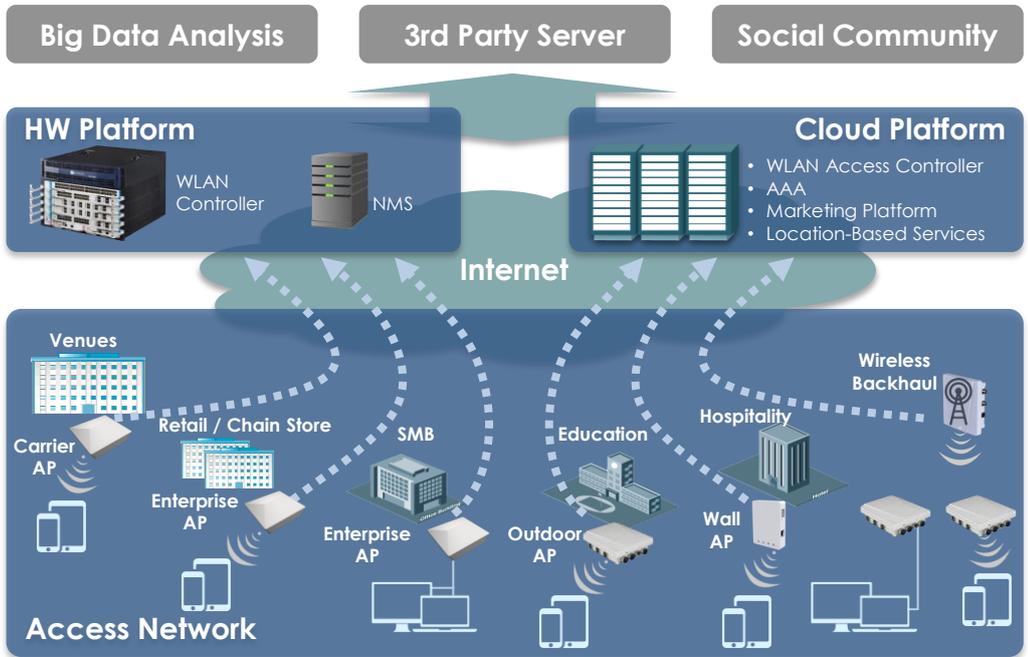




Features

- UNIFIED NETWORK MANAGEMENT
- WIRED AND WIRELESS PRODUCTS SUPPORT
- PROFESSIONAL TOPOLOGY MANAGEMENT
- REAL-TIME PERFORMANCE MONITORING
- RICH AND CUSTOMIZED REPORTS
- PROACTIVE ALARM NOTIFICATIONS: EMAIL & SMS

Comprehensive Wireless Network Management Platform



Description

The UT-View 4000 OMC-W 3.0.X is a network management system featuring friendly GUI and wide range of features for comprehensive management of wired and wireless networks. The system provides network topology display, device management, performance monitoring, configuration, software management, real-time alarm, log and report management.

The system offers comprehensive centralized management of wireless devices:

- Management page: Provides global view of the wireless network with customizable monitoring

indicators, i.e. out of service rate and idle AP for network optimization. Monitor the wireless network operation status via AC and AP alarm, rogue AP statistics, etc.

- Topology management: Real-time topology display of wireless device operation status.
- Hotspot management: Hotspot-based statistical analysis and management on APs. Hotspot diagram visualizes full details of AP distribution, signal coverage and user count, etc.
- Heat map diagram: Displays APs inside the hotspots visually, as well as the number of devices connected to the APs.
- Real-time spectrum analysis

including spectrum chart, duty cycle diagram over time, and real-time FFT chart.

- Wireless controller management: The wireless module centrally manages all ACs including interface configuration, performance monitoring, etc.
- FIT AP management: Device status, load management and scheduled Wi-Fi radio management.
- End user management: Provides details on number of access users, rates, users online/offline status, etc.
- Rogue AP countermeasure functions
- Troubleshooting assistant.



