# GateManager™ Server model 8250 / 9250 Installation STEP 2

This document describes how to configure the Secomea GateManager server with the minimum of configuration.

The intended audience for this document is the GateManager Server Administrator.

Version: 4.0, May 2018 Applicable to GateManager version 7.0 or later

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# **Table of Contents**

	Document Version history	3
1.	Introduction	4
	1.1. Prerequisites for configuring according to this Guide	4
	1.2. Related Documents	5
2.	Login and perform basic configuration	6
	2.1. Login to GateManager for the first time	6
	2.2. Optionally upgrade GateManager to the latest version	7
3.	Configuring GateManager environment settings	8
	3.1. Define a Server Name and Browser Title	8
	3.2. Enter/verify the Primary DNS server	9
	3.3. Enter the Public Hostname	9
	3.3.1. Possible error messages when saving:	10
	3.4. Configure mail settings	12
	3.4.1. Mail configuration on GateManager 8250	12
	3.4.2. Mail configuration on GateManager 9250	12
	3.5. Check sending of mails	14
	3.6. Specify the mail sender for Accounts and Alerts	15
	3.7. Setup Server Administrator account(s)	16
	3.8. Change password for Appliance Launcher (AL) access (Model 9250 only)	18
4.	Ordering licenses and setup order information	20
	4.1. Example of an Info Form:	21
5.	Installing licenses	22
	5.1. Activation License(s)	22
	5.1.1. Verifying if GateManager is Online	22
	5.1.2. Verifying that activation was successful	23
	5.2. TLS certificate.	24
6.	Web Server Certificate (Optional)	27
	6.1. How to create and install a WEB Certificate (SSL Certificate):	27
APP	PENDIX A, Setting up Backup	29
	FTP Backup 29	
	Troubleshooting FTP backup	29
	SMB Backup (Model 8250 only)	30
	Trouble shooting SMB backup (Model 8250 only)	31
APP	PENDIX B, Upgrading GateManager firmware	33
APP	PENDIX C. GateManager Hosting License	35
	About the Hosting license	35
	Installing the Hosting license	35
	Using the distributor license features.	35
	Ordering Demo Licenses	36
	-	

APPENDIX D. Recover lost Server Administrator password	37
Recovery on GateManager model 9250	37
Recovery on GateManager model 8250	37
APPENDIX E. Manual installation of licenses	39
Server Activation License (Soft Dongle)	39
Notices	41

# **Document Version history**

- 3.5 Initial version
- 3.6 Clarified difference between 8250 and 9250 in Section 4 (Customer ID). Introducing this version history.
- 3.7 Section 3.6 was corrected to clarify the "Account mail from" syntax.
- 4.0 Various changes subsequent to R7.0 and introduction of License Portal for license distribution
- 4.1 Clarify usage of Server Administrator account, 3.7



# 1. Introduction

# 1.1. Prerequisites for configuring according to this Guide

This guide will assist you to configure the GateManager with the minimum of settings, and which typically will be sufficient for running in production.

Prerequisites:

- The GateManager has been installed according to the document: Installation STEP 1 guide by the IT department or a person with IT authorities. This document exists in a version specific to GateManager model 8250 or 9250
- Make sure that the following information is at hand before configuration can be started. This information should be provided by the person that installed the server according to the STEP 1 guide:

Required information about th	ne GateManager installation
<gm address="">:</gm>	
The public identification that the GateManager can be reached on from the Internet and which Secomea uses to create the Software License Dongle.	
It is either a static IP address or a <b>Fully</b> <b>Qualified Domain Name</b> (FQDN).	
FTP Backup Share Credentials	IP:
This is optional, but highly recommended!	FTP dir.:
	Name:
	Password:
SMB Backup share credentials	IP Address:
Available for model 8250 only	SMB share:
	SMB Workgroup:
	SMB Directory:
	SMB User:
	SMB Passwd:



Page 4 of 41

# 1.2. Related Documents

The following guides are available from the Secomea partner website - <u>www.secomea.com</u>

#### GateManager Server 8250 Installation STEP 0

This guide describes preparation of the Linux platform before GateManager installation. If installing at a hosting center, the VM image with a Linux installation with preinstalled hosting center tools may be provided. This guide uses CentOS as example.

#### GateManager Server 8250 Installation STEP 1

This guide describes the installation of the GateManager server on a Linux platform. This step is typically done by the IT department.

#### GateManager Server 9250 Installation STEP 1

This guide describes how to deploy the GateManager 9250 virtual image on a virtual hosting server.

#### GateManager Server 8250 / 9250 Installation STEP 2 (THIS GUIDE)

This guide 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.

