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Powering connections

Mitel Virtual Mobility Router Deployment Guide

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Trademarks

Version Information

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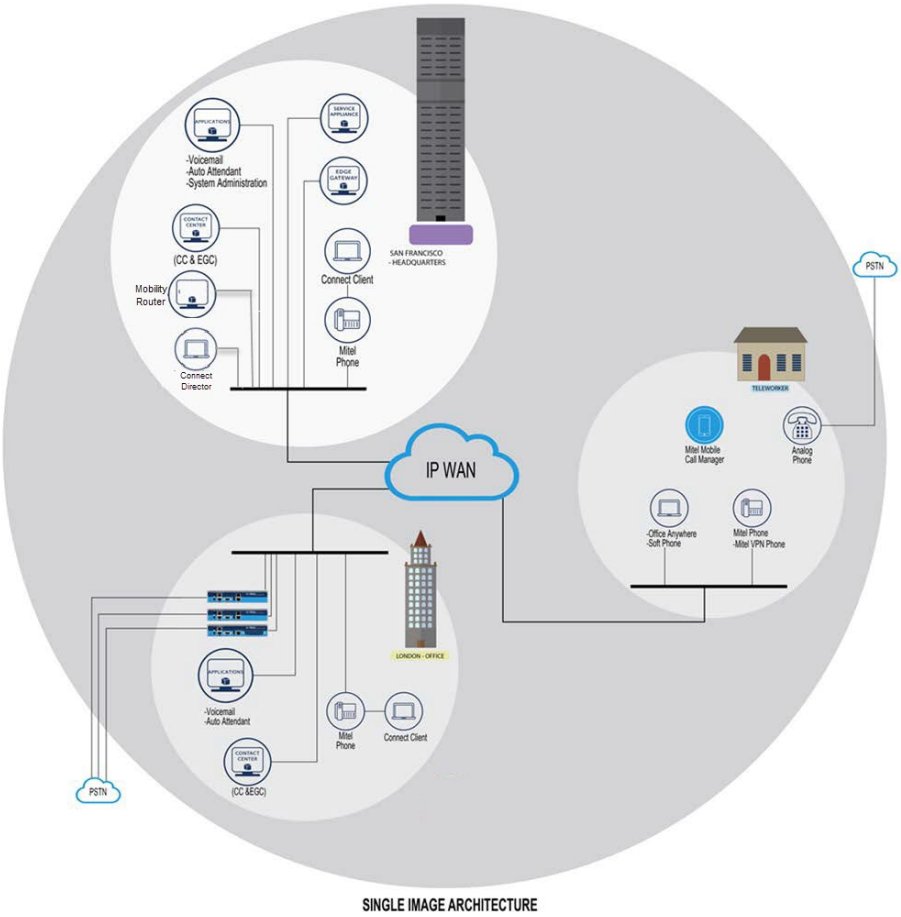
CHAPTER

1

Mitel Virtual Mobility Router Overview

The Mitel Virtual Mobility Router solution is designed to extend the Mitel Mobility Router and its Unified Communications functionality to the Cloud, providing greater flexibility and scalability. The Virtual Mobility Router is a VMware virtual appliance residing on VMware-based platforms, delivered as an OVA/OVF (Open Virtual Appliance/Open Virtual Format) file.

Figure 1: Mitel Virtual Mobility Router Deployment Topology



This deployment guide contains the following sections:

- What You Need on page 3
- Installing the Virtual Mobility Router on page 5
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- Adding a License on page 8
- Deploying the Virtual Mobility Router in High Availability Mode on page 10
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CHAPTER

2

Configuration

This section describes the process for installing the Mitel Virtual Mobility Router. The Virtual Mobility Router is delivered as a separate .ova/ovf file and is part of the system installation in a VMware environment.

Deploy the Virtual Mobility Router by using a VMware vSphere client on a vCenter server.

What You Need

Mitel Virtual Mobility Router Specifications:

- 4 Virtual CPUs, minimum
- 4G RAM
- 100G disk space
- 2 network interfaces

Note

This configuration supports VMWare vSphere ESXi 5.1 and 5.5 only.

Before starting the wizard, have the following information available:

- Mobility Router hostname
- If not using DHCP:

- Mobility Router IP address
- Subnet mask
- Default gateway for Mobility Router
- IP address of primary DNS server
- Domain name for the Mobility Router

- Password for administrative access to Mobility Router

Note:

The MAC address and License pair is provided by Mitel. If you did not receive this information, contact http://support.Mitel.com for more information.

