## GateManager™ 5 Server model 9250 Installation STEP 1 for the IT departm<u>ent</u>

This document describes how to install the Secomea GateManager Virtual Image. Supported hypervisor is VMware Player5, Win2008R2/2012-Hyper-V and VMware ESXi5.

The intended audience for this document is an IT administrator with intermediate Linux skills and knowledge about using virtual machines and TCP networking.

Version: 2.0, 2013

## secumea

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## 1. Prerequisites for Installing According to this Guide

This guide will assist you to plan for, and successfully complete the installation of a Virtual Image containing preinstalled GateManager 5 server software.

Prerequisites for a fully functional install of the GateManager according to this guide are:

- You have downloaded a virtual image from Secomea as either VMWare, ESXi or HyperV according to your chosen server platform.
- You have the ability/authority to allocate a public Internet address for the GateManager.
- You have the ability/authority to adjust open necessary ports in your Internet firewall to direct traffic to and from the server.
- You have access to a physical Workstation or Server, or a virtualized Server on which you have full administrator rights to install the image.
- 32 GB dynamic storage available for the image, and you have 1-2GB RAM allocated for the image.
- The Internet bandwidth available for the GateManager must be at least 128Kb/s.
- You have the ability/authority to allow relaying of E-mails generated by the GateManager. (In worst case, you can relay via e.g. a Gmail account).

## 1.1. Related Documents

The following guides are available from the Secomea partner website – www.secomea.com  $% \left( {{\left[ {{{\rm{S}}_{\rm{el}}} \right]}_{\rm{s}}} \right)$ 

GateManager 5 Server Installation STEP 1 (THIS GUIDE)

Describes the installation of the server performed by the IT department.

## GateManager 5 Server Installation STEP 2

Describes the necessary steps to configure the GateManager to become operational and to setup backup. The guide is intended for the appointed GateManager Server administrator.



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## 2. Prepare Network Configuration / Physical Server Location



## 2.1. The principle of the solution (what ports are used for)



**SiteManagers and LinkManagers** connect to the GateManager Server public IP address on TCP port 443 (standard https/TLS), 80 (standard TLS over http) or 11444 (Secomea ACM/TLS).

The Corporate firewall / NAT router must be configured to forward connections to preferably all, or at least port 443 to the GateManager Server private IP address.

**GateManager Administrator Web portal** connects to the GateManager Server on TCP port 443. A **NAT router** must be configured to forward connections to port 443 on the GateManager Server. **IMPORTANT:** The NAT router must NOT do masquerading of incoming connections. The GateManager must be able to determine the original source IP

Through the administrator Web portal the administrator can take access to the web interface of SiteManagers, LinkManagers and web enabled devices connected to the SiteManagers. This feature uses TCP port range 55000 through 59999, and for this feature to work from the outside the **NAT router** must be configured to forward incoming connections to these ports to the corresponding port on the GateManager Server. The installation script will allow you to select a different port range.

**DHCP Server** - The GateManager System is by default configured as DHCP Client. Both DNS and default gateway is assumed to be provided by the company DHCP server. The DHCP server must provide the GateManager System with the same fixed private IP address that is used by the port forwarding rules in the NAT router. (A static IP can be set using the Appliance Launcher. See section 6 Get the Local IP address of the GateManager).

**Public IP Address** - A public accessible IP address must be assigned to the GateManager Server. It is recommended that a Reverse-DNS record is assigned to this IP address. This will prevent most of the spam-

GateManager<sup>™</sup> 5 Server model 9250 Installation STEP 1



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filters/systems to block alert and account emails from the GateManager Server. Contact you ISP or IP address provider for details.

## 2.2. Configuring your Corporate Firewall

**IMPORTANT:** The GateManager MUST be protected by an external Firewall. If the GateManager Server is directly attached to the Internet then the build in firewall must be enabled. This is not part of this document.

The following ports must be forwarded or Destination NATed from the public IP address to the Linux System local IP address. All other ports should be blocked by the corporate firewall to prevent unauthorized use.