#### GateManager PREMIUM Domain Administration

This gives an overview of the daily administration tasks, such as organizing accounts and devices in Domains, provide specific access to specific equipment, create Alerts etc.



# 2. Login and perform basic configuration

This section will focus on configuring the minimum settings required to make the GateManager server fully operational.

In the following, we will refer to settings like  $\langle GM | Address \rangle$  or FTP server credentials from the table in section 1.

# 2.1. Login to GateManager for the first time

To complete the next section, we assume that you can connect to the GateManager Public IP address (private/local IP address can also be used).

We recommend the web browser Chrome for best user experience, or alternatively Firefox or Safari. Microsoft Internet Explorer (minimum version 9) can be used, but Microsoft web browsers are generally inefficient for interpreting java scripts.

1. Launch the GateManager with the following url:

https://<GM Address>/admin

Default credentials are:

User name: Administrator (capital A)

Password: gatemanager

GateManager ×		X
そ > C (金 ) 地野 :// 「 」 」 「 //admin		\$ 2
GateManager sectmea		
Administrator Login <ul> <li>Certificate:</li> <li>User name: Administrator</li> <li>Password:</li> <li>Login</li> </ul>		
	secomea	



Page 6 of 41

2. When logging in, a splash screen will inform about the general server's current status:

Tree Files	Licenses Server				My Acc	ount Ab	out L	ogoff	
S 🕆 🖥 🛢 🗖	🔔 💼 🥥 🚿 🔍	🗢 🔿 📠 - ROOT							
🗄 🚖 ROOT 🕅		Domain Activity	Accounts	License	es Appliances	Alerts	Actions		
		Messages Relays	Reports	Audit					
	GateManager Status Informat	ion		×				~	
	A Trial Mode - No G	ateManager License	installer	4					
	A Gatemanager Solt	Dongle missing.							
	🖼 Using GateManage	er Trial TLS Certifica	ate		use Appliances	total on	Agent		
	🔺 Using default Appl	iance Launcher pas	ssword.		GateManage VM 9250	r 2 1			
	🔺 Last Server Backu	p failed.							
		<					>		
								$\checkmark$	
					— 🏗 GateMa	naaer	ടലാം	ea	
							<b>a</b> 1009	6 🔻	

 Trial Mode. This indicates that the GateManager does not have a unique TLS certificate installed. The GateManager will be fully functional.

Installing a TLS certificate will give your GateManager a unique identity, which increases the security, as your SiteManager will then be bound to this server and fully prevent man-in-the-middle attacks through identity spoofing.

GateManager Soft Dongle missing. This means that the GateManager is running in DEMO mode. In DEMO mode, the GateManager supports one LinkManager one LinkManager Mobile and two connected Appliances (SiteManager or TrustGate). It is not allowed to use GateManager for production purposes in DEMO mode.

Installing a Soft Dongle will remove the LinkManager limit, and increase the max number of appliances limit (see **Section** 4 on page **20** for more info on ordering licenses).

- Using default Appliance Launcher password. The backend system also called GateManager OS is still using default password. This password is only used by the Appliance Launcher and which can only access the GateManager OS by broadcast from the local network. Still it should be changed to prevent unintended access. (Menu: Server > AL Password).
- Last Server Backup failed. The backup has not been configured yet. See APPENDIX A, Setting up Backup.

## 2.2. Optionally upgrade GateManager to the latest version

It is a good idea at this time to check if there is a newer GateManager firmware version available (check the current version in the About section, and check the Secomea website for a newer version).

A new GateManager version may include the latest bug fixes, support for new appliance types etc.

Refer to APPENDIX B, Upgrading GateManager firmware for details.





Page 7 of 41

# 3. Configuring GateManager environment settings

To make the GateManager fully operational, you must configure the following minimum settings on the GateManager:

- Define a Server Name and web browser title
- Enter/verify the primary DNS
- Public DNS name or IP address that is port-forwarded to the GateManager.
- Setup and verify email relay settings.
- Create a new Server Administrator account and/or change the administrator account (new password and enable certificate). Also consider making a new server administrator account for access by your Service Provider.

#### 3.1. Define a Server Name and Browser Title

- 1. Login with the default administrator account
- 2. Select Server > Config, and select Edit for the Basic Setup section.

Tree Files Licenses	Server			My Account	About	Logo	ff
Status Log Confi	g Certificates	Routes	Tools	Backups	AL Passw	ord	
GateManager Confi	guration						Â
Edit							
▼ Basic Setup							
Server Name:							
Server Browser Title:							
Customer Id:							=
Server Serial Number:	9250:00:0C:29:9B:AF:D	D					_

1. Enter a unique name for the server, and the information that should be displayed as browser name when accessing the server using the GateManager Administrator web portal and LinkManager Mobile. Select **Save**.

