

### WUG 16.4

#### New Monitors

- > Ping Interarrival Jitter Monitor checking for variances in results returned from multiple pings to a device
- > JMX Performance Monitor
- > JMX Active Monitor
- > File Content Monitor which scans specified files for a string pattern
- > SSL Certificate Monitor which checks a specific location for the existence of a valid SSL certificate
- > SNMP Extended Monitor which utilizes SNMP to gather specific information about the functions of multiple OIDs

#### Application Performance Monitor

- > Added new profiles for a number of applications to APM
  - WhatsUp Gold v16.4
  - Linux
  - Apache Web Server
  - Windows DNS Server
  - SharePoint 2013
  - Microsoft SQL Server 2008, 2012 and 2014
- > Allow users to create new application profiles based on Ipswitch-certified profiles using the Edit acopy
- > Allow users to apply attributes to applications and application instances
- > Improved End User Monitor polling architecture for better stability and more reliable monitoring

#### Flow Monitor

- > Added Top Endpoint and Top Endpoint Groups report
- > Option to select Flow Monitor interface speeds in units of Bps, Kbps, Mbps, Gbps and Tbps
- > Improved sorting and filtering capabilities on the Flow Monitor Home page

#### WhatsConfigured

- > Support for triggering WhatsConfigured plug-in tasks as a WhatsUp Gold Action

### WUG 2016

#### New Licensing

- > Introduced new BasicView, ProView, TotalView, and TotalView Plus product packages with customer friendly licensing

#### Storage

- > Added capability to monitor NetApp FAS2200 and 2500 storage devices

### WUG 2017

#### Modernized User Interface

- > Enables admins to see, process and act faster to IT problems
- > Updated more interactive maps, with wireless and virtual overlays
- > Low touch workflows delivering data faster
- > Clearer and more expansive dashboards and reports

#### Easier, faster and more accurate Discovery

#### More scalable and high performance pollers

#### Multiple roles per device

- > Can assign multiple roles to Multi-function devices

#### Network Traffic Analysis

- > IPv6 support
- > More precise geolocation

#### Application Performance Monitor

- > Copy component between application profiles/instances
- > Assign action items to multiple sources
- > Status navigation tree drill down on complex component groups and discrete instances
- > Automatic updates for certified profiles and instances
- > WUG standard email export for APM Status page

### WUG 2017 Plus

#### Support for Distributed Environments

- > Monitoring of remote installations of WhatsUp Gold from a designated central site also known as a distributed environment
- > Dashboard reports specific to the remote site installations
- > Added dashboard reports specific to performance data collected by the remote site

#### User Interface Enhancements

- > Revised the dashboard layout to increase report density.
- > Moved Group Selector, Filters, Overlays, and Legend to sliding panel in Device List views, improving usability/focus on device lists
- > Option to display device names in Custom Layout map views.
- > Significantly improved map performance when large numbers of devices are displayed and when merging and mapping devices
- > Enhanced Reporting performance with specific focus on performance reports and report data export

#### Business Continuity/Failover

- > Failover functionality to a secondary installation of WhatsUp Gold in the event the primary installation goes down

#### Performance Monitoring in Real Time

- > Addition of real time performance monitors

#### Extended Device Management

- > Device role library
- > Device role editor 'wizard' for creating new and modifying existing device roles and sub roles
- > New Device Properties interface which incorporates monitor setup and improves usability overall
- > Device icon overlay to the map views

#### User Management

- > New user management interface
- > New user and group library interface.

#### Network Mapping

- > Capability to create custom maps for Layer 2 Dynamic Groups

### WUG 2017 Plus Service Pack 1

#### Cloud Monitoring

- > Cloud status monitor support for AWS and Azure (Active Monitor only)

#### Storage Management

- > Monitoring of EMC Unity Storage devices

#### Reports

- > Ability to schedule report data export in multiple formats
- > Reintroduced the Over Time Graph to the Active Monitor Availability report for parity with previous versions of WUG

### WUG 2018

#### Enhanced cloud monitoring:

- > Monitor and alert on AWS and Azure implementations provided via their respective APIs
- > Cloud usage, billing and performance reports
- > Cloud specific dashboards; status and performance of cloud services, applications, costs
- > Outlook365 performance monitoring
- > Meraki wireless network monitoring via integration with the Meraki cloud
- > Custom cloud performance monitors for both AWS and Azure
- > Support for Cisco ASA

#### Usability

- > Overview dashboard for at-a-glance network status
- > Overview dashboard to show, "What's good in your Network".
- > 200+ new icons that can be applied via device roles to make device identification/categorization on the map easier
- > A passive monitor indicator to device icons on map views
- > Improved device deletion functionality by allowing the user to delete devices from both the My Network and Discovered Network with a single action.
- > Improved product installation wizard to increase ease of use and minimize potential issues when installing WhatsUp Gold using Distributed and/or Failover features

