

# IMC

## Wireless Service Manager 7.3 (E0506P02)

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### Terminology

AC	Access Controller
Fat AP	Autonomous Access Points
Fit AP	Controlled Access Points

### What's New in this Release

The version IMC WSM 7.3 (E0506P02) can be upgraded from WSM 7.3 (E0506) and WSM 7.3 (E0506P01).

#### Features released in IMC WSM 7.3 (E0506P02)

- None.

## Features released in IMC WSM 7.3 (E0506P01)

- None.

## Features released in IMC WSM 7.3 (E0506)

- None.

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## Problems Fixed in this Release

IMC WSM 7.3 (E0506P02) fixes the following problems, including all bugs fixed after IMC WSM 7.3 (E0506).

### Resolved Problems in IMC WSM 7.3 (E0506P02)

1. Fixed security vulnerabilities PSRT110671 and PSRT110676.
2. An error occurs on WSM pages when an LDAP user is modified from the IMC platform.
3. No client data is displayed by clicking the client quantity (a non-zero value) in the fit AP list for an AP whose label has an apostrophe.
4. AC information synchronization failure.

### Resolved Problems in IMC WSM 7.3 (E0506P01)

1. Errors occur on the **Troubleshooting** page accessed from the **Operation** menu in the **Client List**.
2. When browser IE11 is used to add radios in batches, the **Radio List** does not respond.
3. On the **Wireless Monitoring Settings** page, the displayed **Monitoring Item Number** is not the actual number of items selected in the **By Report** tab.

### Resolved Problems in IMC WSM 7.3 (E0506)

1. The system fails to deploy HP WSM 7.3 (E0505) Enterprise on a non-default instance when Oracle database 12c is used.
2. An alarm is generated because a radio of an online AP associated with the HP Comware AC is disabled and the channel usage of the radio is a random value.
3. An error occurs on the page while the realtime troubleshooting report for a fit AP is being exported.
4. Fat APs are displayed in the AC topology on the **ACs** page.
5. The content style is incorrect in the **Related Operations** field on some pages, including the **Service Policy Management** page.
6. The SSID field displays garbled characters in the **Detected AP List** for WIPS.
7. Click the number of online fit APs managed by an AC in the **AC List**, and the page that opens displays all fit APs managed by the AC.

8. The system fails to sort radios by status in the **Radio List**.
9. The **Synchronize AP Label** button is unavailable after the fit AP list of an AC is refreshed by clicking the **Refresh** button.
10. The navigation tree cannot be displayed if a level-2 menu item under **WLAN Manager** in the **Service** tab is clicked.
11. The wireless process operates correctly for a period of time and then stops unexpectedly after a network evaluation task is created.

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## WSM Software Distribution Contents

The WSM 7.3 (E0506P02) distribution list contains the following files and programs:

1. **WSM\manual\readme\_wsm\_7.3 (E0506P02).html** - This file
2. **WSM\install** - WSM installation program

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## Installation Prerequisites

### Server Requirements

Windows (32 bit)

Size			System Requirements (Lowest Requirements)				
Nodes	Performance Collecting Units	On-line operators	CPU (Speed >= 2.5GHz)	Memory	Java heap size	Disk Size of IMC Installing	Disk Size of IMC Running
Fit AP: 0~500 or Fat AP: 0~300	0~50K	10	2CPU	4G	1G	3GB	60GB

Windows (64 bit) (Recommended)

Size	System Requirements (Lowest Requirements)

<b>Nodes</b>	<b>Performance Collecting Units</b>	<b>On-line operators</b>	<b>CPU (Speed &gt;= 2.5GHz)</b>	<b>Memory</b>	<b>Java heap size</b>	<b>Disk Size of IMC Installing</b>	<b>Disk Size of IMC Running</b>
Fit AP: 0~500 or Fat AP: 0~300	0~50K	10	2CPU	4G	1G	3GB	60GB
Fit AP: 500~1000 or Fat AP: 300~700	16K~90K	10	4CPU	8G	4G	3GB	100GB
Fit AP: 1000~3000 or Fat AP: 700~2000	32K~150K	10	6CPU	16G	6G	4GB	200GB
Fit AP: 3000~5000 or Fat AP: 2000~3000	100K~250K	10	8CPU	24G	8G	5GB	250GB
Enterprise Network: Fit AP: 5000~10000 or Fat AP: 3000~5000	160K~400K	10	12CPU	32G	12G	7GB	300GB
Service provider: Fit AP: 5000~8000 or Fat AP: 3000~5000	160K~400K	10	12CPU	32G	12G	7GB	300GB