Product Details

HW PLATFORM REQUIREMENTS

AP quantity ≤ 10K

Processor	18-core CPU, >2GHz
Memory	32GB
Storage	500G
Network Interface	1000M or above

AP quantity ≤ 20K

Processor	22-core CPU, >2GHz
Memory	32GB
Storage	1T
Network Interface	1000M or above

AP quantity ≤ 30K

Processor	22-core CPU, >2GHz
Memory	64GB
Storage	2T
Network Interface	1000M or above

SW PLATFORM REQUIREMENTS

Operation System	Microsoft Windows Server 2003/2008/2012; Linux CentOS 6.6 64-bit
Database	MySQL5.5.19-win64; MariaDB

Platform Features

BASIC COMPONENT

B/S Architecture	The product implements pure B/S architecture. No client installation is required for users. Enables system access using any standard browsers.
System Management	System restart and shutdown using web browser; Monitor server CPU, memory and network card status; Retrieval of system operation logs via the web page.
License Management	File licensing mode.
System Integration	Integration of authentication-free feature of the network control interface with customer system. Forwarding of network management alert, syslog, trap to customer system. Integration with web services, or network management properties, alerts, performance data.
Unified Wired and Wireless Management	Unified wired and wireless management on devices such as Routers, Switches, POE Switches, WLAN Access Points and Wireless Access Controllers.
IP Surveillance	Low-threshold bandwidth monitoring, remote power management and flexible icon management.
Component Scalability	Wireless networking for the ease of future unified management and surveillance on wired and wireless devices.
Device Management	Supports variety of device management features, including good representation and basic operating features for creating, deleting or editing device interfaces and data. Batch software upgrade for multiple devices. A graphical representation of the actual physical boards, line cards and ports. Operation directly on the page. Auto software upgrade checking. Supports batch software upgrade. Management based on hierarchy and categorization. Enable users to set status of one device or multiple devices to be read-only, writable or hidden. For hidden devices, markings are required to be shown on topology. Editing of device information such as organization name, purchase date, warranty validity, etc.
Device Configuration Management	Auto retrieval of configuration files on regular basis and synchronization to management server. Comparison of collected data with previous configuration files. Notifications to an administrator via email if any difference is found. Graphical guidelines for fast ACL and QoS deployment.
Topology Management	Auto discovery of Layer 2 and Layer 3 network devices. Support auto topology formation. Discovery of WAN link topology. Support adding virtual nodes such as "building", "cloud", etc. Viewing of a customized topology by a designated IP range or through chosen devices. In every such topology diagram, only matching devices are shown. Auto discovery of routing topology, showing routing relation among devices in the system network layer. Export of current topology. Dynamic updates of network topology based on device and link status data collected in real time. Dual-link STP detection. The topology shows real-time status of both links respectively. Topology display in full screen. Under the full screen mode, proactively sends animated topology alerts. In the event of operating status changes or alerts triggered, the relative nodes in topology can be highlighted in real time. Virtual WLC topology and show many-to-one virtualization in topology in real time. Supports direct viewing of links and status of multiple device members on the topology. Image upload for background customization. Image upload for node icon customization. Traffic topology of the Weather Map mode.
Report Management	Customizable task for long-term surveillance of network performance. Supports report generation on a real-time or periodic basis. Report creation, search, editing, deletion. Report online viewing, import/export, etc. Periodic export and regular publishing. History report search.

* Denotes features available in a future release.



