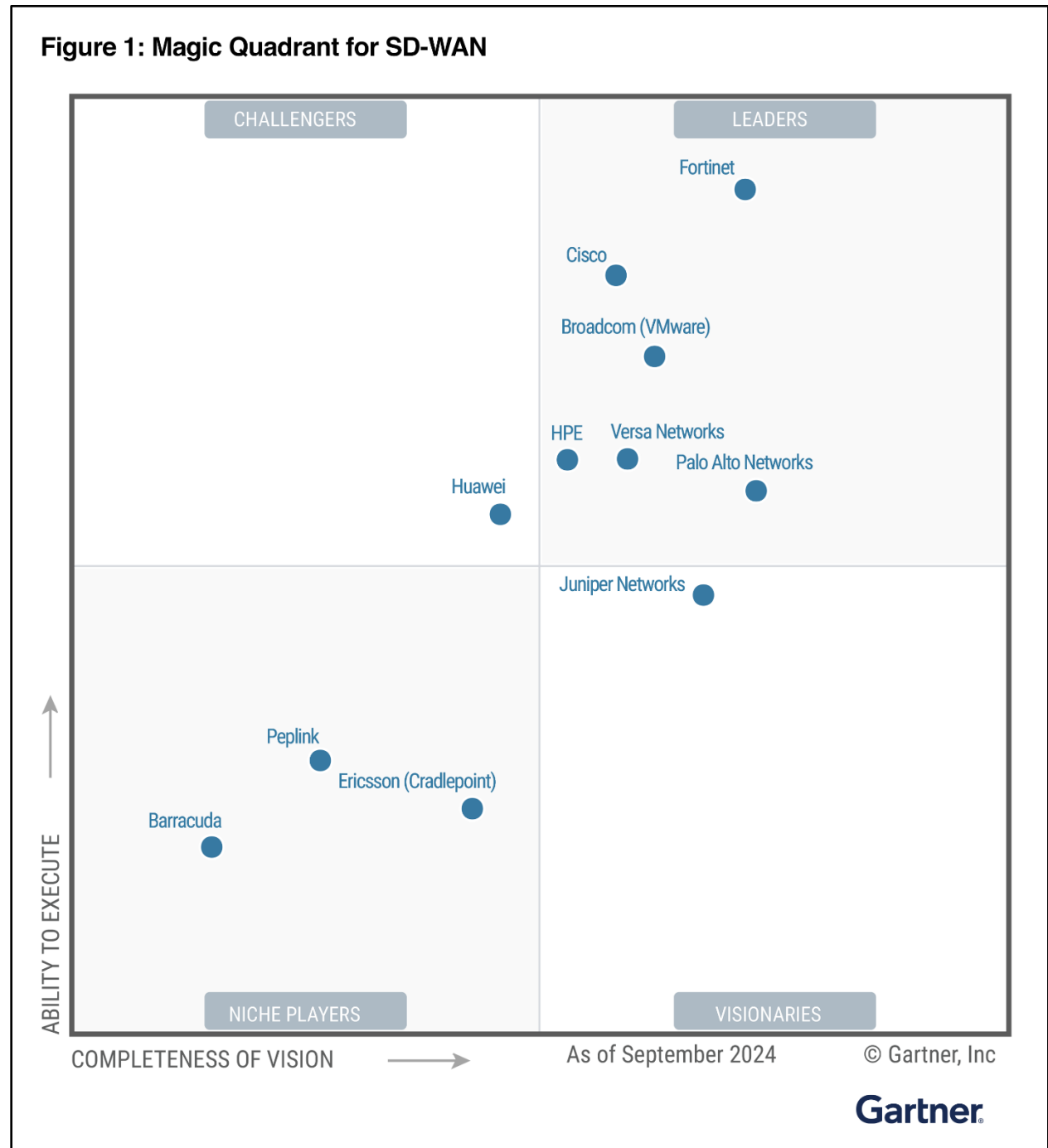
We thank you for the opportunity to provide Homewood with "best in class" solutions. Our goal is to help you achieve the best results for communications, safety and security in your industry. Please direct any questions, concerns or further communications to Glenn Luckman, gluckman@scientelsolutions.com, 312-877-4280.

Sincerely,
Glenn Luckman

Glenn Luckman – Vice President of Sales

A. Why Fortinet's FortiGates & SDWAN?

Scientel has been a top tier partner of Fortinet's for more than 5 years. We've successfully implemented Fortinet FortiGate Firewalls and SDWAN solutions for multiple Illinois municipalities over the last 5 years. We recognize the technical advantages, long term vision, and cost effectiveness of Fortinet's solutions. Please see Gartner's Magic Quadrant of SDWAN for 2024.



Homewood's Required Features:

- *High Availability*
- *FIPS 140-2 Compliant*
- *Intrusion Detection and Prevention*
- *Botnet Prevention*
- *Command & Control Prevention*
- *Deep Packet Inspection*
- *Content Filtering (quota time features optional but preferred)*
- *Application awareness and quality of service controls*
- *Multi-factor authentication for client-based, clientless, and/or site-to-site VPN connections*
- *Multiple VLAN support*

Scientel's proposal includes Fortinet Firewalls that meet or exceed all of the above Homewood stated requirements listed above. Datasheets on our proposed equipment can be found in Section 3a.

Fortinet stands out in the SD-WAN market for several reasons:

1. **Security Integration:** Fortinet combines SD-WAN capabilities with its next-generation firewall technology, offering a security-centric approach that protects against threats while optimizing network performance.
2. **Performance and Scalability:** Fortinet's appliances are engineered for high performance, ensuring low latency and high throughput. This is particularly important for organizations running bandwidth-intensive applications.
3. **Single-Pane Management:** The Fortinet Security Fabric provides a centralized management platform, allowing organizations to manage both security and network functions from one interface, simplifying operations and improving visibility.
4. **Cost-Effectiveness:** Many organizations find that Fortinet's integrated solutions can be more cost-effective than deploying separate SD-WAN and security solutions from different vendors.
5. **Flexible Deployment Options:** Fortinet offers various deployment models, including on-premises, cloud-based, and hybrid options, which can suit diverse business needs and preferences.
6. **Strong Customer Support and Community:** Fortinet has a reputation for robust customer support and an active user community, which can help organizations troubleshoot issues and share best practices.
7. **Consistent Innovation:** Fortinet continually invests in research and development, regularly updating its features and capabilities to address emerging threats and changing market demands.

Fortinet Secure SD-WAN Solution Overview

Fortinet's Secure Networking approach integrates best-of-breed Security and SD-WAN with Secure SD-WAN solution delivering SD-WAN and security in one robust, easy-to-deploy, and easy-to-manage solution. Realizing the need for a full security stack for local Internet breakout traffic at the WAN edge, Fortinet began pioneering the concept of Secure SD-WAN in 2016. It is the only solution on the market which leverages proprietary custom SD-WAN ASIC hardware acceleration to supply best-of-breed next-generation firewall (NGFW) security, SD-

WAN, advanced routing, and ZTNA application gateway capabilities - delivering a secure networking WAN edge transformation in a unified offering with unmatched scalability and performance.

The Fortinet Secure SD-WAN solution is chosen by over 20,000 global customers adding up to over 500,000 sites. Fortinet Secure SD-WAN has received multiple awards and "Recommended" ratings. In 2021, Fortinet received an AA rating from the CyberRatings SD-WAN test. Also, Fortinet is the only company listed in both Gartner Magic Quadrants for both Next Generation Firewall (Leader) and SD-WAN (Leader) for 2022 that uses the same platform, OS and management. To download both reports click [here](#). In addition, Fortinet is ranked #1 in 3 of 5 use cases (Security-Sensitive WAN, Remote Worker, WAN for Small Branches) in the 2022 Gartner Critical Capabilities Report, two years in a row.

Fortinet Secure SD-WAN uniquely leverages Fortinet's proprietary SD-WAN ASIC hardware acceleration to provide an over ten-fold performance increase compared to pure play SD-WAN solutions using generic off the shelf components. This abundance of processing power at the branch enables a distributed control -plane architecture where each branch FortiGate maintains autonomy at the branch edge. This eliminates performance bottlenecks and a single point of failure often associated with traditional central controller SD-WAN architectures. As such, Fortinet Secure SD-WAN is foundational to building a SD-Branch and SASE architecture.

Fortinet Secure SD-WAN's powerful dynamic WAN path controller allows for application aware, SLA enforced business intent steering policies. It has unmatched flexibility; opening the door for almost unlimited traffic engineering possibilities. It is also one of the only SD-WAN solutions on the market which can steer traffic based on user identity among other criteria. Fortinet Secure SD-WAN utilizes both first packet identification and deep packet inspection technologies with SSL inspection to provide accurate and granular application identification and resiliency for over 5,000 applications including UCaaS and SaaS such as O365 or Dropbox. Packet duplication and Forward Error Correction (FEC) increase Quality of Experience (QoE) for voice and video traffic over one or multiple overlay interfaces. Fortinet Secure SD-WAN allows custom SLA thresholds and health check targets to be applied to different SD-WAN policies for closer correlation between SLA measurements (latency, jitter, packet loss, MOS) and application performance. Multiple steering strategies allow for application pinning, automatic path selection based on real-time link health, prioritized path selection for active/backup scenarios and per-session and per-packet load balancing.