Linux (32 bit)

<b>Size</b>			<b>System Requirements (Lowest Requirements)</b>				
<b>Nodes</b>	<b>Performance Collecting Units</b>	<b>On-line operators</b>	<b>CPU (Speed &gt;= 2.5GHz)</b>	<b>Memory</b>	<b>Java heap size</b>	<b>Disk Size of IMC Installing</b>	<b>Disk Size of IMC</b>

							<b>Running</b>
Fit AP: 0~500 or Fat AP:0~300	0~50K	10	2CPU	4G	1G	3GB	60GB

Linux (64 bit) (Recommended)

Size			System Requirements (Lowest Requirements)				
Nodes	Performance Collecting Units	On-line operators	CPU (Speed $\geq$ 2.5GHz)	Memory	Java heap size	Disk Size of IMC Installing	Disk Size of IMC Running
Fit AP: 0~500 or Fat AP:0~300	0~50K	10	2CPU	4G	1G	3GB	60GB
Fit AP: 500~1000 or Fat AP: 300~700	16K~90K	10	4CPU	8G	4G	3GB	100GB
Fit AP: 1000~3000 or Fat AP: 700~2000	32K~150K	10	6CPU	16G	6G	4GB	200GB
Fit AP: 3000~5000 or Fat AP: 2000~3000	100K~250K	10	8CPU	24G	8G	5GB	250GB
Enterprise Network: Fit AP: 5000~10000 or Fat AP: 3000~5000	160K~400K	10	12CPU	32G	12G	7GB	300GB
Service provider: Fit AP: 5000~8000 or Fat AP:	160K~400K	10	12CPU	32G	12G	7GB	300GB

3000~5000							
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The following are the minimum hardware requirements and supported software programs to run IMC:

- Operating system:
  - Windows Server 2008 X64 with Service Pack 2
  - Windows Server 2008 R2 X64 with Service Pack 1
  - Windows Server 2012 X64 with KB2836988
  - Windows Server 2012 R2 X64
  - Windows Server 2016 R1 X64
  - Red Hat Enterprise Linux 5.5 X64 (Enterprise and Standard versions only)
  - Red Hat Enterprise Linux 5.9 X64 (Enterprise and Standard versions only)
  - Red Hat Enterprise Linux 6.x X64 (Enterprise and Standard versions only)
  - Red Hat Enterprise Linux 7.x X64 (Enterprise and Standard versions only)
  
- VMware:
  - VMware Workstation 6.5.x
  - VMware Workstation 9.0.x
  - VMware ESXi Server 4.x
  - VMware ESXi Server 5.x
  - VMware ESXi Server 6.0
  - VMware ESXi Server 6.5
  
- Hyper-V:
  - Windows Server 2008 R2 Hyper-V
  - Windows Server 2012 Hyper-V
  - Windows Server 2016 Hyper-V
  
- Database
  - Microsoft SQL Server 2008 Enterprise Service Pack 3 (Windows only)
  - Microsoft SQL Server 2008 R2 Enterprise Service Pack 2 (Windows only)
  - Microsoft SQL Server 2012 Enterprise Service Pack 3 (Windows only)
  - Microsoft SQL Server 2014 Enterprise (Windows only)
  - Microsoft SQL Server 2014 SP2 Enterprise (Windows only)