Notes for VMWare Support:

High Availability and VMWare vMotion are supported.

Fault Tolerance is not supported. VMware does not support this feature across multiple CPUs.

Snapshots are not supported. Snapshots can consume significant CPU and memory resources impacting system operation.

Installing the Virtual Mobility Router

The following procedure installs the Mitel Virtual Mobility Router (vMMR) in a vSphere client.

1. Run vSphere client and log on to vCenter server.
2. Click **File->Deploy OVA/OVF Template…**
3. Browse to the location of virtual SMR's .ova or .ovf template file and click **Next**.
4. Review the OVF template details.
5. Type a name for the deployed template.
6. Select the destination **storage** for vMMR files. Make sure the datastore you select has at least 100 GB of free space. Click **Next**.
7. Select “Thick Provisioned Lazy Zeroed” as the disk format to store the vMMR disk. Click **Next**.
8. Map the networks used in the OVA/OVF template to network in customer inventory. Click **Next**.

Note

Select the destination that corresponds with your internal network, typically ETH0 on the Mitel Mobility Router. Refer to the *Mitel Mobility Router Hardware Installation Guide* for information on ETH0 and ETH1 and the differences between the two interfaces.

9. Review the settings. Select **Power on after deployment** and click **Finish** to deploy the virtual machine.
10. The vSphere client will load the vMMR and install it in the vCenter server.

After the installation is complete, the vMMR will appear in a powered-on state in the vSphere client.

11. On the newly created vMMR, select **Console**.
12. At the login prompt, type `admin` and press **Enter**.
13. When prompted to accept the End User License Agreement, enter YES to accept. The initial configuration wizard starts.
14. Enter Y to use the wizard.
15. Enter the DNS hostname of the Mobility Router. The hostname can be in short-name format or a fully qualified domain name.
16. At the ‘Use DHCP on ETH0’ interface prompt, do one of the following:
    - To use DHCP, enter Y, and go to Step 22.

- Enter `N` if DHCP is not desired. Continue to step 17.

Note

Mitel recommends using a static IP address so that the IP address of the Mobility Router does not change. If using DHCP, make sure to reserve an IP address for the Mobility Router.

17. Enter the Mobility Router's primary IP address.

Note

A secondary IP address can be configured using the Administration Portal.

18. Enter the subnet mask in the format of a 32-bit mask or classless interdomain routing (CIDR) notation.
19. Enter the IP address of the default gateway for the Mobility Router.
20. Enter the IP address of the primary DNS server.
21. Enter the domain name in the format *`domain-name.com`*. This suffix is appended to all DNS queries.
22. Assign a password to the default Admin account for future access to the Mobility Router Administration Portal.

Note

Enter a complex password. The password field must not be left blank.

23. Confirm the password for the default Admin account.
24. After completing the initial configuration wizard, a summary list of the information appears.
25. To make any changes, enter the number associated with the line to be changed. Verify the information and press **Enter** to save the configuration.
26. At the prompt, enter `enable`.
27. Enter `reload` to restart the Mobility Router. Wait for the login prompt in the terminal emulation software window, which indicates that the Mobility Router has finished restarting.
28. Verify a network connection to the Mobility Router can be established by accessing the Administration Portal. To access the Administration Portal, enter the Mobility Router hostname or IP address in a Web browser:

    `http://`*`hostname.domain.com`*`/adm`
    `http://`*`a.b.c.d`*`/adm`

29. After verifying access to the Administration Portal, disconnect the serial cable. (Console access is no longer required.)

The Mitel Virtual Mobility Router is now ready to be configured using the Administration Portal. For more information, see the *Mitel Mobility Router Administrator's Guide*.