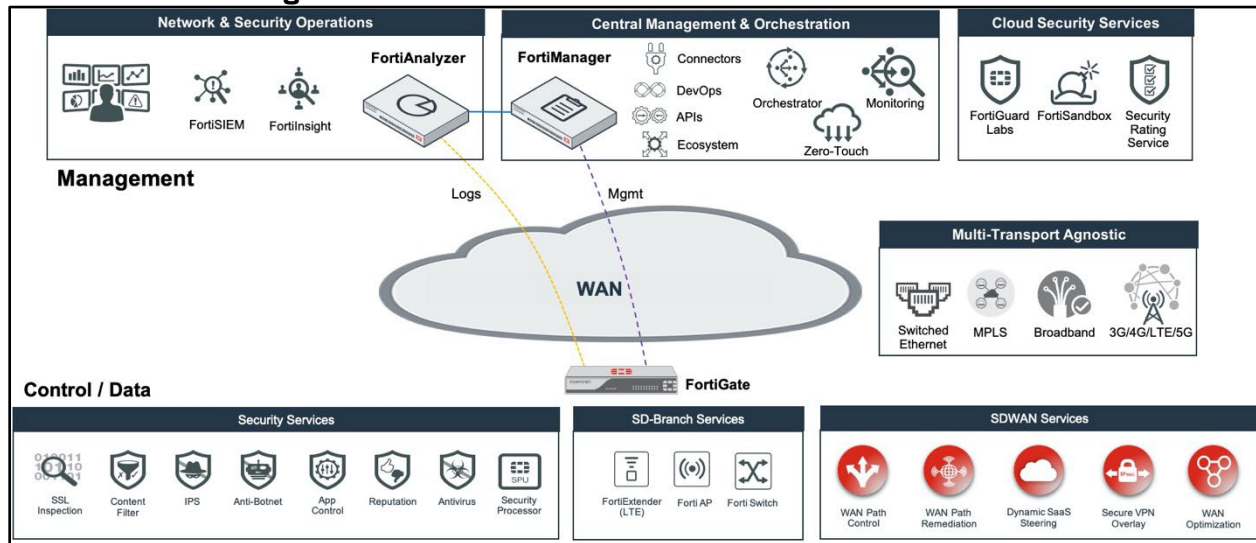
With almost two decades of experience in the Enterprise and service provider market, Fortinet has over time developed an advanced routing stack along with an extensive networking feature set. This allows Fortinet Secure SD-WAN to easily adapt to both greenfield and brownfield deployments. Fortinet Secure SD-WAN provides a comprehensive routing stack supporting the most commonly used dynamic routing protocols (BGP, OSPF, RIP, IS-IS). Fortinet Secure SD-WAN fully supports IPv6 with respect to networking, security policies and SD-WAN policies. The solution also features Fortinet ADVPN technology. With ADVPN, on-demand tunnels are created dynamically for branch-to-branch communications. This allows for full-mesh like communication with the scalability of hub-n-spoke topologies.

In addition, Fortinet Secure SD-WAN incorporates the Fabric Management Center for single-pane-of-glass deployment, provisioning, monitoring, management, analytics, and reporting. Fabric Management Center is composed of FortiManager and FortiAnalyzer.

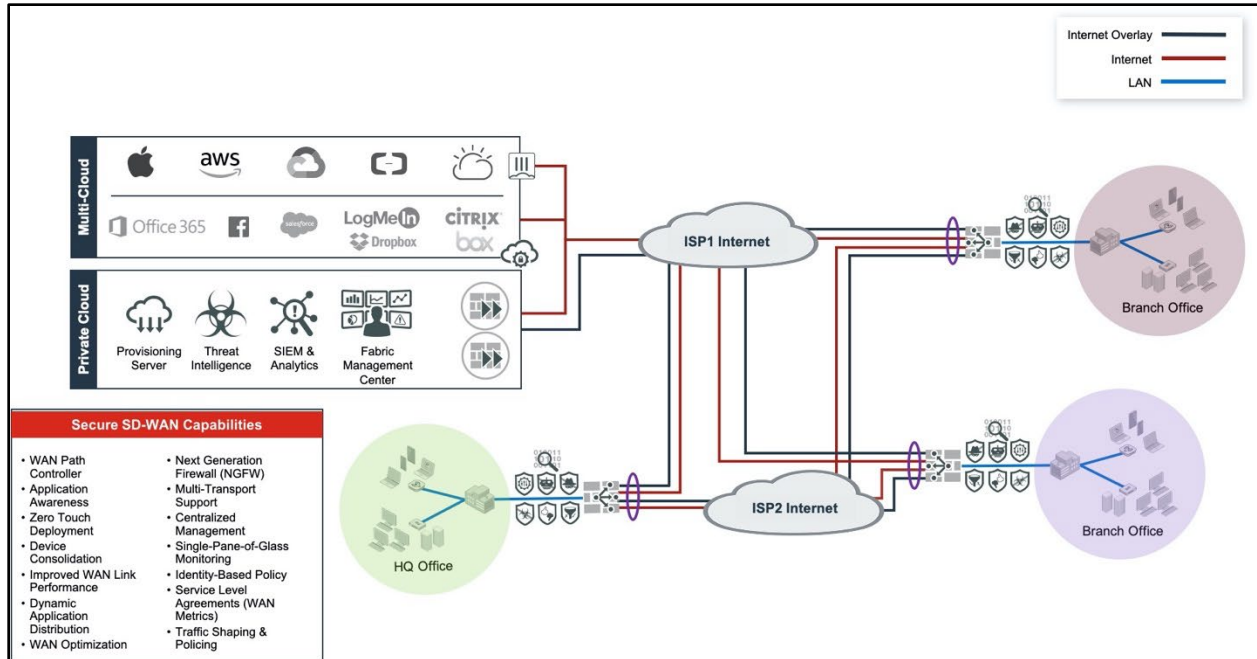
A centralized management solution with a single-pane-of-glass view like the Fabric Management Center enables streamlined visibility that reduces complexity. It allows network operations teams to monitor application steering, SaaS usage, bandwidth utilization, and identify anomalous activity. Fabric Management Center simplifies solution optimization and centralizes the management of Secure SD-WAN, security, zero trust network access, secure access layer technologies (switching and wireless) and other capabilities from a single location. It also streamlines operations for limited or under-resourced administrators and staff—requiring fewer man-hours while reducing total cost of ownership (TCO).

The Fabric Management Center's FortiAnalyzer solution enables organizations to apply FortiGuard Labs threat intelligence to report on SD-WAN's application steering statistics and identify WAN or security problems in real time. FortiAnalyzer helps correlate application and threat intelligence across the Secure SD-WAN enterprise deployment, leveraging its built-in analytics and reporting engines. To keep assets secure, it applies risk scoring to prioritize anomalies and shares findings across the infrastructure. These core analytic capabilities are visible via FortiManager's unified console view.

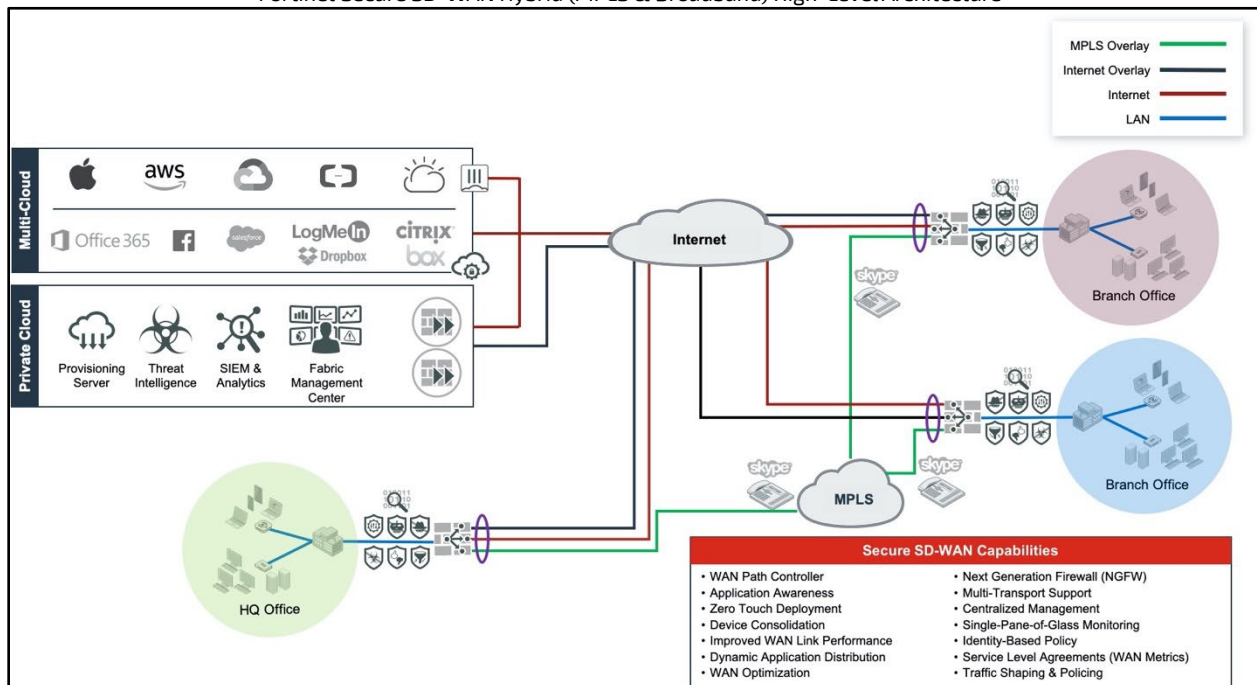
High Level Architecture of Fortinet's SD WAN Solutions