Tree Files License	s Server			My Account	About	Logoff
Status Log Confi	ig Certificates	Routes	Tools	Backups	AL Passwo	ord
GateManager Confi	guration					
Cancel Save Restart	server:					
▼ Basic Setup						
Server Name:	Acme_GM01					
Server Browser Title:	Acme GateManager 01					
Customer Id:						=
Server Serial Number:	9250:00:0C:29:9B:AF:DE	)				



Page 8 of 41

## 3.2. Enter/verify the Primary DNS server

The GateManager will need access to a DNS server, in order to resolve the external hostname of itself (if used), and for resolving the mail relay server and NTP server.

1. For model 8250 – DNS and NTP settings are configured as part of the STEP0 guide (settings are entered from the Linux command line).

**For model 9250** - Under **DNS and NTP Settings**, ensure that there is a valid DNS server entered. If the GateManager is receiving its WAN address by DHCP, this setting will be automatically populated with the DNS received from the DHCP server.

Tree Files Licenses Server			Му	Account	About	Logof	f
Status Log Config Certificates	Routes	Tools	Backups	AL Passw	vord		
GateManager Configuration							Â
Basic Setup							
WAN (Public/Private) Interface Setup							
LAN Interface Setup							
Primary 172.16.16.1     DNS:     Secondary 0.0.0.0     Private     Master 0.0.0.0			D S P D	ynamic NS ervice: etect Nat resence: ynamic NS	Disabled		ш
DNS: Master DNS Domain: Master DNS Subnets:				ostname: ynamic NS serid: ynamic NS assword:		_	

#### 3.3. Enter the Public Hostname

Be aware that the Public Hostname is encoded into the activation license (Soft Dongle) and changes to these settings may invalidate the license.

**NOTE** if <u>no</u> Public Hostname (FQDN) has been assigned to the server, then you <u>must</u> enter the Public IP address in the External Public Hostname field.

 Under WAN/LAN/Primary (Public/Private) Interface Setup enter the FQDN (Fully Qualified Domain Name) or the Public IP address for this server and press Save.

Files Licenses My Account About Tree Server Logoff Status Routes Tools Backups Log Mail Config Certificates AL Password GateManager Configuration Cancel Save Restart server: Basic Setup - WAN/LAN (P WAN External Public Hostnan DHCP 💂 IP 172.16.16.34 Address Subnet Public GTA Port 255.255.255.0 55000-59999 Mask: Defaul 🎁 GateManager secomea

▲ Do NOT select Restart server yet!

GateManager™ Server model 8250 / 9250 Installation STEP 2



Page 9 of 41

**Note:** The layout and title of this page varies slightly between GateManager models 8250 and 9250.

#### 3.3.1. Possible error messages when saving:

If the system reports Unknown **hostname** it can be related to the fact that no DNS server has been configured, or the DNS server is not working.

In this case, you will have to contact the IT administrator responsible for the GateManager installation and/or see the menu **DNS and NTP Settings** (for GateManager 8250 see the STEP0 guide, as the settings are controlled by the Linux OS).