- Microsoft SQL Server 2016 Enterprise (Windows only)
  - Microsoft SQL Server 2016 SP1 Enterprise (Windows only)
  - Microsoft SQL Server 2016 SP2 Enterprise (Windows only)
  - Microsoft SQL Server 2016 Standard (Windows only, Up to 1000 devices are supported)
  - Microsoft SQL Server 2016 SP1 Standard (Windows only, Up to 1000 devices are supported)
  - Microsoft SQL Server 2016 SP2 Standard (Windows only, Up to 1000 devices are supported)
  - Oracle 11g Release 1 (Linux only)
  - Oracle 11g Release 2 (Linux only)
  - Oracle 12c Release 1 (Linux only)
  - MySQL Enterprise Server 5.5 (Linux and Windows) (Up to 1000 devices are supported)
  - MySQL Enterprise Server 5.6 (Linux and Windows) (Up to 1000 devices are supported)
  - MySQL Enterprise Server 5.7 (Linux and Windows) (Up to 1000 devices are supported)
- IMC Platform Compatibility
    - HP IMC Platform version: HP IMC PLAT 7.3 (E0605P04) or later.

Note: 64-bit operating systems are recommended over 32-bit operating systems because of the larger amount of available memory for applications.

Note: Optimal hardware requirements vary with scale, other management factors, and are specific to each infrastructure. Please consult HP or your local account teams and precise requirements can be provided.

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## Client Prerequisites

### PC Requirements

- Minimum hardware requirements
  - 2.0 GHz processor
  - 4096 MB of RAM
  - 50 GB hard disk space

- Operating system
  - Windows XP SP3 or later (except the tablet mode and touch mode)
  
- Browser
  - IE 10 or 11 is recommended.
  - Firefox 50 or later is recommended.
  - Chrome 44 or later is recommended.
  - Turn off the pop-up blocking settings in the browser.
  - Add the IMC website to the trusted sites of the browser.
  - The recommended resolution width is 1280.
  - JRE 1.7.0\_update76 or later is recommended. If a client has no JRE, IMC prompts the user to install JRE for the client.

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## Upgrade

To upgrade WSM:

1. Back up the IMC database on the **Environment** tab in the Deployment Monitoring Agent.
2. Manually copy the IMC installation directory to a backup path.
3. Stop IMC in the Deployment Monitoring Agent.
4. Click **Install** on the **Monitor** tab of the Deployment Monitoring Agent.
5. Select the **install/components** directory in the upgrade package and click **OK**.
6. Click **OK** in the popup message dialog box.
7. Click **Start** in the **Upgrade Common Components** dialog box to upgrade common components.
8. After common components are upgraded, click **Close**.
9. In distributed deployment mode, stop the Deployment Monitoring Agent on the master server and restart the Deployment Monitoring Agent on every subordinate server. Click **Yes** in the popup message dialog box to upgrade common components on every subordinate server.
10. The Deployment Monitoring Agent displays all components that need to be upgraded. Click **OK** to start upgrading.
11. In distributed deployment mode, upgrade all components deployed on every subordinate server.
12. After all components are updated, start all processes in the Deployment Monitoring Agent.

For more information about installation procedures, see IMC deployment guides.



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## Removing WSM

You can remove WSM component through the Deployment Monitoring Agent. To do this, follow these steps:

1. In the Deployment Monitoring Agent window, click **Stop IMC** on the **Monitor** tab to stop all processes of IMC.
2. On the **Deploy** tab, right-click the WSM component, and select **Uninstall the Component** from the shortcut menu.
3. When an un-installation success dialog box appears, click **OK**.

If processes `imcwlandm`, `imcwlanperfdm`, and `imcwippsdm` are still in operation after IMC WSM 7.3 (E0505P02) is uninstalled, delete statements related to the three processes in file `QvProcessManager.xml` in directory `{%IMC_HOME%}\server\conf` and then restart IMC. Please first back up the file in case any mistakes occur.

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## Running the Deployment Monitoring Agent

The Deployment Monitoring Agent is a GUI program to manage the deployment of the IMC modules and monitor the performance and the state of processes of the IMC server. After the installation finished, the Deployment Monitoring Agent is automatically started to guide the user through deployment.

On Windows, run the Deployment Monitoring Agent by selecting **All Programs > Intelligent Management Center > Deployment Monitoring Agent** from the Start menu. On Linux, run the Deployment Monitoring Agent by executing `dma.sh` in the `deploy` directory of the IMC installation path.