Fortinet Secure SD-WAN Controllerless Architecture



Fortinet Secure SD-WAN Hybrid (MPLS & Broadband) High-Level Architecture



Fortinet Secure SD-WAN Redundant Broadband High-Level Architecture

2. References, Knowledge & Experience

Knowledge and Experience: This should be a more detailed narrative from the contractor of proposal that includes a summary of experience.

- *Success with similar projects. Vendor should include reference contact information*
 - See Section 2A
- *Experience with similar tools and applications*
 - See Section 2A and Appendix A: Resumes
- *Pertinent experience, qualifications, certifications, and past performance of proposed personnel that will be directly involved in providing services, including Subcontractors.*
 - See Section 2A and Appendix A: Resumes. Scientel would not be utilizing any subcontractors for this proposed project.
- *Experience in similar government environments*
 - See Section 2A
- *Ability to provide timely on-site services, problem resolution, and telephone support.*
 - Scientel has a proven record of providing similar services, see References, and we operate a 24/7 Network Operations Center (NOC) out of our Aurora, IL Headquarters
- *Overall capacity of Vendor to successfully provide the required services*
 - Scientel has a proven record of providing similar services, see References, and we operate a 24/7 Network Operations Center (NOC) out of our Aurora, IL Headquarters
- *Credentials of installation team members*
 - See Section 2B and Appendix A: Resumes

A. References

References & Ability to provide on-site services, problem resolution & telephone support:
 A list of not less than five relevant references must be included. References may be contacted after selection to determine if the contractor is responsive and responsible.

Customer Name	City of Crystal Lake, IL
Contact	Steve Weishaar, sweishaar@crystallake.org 815-459-2020
Location	100 W. Woodstock St. Crystal Lake, IL 60014
Dates & Value	Jun 2023 - Present ~\$100,000
Project Description & Challenges	The City of Crystal Lake, IL implemented an SD-WAN and complete WiFi build-out throughout all city municipal buildings, including City Hall, Police Headquarters, 3 Fire Stations, fleet and water department facilities and an outdoor recreation facility. The project was implemented in phases, with the SD-WAN portion happening first, and the WiFi system buildout taking place afterward as facility access allowed. With the enhanced WiFi coverage, end users in the City of Crystal Lake have been very satisfied with the WiFi service and productivity and convenience has increased throughout all facilities.

Customer Name	Village of Tinley Park, IL
Contact	Anthony Ardolino, aardolino@tinleypark.org 708-444-5086
Location	16250 Oak Park Ave, Tinley Park, IL 60477
Dates & Value	December 2022 - Present & ~\$250,000
Project Description & Challenges	Scientel has been the networking partner for Tinley Park since December of 2022. Over that time, Scientel has implemented numerous Fortinet Switches, Firewalls & APs across more than 7 Village owned locations. Scientel has been responsible for implementing SD-WAN across those locations as well as providing turnkey implementation & support.

Customer Name	City of Aurora, IL
Contact	Timothy Kopacz KopaczT@aurora.il.us 331-452-5703
Location	44 E. Downer Place Aurora, IL 60507
Dates & Value	July 2021 - Present & ~\$1,250,000
Project Description & Challenges	<p>Scientel was awarded the managed services contract for the City of Aurora's network infrastructure. Scientel migrated away from a full Cisco network infrastructure & implemented a complete Fortinet Infrastructure complete with FortiGates, FortiSwitches, FortiAP's, FortiAnalyzer, and FortiNAC.</p> <p>FortiNAC was implemented as an added layer of security to further protect the infrastructure while the migration from Cisco to Fortinet took place. FortiNAC provided posturing and visibility to the entire infrastructure for all network connected devices. Through best practices it was determined to focus on a key area of the network to fully test and implement posture for devices as they come on the network. This was provided for physical and wireless connected devices. FortiNAC VM Servers were installed in a redundant</p>

	configuration to provide resiliency. FortiNAC was fully implemented into the Active Directory infrastructure.
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Customer Name	Town of Normal, IL
Contact	Vasudha Gadhiraju vgadhiraju@normalil.gov 309-454-9606
Location	11 Uptown Circle Normal, IL 61761
Dates & Value	Ongoing Project & ~\$500,000
Project Description & Challenges	The Town of Normal, IL awarded Scientel with the full upgrade and monitoring of their entire infrastructure across all departments. The existing network consisted of entirely Cisco with a provider network interconnecting all departmental buildings. The implementation of this network incorporates FortiGates, FortiSwitches, FortiAP's, and FortiAnalyzer across the entire infrastructure. Full migration to the new infrastructure was completed in 3 months meeting the deadlines of an aggressive schedule and providing minimal outages during the go live.

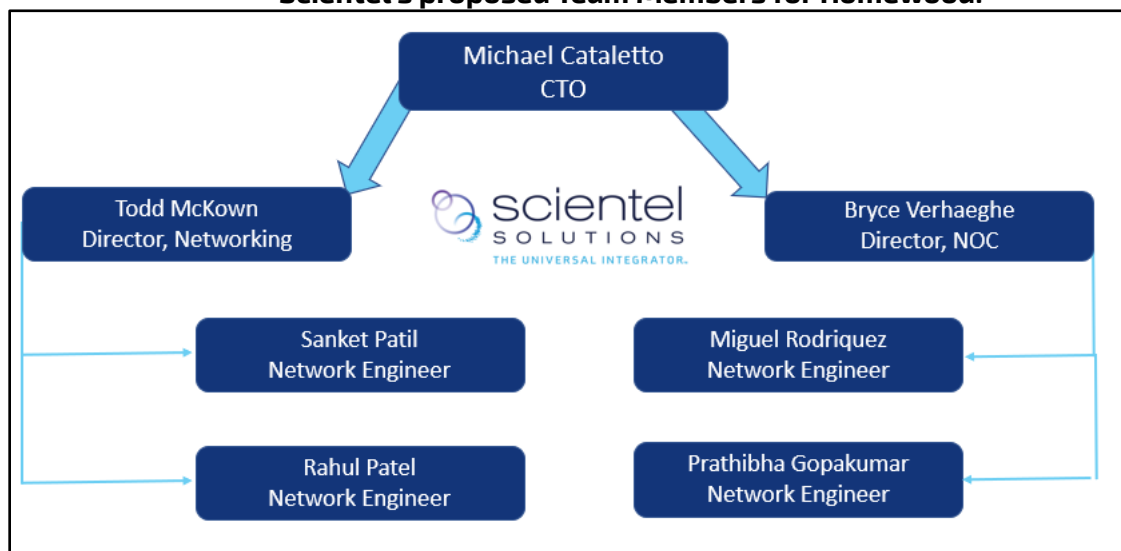
Customer Name	DuPage County Sheriff's Office
Contact	Jason Snow Jason.Snow@DuPageSheriff.org 630-407-2072
Location	501 N County Farm Road Wheaton, Illinois 60187
Dates & Value	December, 2022 & ~\$375,000
Project Description & Challenges	<p>Scientel deployed FortiNAC Control and Application VM Server on VMware, supplemented with two additional licenses: FortiNAC PLUS License for 1K concurrent endpoint devices and FortiNAC Control and Application VM 3 Year FortiCare Premium Support. The project's requirements encompassed enforcing network access policies, ensuring regulatory compliance, device classification, and optimizing network performance.</p> <p>The FortiNAC deployment involved downloading the FortiNAC VM Image, preparing the virtualization environment, importing the VM image, configuring VM settings, initializing the FortiNAC VM, activating licenses, integrating with network infrastructure, configurations and conducting testing and validation. FortiNAC was configured to actively scan the network using SNMP and ICMP protocols, segmenting devices into individual containers based on IP address subnets and device types. Integration with network infrastructure devices such as switches, routers, and wireless access points facilitated the collection of device information.</p> <p>Access policies were established according to user roles, device types, locations, and security posture, with device classification ensuring enforcement of appropriate access policies. User and device authentication mechanisms were configured, granting, or denying permissions based on access policies and authentication results. Automated remediation measures, including quarantining or restricting access for non-compliant devices, were implemented. Ongoing monitoring and integration efforts further enhanced visibility and control</p>

B. Key Personnel

Key Personnel: Should provide an organizational chart for the primary personnel proposed to serve as the points of contact with the Village of Homewood. Provides resumes, a listing of abilities, qualifications, licenses, and experience for the key personnel.

