



## MPLS VPN Manager v5.0 (E0101P04)

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### What's New in this Release

IMC MVM 5.0 (E0101P04) does not provide new features over IMC MVM 5.0 (E0101L01) and IMC MVM 5.0 (E0101H02).

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### Problems Fixed in This Release

IMC MVM 5.0 (E0101P04) fixed the following problems in IMC MVM 5.0 (E0101) and IMC MVM 5.0 (E0101L01) and IMC MVM 5.0 (E0101H02) and IMC MVM 5.0 (E0101H03) :

1. MVM works with NTA. View the UPE service traffic information in VPN topology. The output information does not display the **NTA Traffic Analysis** field that contains VPN traffic information.
2. On the MVM VPN Traffic Monitor Setting page, cancel the monitoring of a VPN. Then the page displays that the VPN is not monitored, but the performance module still monitors the VPN.
3. The collapse button on a VPN details page entered from the VPN traffic report is invalid.
4. Add two widgets SA traffic monitoring and MPLS VPN traffic monitoring on the homepage custom page, and then click the pie chart of a widget to enter the query page. Specify query conditions to query information. The information displayed is not correct.
5. In MVM Linux version, view the report template list. The list does not provide the VPN service report template.
6. During VPLS deployment, enter the UNI interface configuration page, and click the **Reset** button. Some parameters disappear.
7. Select two devices in the MVM topology, and select **P2P Ping** from the shortcut menu to test the connectivity between the two devices. As a result, the background program of MVM restarts, and a topology message appears showing that the P2P ping test is timeout.
8. In the Linux version of the iMC MVM, no statistics are displayed in the VPN service reports.

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# IMC Software Distribution Contents

The MVM software contains the following files and folders:

1. **MVM\manual\readme\_mvm\_5.0 (E0101P04).html** - this file
2. **MVM\windows\install** - the IMC patch installation program
3. **MVM\linux\install** - the IMC patch installation program for Red Hat Enterprise Linux

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## Installation Prerequisites

### PC Requirements

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

- Minimum hardware requirements
  - Pentium 4 3.0 GHz processor
  - 4 GB of RAM
  - 50 G hard disk space
- Operating system (Versions marked X64 are recommended):
  - Windows XP Service Pack 3
  - Windows Server 2003 with Service Pack 2
  - Windows Server 2003 X64 with Service Pack 2 and KB942288
  - Windows Server 2003 R2 with Service Pack 2
  - Windows Server 2003 R2 X64 with Service Pack 2 with KB942288
  - Windows Server 2008 with Service Pack 2
  - Windows Server 2008 X64 with Service Pack 2
  - Windows Server 2008 R2 X64
  - Red Hat Enterprise Linux 5
  - Red Hat Enterprise Linux 5 X64
  - Red Hat Enterprise Linux 5.5
  - Red Hat Enterprise Linux 5.5 X64
- VMware:
  - VMware Workstation 6.5.x
  - VMware ESX Server 4.x
- Hyper-V:
  - Windows Server 2008 R2 Hyper-V
- Database
  - Microsoft SQL Server 2005 Service Pack 3 (Windows only)
  - Microsoft SQL Server 2008 Service Pack 2 (Windows only)
  - Microsoft SQL Server 2008 Service Pack 2 (64-bit) (Windows 64-bit only)
  - Microsoft SQL Server 2008 R2 (Windows only)
  - Microsoft SQL Server 2008 R2 (64-bit) (Windows 64-bit only)
  - Oracle 11g Release 1 (Linux only)
  - Oracle 11g Release 2 (Linux only)
  - Oracle 11g Release 2 (64-bit) (Linux only)

- IMC Platform Compatibility
  - HP IMC Platform version: HP IMC PLAT 5.0 (E0101L02) or later

**Note1:** *64-bit operating systems are recommended because the larger amount of memory is available for applications.*

**Note2:** *Optimal hardware requirements vary with scale, management factors, and networking infrastructure. For specific requirements, consult HP, or your local account teams.*

