HPE Intelligent Management Center Enterprise Software Platform

Key features

• Highly flexible, scalable deployment models
• 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 Software Platform
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 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 HPE 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

- Resource management
  
  Provides comprehensive element management for multivendor devices using a single Web portal. Operators have access 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 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.

- 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.
• 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 by template. Other reports offered include real-time reports and quick custom reports. Quick custom reports also give device and link reports. Device reports give information such as IP address, status, location, hardware, or software version on devices while link reports show connected to either end of a link. Reports can be customized in the interface 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
  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 of fault, performance, auditing, security, and configuration. It also 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.

• 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
  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 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 five 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 HPE and third-party applications; more than 200 eAPI calls are available in the library, which is included with IMC Enterprise Software.

• 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 after deployment with a remote database or shared storage.

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 Enterprise Software Platform

### Specifications

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

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<th>Minimum system requirements</th>
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<td>Refer to the IMC Enterprise Release Notes for details about minimum system requirements</td>
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#### Minimum system requirements

- **Server:**
  - Intel® Pentium® 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 2.0 GHz
  - 2 GB 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
  - 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
## HPE IMC Enterprise Software Platform with 50-node E-LTU (JG748AAE)

| Browser supported | IE 10 or 11  
Firefox 30 or later  
Chrome 35 or later |
|-------------------|--------------------------------------------------|
| Hypervisor        | VMware Workstation 6.5x  
VMware Workstation 9.0x  
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 CPU or 1 dual-core CPU. For more than 2,000 nodes, there should be 4 CPU 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 [hpe.com/networking/services](http://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 Enterprise Software Platform accessories license

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<td>HPE IMC TACACS+ Authentication Manager Software Module with 50-node E-LTU (JG764AAE)</td>
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<td>HPE IMC Application Performance Manager Software Module with 25-monitor E-LTU (JG489AAE)</td>
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<td>HPE IMC Branch Intelligent Management System Software Module with 50-node E-LTU (JG265AAE)</td>
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<td>HPE IMC IPSec VPN Manager Base LTU (JG144AAE)</td>
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<td>HPE Intelligent Management Center QoS Manager Software Module E-LTU (JF608AAE)</td>
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<td>HPE IMC Intelligent Analysis Reporting Module E-LTU (JG138AAE)</td>
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<td>HPE IMC Service Operation Management Software Module E-LTU (JG19AAE)</td>
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<td>HPE IMC Service Health Manager Software Module E-LTU (JG398AAE)</td>
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