Overview

HPE Intelligent Management Center Standard Software Platform

Models

HPE IMC Standard Software Platform with 50-node E-LTU	JG747AAE
Aruba IMC Standard Software Platform with 50-node E-LTU	JH704AAE

Key features

- Highly flexible and scalable deployment options
- Powerful administration control
- Rich resource management
- Detailed performance monitoring and management, flexible centralized reporting
- Fault, Configuration, Accounting, Performance and Security (FCAPS) capabilities
- Integration with Aruba AirWave ,ClearPass and HPE OneView
- Cisco Nexus support
- VxLAN support and API Enhancements

Product overview

The HPE Intelligent Management Center (IMC) Standard Software Platform is a comprehensive management platform that was built from the ground up to support the Fault, Configuration, Accounting, Performance, Security (FCAPS) model. It provides features and functions that are designed for comprehensive management of the network infrastructure. IMC was designed to provide the following functions:

- Supports the ITIL operational center of excellence IT practices model
- Uses a single-pane management paradigm to enable end-to-end business management of IT services
- Provides scalability by supporting distributed and hierarchical system architectures, through additional operating system and database support.
- Uses an SOA model to provide full resource, service, and user management.
- Enables the integration of traditionally separate management tools using a modular design.
- Enables enterprises to expand their infrastructure management in scale and to seamlessly accommodate new technologies at the same time.

IMC software supports the management of Hewlett Packard Enterprise and third-party devices, and is compatible with Microsoft® Windows® and Linux operating systems. IMC Standard software comes with an initial license for 50 managed devices. Additional node licenses are available to extend the node limit.

Features and Benefits

Management

- **Integration with Aruba AirWave, ClearPass, and HPE OneView**
  allows administrators from IMC to use AirWave for "user centric" wired management and wireless management while IMC provides edge to core infrastructure management, monitoring, and troubleshooting. Integration with ClearPass ensures IMC has the user context, allowing the administrator to easily associate an IP address to the logged on user. OneView integration automates the provisioning of ToR switches when VLANs are added.

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- **Role-based administrative controls**
  provides administrators with both the tools and the ability to grant access to only those features and resources operators need. IMC also provides controls and audit trails to support IT management best practices. IN IMC, management rights and access to all resources are granted through operator and device groups or custom views of the devices. Operator groups grant and restrict access to specific parts of IMC.
- **Resource management**
  provides comprehensive element management for multi-vendor devices via single Web portal. Administrators can access resources for managing and monitoring a device, add devices to the network, and view devices in a network topology, IP, or custom view. Administrators can see device health through the device details page, revealing real-time data, summary information, connectivity testing, and more; supports End-of-Life Notifications available as well
- **Virtualization management**
  - HPE IMC Software integrates management and the capability to integrate, discover, map, manage and monitor virtualized environments, helping to identify VM sprawl.
  - Provides insight and management of virtual networks, and reduces migration complexity by aligning as well as automating network policies with virtual images.
  - Supports VMware®, Hyper-V, and KVM; IMC Virtual Network Management Software; and automatic tracking of the network access port of virtual machines