Platform Features

BASIC COMPONENT (Cont'd)

Real-time Alert	<p>The product supports variety of common alert categories. Support alert category customization based on the actual demand whenever necessary. Provides 10 common syslog alert customization lists.</p> <p>The product supports variety of common alert categories. Support alert category customization based on the actual demand whenever necessary. Provides 50 pre-defined trap alert customization lists.</p> <p>Supports setting performance indicator threshold as general, important or very important. When the indicator exceeds the threshold, respective alert will be sent based on the threshold value.</p> <p>Supports traffic lower limit alert. When the traffic is lower than the designated threshold, alert will be sent.</p> <p>Supports maintenance schedule for designated devices. Within such period maintenance, no alert will be sent.</p>
Key Link Detection	<p>Intelligent real-time detection for key links. Upon status changes, quickly locate failure. Supports multiple alert modes to notify the administrator to resume network service as soon as possible.</p>
Interface Mapping Management	<p>Regular collection of user devices IP, MAC, port mapping table. When there are abnormalities found in the mapping table, alert administrator as an event immediately.</p>
Compatibility	<p>The product supports standard SNMP MIP management base. Support management on mainstream vendor standard MIB device.</p>

WLAN COMPONENT

Topology Management	<p>Viewing of all wired and wireless devices on one single topology.</p>
Surveillance Statistics	<p>Accessibility and alert statistics for all wireless ACs and APs.</p> <p>User trend statistics for the whole network, hotspots, single AC and APs. Online user statistics for hotspots, single AC and APs.</p> <p>Logout rate statistics for the whole network, hotspots and single AP. Supports setting a time range for logout rate statistics.</p> <p>Idle AP statistics for the whole network. Supports viewing of Top N idle APs on a daily or monthly basis.</p> <p>Uplink and downlink rate statistics/Top N viewing for all hotspots and APs. Trend statistics for single hotspot, AP uplink and downlink rates.</p> <p>Surveillance indicator customization.</p>
Device Management	<p>Supports viewing of the following information in an AP: wireless radio table, device information, originating AC and hotspot, SSID, alert statistics, etc.</p> <p>Statistics of AP online user trend, bandwidth utilization trend, CPU/memory utilization trend and STA association failure causes.</p> <p>Radio on/off setting of AP.</p> <p>Manually add, delete and auto-discover AC.</p> <p>Supports connecting AC to Web network control and Telnet management.</p> <p>Supports viewing of the following information in an AC: device panel, device information, device status, management AP, SSID and alert statistics.</p> <p>AC statistics on current user trend, bandwidth utilization trend and CPU/memory performance trend.</p>
Wireless User Management	<p>Supports viewing of wireless user MAC, IP, online status, online duration, uplink/downlink rates, signal strength and device type.</p> <p>Supports viewing of user online/offline records including time of occurrence, action, user IP, WLAN ID, SSID, associated AP, originating AC, etc.</p> <p>Supports real-time surveillance on designated devices for uplink/downlink traffic trend and signal strength. Data update frequency <=5s.</p> <p>Supports designating several terminals as key end devices with operation quality surveillance. Issues alerts when packet retransmission rate exceeds the designated threshold. Issues alerts when abnormal behavior is found in the key end devices. Such events include offline, association/online failure, etc.</p>

* Denotes features available in a future release.

Supported Reports

Reports	Product description
Device Asset Summary	<p>Device manufacturer summary</p> <p>Device model summary</p> <p>Device information summary</p> <p>Software version summary</p> <p>Hardware version summary</p>
Alarm Summary	<p>Global alarm statistics</p> <p>Global faulty device statistics</p> <p>Device alarm summary</p> <p>Alarm group summary</p>
AP Utilization Report	<p>Number of AP STAs</p> <p>AP rate</p> <p>AP utilization details</p>
AC Utilization Report	<p>Number of AC STAs</p> <p>AC rate</p> <p>AC utilization details</p>
Idle AP Statistics Report	<p>Idle AP daily statistics</p> <p>Idle AP monthly statistics</p>
Out-of-service Rate Statistics Report	<p>Global out-of-service rate</p> <p>AP out-of-service rate</p> <p>Hotspot out-of-service rate</p>
Traffic Statistics Report	<p>AP traffic statistics</p> <p>Hotspot traffic statistics</p> <p>Per SSID traffic usage and STA count*</p>
AP Channel Report*	<p>Per AP channel and power rating changes*</p> <p>Per AP 2.4G & 5G channel usage*</p>