Note

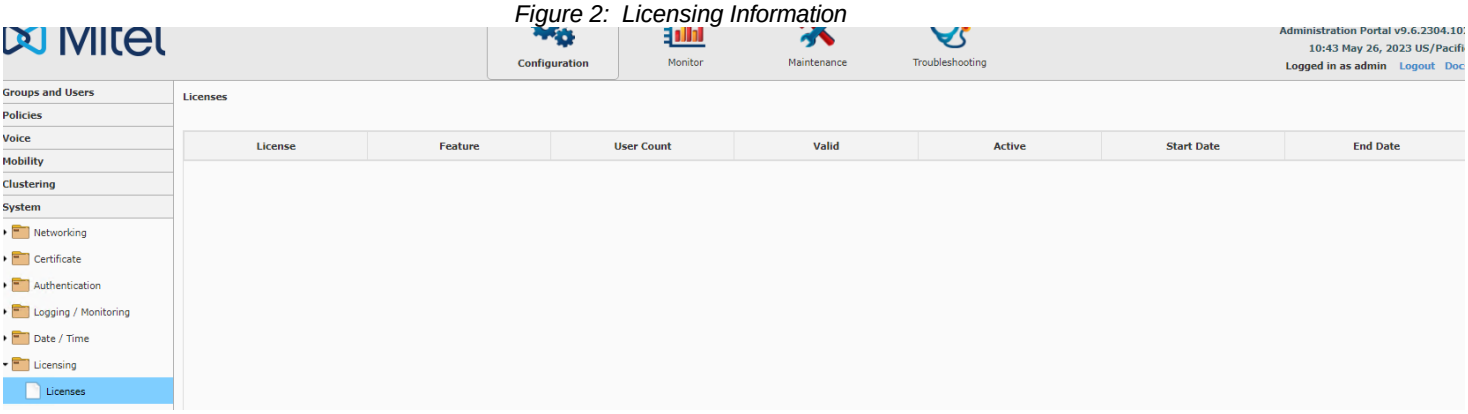
For information regarding the installation of Virtual Mobility Router ISO, see the *Installing the Virtual Mobility Router ISO* section in the *Mobility Router Administration Guide.*

Adding a License

An end-user license key is shipped with the Virtual Mobility Router. Enter this license key before enabling end users on the Mobility Router.

If you did not receive this license key, contact Mitel Technical Support.

Figure 2: Licensing Information



To enter a license key:

1. On the vMMR, select **Configuration** > **System** > **Licensing** > **Licenses**.
2. Click **Add**. The **Add License** page displays.
3. In the **License** field, type or paste the license key that you received.
4. Click **Apply**.

Reviewing License Information

After you enter a license, the Licenses page lists the information about the status of the license. To access the Licenses page, select **Configuration > System > Licensing > Licenses**.

The following items are listed on the Licenses page:

- **License**—License key. Mouse-over the entry in the License column to view the key.
- **Feature**—Mitel Mobility feature.
- **User Count**—Number of users that can be added (applicable only for end-user licenses and dependent on the license that you purchased).
- **Valid**—Displays that the license key has been entered correctly.

If the license key has not been entered correctly (for example, some characters are missing, incorrect characters were entered, or extra characters were added), an X in a red box displays in the Valid column. Delete the license and add the license with the correct license key. When the license key has been entered correctly, a checkmark in a green box displays in the Valid column.

- **Active**—License is activated.

The license is activated if the following criteria are met:

- The license has not expired.
- The MAC address of the Mobility Router matches the MAC address for the license.

When a license is activated, a checkmark in a green box displays in the Active column. If a license is not activated, an X in a red box displays in the Active column.

Note

When the license expires or there are more users than the license allows, the User's **Oper Status** displays Disabled. The **Admin Status** displays Enabled. This helps the Administrator identify who the real enabled Users are on this Mobility Router. Find this display at **Configuration > Groups and Users > Users.**

A license must be valid and active before you can use its feature. Table 1 lists the different states for the Valid and Active columns.

Table 1: Description of Valid and Active States

Valid and Active States	Description
Valid and Active	The license key has been entered correctly. The license also meets the requirements for activation.
Valid and Inactive	The license key has been validated by the Mobility Router, but the license does not meet the requirements for activation. Make sure that the license has not expired and that you are adding the correct license on the correct Mobility Router.
Invalid and Inactive	The license key has not been entered correctly. Make sure that you entered the correct license key for the license.

- Start Date—Date from which license can first be activated.

End Date—Date on which license expires.

Deploying the Virtual Mobility Router in High Availability Mode

The Mitel Virtual Mobility Router can be deployed in High Availability.

Configure the second vMMR following the procedure in Installing the Virtual Mobility Router on page 5. After completing these steps, add both of the vMMRs to an HA cluster using the steps outlined in the *Mitel Mobility Router Administration Guide, "Managing Redundancy Clusters"* chapter. The procedure for deploying physical Mobility Routers and Virtual Mobility Routers in High Availability mode are identical.

Upgrading the Virtual Mobility Router

Refer to the *Mitel Administration Guide, "Managing Mobility Router Images"* section to upgrade your Mitel Virtual Mobility Router. The process for backing up, restoring, or upgrading a physical Mobility Router and a Virtual Mobility Router are identical.