Tree Files License	s Server					My Account	About	Logoff
Status Log Mail	Config	Certificates	Routes	Tools	Backups	AL Passv	vord	
GateManager Con	figuratio	n						Î
ERRORS IN CON ext_public_hostname: Un	FIGURAT	TON NO me: 'gm.company	CHANG	ES SAV	ED			E
Edit								
▶ Basic Setup								
▼ WAN/LAN (Public/Priv	vate) Interfa	ce Setup						
WAN DHCP	]	(	External Public Hostname:	Dige Se	111.02			
Address: 172.10.10. Subnet 255.255.25	5.0		Public GTA	55000 5000	0	_		
Default 172.16.16.	1		range:	0000-0999	8			
			Internal					
Etbernet			Internal Subnets:	* 10.0.0/8	172.16.0.0/1	2 192.168.0.0/1	16	
Gateway: Ethernet proprior			Internal Subnets:	10.0.0.0/8	172.16.0.0/1	2 192.168.0.0/1 2001 teManag	ie Jer sec	dmea
Gateway: Ethernet	s Server		Internal Subnets:	* 10.0.0/8	172.16.0.0/1	2 192.188.0.0/1	About	odmea
Gateway: Ethernet Tree Files License	s Server	Certificates	Internal Subnets: Routes	10.0.0.0/8	172.16.0.0/1	2 192.188.0.0/1		:omea
Tree Files License	s Server Config	Certificates	Internal Subnets: Routes	10.0.0.0/8	172.18.0.0/1	2 192.168.0.0/1 <i>teManag</i> My Account AL Passw	About	Logoff
Tree Files License Status Log Mail GateManager Con	s Server Config	Certificates	Internal Subnets: Routes	Tools	172.16.0.0/1	2 192.168.0.0/1	About	Logoff
Tree Files License Status Log Mail GateManager Con	s Server Config	Certificates	Internal Subnets: Routes	Tools	172.16.0.0/1	2 192.168.0.0/1	About	Logoff
Tree Files License Status Log Mail GateManager Con Edit. • Basic Setup	s Server Config	Certificates	Internal Subnets: Routes	Tools	172.18.0.0/1	2 192.168.0.0/1	About	
Gateway:         Ethernet         Files         License         Status       Log         Mail         GateManager         Edit         Basic Setup         WAN/LAN (Public/Print)	s Server Config figuration	Certificates N	Internal Subnets: Routes	Tools	172.16.0.0/1	2 192.168.0.0/1	About	
Gateway:         Ethernet         Ethernet         Files         License         Status       Log         Mail         GateManager         Edit         Basic         WAN/LAN (Public/Print         VDNS and NTP Settings	s Server Config figuration	Certificates N	Internal Subnets: Routes	Tools	172.18.0.0/1	2 192.168.0.0/1	About	Logoff
Gateway:         Ethernet         Ethernet         Files         License         Status       Log         Mail         GateManager         Edit         Basic Setup         WAN/LAN (Public/Print         V DNS and NTP Settings         Primary         DNS:	s Server Config figuration	Certificates n ce Setup	Internal Subnets: Routes	Tools	172.16.0.0/1	2 192.168.0.0/1	About	
Gatevay: Ethernet Ethernet Tree Files License Status Log Mail GateManager Con Edit > Basic Setup > WAN/LAN (Public/Print V DNS and NTP Settings Primary DNS: 0.0.0 DNS:	s Server Config figuration	Certificates n ce Setup	Internal Subnets: Routes	Tools	172.16.0.0/1	2 192.168.0.0/1	About vord	

You can use the Tools menu to speed up the troubleshooting process

Tree	Files	Licenses	Server							
Statu	s Log	Config	Certificates	Routes	Tools	Backu				
Trace	Trace and debug tools									
Host: g	m.company.	com	Port:							
Ping	Trace Rou	te TCP Ping	UDP Ping							



Page 10 of 41

2. When the settings have been configured and saved correctly, select the "Restart now" button.



3. The GateManager server will restart and will become online in less than a minute.





Page 11 of 41

# 3.4. Configure mail settings

The ability to send email is absolutely essential to the GateManager!

#### 3.4.1. Mail configuration on GateManager 8250

Model 8250 always uses the Linux systems mail client to either send or relay mails. It is not configured in the GateManager menus. Refer to the STEP0 guide for details.

The only, but important, setting to configure in the GateManager menu is the "Default Mail From" address. This consist of three parts that constitute the full sender address format **name <mailbox@domain>** that recipients will see in all mails sent from this GateManager.

Tree Files Licenses Server	My Account About Logoff
Status Log Mail Config	Certificates Routes Tools Backups Admins Advanced
GateManager Configuration Bit Bit Basic Setup Basic Setup Basic Setup Basic Setup	
🕨 🏯 Secondary (Private) Interface Set	up
🕨 🎼 Go To Appliance / Relay Setti	
▼ 🔤 Mail Setting: 💡	
Default Mail From: Cate Manager	< do-not-reply @ secomea.com >
Max SMTP Recipients: 25	Test Mail To: hkk@secomea.com
	From: CateManager≺do-not-reply@secomea.com≻
	Send Mail
	<b>v</b>
	🔐 GateManager secomea

Refer to the light-bulb for further explanation.

#### 3.4.2. Mail configuration on GateManager 9250

The GateManager 9250 has an integrated mail server, but can also be configured to relay mail via an external SMTP server.

In the GateManager configuration click **Edit** and enter the **Mail Settings** section.

Here you should consider as a minimum the "Default Mail From" and the Local SMTP Domain.

Contact your IT administrator or you ISP for necessary information.



Page 12 of 41

ree Files Licenses	Seve							
Status Log Mail	Config Certificates	Routes	Tools	Backups	AL	Password		
Cancel Save Restart se	irver;							
Basic Setup								
A WAN/LAN (Public/I	Private) Interface Setup	-						
Band NTP Settin	egn							
🖌 📑 Go To Appliance / F	Relian Tonga							
🗸 😡 Mail Settings 🕜								
Default Mail Fram: Gate	:Manager	< do-not	-reply		0	secomea.co	m	,
Lacal SMTP Damain:	mail.secomea.com							
Mail Relay Host:								
Authentication (Ise):								
Authentication User: Authentication Password:								

Refer to the light-bulb help for further explanation.

