

IMC

MPLS VPN Manager 7.2 (E0402)

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What's New in this Release

IMC MVM 7.2 (E0402) can be installed directly, or can only be upgraded from IMC MVM 7.1 (E0301) or later versions.

The following lists all features released after IMC MVM 7.1 (E0301).

Features released in IMC MVM 7.2 (E0402)

- Source IP can be specified in P2P Ping on MPLS VPN Topology.

Features released in IMC MVM 7.1 (E0301P04)

1. Maintainers can deploy VPN in L2VPN component.

Features released in IMC MVM 7.1 (E0301P03)

1. none.

Features released in IMC MVM 7.1 (E0301L02)

1. Added the function of checking PE and AC when deploy VPLS/PBB VPN for the MPLS L2VPN component.

Features released in IMC MVM 7.1 (E0301L01)

1. Added the function of checking multiple paths for the MPLS TE component.

Features released in IMC MVM 7.1 (E0301)

1. Added support for Html5 topo.
2. Added support for Web Desktop.

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Problems Fixed in This Release

IMC MVM 7.2 (E0402) fixes the following problems, including all bugs fixed after IMC MVM 7.1 (E0301).

Resolved Problems in IMC MVM 7.2 (E0402)

1. none.

Resolved Problems in IMC MVM 7.1 (E0301P04)

1. none.

Resolved Problems in IMC MVM 7.1 (E0301P03)

1. On the configuration page for undeployment, click Select to select a PBB VPN in the VPN Name field, select Undeploy AC in the Operation field, and click Next. On the AC List page, select one or multiple ACs, and click Next. On the Configuration Summary page, you can see that all ACs for the VPN are undeployed.
2. When a maintainer or viewer that has VPN management authority is modified, VPN information replication occurs in the L2VPN Privilege Management area. Remodifications lead to unlimited VPN information replication.
3. On the right side of the L2VPN topology page, double click a VPN in the VPN List. The device or link overlapping occurs on the topology for the VPN.

Resolved Problems in IMC MVM 7.1 (E0301L02)

1. none.

Resolved Problems in IMC MVM 7.1 (E0301L01)

1. none.

Resolved Problems in IMC MVM 7.1 (E0301)

1. none.

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MVM Software Distribution Contents

The IMC MVM 7.2 (E0402) distribution list contains the following files and folders:

1. **MVM\manual\readme_mvm_7.2 (E0402).html** - This file
2. **MVM\windows\install** - The IMC installation program for Window
3. **MVM\linux\install** - The IMC installation program for Red Hat Enterprise Linux

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Installation Prerequisites

Server Requirements

The following are the minimum hardware and software requirements for running IMC on a server:

- Minimum hardware requirements
 - Pentium 4 3.0 GHz processor
 - 4 GB of RAM
 - 50 GB hard disk space
- Operating system (Versions marked X64 are recommended):
 - Windows Server 2008 with Service Pack 2
 - Windows Server 2008 X64 with Service Pack 2
 - Windows Server 2008 R2 with Service Pack 1
 - Windows Server 2012 with KB2836988
 - Windows Server 2012 R2
 - 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 6.1 X64 (Enterprise and Standard versions only)
 - Red Hat Enterprise Linux 6.4 X64 (Enterprise and Standard versions only)
 - Red Hat Enterprise Linux 6.5 X64 (Enterprise and Standard versions only)

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

- Hyper-V:
 - Windows Server 2008 R2 Hyper-V
 - Windows Server 2012 Hyper-V

- 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)
- IMC Platform Compatibility
 - HP IMC Platform version: HP IMC PLAT 7.2 (E0402) 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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Installing and Upgrading MVM

To install MVM:

1. Before installing MVM, make sure that the IMC platform is installed correctly and the IMC platform version is IMC PLAT 7.2 (E0402) or later versions.

2. To install MVM, click **Install** button on the **Monitor** tab of the Intelligent Deployment Monitoring Agent, then select the *components* sub-directory of the upgrade package, and click **OK** button to launch the installation wizard.

To upgrade MVM:

1. Back up the IMC database on the Environment tab in Deployment Monitoring Agent.
2. Manually copy the IMC installation directory to a backup path.
3. Stop the IMC system in the Deployment Monitoring Agent.
4. Click **Install** button in the **Monitor** tab of the Deployment Monitoring Agent.
5. Select the *install/components* subdirectory of the upgrade package, and click **OK** button.
6. After the installation finishes, the Deployment Monitoring Agent will detect the components that need to be upgraded. Click **OK** button to start upgrading the components.
7. If this is a Distributed deployment, upgrade all components deployed on all slave servers separately.
8. After update, start all processes on the Deployment Monitoring Agent window.

For more information about installation and upgrade procedures, see *IMC Getting Started Guide* and IMC deployment guides.

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Removing MVM

You can remove MVM component through the intelligent deployment monitoring agent. To do this, follow these steps:

1. In the Intelligent 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 MVM component, and select **Uninstall the Component** from the shortcut menu.
3. When an un-installation success dialog box appears, click **OK**.

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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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TCP Port Usage

The MVM Server will BIND to and use the following TCP/IP Ports.

Component	Subcomponent	Protocol	Port	Configurable	Use	Server	Client	Notes
MVM	--	UDP	161	Yes	Used to access network elements through SNMP.	IMC MVM Server	All IMC users	None
MVM	--	UDP	162	Yes	Used to accept SNMP Traps from network elements.	IMC MVM Server	All IMC users	None
MVM	--	TCP	22	Yes	SSH/SFTP port, which the configuration center uses to back up and restore the device software and configuration file through SSH/SFTP.	IMC MVM Server	All IMC users	None
MVM	--	TCP	20/21	Yes	FTP port, which the	IMC MVM	All IMC	None

					configuration center uses to back up and restore the device software and configuration file through FTP.	Server	users	
MVM	--	TCP	23	Yes	Telnet port, which the resource management module, ACL management module, and configuration center use to access the device through Telnet.	IMC MVM Server	All IMC users	None
MVM	--	ICMP	--	Yes	ICMP port, which the resource management module uses to discover devices and check the reachability of the devices.	IMC MVM Server	All IMC users	None
MVM	--	UDP	69	Yes	IMC-specific TFTP daemon.	IMC MVM Server	All IMC users	None
MVM	--	TCP	80	Yes	Used to launch the web network management system of the device.	IMC MVM Server	All IMC users	None
MVM	--	TCP	443	Yes	HTTPS port, which the virtual network management	IMC MVM Server	All IMC users	None

						module uses to obtain VMware virtual network data in SSL.			
MVM	--	TCP	8080	Yes		IMC-specific web server for HTTP protocol (can be changed when installation).	IMC MVM Server	All IMC users	None
MVM	--	TCP	8443	Yes		IMC-specific web server for HTTPS protocol (can be changed when installation).	IMC MVM Server	All IMC users	None
MVM	--	TCP	8800	Yes		IMF listening port.	IMC MVM Server	All IMC users	None
MVM	--	TCP	1433	Yes		SQL Server database listening port (Windows only).	IMC MVM Server	All IMC users	None
MVM	--	UDP	6666	Yes		iNode location listening port.	IMC MVM Server	All IMC users	None

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Known Problems

- On MPLS VPN Manager Desktop, the pie chart in the VPN Resources does not display normally.
- On MPLS VPN Manager, the line chart in the SA Traffic Report does not display the configured threshold lines.
- MPLS Management cannot raise an alarm when the MPLS traffic exceeds the threshold.
- The minimum average rate and average rate in NTA traffic analysis statistics are greatly different from the actual values.

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