#### Wireless

- > More wireless reports showing more detail (i.e., radio type, etc.) for faster troubleshooting
- > Wireless APs now display SSID name instead of individual clients for a clearer, less-cluttered map view
- > Support for Cisco Meraki cloud-controlled access points
- > Support for Cisco 5520, 3504 and 2520 wireless LAN controllers/access points

#### Alerting

- > Slack integration for broadcasting alerts to multiple individuals

#### Storage

- > Dell Compellent storage monitoring

### WUG 16.0

#### Wireless Monitoring for Cisco and Aruba

- > Discovery, mapping, monitoring, alerting & reporting
- > Bandwidth usage, Client count, RSSI/SNR, CPU and Memory utilization

#### Integrated Layer 2/3 discovery & mapping

#### Inventory Reports

Asset Inventory	Installed Software
Software Updates	VLAN View
Subnet	Port Utilization
Windows Services	Computer Systems
Device Connectivity	Warranty

#### Scalability Improvements

- > 20,000 devices/100,000 monitors
- > Scalability pollers

#### New Monitors

- > PowerShell scripting monitors
- > SQL Query monitors
- > WMI Formatted monitors

#### Flow Monitor

- > Track flows by ASM (Border Gateway Protocol)

#### WhatsVirtual

- > Integration with WUG UI
- > VM actions (start/stop/reset/snapshot) from live maps
- > Display and search VM event logs

#### WhatsConfigured

- > Integration with WUG UI
- > Start vs. Run reports
- > Out-of-the-box templates for PCI, HIPAA, SOX and FISMA
- > Script templates to push out configurations

### WUG 16.1

#### New Application Performance Monitor Plug-in

- > Discovery, mapping, monitoring, alerting & reporting
- > Certified application profiles and editor
- > Define and monitor dependencies between applications
- > Critical components, Non-critical components and Critical Component Group to define application states – Up, Down, Warning and Maintenance states
- > Dashboards:
  - Application/Component Current Status
  - Application/Component Historical Status
  - Component Summary
  - State Change Log
  - Action Log
  - Resolved Items Log

#### Wireless Monitoring Enhancements

- > Group wireless devices by OUI prefix and MAC address
- > New Client Group reports - Bandwidth, RSSI, SNR and Association
- > New Individual Client reports – Bandwidth, AP, SSID, RSSI, and SNR

#### General Enhancements

- > Configure security-group level permissions for device groups
- > UTF-8 character support to send email alerts in native languages
- > Cryptographic library standard across all WhatsUp Gold products, including plugins
- > New Access Admin Console login user right, restricting access to the WhatsUp Gold Console
- > Tighter restrictions to control user access for database changes

### WUG 16.2

#### Wireless Monitoring Enhancements

- > Support for Cisco Small Business (Cisco WAP321), Meru Networks and Ruckus wireless devices

#### Support for Cisco Nexus Devices

- 2000, 3000, 5000 & 7000

#### IPv6 Support

- > Discovery and management of native IPv6 devices, native IPv4 devices, and dual-stack IPv4/IPv6 network environments

#### File Monitoring Enhancements

- > The File Properties monitor now allows for monitoring the age of a file.
- > The File Properties monitor and the Folder monitor support percent (%) variables

#### Microsoft Windows Server 2012 operating system support.

#### Microsoft SQL Server 2012 database system support

#### Application Performance Monitor

- > Unix Scripting support for APM SSH actions
- > Added six Interface components that can be monitored in APM application profiles

#### Flow Monitor

- > Accept IPv4 data via pure IPv6 network

#### WhatsConfigured

- > Devices with IPv6 IP addresses are now discovered and display corresponding IPv6 address information
- > Support for Brocade/Foundry, Enterasys, HP-3COM, Juniper, and Avaya/Nortel
- > Support for SCP and SFTP
- > Two new secure upload scripts that use either SCP or SFTP to upload startup config and running config files

### WUG 16.3

#### User Experience Enhancements

- > Refreshed the User Interface for improved look-and-feel
- > Streamlined the application installer
- > Improved Setup Wizard
- > Apply configured blackout schedules to individual actions when configuring notification policies
- > Additional methods to more easily place devices into Maintenance Mode
- > Repeat Action feature to the Action Library so that alerts can continue to be sent
- > Improved the web console screen refresh functionality to allow for specific elements of the interface to refresh
- > Improved web alarm popup dialog to acknowledge a device simultaneously when the corresponding alarm is dismissed

#### File Monitoring

- > Enhanced the File Properties Monitor to support a File was/was not modified within a given time period:

New role-based Exchange 2013 monitoring makes it with Client Access Role, MailboxRole, IMAP4, and POP3 profiles.

Hyper-V 2012

IIS 8 and IIS 8.5

Active Directory 2012

SharePoint 2010

#### Flow Monitor

- > Support for Netflow-Lite - Catalyst 2960-X, 2960-XR, 2960-CX, and 3560-CX Series Switches