FortiOS 5.0 Enhancement Summary

System Administration
• Support configuration from Android & iOS devices through USB interface with FortiExplorer App
• Web-based Manager filtering & Columns improvements
• New option to format boot device before firmware update
• New CLI command to set factory default except VDOM/ interface settings
• Ability to disable the console login
• SNMP trap for FortiAP or FortiSwitch events
• SNMP implementation for Intelligent Platform Management Interface (IPMI) sensor
• SNMP Extensions for BGP
• Simplify GUI for FortiGate/FortiWiFi 20C and 40C
• Set DHCP options to get TFTP server IP and config file name to restore the configurations
• New setup wizard, included for all 1U models
• Central management configuration improvement
• Improved support for long hostnames in the CLI prompt

Visibility
• Additional dashboard Widgets
• New & expanded Real-time Sessions Widgets
• Contextual Information: Device, OS, User, destination hostname & geographic visibility
• Unit operation widget on FortiGate 600C, 800C, and 1000C
• Display threat information from FortiGuard Encyclopedia

Routing & Network Services
• Support Spanning Tree Protocol (STP) for FortiGate Switch Mode interfaces
• Support Virtual Switch & Hardware Switch feature
• Switch port extensions
• Switch Fabric access control list (ACL)
• WCCP L2 mode
• Support per VLAN MTU setting
• SSH handover support
• Option to restrict the number of IP addresses that can be leased to the same MAC address
• BGP AS-Path rewrite
• Increased Router Policy limit
• Dynamically cost of tag interface
• DNS service profile
• Authentication-based routing

High Availability
• Fortinet redundant UTM protocol (FRUP)
• Support configuration synchronization in standalone mode
• SSL-VPN authentication high availability (HA) failover support

User Based Identity
• Access Based SSO using 802.1x, Captive portal & FortiClient VPN
• Citrix & terminal services SSO Agent
• RADIUS-based SSO (Dynamic Profile)
• Support for secondary/backups remote authentication server
• Direct FSSO Polling Mode from FortiGate
• Support dynamic-profile for SSH proxy
• HTTP-only authentication over HTTPS channel
• Guest access provisioning

OTP Token Server
• Secure OTP seed import
• Soft Token Activation & Management
• JSON API for token support

Device Based Identity
• Device identification
• Device type/group classification & management
• Device based security policy

Endpoint Control
• FortiClient ubiquitous authentication
• FortiClient Registration & Management
• Captive Portal for Endpoint control client checking & install
• FortiClient configuration provisioning for “off-net” security enhancement
• Support device based policy on remote location & routed network
• Endpoint Logging

Client Reputation
• Multi-vector scoring
• Real-time client reputation monitoring

User Notification
• Fortinet Top Bar

Firewall
• Reorganized service items
• Policy list enhancement
• Mac address access list
• Web-based manager support for multicast policy and multicast address
• Dynamic comment field
• GeoIP override
• Improvements to support asymmetric traffic flows
• IP fragment and NAT enhancements
• IP pool fixed port range
• Restriction to virtual IP (VIP) on specific interfaces
• SIP NAT enhancement & support for TLS inspection

FortiGuard Services
• FortiGuard Real time GeoIP updates
• FortiGuard SMS messaging service
• FortiGuard NTP & DNS Service
• FortiGuard DNS Service
• FortiGuard USB Modern DB updates
• FortiGuard Device/OS Visibility signature updates
• Device based licensing for FortiCloud Service

OTP Token Server
• Secure OTP seed import
• Soft Token Activation & Management
• JSON API for token support
FortiOS 5.0 Enhancement Summary

VPN
- Simplified VPN setup
- SSO support for FTP and SMB added under SSL-VPN
- Support SSL-VPN push configuration of DNS suffix
- Auto-IPsec restricted to desktop platforms
- Create new IPsec site-to-site and dial up tunnels directly from the policy page
- Support for IKE to bind to loop-back interface
- ARIA encryption

IPS
- IPS Engine version 2 - Improved resource usage & Performance
- DOS policy improvements
- Medium severity added to default IPS sensor

Application Control
- Custom Application Control Signatures
- Improve App Control profile for ftp and facebook
- Support SSH inspection

Antivirus
- New AV engine v5 - behavioral heuristic engine & OS independent sandboxing
- Auto submission to FortiGuard Analytics - Cloud based sandboxing
- Botnet C&C blocking with IP reputation DB
- MAPI & SMB protocol support

Email Filter
- Flow-based Email Inspection Mode

Web Filter
- DNS-based Web Filter
- Flow-based Web Filter support for replacement message in HTTPS Web Filter
- Yandex search engine; safe search support
- Search engine configuration
- One-arm URL filtering
- Content type scanning by FortiGuard category

DLP
- DLP watermarking
- New DLP GUI Configuration

Vulnerability Scanning
- FortiClient vulnerability scan

Wireless Controller
- Wireless IDS
- Wireless client load balance
- Wireless mesh & bridging
- Bridge SSID with physical port
- Fake AP detection
- Automatic TX power adjustment
- Automatic Rogue APs suppression
- CAPWAP data channel encryption

SSL Offloading & Inspection
- Improved SSL inspection performance
- SSL inspection Support for IPS and Application Control
- Support for adding X-Forwarded-Proto for SSL offload half mode

WAN Optimization
- Support WAN Optimization and content scan in a single VDOM
- WAN Optimization per policy
- Dynamic data chunking for WAN Optimization byte cache
- HTTPS offload and HTTPS cache features
- Support Internet Content Adaptation Protocol (ICAP) in explicit Web Proxy
- Support cache-cookie option to set web cache behavior on cookie
- Explicit proxy and SSL decryption
- Explicit proxy (HTTP and FTP) support for dynamic profiles
- Explicit proxy integration with IPS and Application Control

Virtual Systems
- Standalone management VDOM
- Support DHCP servers on the VDOM-link interface
- NP4 accelerate inter-VDOM traffic
- Per VDOM and global limits on guest user accounts
- Global View Menu implementation
- Global FortiGuard server override
- Multi-VDOM admin
- Support VDOM link between transparent VDOM with NAT/Route VDOM

Log & Report
- New Log message organization
- MAC address logging
- Local-in policy logging
- Merge UTM incidents into traffic log
- Added option to log to FortiManager
- FortiCarrier: logging Improvements
- PDF report improvements
- Enhanced drill-down reports

IPv6
- IPv6 NAT: NAT66, NAT64, DNS64
- IPv6 explicit proxy
- IPv6 MBs
- IPv6 Per-IP shaper
- IPv6 policy routing
- IPv6 session pickup in HA mode
- NAT64 acceleration (XLR/XLP)
- Support IPS for IPv6 forwarding policy
- IPv6 SSL proxy IPS inspection
- NAT64 High Availability (HA)
- Support DHCP Client for IPv6 addresses
- DHCPv6 relay

Others
- Increased limit on URL filter, Web Profile, Group Profile, and Policy
- FortiCarrier: GTP monitor mode
- FortiCarrier: Support GPRS tunneling protocol version 2 (GTPv2) & extensions
- ELBv3 enhancements & Support for FG5101C
- LACP support on the FortiSwitch 5203B

Note: This list may not be complete. Features may not be available to all FortiGate models. Please refer to FortiOS 5.0 release notes and administration guide.