If Deployment Monitoring Agent cannot start, make sure the HP IMC Server service is running. This service is automatically started along with the OS and runs as a daemon/background process. On Windows, you can start the service in Windows Services. On Linux, you can start the service with the `service imcdmsd start` command.

IMC must be started from the Deployment Monitoring Agent.

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# Starting IMC

To start IMC, click **Start IMC** on the **Monitor** tab of the Deployment Monitoring Agent.

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## Logging in to IMC through a Web Browser

Once the server is running, you can access the IMC user interface using a Web browser. Enter the following address in the Address Bar of a browser:

```
http://hostname:port/imc
```

Where *hostname* is the host name or IP address of the IMC server (the default is **localhost** if you launch the Web browser on the IMC server machine), and *port* is the Web server port (the default is 8080) used by IMC.

You can also access the IMC user interface with Web browser through HTTPS. Enter the following address in the address bar of a browser:

```
https://hostname:port/imc
```

Where *hostname* is the host name or IP address of the IMC Server (the default is **localhost** if you launch the Web browser on the IMC server machine), and *port* is the Web server port for HTTPS (the default is 8443) used by IMC.

When the IMC login page appears, use the username "admin" and password "admin" to log into IMC.

Refer to the IMC Online Help for details on how to add operators, and add your devices to IMC.

The default security level in the IE properties is High. If you try to log in to IMC with this default, the system will prompt "Content from the Web site listed below is being blocked by the Internet Explorer Enhanced Security Configuration." Click Add to add the IMC website to the trusted sites. If you do not add the IMC website to the trusted sites and determine not to display the prompt any more, you may fail to log in to IMC. To solve the problem, use either of the following methods:

1. Set the security level to **Medium**.
  - Start IE and select **Tools > Internet Options**.
  - Select the **Security** tab, and then click **Custom Level**.
  - In the popup dialog box, set the security level to **Medium**.
2. Add the website of the IMC server to the trusted sites.
  - Start IE and select **Tools > Internet Options**.
  - Select the **Security** tab, Select **Trusted sites**, and the click **Sites**.

- Add the website of the IMC server in the popup dialog box.

On your first access to IMC, the browser prompts "The application's digital signature cannot be verified. Do you want to run the application?" Below are the name "topo", and the publisher "IMC Development Team". Select the "Always trust content from this publisher" checkbox, and click **Run**.

On your first access to the realtime performance view, the system prompts you to install **Adobe Flash Player Installer**. Click **Install** to download the installer package and install the application. Without this application, the realtime performance view is not available.

*Note: In centralized deployment, when the "User Access Manager - User SelfService" component is deployed, you will enter the Self-Service login page rather than the IMC login page if you enter **http://hostname:port/** in the address bar. To enter the IMC login page, change the content of the **index.jsp** file in directory **\client\web\apps\ROOT** to `<% response.sendRedirect("/imc/index.jsp"); %>`.*

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## Monitoring the Server

On the **Monitor** tab of the Deployment Monitoring Agent, you can see the Disk Usage, CPU Usage, and Physical Memory Usage of the IMC server. On the **Process** tab of the Deployment Monitoring Agent, you can see all IMC processes and their running status. On the **Environment** tab of the Deployment Monitoring Agent, you can see the OS information and database usage.

You can see the monitoring data of the IMC server only when IMC is started. For information about starting IMC, see "[Running the IMC Server](#)."

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## Distributed Deployment

The IMC components can be installed on more than one server to meet specific performance requirements. A distributed IMC system typically has one master server with IMC Platform deployed and multiple subordinate servers with service components deployed.

To install IMC on a subordinate server, execute the **installslave.bat** file on Windows (or **installslave.sh** on Linux) by either double-clicking the file or running the command in the folder where **installslave.bat** (or **installslave.sh**) is located.

For information about deploying IMC in distributed mode, see IMC deployment guides.

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## Platform Specific Issues

### Windows - General Issues

- Please be especially careful about how filenames are capitalized and used. This is essential in order to ensure consistent behavior across platforms that might use case-sensitive file systems.