- Experience with similar tools and applications
- Pertinent experience, qualifications, certifications, and past performance of proposed Personnel that will be directly involved in providing services, including Subcontractors.
- Experience in similar government environments
- Ability to provide timely on-site services, problem resolution, and telephone support.
- Overall capacity of Vendor to successfully provide the required services

Scientel's proposed Team Members for Homewood:



Please refer to **Appendix A: Staff Resumes** for a more detailed list of qualifications for managers, supervisors, and technical personnel who would be involved in this project for Homewood.

Scientel's Fortinet Certifications:

- **6 total FCP's (Fortinet Certified Professionals)** with Core Test as FortiGate NSE4. Elective FCP tests completed are as follows:
 - Secure Wireless LAN
 - FortiEDR
 - FortiAnalyzer
 - FortiManager
- **2 total FCSS (Fortinet Certified Security Specialist)** with Core Test as FortiGate NSE7. Elective FCSS test completed are as follows:
 - SD-WAN

3. Project Methodology

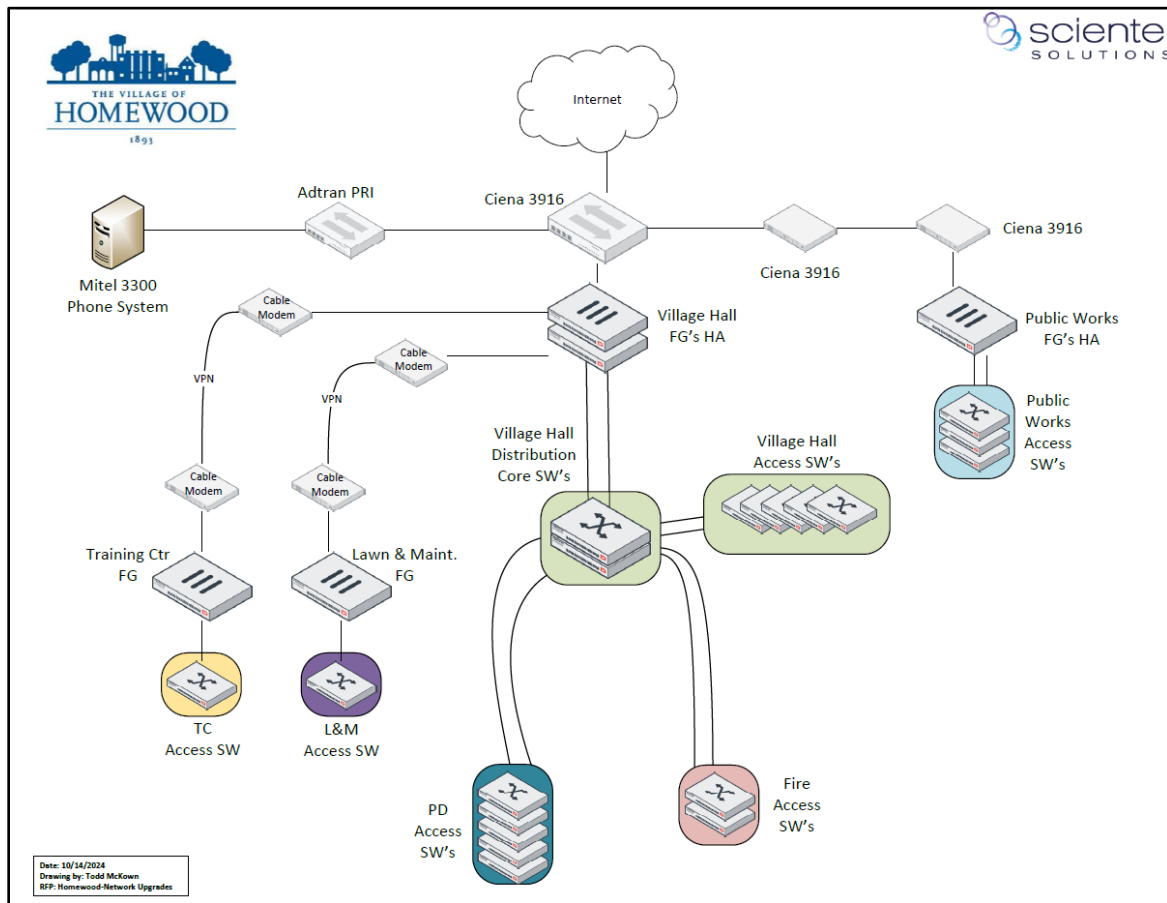
Project Methodology: This should identify the type of that will be used equipment and how the network infrastructure upgrades will occur.

Scientel has broken the RFP requested Project Methodology into 3 subsections

- A. Proposed Design, Equipment, & System Description
- B. Scope of Services Included
- C. Preliminary Project Schedule

A. Proposed Design, Equipment, & Description

Scientel has prepared the following preliminary network diagram for this proposal:



The System will be upgraded to the following components at each location:

Village Hall:

- Qty 2 - FortiGate 201G Firewalls with Enterprise Threat Protection to provide SD-WAN Connectivity to the Internet running in HA (High-Availability)

Municipal Center (Public Works)

- Qty 1 – FortiGate 91G Firewall with Enterprise Threat Protection for connectivity to Ciena 3916 Service and termination to the FortGate located at Village Hall

Emergency Operations Facility (Training)

- Qty 1 – FortiGate 91G Firewall with Enterprise Threat Protection for connectivity to the Cable Modem and termination to the FortiGate located at Village Hall

Lawn & Maintenance (Public Works)

- Qty 1 – FortiGate 91G Firewall with Enterprise Threat Protection for connectivity to the Cable Modem and termination to the FortiGate locate at Village Hall

The following Equipment & Software Licensing are included in this proposal.

Item/Description	Part #	Qty
FortiGate 201G – Enterprise Bundle w/FortiCare Premium	FG-201G-BDL-809-12	2
FortiGate 91G – Enterprise Bundle w/FortiCare Premium	FG-91G-BDL-809-12	3
FortiGate 91G AC Power Adapter Spares (5 pack)	SP-FG60E-PDC-5	1
Power cord, C6 inlet, US for FortiGate Power Supplies	SP-FG60CPCOR-US	5

All Proposed equipment has 1 year worth of software licensing and FortiCare Support included. See Appendix B for more details

Fortinet Firewalls:

- FortiGate 201G specifications: [201G Series Fortinet Firewall Data Sheet](#)
- FortiGate 91G Firewall specifications: [90G Series Fortinet Firewall Data Sheet](#)

Technical Support – Remote via Fortinet

- 24 x 7 FortiCare Support Services Specifications [FortiCare Services Overview](#)

Training Services

- Scientel will provide the required training and work with Homewood and Fortinet to recommend the Fortinet branded training courses as follow up trainings / certifications.

B. Scope of Services Included

In addition to life-cycling equipment components at end-of-life (EOL), the project is expected to upgrade the Village's network topology from separate flat networks to a fully segmented network topology. Proposals and the associated installation sequence/timeline shall be structured to provide the Village with the most favorable pricing and least amount of disruption to Village services while maintaining adequate security.