The ports are marked as follows:

- **RED:** Ports that <u>must</u> be opened for the system to work at all.
- BLUE: Ports that must be opened for obtaining optimal functionality

GREEN: Recommended, but only needed for special scenarios

| 2.2.1. From | Outside (*) | to | Inside:       |                         |
|-------------|-------------|----|---------------|-------------------------|
| TCP         | 80          | >  | 11444(or 80)  | (Appliance)             |
|             | 443         | >  | 11444(or 443) | (Appliance/Web GUI)     |
|             | 11444       | >  | 11444         | (Appliance)             |
|             | 55000-59999 | >  | 55000-59999   | (Go To Appliance)       |
|             | 5900        | >  | 5900          | (VNC support LM Mobile) |
|             | 3389        | >  | 3389          | (RDP support LM Mobile) |

(\*) In case the GateManager Server will be accessed from inside the private network where it is located, the destination NAT rules must reflect that. This is the case if access from SiteManager, LinkManager or Administrator portal access is made from the same network as the local address of the GateManager.

Port 5900, 3389 is for connecting by LinkManager Mobile. The port is controlled and secured by the GateManager and is NOT to compare with a common VNC and RDP access to a PC. Only the LinkManager Mobile that request the connection will be allowed using this.

## 2.2.2. From Inside to the Internet:

| ТСР               | 25       | (SMTP/MAIL *)                            |
|-------------------|----------|--|
|                   | 21       | (For FTP backup to external server)      |
|                   | 443      | (For license control and Web Proxy)      |
|                   | 80       | (WEB Proxy **)                           |
| TCP/UDP           | 53       | (DNS *)                                  |
|                   | 123      | (NTP *)                                  |
| (*) If the GateMa | anager S | Server is using a DNS server or NTP serv |

(\*) If the GateManager Server is using a DNS server or NTP server or an internal SMTP server for relaying emails – then these ports are not necessary to open.

(\*\*)The WEB Proxy (squid) allows a PC attached to the DEV port on a SiteManager to be able to browse the internet through the GateManager Server.



## 3. Fill in GateManager Installation Check List

Before you start the actual installation, it is advised to fill the following table so you have the minimum information ready at hand, and prevents you from getting stuck during the installation, and to not forget topics that should be followed up.

| GateManager Ins  | tallation Data  |    |  |  |  |  |
|--|---|----|--|--|--|--|
|  | The public Identification that the GateManager can be reached on from the Internet and which Secomea should create the Software License Dongle.   |    |  |  |  |  |
| Information<br>that must be<br>informed to<br>Secomea, for<br>upgrading the<br>built-in Trial li-                | Either a static IP address:<br>Or a Fully Qualified Domain Name (FQDN), which<br>has been publically registered (ex.<br>gm. <yourcompany>.com ).</yourcompany>  | ·· |  |  |  |  |
| cense to a<br>Production li-<br>cense  | During installation you will be promoted for a <b>host-<br/>name</b> for the GateManager Server. This must be for-<br>matted as FQDN but does not need to be publicly reg-<br>istered.<br>(eg. <b>gm.<yourcompany>.<i>local</i></yourcompany></b> ) | ·  |  |  |  |  |
| IP address of your S<br>You may also verify<br>emails from the Gat   | IP address of your SMTP(mail) server.<br>You may also verify that the SMTP server is configured to allow relaying of  |    |  |  |  |  |
| Only if using GateM<br>Ensure that the pub<br>GateManager - has<br>It may work without,<br>Server will be consid |   |    |  |  |  |  |
| NTP time server(s)<br>GateManager (pool.   | ··  |    |  |  |  |  |
| DNS server(s) - if N   | DNS server(s) - if NOT assigned by a DHCP server:   |    |  |  |  |  |
| Corporate firewall h   | as been opened with the required ports  |    |  |  |  |  |







## 4. Install GateManager Virtual Image

The following steps will guide you through the installation. The virtual image is pre-configured with a trial version of a GateManager Server.

It only needs to be started and a few initial configuration tasks performed.