### Linux - General Issues

- The IMC server must be run from a root user account in order to receive SNMP traps, accept syslog messages, and facilitate ftp file transfers.
- UNIX filenames are case sensitive. Care must be taken when references are made to python scripts and xml files.

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## Port Usage

WSM uses the following ports.

Component	Subcomponent	Protocol	Port	Configurable	Use	Server	Client	Notes
WSM	--	TCP	61616	Yes	Used for communication in Master-Slave deployment environment.	IMC master server (all addressed)	All IMC users	None
WSM	--	TCP	22	Yes	SSH port, used to Configure device.	IMC master server (all addressed)	All IMC users	None

WSM	--	TCP	23	Yes	Telnet port, used to Configure device.	IMC master server (all addressed)	All IMC users	None
WSM	--	UDP	161	Yes	SNMP port, used to manage SNMP devices, elements.	IMC master server (all addressed)	All IMC users	None
WSM	--	TCP	1433	Yes	SQL Server database listening port (Windows only).	IMC master server (all addressed)	All IMC users	None
WSM	--	TCP	7668	Yes	Used to manage HP Wireless device.	IMC WSM server (all addressed)	All IMC users	None

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## Memory Allocation

The amount of memory allocated to the IMC jserver can be adjusted by a script. The memory size should be tuned to make use of as much memory as required by your particular IMC server. Move to the "client\bin" (or "client/bin" on Linux OS) sub-directory of the original IMC installation directory (using the "cd" command), and use the `setmem.bat` (or `setmem.sh` on Linux OS) script.

For example, to allocate 1024 MB RAM, move to the "installation directory\client\bin" (or "installation directory/client/bin" on Linux OS) directory, and run the script:

```
setmem.bat 1024 (Windows OS)
```

```
setmem.sh 1024 (Linux OS)
```

The default and maximum memory that can be allocated to the IMC jserver is listed below:

OS Type	Default allocable memory	Maximum allocable memory

Windows 64-bit	2048 MB	Depending on the physical memory
Linux 64-bit	2048 MB	Depending on the physical memory

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## Known Problems

### Installation/Upgrade/Patch

- For a correct installation, the installation path can contain letters, digits, underlines, and spaces, but cannot contain other special characters.
- The serial number of offline APs that never goes online cannot be displayed due to implementation.
- The radio information of offline APs cannot be displayed due to implementation.
- HP devices are not supported for location view history information.
- PB connection(configured via management >> management console on MSM device) failure between WSM and MSM device could cause the failure of configuration on MSM device.
- View detailed WLAN information for an HP device. The WPA encryption mode is not displayed.
- View detailed information about a client associated with an HP device. The information is not the same the actual condition.
- Click Synchronize, AuthorizeLocally, AcceptSuspicious, AcceptProducts, or RemoveandRediscover to change the work status of an HP Fit AP multiple times. The work status of the AP might be incorrect and the Action menu might disappear.
- Search Fit APs and clients in the Wireless Topology or Converged Topology by IP address. No Fit AP and client information is displayed.

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## Feature Support Matrix

This section describes the features that are supported by the device model types.

MSM Models NOT Supported by WSM: WSM does not support 5.4 or lower. These MSM devices can only run on MSM 5.2 and therefore are not supported by WSM: MSM 313,323.313R,323R.

