



APPLICATION INSIGHT SWG

Specification Sheet



< Secure Web Gateway Specification Sheet >

Technical specifications

[Configuration]

- Integrated Hardware Appliance
- H/W Bypass Support for Hardware Fault Conditions
- S/W Bypass Support for Software Fault Conditions
- Support for Installation of Hardware-Based SSL/TLS Acceleration Card for Enhanced Performance
- Supports Installation Using Transparent Proxy Architecture Without Modifying Existing Network Configuration
- Support for Forward Proxy Mode Configuration Using Dedicated Agent or PAC (Proxy Auto Configuration)
- Support for In-line (Sniffing) and Out-of-Path (Mirroring) Modes Without Interfering with TCP/TLS Sessions
- Support for High Availability (HA) Configuration with Active-Active and Active-Standby Functionality
- Asynchronous Traffic Handling in Redundant or Multi-Segment Configurations
- Support for Network Interface Redundancy via Link Aggregation (Bonding Configuration)
- Support for ICAP Client and ICAP Server Modes for Integration with Third-Party Solutions
- Support for Automatic Synchronization of URL Blacklists Provided by Third-Party Solutions
- Support for NAT (Network Address Translation) Configuration within the Decryption (Active) Segment
- Health Check Function for Monitoring Interconnected System Failures and Enabling Bypass within the Decryption (Active) Segment
- Support for Multi-Segment Architecture to Accommodate Multiple Decryption (Active) Zones
- Support for Passive Decryption Traffic Mirroring on 8 or More Ports



[Web Security]

- Support for Category-Based Filtering to Identify and Detect Malicious and Non-Business Websites (with Proprietary URL Category Database Supporting Online Updates)
- Support for Access Control to Malicious Categories Based on Integration with Google Safe Browsing API
- Support for YouTube Filtering Functionality Based on Integration with YouTube API to Identify and Detect Video Categories
- Support for Application Control Functionality to Identify and Detect Network Applications such as Messenger and SNS (with Proprietary Network Application Database Supporting Online Updates)
- Support for CASB Functionality to Control Access and Feature Usage of SaaS Applications such as Google Workspace, Office 365, and Webmail (with Proprietary SaaS Database Supporting Online Updates)
- Support for Simplified Security Policy Configuration for Generative AI Services Without Specifying Endpoints (URLs) or Identifiers (Keys), Using Proprietary Generative AI Database with Online Update Capability
- Support for Country-Based IP Access Restrictions (with Proprietary Country IP Database Supporting Online Updates)
- Integrated ATP Functionality for Malicious File Analysis via Interworking with Dedicated Security Solutions
- Support for Captive Portal Functionality that Allows Web Access After User Identity Authentication
- Support for Security Policy Enforcement Based on Identification of Real Client IP Embedded in HTTP Headers
- Support for Security Policy Enforcement Based on Identification of User Identity Embedded in HTTP Headers
- Support for Blocking Access to External Open Proxies such as Malicious Proxy Servers or Anonymous VPNs
- Support for Blocking Access from Compromised Clients to Command and Control (C&C) Servers
- Support for Modifying and Forwarding HTTP Structure of Web Requests or Responses Based on Specified Conditions
- Support for Configuring Approved Browsers and Restricting Access from Unapproved Browsers During Web Access



- Support for Detecting Web Access Violating RFC and Other Web Standards
- Support for Configurable Response Control Conditions Including Malicious URL Scanning in Web Content and Attachments, as well as File Size and Extension Restrictions
- Support for Anti-Malware Functionality to Detect Malicious Code Patterns in Web Responses (e.g., Exploit Kits, Redirects, JavaScript Obfuscation)
- Support for Anti-Virus Functionality to Detect Malicious File Downloads in Web Responses
- Support for Configuring Content Size Limits in Web Responses
- Support for Integration with Cyber Threat Intelligence Platforms to Identify and Respond in Real-Time to Various Cyber Threats (e.g., Blacklisted Client IPs, C&C IPs)
- Support for Integration with Cyber Threat Intelligence Platforms to Query Reputation of Malicious URLs and Files from Stored Log Data
- (Sniffing only) Support for SNI-Based Identification to Apply Web Security Policies on HTTPS Traffic Without Performing Decryption

[Data Loss Prevention]

- Support for Attachment Archiving Functionality that Extracts and Stores Original Files for Post-Access Review
- Support for Detection and Prevention of Leakage of Eight Types of Sensitive Information (e.g., Resident Registration Numbers, Credit Card Numbers) Contained in Web Content and Attachments
- Support for Configurable Web Request Control Conditions Including Keyword or Regex Matching, File Size and Extension Restrictions on Web Content and Attachments
- Support for Configuring Content Size Limits in Web Requests

[SSL Visibility]

- Supported Encryption Protocols: SSL V3.0, TLS V1.0, TLS V1.1, TLS V1.2, TLS V1.3
- Support for HTTP/2 Protocol Decryption
- Support for Encryption and Decryption of Various SSL/TLS-Based Application Protocols Beyond HTTPS(e.g., FTPS, SMTPS, LDAPS, IMAPS)
- Support for Encryption and Decryption of TLS Upgrade Protocols such as STARTTLS
- Selective Encryption and Decryption Support for Specified TCP Port Targets