- **Flexible, centralized reporting**
  offers administrator performance, operator performance, and resource reporting options for network assets, configuration and configuration changes, network device and link status, alarms, and network device health. Report types offered are in real-time and quick-custom. Device data is offered for status, label, IP address, MAC address, device type, model, vendor, location, and many more.
- **Global ACL management**
  provides operators with a comprehensive feature set for managing ACLs including viewing and configuring ACLs on devices managed by IMC, and importing ACLs. The ACL Manager supports basic, advanced, link, and user-defined ACLs. The ACL Assistant facilitates ACL template rule creation and easier management. The ACL Resource List provides a portal for viewing and managing ACLs with a Rule Set List. The ACL Deployment Wizard assists in the deployment of ACLs.
- **Configuration and change management**
  combines the tasks of network device change and configuration management to effectively manage devices and audit changes Like the IMC Resource Management feature, the Configuration Center has a portal for accessing most of IMC change and configuration management features. Operators can view and deploy software to devices, access configuration templates, utilize a system software library, clean the device for new deployments, and back the system up.
- **Compliance center**
  supports organization adherence to compliance policies and standards. This feature enables operators to create compliance policies and rules that check the configuration of devices.
- **Network asset management**
  tracks assets as well as changes to assets. This feature provides operators with a list of asset and drilldown capabilities into individual device details or device audit details. Operators can also query IMC for specific audit records and manage the device auditing process.
- **Real time fault management**
  integrates network management system of fault, performance, auditing, security, and configuration reduces the effort required to manage complex network infrastructures, allowing network managers to have one database of network devices in IMC that drives various tasks of network management. The database integrates with all IMC functions. The alarm or event management system in IMC uses the existing device database and generates alarms in events of interest.
- **Global VLAN management**
  gives administrators the ability to create standardized VLANs across all devices in the infrastructure that support VLANs. They can create VLANs, then add, configure, or remove them from all devices that support this feature. VLANs can be deployed in batch or individually for devices configuring

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VLANs. Administrators can also see VLANs on a topology view.

- **Customized functions and third-party device support**
  extends device management and configuration functions; users can either extend an existing function to support third-party devices by compiling interactive scripts and XML files, or customize a function by compiling interactive scripts, XML files, and UI configuration files.
- **Performance monitoring and management**
  provides the ability to monitor the performance of devices managed by IMC. The Performance Management features provide the ability to customize the collection, alarming, and presentation of performance data. IMC enables real-time and historical performance management for managed devices like routers and switches on data like IPSec VPNs, WSM, and QoS. Also customizable are threshold settings, performance views and data, and global monitors; real-time viewing.
- **Security Control Center**
  defines policies and enforces device settings consistently on selected devices; you can also use policies to manage VLANs and VLAN port settings or automatically apply a configuration template on newly discovered devices. Configure policies to send alarms when device configurations become noncompliant.
- **Network data collection**
  generates, packages, and sends archived information about your network, device, or IMC Software to the appropriate Hewlett Packard Enterprise support or sales organizations in one simple step; this feature gathers the data you selected and generates reports and data files containing the relevant information; it delivers the reports to your selected destination by email, FTP, SFTP, or to a file location.
- **Intuitive user interface**
  desktop UI provides up to eight customizable icon-based screen interfaces that can be organized along specific tasks. Includes many features enabling administrators and operators to manage the network infrastructure. IMC also provides operators with many paths to the same destination. Operators are provided with quick start guides. With the My Favorites feature, operators can create links to the IMC features they use most often.
- **eAPI library and third-party applications**
  the IMC eAPI library utilizes a RESTful implementation for simplified integration with HPE and third-party applications; eAPI calls are available in the library, which is included with IMC Standard software.
- **Highly flexible and scalable deployment models**
  helps deliver an extensive set of capabilities for managing large heterogeneous networks, and provides scalability and high availability through a flexible distributed deployment model. With its modular design, IMC software can be deployed across multiple servers to provide increased scalability and resilience.
- **Rich Resource management**
  provides network discovery and topology, including detailed inventory of the network and accurate depictions of how it is configured. Supported views include Layer 2 and 3 as well as VLAN topology and the ability to create custom views like a dashboard homepage. Customization enables administrators to organize and control the network infrastructure. Supports multidevice context, Intelligent Resilient Fabric, and End-of-Life Notifications via device discovery
- **Telnet/SSH proxy**
  with the Telnet/SSH proxy, an administrator can use a browser to remotely access and manage devices through Telnet/SSH without installing a Telnet/SSH tool on the PC client used to access the device. This promotes secure and controlled access to devices while providing auditing of changes on any device; supports SSH v1/v2
- **Service Monitor**
  monitors the availability and responsiveness of common network services via probes that you configure; the probes reside on local and remote IMC software agents and test services from servers and devices that you select when configuring the probes; monitor these protocols: DNS, FTP, HTTP, TCP, UDP, VoIP (using NTA module), SMTP, DHCP, ICMP, Radius, TACACS+
- **High availability (Optional add-on license)**

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Provides high availability (HA) for the IMC system by offering one or multiple standby IMC servers for redundancy. IMC HA can be implemented using a deployment with a remote database or shared storage.