Feature	HP MSM v5.5 to 6.5	HP Comware	Cisco	Aruba
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<p><b>Note: WSM does not support MSM versions 5.4 or lower.</b></p>	<ul style="list-style-type: none"> <li>• MSM710</li> <li>• MSM720</li> <li>• MSM760</li> <li>• MSM760B</li> <li>• MSM765zl</li> </ul>	<ul style="list-style-type: none"> <li>• HP 830</li> <li>• HP 850</li> <li>• HP 870</li> </ul>	<ul style="list-style-type: none"> <li>• Cisco 2106 Wireless LAN Controller</li> <li>• Cisco 5508 Wireless LAN Controller</li> <li>• Cisco Virtual Wireless Controller (AIR-CTVM-K9)</li> </ul>	<ul style="list-style-type: none"> <li>• Aruba 800</li> <li>• Aruba 3xxx</li> <li>• Aruba 70xx</li> <li>• Aruba 72xx</li> <li>• Aruba IAP 103</li> <li>• Aruba IAP 20x</li> <li>• Aruba IAP 21x</li> <li>• Aruba IAP 22x</li> <li>• Aruba IAP 31x</li> <li>• Aruba IAP 32x</li> <li>• Aruba IAP 33x</li> </ul>
<p><b>Topology management</b></p>				
<p>Displaying ACs and Fat APs in IP view</p>	Y	Y	No Fat AP	No Fat AP
<p>Wireless device topology</p>	Y	Y	Y	Y
<p>Location view topology</p>	Y	Y	Y	Y
<p>Wireless custom view topology</p>	Y	Y	Y	Y
<p>Physical connection between Fit APs and ACs in the Fit AP topology</p>	N	Y	Y	Y
<p>Operation about user management from online clients that attached to the AP</p>	Y	Y	Y	Y
<p><b>Resource group management</b></p>				
<p>WSM Home</p>	Partial	Y	Partial	Partial
<p>Category view</p>	Y	Y	Y	Y

Wireless custom view	Y	Y	Y	Y
Location view	Y	Y	Y	Y
AC Group (batch configuration profile deployed to a group of controllers) Only H3C supports	N	Y	N	N
AP uplink POE switch management -- used to managed the link between switch and the AP	N	Y	Y	Y
Fit AP group	Y	Y	Y	Y
AC Team - This is for 700 and 720, see the list of the controllers working as a team, # of the controller team, and data on it. (Team status)	Y	N	N	N
<b>Wireless location management</b>				
Wireless real-time location	N	Y	N	N
<b>GIS management</b>				
Displaying hotspots detail	Y	Y	Y	Y
Set default display position	Y	Y	Y	Y
Add hotspot	Y	Y	Y	Y
Update hotspot	Y	Y	Y	Y
Delete hotspot	Y	Y	Y	Y
GIS locating	Y	Y	Y	Y
Muti-key support	Y	Y	Y	Y
<b>WIDS management</b>				
Displaying lists of Rogue APs and Rogue clients	Y(6.0 after)	Y	N	N
Displaying details of	Y(6.0 after)	Y	N	N



Rogue APs and Rogue clients				
Setting rogue devices as friendly devices	Y(6.0 after)	Y	N	N
Configuring Wireless Intrusion Detection System policies	N	Y	N	N
Rogue AP counterwork	N	Y	N	N
<b>WIPS management</b>				
WIPS Configuration	N	Y	N	N
APs Detected	N	Y	N	N
Clients Detected	N	Y	N	N
SSIDs Detected	N	Y	N	N
Security Events	N	Y	N	N
Sensor Management	N	Y	N	N
Virtual Security Domain Management	N	Y	N	N
Dynamic Detection Information Management	N	Y	N	N
<b>Restful Interface</b>				
Query basic information of device	Y	Y	Y	Y
Query fault information of device	Y	Y	N	N
Query performance information of device	Y	Y	Y	Y
<b>Wireless service reports</b>				
Service Report	Not all reports	Y	Not all reports	Not all reports
Subordinate summary Report (NO LONGER IN WSM)	N	Y	N	N

<b>Wireless service alarms</b>				
802.11 AC	Y	Y	N	N
802.11 AP	Y	Y	N	N
802.11 Client	Y	Y	N	N
802.11 WIDS (Wireless Intrusion Detection System)	N	Y	N	N
NMS (IMC) Access Point: provides traps for the AP (lets you see if AP is online/offline)	Y	Y	N	N
<b>Wireless device management</b>				
AC management	Y	Y	Y	Y
Fat AP management	Y	Y	N	N
Fit AP management	Y	Y	Y	Y
Client management	Y	Y	Y	Y
WLAN management(SSID)	Y	Y	Y	Y
Radio management	Y	Y	Y	Y
<b>Configuration wizard</b>				
AC configuration wizard	Y	Y	Y	Y
Fat AP configuration wizard	Y	Y	N	N
<b>Policy configuration</b>				
Radio Policy	N	Y	Y	Y
Service Policy	Y	Y	Y	Y
<b>Template management</b>				
Creating Radio policy templates manually	N	Y	N	N
Displaying Radio	N	Y	N	N