- Support for Encryption and Decryption of SSL/TLS Traffic over IPv6
- Support for Decryption Policy Enforcement Based on Client OS Identification via OS Fingerprinting
- Support for Encryption and Decryption Using ECC (Elliptic Curve Cryptography) Certificates
- Support for Automatic Identification of SNI in Encrypted Traffic Without Predefined Decryption Target Registration
- Support for Online and Offline Updates of Application Database for PKP (Public Key Pinning)
- Support for Automatic Learning of TLS Connection Failures (IP/URL) and List-Based Bypass Execution
- Support for Service Port Conversion and Forwarding of Decrypted Packets
- Support for Detailed Configuration of Passive Mirroring Conditions for Decrypted Packets (IP, Port, Packet Direction)
- Support for Automatic Certificate Distribution by Redirecting Users Without Installed Certificates to a Certificate Provisioning Page upon Web Access
- Support for Integration with 3rd Party Solutions to Automatically Update Internal Users' Root CA Certificate Installation Status
- Support for Detection and Blocking of Invalid SSL Certificates

[Remote Browser Isolation]

- Support for Unified Web Security Functionality that Applies SWG Policies Even to Isolated Traffic
- Support for Granular Web Isolation Policy Configuration Based on User Identity and Destination
- Support for Configurable Web Isolation Targets Including Host, IP, URL Categories, and SaaS Application Lists
- Support for Configurable Control of File Upload and Download in Remote Browser Environments
- Support for Secure File Download in Remote Browser Environments through Malware Detection (Anti-Virus) and Content Disarm & Reconstruction (CDR)
- Support for Clipboard Control Functionality in Remote Browser Environments
- Support for Print Control Functionality in Remote Browser Environments



- Support for Watermark Display Functionality in Remote Browser Environments
- Support for Configurable Rendering Modes in Remote Browser Environments Including Video Streaming and Image Rendering
- Support for RBI Portal Functionality that Displays a List of Accessible Servers Based on the Logged-in User's Access Permissions

[Operation & Convenience]

- Ensures Service Availability Without Downtime During Pattern Updates and Policy Changes
- Provision of Web-Based GUI Management Console Page Without Requiring Additional Program or Active-X Installation
- Support for Encrypted Communication Protocols (SSH, HTTPS) During Remote Access
- Support for Two-Factor Authentication (2FA) Using One-Time Password (OTP) for Administrator Login
- Support for Configurable Password Management Policies for Administrator Accounts Including Expiration Dates and Restrictions on Reusing Previous Passwords
- Support for Role-Based Access Control with Granular Permission Settings per Management Menu for Administrator Accounts
- Provision of Customizable Statistical Report Items Across Various Categories
- Support for Automatic Generation and Email Delivery of Traffic, System, and Report Data
- Support for Configurable Grouping Based on User, IP, URL, Host, and URL Categories
- Support for Unified Policy Lookup Across Users, IP Addresses, URLs, and Groups
- Support for Bulk Query of Web Security Policies with No Detection History During a Specified Period
- Support for One-Click Exception Handling to Reclassify URL Categories During Log Review
- Support for Configurable Bypass Conditions Including IP, Host, PKP Lists, HTTP Headers, and File Extensions
- Support for Real-Time Policy Synchronization Between Systems and Peer Authentication for Policy Sync Operations
- Support for Periodic Backup and Restoration of System Policy and Configuration Settings
- Support for Automatic Backup and Restoration of Policy Change History
- Support for Customizable Block Pages per Web Security Policy



- Support for Configurable Block Pages that Offer User Override Options with Accountability Tracking
- Support for Integrated UI Allowing Internal Users to Request URL Category Changes from Block Pages and Administrators to Process Them
- Support for Integrated UI Allowing Administrators to Request URL Category Reclassification Directly from the Vendor and Monitor Results in Real Time
- Support for Policy Testing Functionality that Performs Self-Validation Using Web Request and Response Data to Immediately Verify the Behavior of Generated Web Security Rules
- Support for Web Acceleration via Caching and Provision of Dedicated UI for Cache Status Monitoring
- Support for Multiple Email Integration Types Including SMTP, SMTPS, and AWS SES for Audit Log Delivery Upon System Anomalies
- Support for Integration with General-Purpose Messengers such as Telegram, Slack, and Discord for Audit Log Delivery Upon System Anomalies
- Support for Real-Time Monitoring of System Resources and Temperature with Threshold Alerts
- Support for SNMP GET and SNMP TRAP Configuration for Versions v2 and v3
- Provision of Operational Convenience via Open Web API Based on REST Architecture
- Provision of Various Troubleshooting Features Including TCPDUMP, Debugging, and Automatic System Recovery via User Interface

[Department & User Management]

- Support for Multi-Tenant Functionality Enabling Department-Specific Independent Security Policy Configuration
- Support for Unregistered Department Functionality to Apply Web Security Policies to Unregistered Users
- Support for Department and User Integration via CSV File Upload, Database, and LDAP Connectivity
- Support for User-Specific Expiration Date Assignment and Automatic Deletion Functionality

[Log Management]

- Support for Real-Time Logging and Querying of Web Access Records for All Users



- Support for Real-Time Logging and Querying of Decrypted Plaintext Data (Request/Response)
- Support for Visibility Enhancement by Highlighting Detection Evidence within Decrypted Plaintext Data in Detection Logs
- Support for Real-Time Logging and Querying of TLS Session Encryption and Decryption Processes
- Support for Real-Time Logging and Querying of IP, Port, and SNI Information for Bypassed Encrypted Traffic
- Support for Real-Time Audit Logging and Querying of System Operation History and Configuration Changes
- Support for Log Transmission and Customizable Format Settings for Integration with SIEM/SOAR Systems
- Support for Various Log Transmission Protocols (UDP, TCP, SSL, etc.) for Integration with SIEM/SOAR Systems
- Support for Configuring Distinct Log Formats for Each SIEM/SOAR System Integration
- Support for Detailed Policy Configuration for Automated Log Management and Data Protection Compliance, Including Retention Period Settings, Backup Path Designation, and Deletion Conditions

