



# **Dialogic® Gate Control Element Management System VM Setup**

**Initial Red Hat Setup for GCEMS Virtual Machine**

April 2010

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[www.dialogic.com](http://www.dialogic.com)

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## IMPORTANT NOTE:

Please be aware that the following terminology and abbreviations are used throughout this document. Please also be sure to consult the legal notice for other important details.

When used herein, the term "IMG" refers to the "Dialogic® IMG 1010 Integrated Media Gateway" or "Dialogic® IMG 1004 Integrated Media Gateway" product.

When used herein, the term "GCEMS" refers to the "Dialogic® Gate Control Element Management System"

## Revision history

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Revision	Release date	Notes
01	April 2010	Document describes initial GCEMS configuration needed after Virtual Machine has been created.
Last modified: April 2010		

Refer to [www.dialogic.com](http://www.dialogic.com) for product updates and for information about support policies, warranty information, and service offerings.

# 1. VMWare® Information and Specifications

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The supplied files used in creating the GCEMS Virtual Machine have the following specifications:

VM Hosts	VMWare® Server 2.0.2+ and ESX(i) 3.5U5+
Operating System	Red Hat Linux Enterprise 5.1 x86
RAM	2 GB
Hard Disk Drive (HDD)	40 GB
Network Interface Cards	Two (One active at startup)

The VM is provided in OVF 1.0 format and procedure for importing an OVF format varies per VMM but is covered extensively in the VMM user guides and VMWare Converter's user guide. Below are helpful links that can be used for configuration and setup.

Hardware Compatibility List:	<a href="http://www.vmware.com/resources/compatibility/search.php">http://www.vmware.com/resources/compatibility/search.php</a>
VMWare® Server 2.0 User Guide	<a href="http://www.vmware.com/pdf/vmserver2.pdf">http://www.vmware.com/pdf/vmserver2.pdf</a>
VMWare® ESX(i) Install Guide:	<a href="http://www.vmware.com/pdf/vi3_35/esx_3i_i/r35u2/vi3_35_25_u2_3i_i_setup.pdf">http://www.vmware.com/pdf/vi3_35/esx_3i_i/r35u2/vi3_35_25_u2_3i_i_setup.pdf</a>
VMWare® Converter's User Guide	<a href="http://www.vmware.com/pdf/converter_standalone_guide401.pdf">http://www.vmware.com/pdf/converter_standalone_guide401.pdf</a>

## Modify GCEMS Virtual Machine for use in your Network

After installing the Virtual Machine, information such as IP addresses and subnet masks are configured with generic addresses and will need to be modified to accommodate the network that the VM will be operating in. The procedure below describes how to configure the IP addresses etc to be able to communicate with the VM just created.

1. Startup GCEMS VM and Log in. Default username/password = excelsw/excelsw

**Note:** The first Boot process may take longer than normal due to MAC changing on NIC card and DHCP requests.

2. Open a terminal by right clicking on the desktop and selecting 'open terminal'. See below



3. In terminal, switch to root user and start network configuration tool by entering the commands below. (root password = excel2)

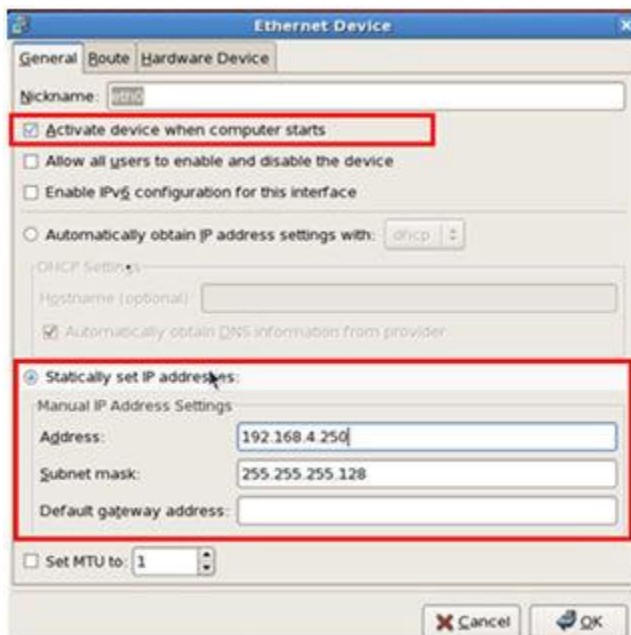
```
[excelsw@localhost ~]$ su  
Password:  
[root@localhost excelsw]# system-config-network &
```



4. Select device eth0 and press 'Edit' button.



5. Edit the properties as necessary to connect to the same subnet as IMG CTRL 0 Port. Screen capture below is used as a reference.

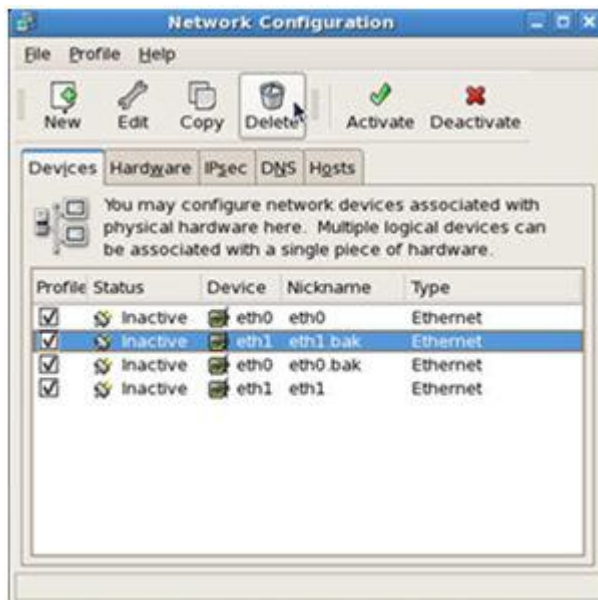


**Note:** Ethernet port eth0 needs to be secure. Therefore, eth0 should be configured on a restricted/private network. Eth0 will connect to the Ctrl0 port which is used for operations, administration, maintenance & provisioning. (OAMP)

6. Select the 'DNS' tab from the Network Configuration box and configure the hostname, DNS, and Domain as necessary. Save all changes through the file menu. File > Save. Screen capture below is used as a reference.



7. Delete any instances with nickname of eth.bak. These instances are no longer necessary. See screen capture below



8. Activate eth0 by pressing Activate  in the tool bar.

9. Repeat steps above if a second ethernet interface is required.

10. Close the 'Network Configuration' tool.

11. Go to /home/excelsw and run the xlsshkeygen tool. Running this tool will create a new set of SSH keys for this VM. For security purposes, it is recommended that this tool be run once on each instance of GCEMS VM.

```
# ./xlsshkeygen
```

12. Restart the network.

```
# service network restart
```

13. Use ping command to verify network connectivity to and from other devices in the network.

14. At this point, the configuration will function as if it were GCEMS server hardware. VM is configured for single server installation by default. To run a redundant GCEMS Configuration, re-run the GCEMS installation and select the appropriate options. See IMG-1010-Software Installation and Setup in online documentation on how to install and setup the GCEMS and IMG into a network. If VNC is needed then see the following link in the online documentation. [Configuring Remote Desktop](#)