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### Some content has been moved!

Its new location is :

[http://www.cisco.com/c/dam/en/us/td/docs/voice\\_ip\\_comm/uc\\_system/virtualization/virtualization-cisco-unified-em](http://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-unified-em)

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## Cisco Unified EIM-WIM 4.4(x) Component Co-Residency

You can have one or more EIM-WIM components co-resident on the same ESXi server. However, you must follow the rules described below:

- With the exception of the DB Server Virtual Machine, EIM-WIM Virtual Machines can co-reside with any other UC application Virtual Machine as long as there is no oversubscription of CPU and Memory. The DB Server Virtual Machine can co-reside with UC applications Virtual Machines that are not DB Servers themselves.
- Co-Residency of EIM-WIM components with third-party applications is not supported.
- You can have any number of EIM-WIM virtual machines on an ESXi server as long as the sum of all the virtual machine CPU and memory resource allocation is not overcommitted on the available ESXi server computing resources.
- You must not have CPU overcommitted on the ESXi server that is running EIM-WIM components. The total number of vCPUs among all the virtual machines on an ESXi host must not be greater than the total number of CPUs available on the ESXi server. In the case of the Cisco UCS B-200 M1, the total number of CPUs available is 8.
- You must not have memory overcommitted on the ESXi host that is running UC realtime applications. You must allocate a minimum of 2GB of memory for the ESXi kernel. For example, if an ESXi server on B-200 M1 hardware has 36GB of memory, after you allocate 2GB for the ESXi kernel, you have 34GB available for the virtual machines. The total memory allocated for all the virtual machines on an ESXi server must not be greater than 34GB in this case.

## Preparing to Install Cisco Unified EIM-WIM components on Virtual Machines

Follow the steps and references below to install OR upgrade Cisco Unified EIM-WIM components on Virtual Machines:

1. Install, set up, and configure the UCS Hardware.
2. Configure the UCS Network. Refer to [Unified Communications in a Virtualized Environment - How to Design](#).
3. Install and boot VMWare ESXi. Refer to [Unified Communications in a Virtualized Environment - How to Deploy](#).
4. Create Cisco Unified EIM-WIM Virtual Machines from the OVA template. OVA templates are available on Cisco.com.

### Downloading the OVA Template

To download the OVA template:

1. Proceed to the [OVA template download page](#) and select the template that you want:
2. To download a OVA file, click the **Download File** button next to that file.
3. Click the **Add to Cart** button next to file, and then click on the **Download Cart** link. A Download Cart page appears.
4. Click the **Proceed with Download** button on this page. A Software License Agreement page appears.
5. Read the Software License Agreement, then click the **Agree** button.
6. On the next page, click on either the **Download Manager** link (requires Java) or the **Non Java Download Option** link. A new browser window appears.
7. Choose one:
  - ◇ If you selected Download Manager, a Select Location dialog box appears. Specify the location where you want to save the file, and click **Open** to save the file to your local machine.
  - ◇ If you selected Non Java Download Option, click the **Download** link on the new browser window. Specify the location and save the file to your local machine.

### Creating Virtual Machines by Deploying the OVA Templates

In the vSphere client, perform the following steps to deploy the Virtual machines:

1. Highlight the host or cluster to which you want the VM to be deployed.
2. Select File > Deploy OVF Template.
3. Click the Deploy from File radio button and specify the name and location of the file you downloaded in the previous section OR click the Deploy from URL radio button and specify the complete URL in the field; then click Next.
4. Verify the details of the template, and click Next.
5. Give the VM you are about to create a name, and choose an inventory location on your host; then click Next.

6. Choose the datastore on which you would like the VM to reside, making sure there is sufficient free space to accommodate the new VM; then click Next.
7. Choose a virtual network for the VM, and then click Next.
8. Verify the deployment settings, and then click Finish.

Notes:

- VM CPU affinity is not supported. You do not need to set CPU affinity for the VMs that are running Cisco Unified EIM-WIM applications on the VMware ESXi on UCS platform.
- VM resource Reservation - VM resource reservation is not supported for the VMs that are running Cisco Unified EIM-WIM applications on the VMware ESXi on UCS platform. The VM computing resources should have a default reservation setting, which is no resource reservations.
- You cannot change the computing resource configuration of your VM at any time.
- You can never go below the minimum VM computing resource requirements as defined in the OVA templates.
- ESXi Server hyperthread is enabled by default.

## Installing VMware Tools

The VMware Tools must be installed on each of the VMs and all of the VMware Tools default settings should be used. Refer to the [VMware documentation](#) for instructions on installing or upgrading VMware Tools on the VM with the Windows operating system.

## Installing Cisco Unified EIM-WIM Components on Virtual Machines

You can install the Cisco Unified EIM-WIM components after the configuration of the VMs. Installation of these Cisco Unified EIM-WIM components on a VM is the same as the installation of these components on physical hardware. Refer to the Cisco Unified EIM-WIM Install Guide for the steps to install Cisco Unified EIM-WIM components.

## Configuring the ESXi Host Network for the Virtual Machines

To configure the network for VMs, you create a virtual switch connected to an Ethernet port on the server, and then associate the virtual machine's network adapter to this virtual switch.

### To add a vSwitch:

Log in to the ESXi host using VMware Infrastructure Client.

1. Select the ESXi host.
2. Click the Configuration tab.
3. Click Hardware/Networking.
4. Click Add Networking.
5. Select Connection Types: Virtual Machine; and then click Next.
6. Select "Create a virtual switch" and select an associated VM NIC.
7. Enter Port Group Properties/Network label: VM Network n, where n is an integer.(Example: "VM

- Network 1")  
 8. Click Finish.

**To associate a VM Network Adapter to Network Connection**

Edit virtual machine settings.

1. Select the Network Adapter.
2. Select a virtual switch from the Network Connection/network label. (Example: "VM Network 1")
3. Click OK.
4. Click Hardware/Networking
5. Click Add Networking.
6. Select Connection Types: Virtual Machine, and then click Next.
7. Select "Create a virtual switch" and select an associated VM NIC.
8. Enter Port Group Properties/Network label: VM Network n, where n is an integer.(Example: "VM Network 1")
9. Click Finish.

**Migrating from Physical to Virtual**

- Migration of EIM-WIM components from existing physical boxes to VMs is not supported.
- Unified EIM-WIM deployments that are a mix of physical hardware and VMs are also not supported.

**Cisco Media Blender**

Application, OVA Capacity and Notes+Download Link	Contents	No of VM's to deploy of each component	vCPU	vDisk	vRAM/Memory
<a href="#">Cisco Media Blender</a>	Cisco Media Blender	1	2	1 x 80GB	2

**Back to: [Unified Communications in a Virtualized Environment](#)**