### Jump to the relevant section:

GateManager 5 Server - VMware Player image

GateManager 5 Server - Hyper-V Image

GateManager 5 Server – ESXi image

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## 4.1. GateManager 5 Server - VMware Player image

### 4.1.1. Download and install VMware

Ensure that you have either VMware Server 2.x, VMWare Workstation or VMWare Player installed on the server.

The VMware products can be found at: www.vmware.com/download

#### 4.1.2. Download and install the GateManager VM

Download and unzip the GateManager virtual image from the support section of <u>www.secomea.com</u> (requires login). The image is approx 10 MByte.

Note: If you are using VMware Server 2.x, you will have to place the image file in the "Virtual Machines" folder appointed by the VMware installation.

#### 4.1.3. Start the Secomea GateManager Virtual Image

It is expected that the user has a minimum of knowledge related to the VMware application, but here is a simple description of how to start the virtual image downloaded in previous chapter. The following is based on using VMware Player 5.0

- 1. Start the VMware Player application
- 2. Select the menu: File > Open
- 3. Select the GateManager image file with extension **.vmx** and select OPEN and then start the virtual machine.
- 4. The GateManager virtual image is starting and you should continue with section <u>5. Preserving the GateManager Licenses</u>

| sd 0:0:1:0: [sdb] Write Protect is off  |
|---|
| sd 0:0:1:0: [sdb] Mode Sense: 00 3a 00 00                                       |
| sd 0:0:1:0: [sdb] Write cache: disabled, read cache: enabled, doesn't support I |
| O or FUA  |
| sd 0:0:0:0: [sda] Attached SCSI disk  |
| sdb: sdb1   |
| sd 0:0:1:0: [sdb] Attached SCSI disk  |
| Freeing unused kernel memory: 2444k freed                                       |
| Write protecting the kernel text: 2444k   |
| Write protecting the kernel read-only data: 452k                                |
| e2fsck 1.41.12 (17-May-2010)  |
| /dev/fla1: clean, 218/8388608 files, 538619/8387930 blocks                      |
| mount: mounting /dev/fla1 on /store failed: Invalid argument                    |
| tune2fs 1.41.12 (17-May-2010)   |
| Creating journal inode: done  |
| This filesystem will be automatically checked every 25 mounts or                |
| 180 days, whichever comes first. Use tune2fs -c or -i to override.              |
| kjournald starting. Сомміt interval 5 seconds                                   |
| EXT3-fs (sdb1): using internal journal  |
| EXT3-fs (sdb1): mounted filesystem with ordered data mode                       |
| e2fsck 1.41.12 (17-May-2010)  |
| /dev/boot: clean, 14/9984 files, 334/9969 blocks                                |
|   |
| Please press Enter to activate this console. pcnet32 0000:02:00.0 eth0: link up |
|   |





## 4.2. GateManager 5 Server - Hyper-V Image

## 4.2.1. Download and install Hyper-V

Installing and configuring the Hyper-V server is not covered by this guide. Refer to your Microsoft Windows documentation.

The following is based on the Windows 2008R2 built-in Hyper-V server. The Image also support Windows 2012 Hyper-V server.

### 4.2.2. Download and install the GateManager VM

Download and unzip the GateManager virtual image from the support section of <u>www.secomea.com</u> (requires login). The image is approx 10MByte.

### 4.2.3. Starting the Secomea GateManager Virtual Image

It is expected that the user has a minimum of knowledge related to working with Microsoft Hyper-V server, but here is a simple description of how to start the GateManager virtual image downloaded in previous chapter.