Warranty and support

- **Electronic and telephone support**
  Limited electronic and business-hours telephone support is available from Hewlett Packard Enterprise; to reach our support centers, refer to **http://www.hpe.com/networking/contact-support**; for details on the duration of support provided with your product purchase, refer to **http://www.hpe.com/networking/warrantysummary**
- **Software releases**
  to find software for your product, refer to **http://www.hpe.com/networking/support**; for details on the software releases available with your product purchase, refer to **http://www.hpe.com/networking/warrantysummary**

HPE IMC Standard Software Platform with 50-node E-LTU (JG747AAE)
Aruba IMC Standard Software Platform with 50-node E-LTU (JH704AAE)

Minimum system hardware	Server: Intel® Pentium® 4 3.0 GHz 4 GB RAM memory 50 GB storage 10/100 Mbps NIC Video card supporting 1024 x 768 resolution and sound card Client: Intel® Pentium® 4 2.0 GHz 2 GB RAM memory 50 GB storage 10/100 Mbps NIC Video card supporting 1024 x 768 resolution and sound card
System requirements, recommended	Server: 3.0 GHz Intel® Xeon® or Intel® Core™ 2 Duo processor or equivalent 4 GB RAM memory 100 GB storage 10/100 Mbps NIC Video card supporting 1024 x 768 resolution and sound card
Software (required)	Server: Operating system: Red Hat Enterprise Linux 5.5 (Enterprise and Standard versions only) Red Hat Enterprise Linux 5.5 X64 (Enterprise and Standard versions only) Red Hat Enterprise Linux 5.9 (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) Windows Server 2008 R2 with Service Pack 1 Windows Server 2008 R2 X64 with Service Pack 1 Windows Server 2008 with Service Pack 2 Windows Server 2008 X64 with Service Pack 2 Windows Server 2012 R2 X64 Windows Server 2012 X64 with KB2836988 Database: Microsoft SQL Server 2008 Service Pack 3 (Windows only) Microsoft SQL Server 2008 R2 Service Pack 2 (Windows only) Microsoft SQL Server 2012 Service Pack 2 (Windows only) Microsoft SQL Server 2014 (Windows only) Oracle 11g Release 1 (Linux only) Oracle 11g Release 2 (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)
Recommended software	Client: Windows XP SP3 or later
Browser supported	IE 10 or 11 Firefox 30 or later Chrome 35 or later

Technical Specifications

Hypervisor	VMware Workstation 6.5.x VMware Workstation 9.0.x VMware ESX Server 4.x VMware ESX Server 5.x Windows Server 2008 R2 Hyper-V Windows Server 2012 Hyper-V
Notes	Operating systems marked X64 are recommended. Client: JRE 1.6.0_update 27 or later is recommended. For fewer than 500 nodes, 1 CPU is sufficient; From 500 to 2,000 nodes, there should be 2 CPUs or 1 dual-core CPU; For more than 2,000 nodes, there should be 4 CPUs or 2 dual-core CPUs.
Services	Refer to the Hewlett Packard Enterprise website at **http://www.hpe.com/networking/services** for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE Intelligent Management Center Standard Software Platform accessories

License

HPE IMC Standard and Enterprise Additional 50-node E-LTU	JG749AAE
Aruba IMC Standard and Enterprise Additional 50-node E-LTU	JH714AAE
HPE PCM+ to IMC Standard Software Platform Upgrade with 200-node E-LTU	JG768AAE
HPE Intelligent Management Center High Availability Software E-LTU	JG771AAE
Aruba IMC High Availability Software E-LTU	JH711AAE