A successful vendor proposal will include:

- *All ordering, delivery, and warehousing of equipment. Village of Homewood will provide storage space but the vendor should be present for the delivery and acceptance of the equipment.*
 - *Scientel's scope of services include these listed requirements.*
- *Furnishing, installation, testing, and configuration of selected network components. Then vendor should describe the test data it will supply to the Village prior to acceptance of the equipment and configuration. This description should include adherence to the security, VLAN, QoS, diagram, and logistics standards set forth in this section.*
 - *Scientel will fully comply with this request and meet the requirements based on the technology provided.*
- *Strict inter-VLAN access rules to improve network and data security (identification, isolation and control of illegitimate traffic or system anomalies).*
 - *Scientel has provided this requirement through the recommendation of FortiGate Firewalls to provide full network segmentation of inter-VLAN traffic while providing inline virus scanning including encrypted traffic when necessary.*
- *Segregated and hardened network segments for CJIS and State of Illinois access complying with state and federal standards.*
 - *Scientel has experience with this exact setup with many other Illinois agencies and has provided the hardware to fully comply and structure the network in this way.*
- *QoS controls to guarantee bandwidth allocation and prioritization for mission critical application traffic, de-prioritization of less critical network traffic, and VoIP capability.*
 - *QoS is supported through the FortiGates provided in each levels of the network to further ensure critical network traffic is treated with the highest priority.*
- *Detailed bill of materials (BOM) of equipment and services to upgrade the entire system of all buildings at all locations.*
 - *See Section 3A*
 - *As part of Scientel's offering the equipment provided will replace the 4 existing Firewalls currently in place at the same time providing a security fabric implementation at all other locations to further enhance visibility to the network and provide maximum security.*

- *Spare parts inventory that supports an appropriate balance of downtime risk, investment cost, and procurement latency of warranty replacement components. Village of Homewood desires to have at least one complete spare switch (include cables and modules) for any switch model that has more than four switches in the network design.*
 - No spares have been included in our proposal. The most critical components in the network have been designed with High Availability to maximize uptime.
- *Village of Homewood also desires vendor to carry replacement inventory of any switches in the network design within a four-hour drive of Homewood.*
 - Scientel has included spares in the BOM provided where it makes sense. Most critical components in the network have been designed with High Availability to maximize uptime due to criticality of the function within the agency.
- *A specification and quote for the emergency maintenance, repair or replacement of the network equipment. This can be included in the warranty maintenance section of the equipment proposal.*
 - Services related to emergency maintenance, repair or replacement of the network equipment can be performed at a Time & Materials basis of \$240 per hour.
- *Diagrams, in printed and electronic formats, of physical network interconnections.*
- *Diagrams, in printed and electronic formats, of logical network interconnections.*
 - See Section 3A for preliminary network diagram. Final network diagrams would be provided during the project.

Scientel has prepared this section to detail the scope of services included in our response.

1. Project Planning and Design

- **Network Assessment:** Conduct a thorough assessment of the existing network infrastructure, including WAN links, LAN configurations, security architecture, and IT systems. Identify any potential challenges or gaps that need to be addressed.
- **Solution Design:** Develop a detailed solution design that outlines the configuration of FortiGate 201G at Village Hall, FortiGate 91G at Municipal Center, L&M and Public Works locations.
- **Implementation Plan:** Create a comprehensive implementation plan that includes timelines, milestones, resource allocation, and risk management strategies. The plan should cover the deployment process, testing, and cutover activities.
- Scientel will provide a Project Manager to oversee the project entirely, including scheduling project kickoff, ordering of equipment, scheduling of technicians, and arranging the installation process.
- Collaborate with Homewood Network Engineers to develop a scalable, robust, and stable SDWAN implementation and network wide upgrade that segments and protects inter-VLAN connectivity. This solution will also meet the security requirements outlined for CJIS requirements.
- Document IP Plan for network Implementation
- Determine Equipment location and any power requirements
- Determine facility access requirements and Work Hours
- Develop Acceptance Testing Plan for all phases of each implementation to determine success/fail criteria
- **Deliverable:**
 - Detailed Design Review Document encompassing above items

2. Deployment, Installation, & Migration

- **Hardware Installation:** Physical installation of FortiGate devices at Village Hall, Municipal Center, L&M, and Public Works, including cabling, rack mounting, and initial power-up.
- **Configuration:** Configure FortiGate devices according to the solution design, including WAN/LAN interfaces, routing protocols if required to upstream ISP, application-based traffic steering, and security policies required for SD-WAN.
- Scientel has included assisting Homewood with the redesign and implementation of new VLANs.
- Scientel will assist in migrating from the legacy firewalls to the new Fortinet SD WAN proposed solution.

3. Testing and Validation

- Testing and Validation parameters will be provided and discussed during the Detailed Design Review meeting prior to deployment.
- Upon completion of the migration, Scientel will perform the discussed testing and validation of the new network.

4. Support and Maintenance

- **Post-Deployment Support:** Provide support during the initial post-deployment phase to address any issues that arise as the solution is brought online. This includes monitoring network performance, fine-tuning configurations, and resolving any deployment-related issues.
- **Ongoing Managed Services:** Offer managed services to monitor and maintain the SD-WAN and network solution, including regular updates, security patching, performance optimization, and 24/7 technical support.
- **Change Management:** Implement a change management process to handle future updates, policy changes, and expansions, including adding new sites or upgrading bandwidth.
- Provide 24/7 technical support via FortiCare.
- Work with Homewood to establish defined SLAs for issue resolution.
- Ensure regular software updates and patches are applied to all equipment.
- Scientel will provide Homewood with a closeout package which will include:
 - Installation photos & testing results
 - Documentation with equipment information such as serial numbers, IP Addresses, login credentials, and warranty information.
 - Updated network diagram

Proposal Assumptions:

- Scope of work allows for coordinated scheduled deployment and site access, any interruptions to project schedule may be subject to change order.
- Customer is responsible for any license or permit fees required by local ordinance.
- Homewood will provide Secure Remote Access for any remote work and access to necessary equipment as needed or required for ongoing support.
- Assumes adequate power and space is available at each location.
- No cabling or SFP's are provided in this offering and will be determined during the detailed design review. Scientel will provide separate quotes for any required Cabling/SFPs at a later date.
- Homewood will review and approve all design implementations prior to final rollout.
- Change request submittals and site outage windows will be coordinated by Homewood.
- Scientel is not responsible for any communication required for 3rd party vendors.
- No new switches have been included in this proposal. Upon request, Scientel would welcome the opportunity to provide a quote for all new Fortinet switches at a later date.
- This proposal is inclusive of providing 5 new Fortinet Firewalls, and the Scientel Network Engineering services to stage, configure, install, and implement these firewalls, SD-WAN, and assist Homewood with the redesign of their VLANs. No other services have been included in this proposal.
- All pricing excludes shipping and taxes.

Warranty Statement:

Scientel Solutions LLC warrants that work will be performed in accordance with sound engineering practice and professional standards, but makes no other warranty, express or implied including the merchantability.

In the event of any error, omission, or other professional negligence or any breach of the above warranty of which Scientel Solutions LLC is notified in writing within 90 days after system acceptance, the sole and exclusive responsibility of Scientel Solutions LLC shall be to re-perform deficient work at its own expense, and Scientel Solutions LLC shall have no other liability whatsoever.

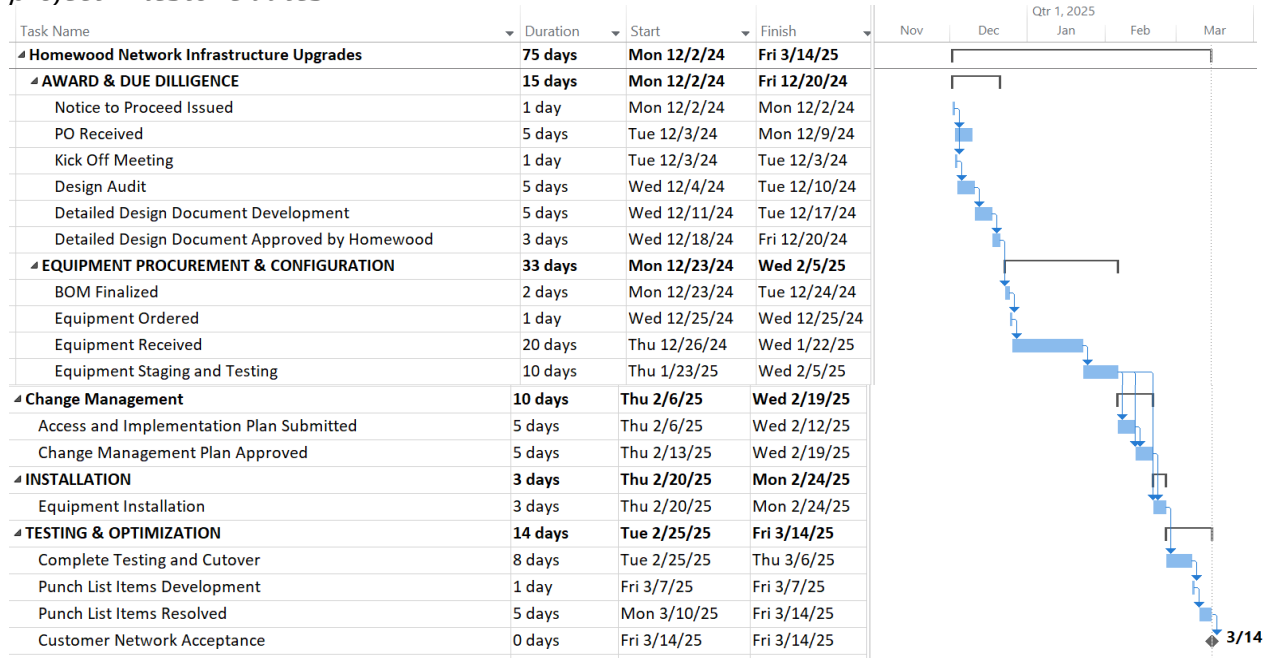
In no event shall Scientel Solutions LLC be liable, whether in contract or tort, including negligence, for loss of profit, loss of product, loss of use, or for indirect, consequential or special damages. The liability of Scientel Solutions LLC for injury or damage to persons or property arising out of this work shall not exceed the lesser of the total amount received by Scientel Solutions LLC pursuant to this contract or \$1,000,000, whether in contract or tort, including negligence and shall not extend to liability arising out of the negligence or other fault of the client.

