

Overview

HPE Intelligent Management Center Enterprise Software Platform

Models

HPE IMC Enterprise Software Platform with 50-node E-LTU

JG748AAE

Aruba IMC Enterprise SW Platform with 50-node E-LTU

JH705AAE

Key features

- Highly flexible and scalable deployment options
- Powerful administration control
- Rich resource management
- Flexible centralized reporting
- The WSM and NTA modules along with the eAPI library are included in the IMC Enterprise platform
- Integration with Aruba AirWave ,ClearPass and HPE OneView
- Cisco Nexus support
- VxLAN support and API Enhancements

Product overview

The HPE Intelligent Management Center (IMC) Enterprise 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 is compatible with Microsoft® Windows® Server as well as Red Hat Linux and supports the management of Hewlett Packard Enterprise and third-party devices. The base license supports 50 devices, five nodes of IMC NTA, the eAPI library and WSM with 50 AP nodes. Additional licenses are available for purchase.

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.
- **Resource management**
provides comprehensive element management for multi-vendor devices using a single Web portal. Operators have access

Overview

to a feature set for managing and monitoring many different networking devices and can manage them individually or in a group. Operators can also add devices manually, by CSV file, or through auto-discovery. Operators can view devices by topology, IP view, device view, and custom view and see key device details.

- **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 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.
- **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. Allows real-time viewing.
- **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 by template. Other reports offered include real-time reports and ick custom reports. Quick custom reports give device and link reports. Device reports give information like IP address, status, location, hardware/software version on devices while link reports show connected to either end of a link. Reports can be customized in the interfaced to meet specific needs.
- **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.
- **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. Management rights and access to all resources managed by IMC are granted through operator groups, device groups, and custom views of the devices. An administrator can use operator groups to grant or restrict access to a variety of IMC features.
- **Compliance center**
IMC includes predefined policies for the compliance center as well as alarm generation when devices fail compliance checks
- **Network asset management**
administrators and operators can track 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 an events of interest.
- **Customized functions and third-party device support**
IMC Enterprise Software 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.
- **Security Control Center**

Overview

the Security Control Center can be used to define policies and enforce 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, either 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.
- **Includes Wireless Services Manager Module**
Manages HPE Aruba Wireless devices, HPE MSM series ACs, fat APs (also called autonomous APs), and fit APs (also called controlled APs) and manages Comware-based ACs, fat APs, and fit APs. It also supports many Cisco wireless devices. (Consult Hewlett Packard Enterprise about the models supported by WSM). Supports 50 APs, with additional 50 APs licenses optionally available
- **Network traffic analyzer**
informs administrator of real-time network bandwidth consumption by users. IMC Enterprise Software includes 5 nodes.
- **Extensible platform and module services**
IMC Software has an open platform to support a service-oriented architecture (SOA); features within the software can be integrated with third-party software, utilizing the available APIs
- **Features-based administrative controls**
supports secure operator access to IMC via LDAP or RADIUS authentication, the ability to view the online activity of IMC operators, logging operator access temporarily or permanently, IP-address access, as well as audit trails that detail changes that IMC operators have made to devices in the infrastructure.
- **eAPI library and third-party applications**
the IMC eAPI library utilizes a RESTful implementation for simplified integration with Hewlett Packard Enterprise and third-party applications. eAPI calls are available in the library, which is included with IMC Enterprise software.
- **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+
- **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
- **High Availability**
provides high availability (HA) for the IMC system by offering one or multiple standby IMC servers for redundancy. IMC HA can be implemented with a deployment with a remote database or shared storage. (Optional add-on license)

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>

Technical Specifications

HPE IMC Enterprise Software Platform with 50-node E-LTU (JG748AAE)

Aruba IMC Enterprise SW Platform with 50-node E-LTU (JH705AAE)

Minimum system requirements

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

Hypervisor

VMware Workstation 6.5.x
 VMware Workstation 9.0.x
 VMware ESX Server 4.x
 VMware ESX Server 5.x

Technical Specifications

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. For more than 5,000 nodes, a hierarchy architecture is needed.

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.

Accessories

HPE Intelligent Management Center Enterprise 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 IMC Network Traffic Analyzer Software Module Additional 5-node E-LTU | JG751AAE |
| Aruba IMC Network Traffic Analyzer Software Module with 5-node E-LTU | JH706AAE |
| HPE Intelligent Management Center High Availability Software E-LTU | JG771AAE |
| Aruba IMC High Availability Software E-LTU | JH711AAE |
| HPE IMC Wireless Service Manager and Real Time Location Services Additional 50-node E-LTU | JG759AAE |
| HPE IMC Wireless Service Manager/Real Time Spectrum Guard E-LTU | JG816AAE |
| HPE Intelligent Management Center Wireless Service Manager/WIPS with 50-sensor E-LTU | JH046AAE |
| HPE Intelligent Management Center Wireless Service Manager/WIPS Additional 50-sensor E-LTU | JH047AAE |

Software

| | |
|--|----------|
| 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 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 11 to 12 | Added | Model added: JH705AAE SKUs added: JH714AAE, JH711AAE, JH706AAE, JH708AAE, JH710AAE, JH712AAE |
| 05-Dec-2016 | From Version 10 to 11 | Changed | Software feature update |
| 17-June-2016 | From Version 9 to 10 | Changed | Product description updated. |
| 11-Dec-2015 | From Version 8 to 9 | Added | SKUs added: JF415AAE, JG142AAE, JG759AAE, JG816AAE, JH046AAE, JH047AAE |
| 01-Dec-2015 | From Version 7 to 8 | Changed | QuickSpecs name changed to HPE Intelligent Management Center Enterprise Software Platform Product overview, Features and benefits, Technical Specifications and Accessories were updated |
| 29-Sep-2014 | From Version 6 to 7 | Changed | The QuickSpecs was completely revised |
| 30-Sep-2013 | From Version 5 to 6 | Changed | The Product overview, Key Features, Features and Benefits, model specifications and Options were updated. |
| 13-Jun-2013 | From Version 4 to 5 | Removed | License models were removed. |
| 19-Feb-2013 | From Version 3 to 4 | Changed | The Product overview, Key Features, Features and Benefits, model specifications and Options were updated. |
| 13-Feb-2012 | From Version 2 to 3 | Changed | The Features and Benefits, model names and Options were updated. |
| 06-Apr-2011 | From Version 1 to 2 | Changed | The QuickSpecs was completely revised. Please note the title has changed as well. |



Sign up for updates

© Copyright 2017 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

To learn more, visit <http://www.hpe.com/networking>

Intel Pentium, Intel Core, and Intel Xeon are trademarks of Intel Corporation in the U.S. and other countries. Microsoft, Windows, and Windows Server are trademarks of the Microsoft Group of companies. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions.

Oracle is a registered trademark of Oracle and/or its affiliates.

Red Hat is a registered trademark of Red Hat, Inc. in the United States and other countries.



c04111578 - 13832 - Worldwide - V12 - 6-February-2017