1. Unzip the Secomea GateManager Virtual image in a suitable folder

| Extract Compressed (Zipped) Folders     |        |
|---|--------|
| 🔒 Extract Compressed (Zipped) Folders   |        |
| Select a Destination and Extract Files  |        |
| Files will be extracted to this folder: |        |
| C:\VirtualMachines\GM                   | Browse |
| Show extracted files when complete      |        |
|   |        |
|   |        |
|   |        |
|   |        |
|   |        |
|   |        |
|   |        |
|   |        |

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2. Start the Microsoft Hyper-V Manager and select "Import Virtual Machine"

| Hyper-V Manager                          |                       |                                     |                         |                          |
|--|-----------------------|-------------------------------------|-------------------------|--------------------------|
| File Action View Window                  | Help                  |                                     |                         | _ <b>B</b> ×             |
|  |                       |                                     |                         |                          |
| Hyper-V Manager                          | Virtual Machines      |                                     |                         | Actions                  |
| SECOMEA-HYPER-V                          | Name +                | Sate CPUIIsage                      | Memory                  | SECOMEA-HYPER-V          |
|  |                       | No. statul and black and and        |                         | New                      |
|  |                       | No virtual machines were found on t | his server.             | 🕞 Import Virtual Machine |
|  |                       |                                     |                         | Hyper-V Settings         |
|  |                       |                                     | Virtual Network Manager |                          |
|  |                       |                                     |                         | 💋 Edit Disk              |
|  |                       |                                     |                         | Inspect Disk             |
|  |                       |                                     |                         | Stop Service             |
|  |                       |                                     | 1                       | Remove Server            |
|  | Guandhala             |                                     | 6                       | Refresh                  |
|  | Shapshots             |                                     | View +                  |                          |
|  |                       | No virtual machine selected         | Ι.                      | New Window from Here     |
|  |                       |                                     |                         | 🕜 Help                   |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         | -                        |
|  | Details               |                                     |                         | -                        |
|  |                       | No tem selected                     |                         |                          |
|  |                       | no item selected.                   |                         |                          |
|  |                       |                                     |                         |                          |
|  |                       |                                     |                         | -                        |
| Displays the import existing virtual mac | chine user interface. |                                     |                         |                          |
| leading to are subor consulty in and mac |                       |                                     |                         | 1                        |

3. Select "Copy the virtual machine" and select Import

| ation: C   | \VirtualMachines      | \GM\GateManager     | r\                |                   | Browse           |
|------------|-----------------------|---------------------|-------------------|-------------------|------------------|
| Settings - |                       |                     |                   |                   |                  |
| Import set | tings:                |                     |                   |                   | /                |
| O Move     | or restore the virt   | ual machine (use th | ne existing uniqu | e ID)             |                  |
| Copy       | the virtual machin    | ie (create a new un | ique ID)          |                   |                  |
| Dunli      | nate all files so the | e eame virtual mach | ins can be impo   | ited again        |                  |
|            |                       |                     | inte can be impo  |                   |                  |
| The        | same virtual mac      | hine cannot be imp  | orted again if yo | u do not copy the | files unless you |

4. After import, you virtual machine will appear in the list with status "Off"

| Hyper-V Manager         |                  |          |           |        |        |                             |
|-------------------------|------------------|----------|-----------|--------|--------|-----------------------------|
| File Action View Window | Help             |          |           |        |        | ×                           |
| 🗢 🔿 🚺 🖬 🚺               |                  |          |           |        |        |                             |
| Hyper-V Manager         | Virtual Machines | - MARCEN |           |        | SUB    |                             |
|                         | Name 🐣           | State    | CPU Usage | Memory | Uptime | SECONEA-HTPER-V             |
|                         | 🚆 GateManager    | Off      |           |        |        | New  Import Virtual Machine |
|                         |                  |          |           |        |        | Hyper-V Settings            |
|                         |                  |          |           |        |        | Virtual Network Manager     |
|                         |                  |          |           |        |        | 🧀 Edit Disk                 |
|                         |                  |          |           |        |        | Inspect Disk                |
| 1                       |                  |          |           |        |        |                             |

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5. Right click the Virtual machine and select Start



6. Double-Click on the GateManager icon to activate the GateManager Server Console and you are ready to continue to chapter: 4.4 Configuring the GateManager for the First Time.

| tanan 📙 | Created: | 09-06-2010 17:52:53 | Heartbeat:    | No Contact |
|---------|----------|---------------------|---------------|------------|
| and all | Notes:   | None                | Memory Usage: | 2048 MB    |

7. The GateManager virtual image is starting and you should continue with section <u>5. Preserving the GateManager Licenses</u>



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## 4.3. GateManager 5 Server – ESXi image

Installing and configuring the ESXi server is not covered by this guide. It is expected that the user has a minimum of knowledge related to the VMware ESXi server and the vSphere Client.