Ordering Information

Product name	Product description
UT-View 4000 OMC-W Base 3.0.X	Intelligent network management system - Base component
UT-View 4000 OMC-W Topo 3.0.X	Intelligent network management system - Topology component
UT-View 4000 OMC-W WLAN 3.0.X	Wireless management component (with 10 devices license)
UT-View 4000-W3-LIC-1000	1000 devices license for OMC-W Base
UT-View 4000-W3-LIC-200	200 devices license for OMC-W Base
UT-View 4000-W3-LIC-100	100 devices license for OMC-W Base
UT-View 4000-W3-LIC-50	50 devices license for OMC-W Base
UT-View 4000-W3-LIC-25	25 devices license for OMC-W Base
UT-View 4000-W3-LIC-15	15 devices license for OMC-W Base
UT-View 4000-W3-WLAN-LIC-5000	5000 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-2000	2000 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-1000	1000 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-500	500 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-200	200 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-100	100 fit AP license for OMC-W WLAN
UT-View 4000-W3-WLAN-LIC-50	50 fit AP license for OMC-W WLAN

Platform Features

WLAN COMPONENT (Cont'd)

Wireless User Management (cont'd)	Supports viewing of end device statistical graphs of designated user group (hotspot). Presents graphs in terms of band (2.4G, 5G), connection protocols (802.11a/ 802.11b/ 802.11g/ 802.11n/802.11ac).
Spectrum Analysis	Supports 8 spectrum analysis: current interference table, spectrum diagram, real-time FFT diagram, FFT occupation ratio diagram, spectrum density diagram, channel occupation ratio diagram, channel occupation ratio trend diagram and power trend diagram.
Device Configuration Management	Configuration of AC system attribute, WLAN, security, interface, trap/syslog servers, etc. Synchronization of AC blacklist.
Wireless Tracking	Supports tracking of end device, authentication user, AP, AC, rogue AP based on IP, MAC, login user name, real user name, device name, SSID, AP location, AP channel*, AP power rating* or hotspot name. Per SSID traffic usage and STA count*, 2.4G & 5G channel usage*.
Rogue AP Management	Rogue AP table including rogue AP BSSID, SSID, channel, signal strength, vendor, finder AP and its location, single AP mode, countermeasure status, etc. AP operating mode and rogue AP countermeasure status statistics. Graphical configuration of AP operating mode (graphical guidelines for AP operating mode configuration). Supports setting of blacklist and whitelist.
Hotspot Heat Map Management	Import, export and manual editing of hotspot information. Existing APs management based on hotspots. Support statistics of SSID associated with hotspot, logout rate, associated user count and uplink/downlink rates. Floor plan import in .jpg, .png or .gif format. Support setting AP location on the floor plan and viewing of AP coordinates. Supports setting different kinds of obstacles. Support setting AP height and deployment scenario. Supports viewing of AP information, AP user information on heat map and adjusting AP channel. Heat map generation based on signal strength, rate, channel conflict (2.4G/5GHz).
Alert Management	The product supports variety of wireless alert categories. Supports alert category customization based on the actual demand whenever necessary. Provides 10 common syslog alert customization lists. The product supports variety of wireless alert categories. Supports alert category customization based on the actual demand whenever necessary. Provides 15 pre-defined trap alert customization lists.
Hierarchical Management	AC, hotspot and SSID management based on hierarchy and categorization.
Report Management	Customizable task for long-term surveillance of the network performance. Report generation on a real-time or periodic basis. Report creation, search, editing and deletion. Support report online viewing, import/export, etc. Support periodic export and regular publishing. History report search. Report data filtering based on AC, hotspot or SSID.
Compatibility	The product supports standard SNMP MIP management base. Support management on mainstream vendor standard MIB device.

* Denotes features available in a future release.

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