policy template information				
Creating service policy templates manually	N	Y	N	N
Displaying service policy template information	N	Y	N	N
<b>Mesh management</b>				
MP policy management	N	Y	N	N
Mesh profile management	N	Y	N	N
Mesh interface configuration	N	Y	N	N
Configure peer MAC address	N	Y	N	N
<b>Energy policy management</b>				
Energy Policy Management	Partial	Y	N	N
<b>Network planning</b>				
AP Model Management	Y	Y	N	Y
Antenna Management	Y	Y	N	Y
AP Add Virtual AP	Y	Y	N	Y
<b>Performance statistics</b>				
displaying history trend graphs	Y	Y	Y	Y
displaying history information for ACs	Y	Y	Y	N
displaying history information for Fit APs	Y	Y	N	Y
displaying history information based on SSIDs	N	Y	N	N

displaying history information in location views	Y	Y	Y	Y
<b>Querying WLAN information</b>				
Querying WLAN information	Y	Y	Y	Y
<b>Operating system</b>				
Windows	Y	Y	Y	Y
Linux	Y	Y	Y	Y
<b>DataBase</b>				
Windows+SqlServer Windows+Mysql	Y	Y	Y	Y
Linux+Oracle Linux+Mysql	Y	Y	Y	Y

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## Report Support

This section list specifies which reports are or are not supported.

Report Name	Support	Field
AC Statistics Report	Partial	AC Name, IP Address, AP Number, Availability, Transmitted Traffic, Received Traffic, Max Transmit Speed, Avg Transmit Speed, Max Receive Speed, Avg Receive Speed, Max Online Client Number, Avg Online Client Number, AP Average Utilization, AP Peak Utilization, Total Client Online Duration, Avg Client Online Duration
AP Association Summary Report	N	None
AP Association Detail Report	N	None

AP Availability Detail Report	Y	All
AP Availability Summary Report	Y	All
Site Access Points and Neighbors	Y	All
Idle AP Statistics Report	N	None
Busy AP Statistics Report	N	None
Worst AP Statistics Report	N	None
AP Logoff Summary Report	Y	All
AP Logoff Detail Report	Y	All
AP Statistics Report	Partial	AP Name, AP Location, Availability, Transmitted Core Traffic, Received Core Traffic, Transmitted Radio Traffic, Received Radio Traffic, Max Transmit Speed, Avg Transmit Speed, Max Receive Speed, Avg Receive Speed, Max Online Client Number, Avg Online Client Number, AP Average Utilization, AP Peak Utilization, Total Client Online Duration, Avg Client Online Duration
Radio Error Report	Partial	AP Name, Radio ID, AP Location, FCS Error Frames
Radio Speed Report	Y	All
AP Traffic Summary Report	Y	All
AP Traffic Detail Report	Y	All
Radio Traffic Report	Y	All
AP Speed Report	Y	All
Radio Resource Usage Report	N	None
Rogue AP History Report	Y	All

Rogue AP Report	Y	All
Rogue Client History Report	Y	All
Rogue Client Report	Y	All
Current Associated Client Statistics Report	Y	All
SSID Statistics Report	Y	All
SSID Online Client Num Statistics Report	Y	All
Hotspot Statistics Report by AP	Y	All
Hotspot Statistics Report by Hotspot	Partial	Hotspot Name, AP Number, Online AP Number, Availability, Transmitted Traffic, Received Traffic, Max Transmit Speed, Avg Transmit Speed, Max Receive Speed, Avg Receive Speed, Max Online Client Number, Avg Online Client Number, AP Average Utilization, AP Peak Utilization, Total Client Online Duration, Avg Client Online Duration
Wireless Asset Statistics Report	Partial	exclude Max APs, Max Clients, Radios/Clients
Client Summary Report	Y	All
Client Detail Report	Y	All
Client Number Trendline Report	Y	All

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