Software

HPE IMC Wireless Service Manager Software Module 50 Access Point E-LTU	JF414AAE
HPE IMC User Access Manager Software Module with 50-user E-LTU	JG752AAE
HPE IMC Endpoint Admission Defense Software Module with 50-user E-LTU	JG754AAE
HPE IMC TACACS+ Authentication Manager Software Module with 50-node E-LTU	JG764AAE
HPE IMC Network Traffic Analyzer Software Module with 5-node E-LTU	JG750AAE
Aruba IMC Network Traffic Analyzer Software Module with 5-node E-LTU	JH706AAE
HPE Intelligent Management Center QoS Manager E-LTU	JF408AAE
HPE IMC MPLS VPN Software Module with 50-node E-LTU	JF410AAE
HPE IMC Intelligent Analysis Reporter Software E-LTU	JG138AAE
HPE IMC Service Operation Management Software Module E-LTU	JG139AAE
HP IMC IPSec VPN Manager Software Module with 25-node E-LTU	JG144AAE
HP IMC Branch Intelligent Management System Software Module with 50-node E-LTU	JG265AAE
Aruba IMC Branch Intelligent Management System Software Module with 50-node E-LTU	JH708AAE
HPE IMC Service Health Manager Software Module E-LTU	JG398AAE
Aruba IMC Service Health Manager Software Module E-LTU	JH710AAE
HPE IMC Application Performance Manager Software Module 25-monitor E-LTU	JG489AAE
Aruba IMC Application Performance Manager Software Module with 25-monitor E-LTU	JH712AAE
HPE IMC VAN Connection Manager Software Module with E-LTU	JG494AAE
HPE IMC Remote Site Manager Software Module with E-LTU	JG495AAE
HPE IMC User Behavior Auditor Software Module with 50-user E-LTU	JG760AAE
HPE IMC Virtual Application Networking Fabric Manager Software E-LTU	JG770AAE
HPE IMC Virtual Application Networking Resource Automation Manager Software E-LTU	JG826AAE
HPE IMC Virtual Application Networking Software Defined Network Manager Software E-LTU	JG827AAE
HPE IMC Unified Communications Health Manager SW Module 2-monitor E-LTU	JG930AAE
HPE IMC Business Service Performance Software Module E-LTU	JH320AAE

Summary of Changes

Date	Version History	Action	Description of Change
06-Feb-2017	From Version 13 to 14	Added	Model added: JH704AAE SKUs added: JH714AAE, JH711AAE, JH706AAE, JH708AAE, JH710AAE, JH712AAE
05-Dec-2016	From Version 12 to 13	Changed	Software feature update
17-June-2016	From Version 11 to 12	Changed	Product description updated.
11-Dec-2015	From Version 10 to 11	Removed	SKU removed: JG399AAE
01-Dec-2015	From Version 9 to 10	Changed	QuickSpecs name changed to HPE Intelligent Management Center Standard Software Platform Product overview, Features and benefits and Technical Specifications were updated
29-Sep-2014	From Version 8 to 9	Changed	The QuickSpecs was completely revised
18-Sep-2014	From Version 7 to 8	Changed	Changes made on Features and Benefits
30-Sep-2013	From Version 6 to 7	Changed	The Product overview, Key Features, Features and Benefits, model specifications and Options were updated.
13-Jun-2013	From Version 5 to 6	Removed	License models were removed.
19-Feb-2013	From Version 4 to 5	Changed	The Product overview, Key Features, Features and Benefits, model specifications and Options were updated.
13-Feb-2012	From Version 3 to 4	Changed	The Features and Benefits, model names and Options were updated.
06-Apr-2011	From Version 2 to 3	Changed	The QuickSpecs was completely revised, including updating the title.
01-Mar-2011	From Version 1 to 2	Changed	An issue with the QuickSpecs PDF was corrected.

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