All equipment included in this proposal includes 1 year for FortiCare software licensing and comes with all Fortinet standard manufacturer's warranties.

C. Preliminary Project Schedule

All Vendors must provide a project schedule

Schedule: This will detail when the project will start and be completed. It should include a project milestone dates.



Scientel has prepared this preliminary project schedule. This schedule would be discussed and finalized during the detailed design review session.

4. Budget

Budget: a breakdown of the cost of the project, and cost to maintain the network.

All Vendors must provide an estimated cost summary in the fee proposal that includes all items shown below:

Phase Description	Hours	Rate	Subtotal	Expenses	Total
Discovery and Direction	68	\$187.27	\$12,734.36	\$280.00	\$13,014.36
Network Design	Incl. Above	Incl. Above	Incl. Above	Incl. Above	Incl. Above
Equipment Cost & Purchase Price (Equipment/Software Listed in Section 3A)	N/A	N/A	\$26,977.87	N/A	\$26,977.87
Implementation	92	\$187.27	\$17,228.84	\$560.00	\$17,788.84
Project Total Cost					\$57,781.07

Billing Milestones / Invoicing

The winning Vendor will be paid monthly for services completed during the previous month. The monthly invoice will include a progress report and a billing report showing hours billed by individual hourly rates, labor subtotal, and other expenses. These expenses will be summarized per task and must support the budget summary in the progress report.

Scientel will comply with this requirement.

5. Appendix A: Staff Resumes

NAME	TITLE	YEARS OF EXPERIENCE	LOCATION - CITY & STATE
Michael Cataletto	Chief Technology Officer	15	Aurora, IL
WORK SUMMARY			
<p>As Scientel's Chief Technology Officer, Michael guides a talented team of engineers dedicated to delivering high-performance networks to our clients while ensuring that budgets are maintained, schedules are met, and quality is paramount throughout the entire deployment process. Background includes field deployment, turnkey networks project management, systems engineering, resource and contractor management. Background also includes international work, process improvement, organizational change management and designing and implementing solutions to improve customer satisfaction and quality. Proven customer interface and management skills spanning 14 years in the wireless industry in over forty countries on six continents.</p>			
EDUCATION (DEGREE AND SPECIALIZATION)			
<ul style="list-style-type: none"> • M.B.A. International Business, Marketing, DePaul University, Kellstadt Graduate School of Business, Chicago, IL – Aug. 2004 • B.S.E. Computer Engineering, University of Michigan, - May 2000 • 			
OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Training, Certifications, Awards, etc.)			
<ul style="list-style-type: none"> • FCC Licensing and Certification • Motorola Certified • Mobotix Beyond Security Award • Cambium Certified • Bridgewave Certified • Harvard University – Executive Education in City Leadership 			
RELEVANT PROJECTS AND WORK EXPERIENCE			
Project Title and Location	Brief Description (Brief scope, size, cost, etc.) and Specific Role		
Chicago and New Jersey Private Millimeter Networks (40+ links)	<ul style="list-style-type: none"> • Designed, Procured, Installed and Tested new 40+ link HybridMillimeter Network including site acquisition and full 24/7 Maintenance 		
City of North Chicago, North Chicago, IL(Wireless Video Surveillance Network)	<ul style="list-style-type: none"> • Designed a Point to Multipoint Backhaul Network to support 8cameras, scalable to support up to 12 cameras • Configured all the PMP hardware, including but not limited to AccessPoints and Subscriber Modules 		
Port of Galveston, Galveston, TX (Remediation of Outdoor Mesh Network)	<ul style="list-style-type: none"> • Analyzed and remediated the Motorola AP7181 Outdoor Wireless Mesh Network for improved performance 		

Harper College, Palatine, IL (Indoor/Outdoor Broadband Wireless Network)	<ul style="list-style-type: none"> Designed a 140+ nodes Indoor/Outdoor Wireless 802.11a/b/g/n network Tested and Optimized the network
Comed, Oakbrook, IL	<ul style="list-style-type: none"> State-wide 3.65 WiMAX Smart Grid Deployment
Handi-Foil, Wheeling, IL (Indoor Broadband Wireless Network)	<ul style="list-style-type: none"> Designed a 60+ nodes Indoor Wireless a/b/g network Tested and Optimized the network
County of HI Video Surveillance	<ul style="list-style-type: none"> Designed Canopy PMP/PTP based wireless camera system for Kailua, Kona, and Hilo parts of Big Island of Hawaii
City of Grapevine, TX	<ul style="list-style-type: none"> Designed Wireless broadband, PMP/PTP Network for Public Safety and Traffic Management
Rosalind Franklin University, North Chicago, IL (Indoor Broadband Wireless Network)	<ul style="list-style-type: none"> Designed a 80+ nodes Indoor Wireless a/b/g/n network Tested and Optimized the network
Lewis University, Romeoville, IL (Indoor/Outdoor Broadband Wireless Network)	<ul style="list-style-type: none"> Tested and Optimized the network Identified coverage holes and recommended design changes to overcome them Expansion/upgrade of the existing network to 802.11n
Nevada Department of Transportation WI-Fi Rest Stops	<ul style="list-style-type: none"> Designed and Installed Remote WLAN Network for Rest Stops
Bureau of Reclamation – Wyoming Microwave Relocations	<ul style="list-style-type: none"> Designed, Procured, Installed and Tested new 8 link Federally Licensed Microwave Network including new Shelters, Power Systems and Towers with Passive Repeaters
Alcatel-Lucent Rocky Mountain Region – AT&T Deployment	<ul style="list-style-type: none"> Installed and Tested new 50 links of Alcatel-Lucent MPR9500
OG & E WiMax Smartgrid Phase 2 and 3	<ul style="list-style-type: none"> Installation of 45+ 3.65 GHz PMP Clusters and 20+ Microwave Links Installed CPEs & SilverSpring Access Points
City of Austin, TX Microwave and MPLS Deployment (14 links)	<ul style="list-style-type: none"> Designed, Procured, Installed and Tested new 14 link licensed Microwave and MPLS Network to support a new P25 network

Marathon County, WI Microwave and MPLS Deployment (10 links)	<ul style="list-style-type: none"> Designed, Procured, Installed and Tested new 10 link licensed Microwave and MPLS Network to support a new P25 network.
City of Aurora, IL	<ul style="list-style-type: none"> Citywide Managed Services Contract to support the entire Network and Video infrastructure

NAME	TITLE	YEARS OF EXPERIENCE	LOCATION – CITY & STATE
Todd McKown	Business Unit Manager - Networking	24	Plano, Texas

RELEVANT PROJECTS AND WORK EXPERIENCE (continued)

Project Title and Location	Brief Description (Brief scope, size, cost, etc) and Specific Role
City of Dallas, TX (Cisco WLAN)	<ul style="list-style-type: none"> Site assessment of current wireless at City Hall. Recommended upgrades to entire system from Controller to AP's. Included but not limited to placement of AP's, new AP's, back end network equipment upgrades. Upgraded multi Controller configuration of 5508's and 2504 to the latest code to support new AP's being installed. Implemented newly purchased 5508's into High Availability configuration. Maintain and upgrade Cisco from from 1.1->1.4->2.2. <p>Ongoing project to start including outdoor Mesh AP's</p>
City of Grand Prairie, TX (Cisco and Cambium PTP/PTMP network)	<ul style="list-style-type: none"> Implemented full Layer 2 Cisco network initially and later upgraded the entire network to Layer 3 Cisco IE3010 utilizing EIGRP routing in a ring topology. Conducted network testing for full route redundancy failure situations on all core sites.
City of Southlake, TX (Cisco, Fortinet Firewall, and Zebra Wi-Fi)	<ul style="list-style-type: none"> Design and Deploy Zebra Wi-Fi and Fortinet Firewall for Free Wi-Fi in Town Square and support of Video surveillance system. Also implemented changes in current Cisco network to expand IP class to support a larger network for the internal advertised SSID for City Staff. Designed and recommended Disaster Recovery configurations on the Cisco 6509 Core
County of Maui PD, HI (Alcatel Lucent Multiple Island Shared MPLS Backhaul)	<ul style="list-style-type: none"> Network audit and re-design to make recommendation for security configurations as well as protection for CJIS compliance <p>Presented information to IT Managers and PD Chief of findings and recommended implementation steps</p>
Hemingway Network, New	<ul style="list-style-type: none"> Implemented multi-site Point-to-Point Microwave links to link up high speed network connectivity between two

Jersey (LightPointe PTP Microwave, Mikrotik, Verizon)	Disaster Recover sites. Performed configuration and documented RSL baselining for acceptance testing per link. Also created results of final throughput capacity of links.
City of Buffalo, Buffalo, MN (Cisco, Cambium)	<ul style="list-style-type: none"> Performed an upgrade of their existing City Wide backhaul network and core with upgraded Cisco equipment. Since the City provides an ISP service to all of its citizens it was critical that downtime was avoided while the network upgrade was taking place. All spoke sites were upgrade successfully with minimal downtime. Also the network core of the system was upgraded from 100mb to 1000Mb.