If you haven't already a vSphere client or VMware ESXi Server running, you can download a VMware ESXi Server from:

- http://www.vmware.com/go/get-free-esxi
- Login with your account, or create one if you do not already have one, and download the software. Follow the instructions for installation the VMware ESXi Server software provided by VMware.

The following is based on the vSphere ESXi 5.0 server.

### 4.3.1. Download and install the GateManager VM

Download and unzip the GateManager virtual image from the support section of <u>www.secomea.com</u> (requires login). The image is approx 10MByte.

### 4.3.2. Starting the GateManager Virtual Machine

It is expected that the user has a minimum of knowledge related to the VMware ESXi Server application, but here is a simple description of how to start the GateManager virtual image downloaded in the previous section.

The following is based on using VMware ESXi Server version 5.x

1. Double-Click on the GateManager icon to activate the GateManager Server Console

| 🕜 VMware vSphere Client   |  | x     |  |  |  |  |  |
|---|--|-------|--|--|--|--|--|
| vmware<br>VMware vSphere <sup>™</sup>                                     |  |       |  |  |  |  |  |
| Client  |  |       |  |  |  |  |  |
| To directly manage a sing<br>To manage multiple hosts,<br>vCenter Server. | To directly manage a single host, enter the IP address or host name.<br>To manage multiple hosts, enter the IP address or name of a<br>vCenter Server. |       |  |  |  |  |  |
| IP address / Name:  | 172.16.15.106  | •     |  |  |  |  |  |
| User name:  |  |       |  |  |  |  |  |
| Password:   |  |       |  |  |  |  |  |
|   | <b>E</b>   |       |  |  |  |  |  |
|   | Use Windows session creder   | nuais |  |  |  |  |  |
|   | Login Close  | Help  |  |  |  |  |  |



2. Select the menu: File  $\rightarrow$  Deploy OVF Template...



3. Select the file with extension .ova and press Next

| 🖉 Deploy OVF Template   |   | _ 🗆 🗙  |
|---|---|--------|
| <b>Source</b><br>Select the source location.  |   |        |
| Source<br>OVF Template Details<br>Name and Location<br>Disk Format<br>Ready to Complete | Deploy from a file or URL         Z:\{SateManager.oval         Terr a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive. |        |
| Help  | ≤Back Next ≥  | Cancel |



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4. Verify the information from the .ova file is correct, and press Next.

| 🖉 Deploy OVF Template   |  |  |                      |
|---|--|--|----------------------|
| OVF Template Details<br>Verify OVF template detail  | s.   |  |                      |
| Source<br>OVF Template Details<br>Name and Location<br>Storage<br>Disk Format<br>Network Mapping<br>Ready to Complete | Product:<br>Version:<br>Vendor:<br>Publisher:<br>Download size:<br>Size on disk:<br>Description: | GateManager9250<br>No certificate present<br>11,3 MB<br>39,4 MB (thin provisioned)<br>32,1 GB (thick provisioned)<br>GateManager Server<br>OS = Secomea GateManager<br>Initial GM Version 5.4.13483<br>32G Disk<br>www.secomea.com |                      |
| Help  |  |  | < Back Next > Cancel |

5. Give the virtual machine a unique name, and press **Next**.

| 🖉 Deploy OVF Template   |  |
|---|--|
| Name and Location<br>Specify a name and location  | n for the deployed template  |
| Source<br>OVF Template Details<br>Name and Location<br>Storage<br>Disk Format<br>Network Mapping<br>Ready to Complete | Name:<br>StateManager9250<br>The name can contain up to 80 characters and it must be unique within the inventory folder. |
| Help  | < Back Next > Cancel   |



