HPE Intelligent Management Center Standard Software Platform

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 within the IMC Platform

- Integration with Aruba AirWave, Aruba ClearPass and HPE OneView[1]

- Alarm Correlation

- Cisco Nexus support

- EVPN VxLAN support

- Comprehensive eAPIs

- Arista Device support phase I

[1] Integration in this context means you have the navigation capability within IMC to access Aruba AirWave, Aruba ClearPass and HPE OneView, you do require having the respective management applications installed in your environment.

Product overview

IMC 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 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
• Aruba AirWave, Aruba ClearPass, HPE OneView—providing best of breed Management

   HPE OneView provides integration that automatically supports the provisioning of ToR switches when new VLANs are added, making it easier and more efficient for network administrators to navigate between these management platforms.

• Aruba AirWave and Aruba ClearPass integration

   Customers now have direct integration between the IMC Platform and AirWave. IMC will have a full understanding of the Wired and Wireless infrastructure allowing us to continue to have value add features like the converged topology view etc. The user will also have context sensitive launch to specific AirWave functionality as required to manage and trouble shoot their Wired/Wireless HPE Aruba networks.

   ClearPass integration between IMC and ClearPass maintains the benefits of User context that is available today with IMC and UAM.

   Examples of this include being able to see who is logged into a specific IP address when looking at the NTA (Network Traffic Analyzer) traffic, as well the ability via UBA (User Behavior Auditor) to see what specific users where doing on the network at a particular time.

   All of these added integration efforts provide customers simplified access to these best of breed network management applications.

• 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 multivendor devices using a single Web portal. Administrators can access resources for managing and monitoring many aspects of a device, add devices to the network, and view devices in a network topology, IP, or custom view. Additionally, administrators can ascertain the health of a device through the device details page, which reveals real-time data, summary information, connectivity testing, and more. Supports End-of-Life Notifications available as well.

- Virtualization management

  – HPE IMC Software is one of the first management tools to integrate management and monitoring of both virtual and physical networks.

  – 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 also supports 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 up the system.

- Compliance center

  Supports the organization's 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 drill down 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 fault, performance, auditing, security, and configuration as well as 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 VLANs. Administrators can also see VLANs on a topology view.

- Customized functions and third-party device support

IMC Standard 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.

- Performance monitoring and management

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.

- Security Control Center

Defines policies and enforces device settings consistently on selected devices. 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 non-compliant.

- 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 8 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. eAPI calls are available in the library, 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 and Intelligent Resilient Fabric. Supports 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)

  Provides high availability 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.

Integration with Aruba AirWave, Aruba ClearPass and HPE OneView

- Intergradation and context sensitive cross launch to AirWave allows administrators to use AirWave for wireless management and wireless client trouble shooting, while IMC provides edge to core infrastructure management, monitoring and troubleshooting as well as the converged wired/wireless topology. Integration with ClearPass ensures IMC has the user context allowing the administrator to easily translate an IP address to the logged on user or perform user based queries. OneView integration automates the provisioning to ToR switches when a VLANs are added to a Virtual Connect LAG via OneView, eliminating the need for the OneView administrator to use multiple configuration tools.

Arista Device support phase I

Discovery, topology and monitoring—for Arista environments
EVPN/VxLAN support
- Allows networks to support more VLANs.

- You can theoretically create as many as 16 million VxLANs in an administrative domain (as opposed to 4094 VLANs)

- Supports Modern Data Center Architectures

Warranty and support
- Software releases

  To find software for your product, refer to **hpe.com/networking/support**; for details on the software releases available with your product purchase, refer to **hpe.com/networking/warrantysummary**.

HPE Intelligent Management Center Standard Software Platform

Specifications

	HPE IMC Standard Software Platform with 50-node E-LTU (JG747AAE) Aruba IMC Standard Software Platform with 50-node E-LTU (JH704AAE)*
Minimum system requirements	Server: Intel® Pentium® 4 3.0 GHz 4GB 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 2GB RAM memory 50 GB storage 10/100 Mbps NIC Video card supporting 1024 x 768 resolution and sound card
Systems requirements, recommended	Server: 3.0 GHz Intel® Xeon® or Intel® Core™ 2 Duo processor or equivalent 4GB 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 KB2936988 Database: Windows SQL Server 2008 Service Pack 3 (Windows only) Windows SQL Server 2008 R2 Service Pack 2 (Windows only) Windows SQL Server 2012 Service Pack 2 (Windows only) Windows 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

*Intended for Aruba customers and Sales

	HPE IMC Standard Software Platform with 50-node E-LTU (JG747AAE) **Aruba IMC Standard Software Platform with 50-node E-LTU (JH704AAE)***
Hypervisor	VMware Workstation 6.5.x VMware Workstation 9.0.x VMware ESC Server 4.x VMware ESC 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.
Platform required	Server: HPE Intelligent Management Center Enterprise Software HPE Intelligent Management Center Standard Software
Services	Refer to the Hewlett Packard Enterprise website at **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.

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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 IMC Branch Intelligent Management System Software Module Additional 50 node E-LTU(JG762AAE) Aruba IMC Branch Intelligent Management System Software Module with additional 50-node E-LTU (JH709AAE)* HPE PCM+ to IMC Standard Software Platform Upgrade with 200-node E-LTU (JG768AAE) HPE IMC High Availability Software E-LTU (JG771AAE) Aruba IMC High Availability Software E-LTU (JH711AAE)* HPE IMC Application Performance Manager Software Module Additional 25-monitor E-LTU (JG763AAE) Aruba IMC Application Performance Manager Software Module Additional 25-monitor E-LTU(JH713AAE)*
Software	HPE IMC Intelligent Analysis Reporter Software E-LTU (JG138AAE) HPE IMC Service Health Manager Software Module E-LTU (JG398AAE) Aruba IMC Service Health Manager Software Module E-LTU (JH710AAE)* HPE IMC Remote Site Manager Software Module License with E-LTU (JG495AAE) HPE IMC User Access Manager Software Module with 50-user E-LTU (JG752AAE) HPE IMC Endpoint Admission Defense Software Module 50-user E-LTU (JG754AAE) HPE IMC TACACS+ Authentication Manager Software Module with 50-node E-LTU (JG764AAE) HPE IMC Virtualization Monitor Software with E-LTU (JG547AAE) HPE IMC Network Traffic Analyzer Module with 5-node E-LTU (JG750AAE) Aruba IMC Network Traffic Analyzer Software Module with 5-node E-LTU (JH706AAE)* HPE IMC QoS Manager Software Module E-LTU (JF408AAE) HPE IMC MPLS VPN Software Module with 50-node E-LTU (JF410AAE) HPE IMC Wireless Service Manager Software Module with 50-Access Point E-LTU (JF414AAE) HPE IMC Service Operation Management Software Module E-LTU (JG139AAE) HPE IMC IPSec VPN Manager Software Module with 50-node E-LTU (JG145AAE) HPE IMC Branch Intelligent Management System Software Module w/50-node E-LTU (JG265AAE) Aruba IMC Branch Intelligent Management System Software Module with 50-node E-LTU (JH708AAE)* HPE IMC Application Performance Manager Software Module with 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 User Behavior Auditor Software Module with 50-user E-LTU (JG760AAE) HPE IMC VAN Fabric Manager Software E-LTU (JG770AAE) HPE IMC VAN Fabric Manager Software E-LTU (JG770AAE) HPE IMC Business Service Performance Software Module E-LTU (JH320AAE)

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