NAME	TITLE	YEARS OF EXPERIENCE	LOCATION - CITY & STATE
Prathibha Gopakumar	Network Engineer II	11	Aurora, IL

WORK SUMMARY

As a Network Engineer, Prathibha's primary responsibilities include designing, configuring, and maintaining network devices and network monitoring software. Background includes, Solarwinds Network Performance Monitor, BMC Helix Remedyforce IT Service Management, Avigilon Control Center Video Management, Nuage SD-WAN, FortiGate Firewalls, Ubiquiti Firewalls, MikroTik Routers, Nokia Service Routers. Extensive Fortinet design and implementation work has been performed on various projects with large user base. Expertise also include FortiGate firewalls with focus on SSL VPN and rules configuration.

EDUCATION (DEGREE AND SPECIALIZATION)

Bachelor of Engineering in Computer Science and Engineering, Anna University

OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Training, Certifications, Awards, etc.)

- Fortinet Network Security Associate 1 (NSE 1)
- Fortinet Network Security Associate 2 (NSE 2)
- Fortinet Network Security Associate 3 (NSE 3)
- Fortinet Network Security Associate 4 (NSE 4)
- Fortinet (NSE 5)
- Fortinet (NSE 7)
- Business Applications of Database Management Systems (OMIS 652), Northern Illinois University
- Nokia IP Networks and Services Fundamentals - (4A0-100)
- Nokia Interior Routing Protocols - (4A0-101)
- Nokia Multiprotocol Label Switching - (4A0-103)
- Nokia Service Architecture - (4A0-104)
- Global Partner Program 2020 IP Sales Associate | GPP11501K_V1.0
- Global Partner Program 2018 IP Sales Engineer Specialist [including NSP] | GPP11321K
- Managing Campus Networks with Aruba Central Oct 27, 2020 – 201977
- ASTQB certified tester, CTFL

RELEVANT PROJECTS AND WORK EXPERIENCE	
Project Title and Location	Brief Description (Brief scope, size, cost, etc) and Specific Role
Office Security Infrastructure	<ul style="list-style-type: none"> Designed, configured and managed the security infrastructure including firewall provisioning, VLAN implementation, DHCP, DNS, IPsec tunnel connectivity to customer locations, remote VPN setup and managed routing policies across the office network. Built and managed the Nuage SD-WAN infrastructure solution across the data center and the customer locations to establish remote access from the Network Operations Center. Designed, configured and managed on-premises and cloud hosted application servers. Designed, configured and managed AWS cloud platform including EC2 instances, VPCs, multiple Site-to-Site tunnels and Customer gateways, Route tables and Security groups. Configured core routers and switches for the office data center. Worked on routing and IP/MPLS network protocols (ISIS/OSPF, BGP, LDP, RSVP/TE) between multiple routing instances.
Village of Tinley Park, IL (Cisco ASA to FortiGate 200F Migration)	<ul style="list-style-type: none"> Performed the initial network assessment of the current ASA configuration. Built the redundancy and deployment recommendations and migration test plan. Worked with various customer vendors to understand the services configured on the existing firewall. Designed and configured the FortiGate 200F. Coordinated with the Customer and service vendors and successfully migrated the new firewall. Implemented effective security measures using custom security profiles. Performed troubleshooting of network changes, and routing issues.
DuPage County Sheriff's Office (SonicWALL to FortiGate 1801 Migration and Fortinet Security Solutions Implementation)	<ul style="list-style-type: none"> Worked on configuration and migration of existing SonicWall firewall with FortiGate Firewalls 1801. Built redundancy and HA configuration between Primary and Secondary Firewalls. Installed and Configured 4 FortiSwitch-1048E and integrated with security fabric. Installed and Configured 15 FortiSwitch- 124E and integrated with security fabric. Designed, installed and configured various Fortinet security solutions including FortiAnalyzer, FortiEDR, FortiNAC, FortiWeb 600E, FortiSandbox 1000F, FortiMail Cloud Gateway and FortiClient EMS.
White Eagle (Cisco ASA to FortiGate 60F Migration)	<ul style="list-style-type: none"> Worked on configuration and migration of existing Cisco ASA firewall with FortiGate Firewall 60F. Designed and implemented the redundant WAN connections and link monitor and policy route configuration. Built the IPsec tunnel to the office network for network monitoring and SSL VPN for remote access. Currently manage and troubleshoot network services and configure new requirements.
NCLO (Firewall/NSG Implementation at multiple locations)	<ul style="list-style-type: none"> Configured and implemented firewalls and Nuage NSGs at multiple customer locations. Designed network and internet connectivity across all the locations. Built the IPsec tunnel for remote network monitoring.

NAME	TITLE	YEARS OF EXPERIENCE	LOCATION - CITY & STATE
Sanket Patil	Network Engineer	9	Aurora, IL

WORK SUMMARY

- Maintain and deploy enterprise Layer 2/3 switches, routers, maintain upgrades/images, maintain and monitor hardware logs. Worked on Nuage networks', Aruba networks', cambium networks' devices.
- Design, maintain and deploy firewalls and access lists, VLANS, VPN Connectivity to customer sites, SD-WAN technology.
- Design, maintain and deploy network monitoring system, define network test plans, and review results, prepare Engineering standards documents for the Data Networks.

EDUCATION (DEGREE AND SPECIALIZATION)

Masters of Science in Network Engineering & Security, DePaul University
 Bachelor of Science in Engineering in Electronics and Telecommunications, University of Pune

OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Training, Certifications, Awards, etc.)

- Cisco Certified Network Associate: CCNA (200-125)
- Fortinet Network Security Associate (NSE 1)
- Fortinet Network Security Associate (NSE 2)
- Fortinet Network Security Associate (NSE 3)
- Fortinet Network Security Professional (NSE 4)
- Cisco Certified Network Professional – Enterprise: CCNP - ENCOR (350-401)

RELEVANT PROJECTS AND WORK EXPERIENCE

Project Title and Location	Brief Description (Brief scope, size, cost, etc) and Specific Role
City of Aurora, Aurora IL (Cisco, Fortinet)	<ul style="list-style-type: none"> • Implementation for the upgrades of the City's current Cisco equipment to enterprise Fortinet devices which includes FortiGates 60, 70, 100, 600 series, FortiSwitches 100, 200, 400 and ruggedized series, FortiAPs 431F, 432F series, FortiAnalyzer 1000F, FortiNAC deployment. • Maintain and support the City's current Cisco devices and monitor, test, troubleshoot end to end network. • Assisted in the site assessment of the current wireless network at Aurora Police Department. Part of the team for upgrade recommendations for transition to FortiAPs from Cisco, placement of new FortiAPs, back end network upgrades. • Constructed network documentations for the City which includes network diagrams for their Core Data Center locations and remote locations, rack diagrams for the City's Core network.

<p>Village of Schaumburg, Schaumburg IL (Cisco, Fortinet, Ruckus, VMware)</p>	<ul style="list-style-type: none"> • Worked in the Village as part - time Network Admin in their IT team, managing their network components which includes FortiGates 600 series, FortiSwitches 100, 400 series, Ruckus SmartZone controllers and APs, FortiAnalyzer VM version. • Maintain and upgrade their existing Cisco equipment and work on replacements to Fortinet devices from Cisco. • Worked on having the network components with up-to-date software patches in scheduled maintenance windows with minimal downtime.
<p>OnLight Aurora, Aurora IL (Cisco)</p>	<ul style="list-style-type: none"> • Maintain, manage and support the ISP backhaul network for their Cisco equipment which includes Cisco ASR 9000 series routers, Cisco 3400 series routers, Cisco ASA 5000 series Firewalls, Cisco Nexus 3000, 5000 series Edge switches, Cisco 2900, 3500 series distribution switches. • Constructed network documentations for several customers which includes network diagrams for their Core Data Center locations and customer location networks, rack diagrams for the ISP's Core network, fiber mapping documentations. • Worked with the NOC team for troubleshooting network issues in the customer network environment and maintaining the required SLAs.
<p>DuPage County Sheriff Office, DuPage, IL (Fortinet, Aruba)</p>	<ul style="list-style-type: none"> • Worked on the planning and deployment for Fortinet network components which includes FortiGate 1800 series firewalls, FortiSwitches 1048s, FortiAnalyzer-VM, FortiTokens deployment, FortiEDR staging and deployment, FortiAuthenticator staging and deployment. • Worked with the team on network connectivity troubleshooting for the several Fortinet components for coherent network communication
<p>No Child Left Offline – NCLO, Aurora IL (Cisco, Aruba, Cambium, Fortinet, Nuage networks, Siklu)</p>	<ul style="list-style-type: none"> • Design and deployment of several of the network components for multi-site locations to provide wireless access for students which was part of the City of Aurora initiatives. • Implementations of networking devices which includes FortiGate 40F firewall, Nuage networks SD-WAN 7850 NSG series devices, Cisco 1000, 2900 series access switches, Aruba 2500 series access switches, Aruba 500 series APs and controller, Cambium cnPilot E400, E500 series APs. • Maintained and constructed network documentations for the multi-site deployments which includes network diagrams for the devices at the respective locations.