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6. Select the format of the virtual disks. If you are unsure about what to choose, we recommend selecting "Thin Provision".

| 🕜 Deploy OVF Template   |  |                                    |            |             |
|---|--|------------------------------------|------------|-------------|
| <b>Disk Format</b><br>In which format do you wa   | ant to store the virtual disks?  |                                    |            |             |
| Source<br>OVF Template Details<br>Name and Location<br>Storage<br>Disk Format<br>Network Mapping<br>Ready to Complete | Datastore:<br>Available space (GB):<br>C Thick Provision Lazy Zerr<br>C Thick Provision Eager Ze<br>C Thin Provision | datastore2<br>555,7<br>ped<br>roed |            |             |
| Help  |  |                                    | < Back Nex | .t > Cancel |

7. Verify the details is correct, and check "Power on after deployment", and press **Next**.

| 💋 Deploy OVF Template   |   |  |
|---|---|--|
| Ready to Complete<br>Are these the options yo   | ou want to use?   |  |
| Source<br>OVF Template Details<br>Name and Location<br>Storaag<br>Disk Format<br>Network Mapping<br>Ready to Complete | When you dick Finish, the deploy<br>Deployment settings:<br>OVF file:<br>Download size:<br>Size on disk:<br>Name:<br>Host/Cluster:<br>Datastore:<br>Disk provisioning:<br>Network Mapping:<br>▼ Power on after deployment | yment task will be started.<br>C:\VirtualMachines\GateManager9250-ESXi\GateManage<br>11,3 MB<br>39,4 MB<br>GateManager9250a<br>ACD80FC.rdm.local<br>datastore2<br>Thin Provision<br>"VM Network" to "VM Network" |
| Help  |   | < Back Finish Cancel   |

8. Await the deployment to be completed, and press **Close**.



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9. After the deployment, the Virtual machine will power On, and you can access the console by selecting the machine in the left column in vSphere, and then the tab "Console" in the right column.

thing Stated Summary Resource Allocation Performance Event Console Vermissions
Write protecting the kernel text: 2444k
Write protecting the kernel read-only data: 452k
input: AT Translated Set 2 keyboard as /devices/platform/i8042/serio0/input/inpu
t1
e2fsck 1.41.12 (17-May-2010)
/dev/fla1: recovering journal
/dev/fla1: recovering journal
/dev/fla1: clean, 319/8380608 files, 571471/8387930 blocks
kjournald starting. ComMit interval 5 seconds
EXT3-fs (sdb1): using internal journal
EXT3-fs (sdb1): wounted filesystem with ordered data mode
e2fsck 1.41.12 (17-May-2010)
/dev/boot was not cleanly unmounted, check forced.
sh: can't create /proc/driver/led1: nonexistent directory
sh: can't create /proc/driver/led1: nonexistent directory
Pass 1: Checking inodes, blocks, and sizes
Pass 2: Checking directory structure
Pass 3: Checking directory connectivity
Pass 4: Checking reference counts
Pass 5: Checking group sumMary information
/dev/boot: 14/9984 files (0.0% non-contiguous), 334/9969 blocks
sh: can't create /proc/driver/led1: nonexistent directory
Please press Enter to activate this console. e1000: eth0 NIC Link is Up 1000 Mbp
s Full Duplex, Flow Control: None





## 5. Preserving the GateManager Licenses

Make sure that proper measures are taken to ensure that the MAC address of the GateManager virtual machine image does not change during operation. This could happen in case of fail-over setups, where the backup machine may assign a different MAC address to the virtual NIC. In rare cases it may also occur for a single server installation when recovering from a power failure.

Especially for ESXi - you should consider at this point to manually define a MAC for the virtual machine, but typically you would leave it at "Auto" and let VMware assign it automatically, which will in most cases work fine. If you want to ensure that the currently auto assigned MAC address is guaranteed for this virtual machine, you may consider manually editing the .vmx configuration file to define the MAC address as static. Consult the VMWare knowledge base for procedures and syntax specific to your ESXi product and version. The same actions and considerations should be taken concerning any hypervisor system.