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## Client Prerequisites

### PC Requirements

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

- Minimum hardware requirements
  - Pentium 4 2.0 GHz processor
  - 2 GB of RAM
  - 50 G hard disk space
- Operating system
  - Windows
- Browser
  - IE 8.0 or later is recommended.
  - Firefox 3.6 or later is recommended.
  - Turn off the blocking settings in the browser.
  - Add the IMC website to the trusted sites of the browser.
  - The client resolution is 1024\*768 at least.
  - JRE 1.6.0\_update10 or later is recommended. If a client has no JRE, IMC provides the JRE installation program and asks users to install it.

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## Typical Installation

Before installing MVM, make sure the IMC is installed correctly. To install MVM, click **Install** button on the **Monitor** tab of the Intelligent Deployment Monitoring Agent, then select the components sub-directory of the install package, and click **OK** button to launch the installation wizard.

For more information about installation instructions, see the *IMC Installation Guide*.

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## Upgrade

The upgrade package applies to IMC MVM 5.0 (E0101) or IMC MVM 5.0 (E0101L01) or IMC MVM 5.0 (E0101H02) or IMC MVM 5.0 (E0101H03).

Follow these instructions to upgrade IMC:

1. Back up the IMC database on the **Environment** tab in the Intelligent Deployment Monitoring Agent.
2. Stop the IMC system in the Intelligent Deployment Monitoring Agent.
3. Click **Install** on the **Monitor** tab of the Intelligent Deployment Monitoring Agent.
4. Select the *windows/install/components* or *linux/install/components* subdirectory of the upgrade package, and click **OK** button.
5. After the installation is complete, the Intelligent Deployment Monitoring Agent lists the components that need to be upgraded. Click **OK** to start upgrading the components.
6. If this is a distributed deployment, upgrade the components deployed on the slave servers separately.
7. After the update is complete, start all processes in the Intelligent Deployment Monitoring Agent window.

For more information about installation instructions, see the *IMC Installation Guide*.

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## Un-Installation

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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## TCP Port Usage

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

| Port      | Usage   |
|-----------|---|
| UDP 161   | Used to access network elements through SNMP  |
| UDP 162   | Used to accept SNMP Traps from network elements.  |
| TCP 22    | SSH/SFTP port, which the configuration center uses to back up and restore the device software and configuration file through SSH/SFTP.      |
| TCP 20/21 | FTP port, which the configuration center uses to back up and restore the device software and configuration file through FTP.                |
| TCP 23    | Telnet port, which the resource management module, ACL management module, and configuration center use to access the device through Telnet. |
| ICMP      | ICMP port, which the resource management module uses to discover devices and check the reachability of the devices.                         |

|             |  |
|-------------|--|
| UDP<br>69   | IMC-specific TFTP daemon.  |
| TCP 80      | Used to launch the web network management system of the device.  |
| TCP<br>443  | HTTPS port, which the virtual network management module uses to obtain VMware virtual network data in SSL. |
| TCP<br>8080 | IMC-specific web server for HTTP protocol (can be changed when installation).                              |
| TCP<br>8443 | IMC-specific web server for HTTPS protocol (can be changed when installation).                             |
| TCP<br>8800 | IMF listening port.  |
| TCP<br>1433 | SQL Server database listening port (Windows only).   |
| UDP<br>6666 | iNode location listening port.   |

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## Known Problems

- Generated configuration commands sometimes cannot be completely displayed. This problem happens with a probability.
- No timeout prompt is shown when you import devices and add tunnels in the TE management component.
- The IMC returns to the first page of the VPN/SA list when you click the **Add Monitor** button on any page of the VPN/SA list.
- Add two identical VPN monitoring instances in NTA and then view a device's information on the MVM topology. The **NTA Traffic Analysis** field displays "Database error."

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