White Eagle Golf Club, Naperville, IL (Cisco, Aruba, Zebra Wi-Fi)	<ul style="list-style-type: none"> • Design and implementation of the customer's current Cisco equipment to enterprise Aruba devices which includes Aruba 2900 series Edge switches, 2500 series access switches, Aruba 500 series APs. • Maintain and support the customer's implemented Aruba devices and monitor, test, troubleshoot end to end network. • Maintained and constructed network documentations for the customer network which includes network diagrams for the network components at several locations.
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NAME	TITLE	YEARS OF EXPERIENCE	COMPANY LOCATION - CITY/STATE
Miguel Rodriguez	Network Engineer	15	Plano, Tx

WORK SUMMARY

My career at Scientel has spanned over 10 years and 3 different positions. Starting off as a Field Technician, I was responsible for field survey, installation and testing of several technologies. These included PTP, PMP, and Wifi with vendors such as: Cambium, Motorola, Dragon Wave, Cisco, Aviat, Juniper, SIAE, etc. Next, I moved on to a Field Services Manager position. I was responsible for overseeing a team of field technicians and field operations. I was responsible for training and guiding my field technicians. I ensured they were properly trained and prepared to perform their daily responsibilities. Finally, I moved into my current position of Network Engineer. As a Network Engineer I'm responsible for installation and testing of networking projects. I'm also part of a team that maintains and supports several of our maintenance projects.

EDUCATION (DEGREE AND SPECIALIZATION)

B.S. Network and Communications Management, DeVry University

OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Training, Certifications, Awards, etc.)

<ul style="list-style-type: none"> • Nokia Wavence 18/19 Installation and Test Certification SME • Nokia MDR 8000 SME 	<ul style="list-style-type: none"> • Avigilon Control Center • Fortinet NSE 1, 2, & 3 • Cambium PTP and PMP • SIAE 	<ul style="list-style-type: none"> • Aviat • Juniper • Cisco • Aruba
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RELEVANT PROJECTS AND WORK EXPERIENCE

Project Title and Location	Brief Description (Brief scope, size, cost, etc) and Specific Role
City of Fort Worth Microwave System	<ul style="list-style-type: none"> • Currently upgrading network upgrade of 7705 to remove existing MDR8000 network and add MPR-9500 equipment utilizing PMC's in 7705 and MPR-9500 MPT

	<ul style="list-style-type: none"> Completed network expansion into Midlothian and Ellis County Completed upgrade from existing 5620 SAM to NSP Appliance that includes NFP-P, vCPAA, and Analytics Package Monitoring, Testing and troubleshooting end to end network Completed multi-site upgrade of MPLS network to new tower shelters while maintaining network uptime Implement and test new agency sites that require MPLS connectivity to Fort Worth and Irving Core sites
OG&E WiMax Smartgrid Phase 2 and 3	<ul style="list-style-type: none"> Installation of 45+ 3.65 GHz PMP Clusters and 20+ Microwave Links Installed CPEs & SilverSpring Access Points
OG&E WiMax Smartgrid Phase 4-6	<ul style="list-style-type: none"> Installation of 50+ 3.65 GHz PMP Clusters and 25+ Microwave Links Installed CPEs & SilverSpring Access Points
City of Austin, TX Microwave/MPLS Upgrade	<ul style="list-style-type: none"> Designed, Procured, Installed and Tested new 14 link licensed Microwave and MPLS Network to support a new P25 network
Williamson County TX Microwave/MPLS Upgrade	<ul style="list-style-type: none"> Designed, Procured, Installed and Tested new 12 link licensed Microwave and MPLS Network to support a new P25 network
City of Dallas, TX City Hall Wireless Access Point Upgrade	<ul style="list-style-type: none"> Design and Installation of 120+ Cisco Access Points and Cisco Switches
Harris County, TX PTP Installation	<ul style="list-style-type: none"> Design and Installation of 14 Licensed and Unlicensed Cambium PTP Links.

NAME	TITLE	YEARS OF EXPERIENCE	LOCATION - CITY & STATE
Rahul Patel	Network Engineer	10	Plano, TX
WORK SUMMARY			
As a Scientel Solutions Field Technician, Rahul provides field support services and Engineering for client's microwave PTP and PMP radio systems. He also performs configurations and setup for deployment and installations.			
EDUCATION (DEGREE AND SPECIALIZATION)			
B.S. Electrical & Electronics Engineering Technology, Texas Tech University – December 2002			
OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Training, Certifications, Awards, etc.)			

- Nokia Digital Automation Cloud – Installations & Integrations – October 2021
- Nokia Private Wireless Installation Certification – October 2022
- Nokia Wavence 18/19 Installation & Test Technician Certification SME – August 2020
- Cambium Networks PMP 450 Certified June 2022
- Radwin PTP & PTMP Basic – October 2019

RELEVANT PROJECTS AND WORK EXPERIENCE

Project Title and Location	Brief Description (Brief scope, size, cost, etc) and Specific Role
NCTCOG – 911 Emergency Preparedness Redundancy	<ul style="list-style-type: none"> • Configured, bench tested, and staged 120+ Cambium Networks PTP820s units for project deployment • Provided support services for outage sites
Oklahoma Gas & Electric - WiMax System Replacement - Oklahoma	<ul style="list-style-type: none"> • Configured, inventoried, and staged over 150+ RAD PMP Base Station and Subscriber units for project deployment • Surveyed, troubleshot, and optimized reduced coverage sites
City of Ft. Worth, Ft. Worth TX	<ul style="list-style-type: none"> • Provide support services to prevent minimal down-time. • Performs quarterly preventive maintenance and audits on microwave equipment • Train technicians on MDR-8000 microwave equipment
City of Plano, Plano TX	<ul style="list-style-type: none"> • Provides support and maintenance services on 25+ intersection Axis cameras. • Installation, repair, and support of Cambium PMP and PTP microwave equipment • Troubleshoot and repair Dragonwave links
NTWMD- SCADA Systems Update	<ul style="list-style-type: none"> • Configuration and setup of GE MDS SD9 units • Installation and integration of MDS units
CRMWD – Communications Systems Upgrade	<ul style="list-style-type: none"> • Configuration, bench testing of Radwin PTP links • Configuration, bench testing, and installation of Nokia Wavence 19 chassis • Installation of Ground rings per R56 standards

6. Appendix B: FortiCare Bundle Description & Features

Scientel has included the Enterprise Protection Bundle for the 5 Proposed new FortiGate Firewalls.

Enterprise Protection Description:

The Enterprise Protection bundle offers the best value through a comprehensive suite of enterprise-class security features for enterprises and other organizations with more complex environments. The Enterprise Protection bundle builds on the UTP bundle with advanced services to address SaaS application security, data security, and protection for IoT devices as part of a comprehensive attack surface assessment and monitoring service. The Enterprise Protection bundle also includes powerful AI-based inline malware prevention capabilities.

- *Included: UTP + CASB for SaaS application security, data loss prevention (DLP), IoT detection and vulnerability correlation, attack surface monitoring and risk scoring, AI-based inline malware prevention.*
- *Regulatory Compliance: Helps highly-regulated HQ, branch, and campus environments meet compliance*
- *SD-WAN Requirements: Helps where secure SD-WAN is required to meet stringent compliance and data security requirements*

Comparing Bundles				
FortiGuard Security Services	Available A La Carte	Advanced Threat Protection	Unified Threat Protection	Enterprise Protection
Intrusion Prevention System (IPS)	✓	✓	✓	✓
Advanced Malware Protection (AMP)	✓	✓	✓	✓
Antivirus	✓	✓	✓	✓
Botnet	✓	✓	✓	✓
Mobile Malware	✓	✓	✓	✓
Outbreak Prevention	✓	✓	✓	✓
Sandbox SaaS (detection only)	✓	✓	✓	✓
AI-based Inline Malware Prevention	✓			✓
Web Security	✓		✓	✓
Web and Content Filtering	✓		✓	✓
Secure DNS Filtering	✓		✓	✓
Video Filtering	✓		✓	✓
Attack Surface Security Rating	✓			✓
IoT Security	✓			✓
Security Self-check	✓			✓
Inline SaaS Application Security (CASB)	✓	✓	✓	✓
Data Loss Prevention	✓			✓