**NOTE:** if the MAC address of the GateManager virtual image changes after the license key is applied (Ref. the GateManager 5 Server Installation STEP 2 guide), the GateManager will lose the licenses and only be operational in trial mode.



## 6. Local IP address of the GateManager

The GateManager is default configured as DHCP client and from the GateManager Console it is now possible to read the IP address:

Press <ENTER> and type status

| Getting Started Summary Resource Allocation Performance Events Console Permissions                                 |  |
|--|--|
| sh: can't create /proc/driver/led1: nonexistent directory  |  |
|  |  |
| Please press Enter to activate this console. e1000: eth0 NIC Link is Up 1000 Mbp                                   |  |
| s Full Duplex, Flow Control: None  |  |
|  |  |
| Status   |  |
| Device Name : GateManager  |  |
| Product : GateManager 9250   |  |
| Registration no. :   |  |
| VM ID : 0000000000   |  |
| Firmware : V9250_13483   |  |
| BIOS : 06/22/12  |  |
| Тіме (UTC) : 2013-12-12 21:09:17   |  |
| Uptime : 7 mins, 55 secs   |  |
| CPU Load : 0.0%  |  |
| 1: lo: <loopback,up,lower_up> mtu 65536 qdisc noqueue state UNKNOWN</loopback,up,lower_up>                         |  |
| link/loopback 00:00:00:00:00 brd 00:00:00:00:00  |  |
| inet 127.0.0.1/8 scope host lo   |  |
| valid lft forever preferred lft forever  |  |
| 2: eth0: <broadcast.multicast.up.lower up=""> mtu 1500 odisc vfifo fast state UP ol</broadcast.multicast.up.lower> |  |
| en 1000  |  |
| link/ether A0:Ac:29:ae:4c:18 brd ff:ff:ff:ff:ff:ff   |  |
| inet 172 16 16 105/24 brd 172 16 16 255 scope global etb0  |  |
| valid lft forever meferred lft forever   |  |
| >  |  |

If there is no DHCP server available for the GateManager installation or the IP address needs to be statically assigned, you will have to use the Appliance Launcher to configure a static IP address.

Download the free Windows tool – Appliance Launcher – here:

http://www.secomea.com/industry/support/download-appliance-launcher/

(Appliance Launcher version 5.4 or newer is needed.)

For the Appliance Launcher to reach the GateManager it need to be launched from a Windows PC on the same broadcast network as the GateManager.

Note: If the GateManager prompts for password, it means that the GateManager has been operational and the password has been changed in the GateManager Portal (see the STEP 2 guide)

The Local GateManager IP address is entered as the WAN/Uplink address.

| <u>About</u> |   | secomea     |
|--------------|---|-------------|
|              | Enter WAN/UPLINK Parameters   |             |
|              | WAN/UPLINK Settings<br>Mode: Static 💌   |             |
|              | IP Address:       172.16.16.106         Subnet Mask:       255.255.255.0         Default Gateway:       172.16.16.1 |             |
|              | ISP Settings<br>Username:<br>Password:  |             |
|              | <u>E</u> xit < <u>B</u> ack <u>N</u> ext >  | Save/Reboot |

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## 7. Verify Installation

The basic installation of the GateManager 5 is complete and the GateManager Administration Web Portal should be possible to launch using the local IP address (see previous chapter):

## https://<local IP>/admin

| T GateManager ×   |     |
|---|-----|
|   | * * |
| GateManager 🕅   |     |
| Administrator Login  Certificate: User name: Administrator  Password: Login |     |
| secomec   | 1   |
|   |     |

Default login is

- User name: Administrator
- Password: gatemanager

You should see a screen like this, which means the server is running as expected.

| Tree Files | Licenses Server                                 | My Account               | About           | Logoff |
|------------|---|--------------------------|-----------------|--------|
| S 📚 🖥 💈 🛱  | 🛕 📾 🔍 🔍 🔶 📥 - ROOT                              |                          |                 |        |
| 🗄 😁 ROOT 🛤 | Domain Activity Accounts Licenses A             | Appliances Ale           | rts Actio       | ons    |
|            | Messages Relays Reports Audit                   |                          |                 |        |
|            | GateManager Status Information                  |                          |                 | ~      |
|            | A Trial Mode - No GateManager License installed |                          |                 |        |
|            |   |                          |                 |        |
|            | GateManager Soft Dongle missing.                |                          |                 |        |
|            | Using GateManager Trial TLS Certificate         | Appliances total         | on Agen         |        |
|            | A Using default Appliance Launcher password.    | GateManager 2<br>VM 9250 | 1               |        |
|            | 🔺 Last Server Backup failed.                    |                          |                 |        |
|            |   |                          | >               |        |
|            |   |                          | -               |        |
|            |   |                          |                 | ~      |
|            |   | GateManac                | er sed          | mea    |
|            | th  | Gotorionag               | €, Secc<br>€ 10 | 0% -   |



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## 8. Post Installation Tasks

## 8.1. Inform the appointed GateManager Administrator

The server installation is finished and next step is for the GateManager Administrator to set up the GateManager server via the Web GUI.

You should pass on the following information:

1. The checklist sheet from section 3. This is needed in order to set up mail settings and determine the browser path to the GateManager

## 8.2. Coordinate Backup of the Server

Refer to Appendix A on how to coordinate a backup strategy with your appointed GateManager administrator.

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## **APPENDIX A, Backup and Restore**

Two different backups should be prepared:

- 1. One time backup of the Virtual Image
- 2. Daily/weekly backup of data

A full restore or reestablishing of the server would require reinstalling the backup version of the Virtual Image, followed by a restore of the latest data backup via the GateManager Administrator Web portal.

## Virtual Image backup (one time event)

Because the License key is bound to the UUID of the virtual image it is important that a copy of the virtual image is made just after the GateManager administrator has received the GateManager Soft Dongle from Secomea and installed it via the GateManager Administration Web Portal.

You must therefore coordinate with your appointed GateManager administrator that he informs you when this has been done.

## **Virtual Image Restore**

It is important to select the "move" option and NOT the "Copy".

Following is screenshots from the various Virtual server products:

### VMWare Server 1.x

| GateMar | nager - Virtual Machine 🛛 🔀  |
|---------|--|
| 2       | The location of this virtual machine's configuration file has changed since it was last<br>powered on.   |
|         | If the virtual machine has been copied, you should create a new unique identifier (UUID).<br>If it has been moved, you should keep its old identifier. |
|         | If you are not sure, create a new identifier.  |
|         | What do you want to do?  |
|         | ◯ Create   |
|         | ⊙ Keep   |
|         | O Always Create  |
|         | O Always Keep  |
|         | OK Cancel  |

#### VMWare Player 4.x/5.x





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### VMWare ESXi Server:



#### Hyper-V Server:

| cation:  | C:\VirtualMachines\GM\GateManager\ Browse   |
|----------|---|
| Settings |   |
| Import   | settings:   |
| • M      | ove or restore the virtual machine (use the existing unique ID)                           |
| 0 00     | py the virtual machine (create a new unique ID)   |
|          | inlicate all files so the same virtual machine can be imported again                      |
|          | spicate air nies so the same virtual machine can be imported again                        |
|          | The same virtual machine cannot be imported again if you do not copy the files unless you |

## Data backup (daily/weekly backup)

The Backup and Restore of the GateManager data is setup by the GateManager administrator in the GateManager Administrator Web Portal (ref. the STEP 2 guide)

This backup is based on a schedule that submits an archive of the database to a FTP server.

The GateManager administrator may ask for you help to establish a FTP server.

#### Data restore (from the daily/weekly backup)

Data restore is done by your appointed GateManager administrator by retrieving the latest backup file from the FTP server, and restore it via the GateManager Administrator Web Portal.

GateManager™ 5 Server model 9250 Installation STEP 1



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