**HINT:** If you cannot get access to your corporate SMTP server, you can use web mail services such as Gmail or Hotmail/Live-mail as relay. The following example uses Gmail (you will need to have a mail account on the mail server, and the relay port 587 must be open outgoing in the corporate firewall)

🕶 🥁 Mail Settings	9
Default Mail Fron	n: GateManager do-not-reply
Local SMTP Domain:	nail.secomea.com
Mail Relay Host:	:mtp.gmail.com:587
Authentication n User:	nemail@gmail.com
Authentication . Password:	
Mail Relay uses TLS:	

**NOTE:** It has not been verified if using e.g. Gmail for large volumes of emails would cause problems. So using such public mail services should only be used for demonstration purposes or as an interim solution.



Page 13 of 41

# 3.5. Check sending of mails

You should check with the Test Mail option that your settings are correct and are accepted by recipient mail servers.

1. Enter the Mail Settings section and type your email and click Send Mail

✓ Mail Settings ♥	
SMTP Listener Address: Max SMTP Mail Size: Max SMTP Recipients: Enable SMTP Debug:	Test Mail To: mail@secomea.com From: GateManager <do-not-reply@secomea.com> Send Mail</do-not-reply@secomea.com>

2. The resulting email would look like this:



**HINT:** If you are establishing a dedicated relay server for the GateManager instead of using your existing corporate relay server, your emails could be rejected. Try sending to a Gmail or Hotmail/Live-mail account as described above, and always check your Spam filter.



Page 14 of 41

# 3.6. Specify the mail sender for Accounts and Alerts

Starting from GateManager Release 7.0 there will no longer be any mail sender options to specify from the Accounts or Alerts Settings. All "Mail From" settings are handled from "Mail Settings".

If you have changed the default setting for "Account Mail From" or Alert "From Address" you will still see the fields being available.

It is recommended that you clear the contents of these fields, which will automatically let the "Mail Settings" take effect for all mail.

If you have a very special need for differentiating on the mails triggered by alerts and account mails, you can leave the fields as is, but you should still very strongly consider deleting the contents of the fields as shown below:

#### Delete "Account Mail From" if exists:

M Mobile Idle Timeouti	60	minutes	Default Account Language:	English T	
M Mobile Tale Tilleoud	00		Deradic Hecodine Earlydager	argion	
3M Portal Idle Timeout:	480	minutes	Account Mail From:	CateManager≪no-reply@mydomain.	∞m≻
GM Portal Tree Sort Limit:	150		Blind Copy Mail Address:		
GM Portal Table Sort Limit:	500		GM User Max Inactive:	10 minutes	
Enable SMS Login:	•		LM Server Addresses		
Failed Login Max Attempts:	3		SM Server Addresses:		
Failed Login Lockout Time:	1 20	seconds			

#### Delete Alert "From Address" if exists:

•	🛕 Alert Settings	
	Alert Language:	English
	From Address:	Gate Manager ≪no-reply@mydomain.com≻
	Blind Copy Email Address:	

By deleting the contents of these fields you are assured that all "Mail From" settings are handled by the Mail Settings described in the previous section.



Page 15 of 41

# 3.7. Setup Server Administrator account(s)

It is highly recommended to change the default Server Administrator account password (gatemanager), to something stronger. It is also advisable to enable two factor login for the account by changing Authentication from "User name and Password" to "X.509 Certificate..".

However, if the account is changed to use X.509 certificate, and the certificate is lost (e.g. it could be discarded by the email server that receives the email with the certificate attachment), you would lock yourself out of the server completely. Therefore, it is highly recommended to create a <u>new</u> Server Administrator account, before changing or disabling the default account.

The following explains the necessary steps:

1. Select the Tree tab, and enable viewing of user accounts, by clicking the account icon so its background turns light blue. You will now see the account that you are currently logged in with displayed with a green background.

Tree Files Licenses Server				My Account	About	Logoff
🖉 🕆 🔚 🕄 🛱 🕰 🛋 🗢 🍼	< → ♣	- ROOT				
E- ROOT RE	Domain	Activity	Accounts	Licenses	Applia	nces
- 🔂 Administrator ()	Alerts	Actions	Messages	Relays	Reports	Audit
	- Custo	mer Doma	in Overview	FREE		
	Doma	ain name:	ROOT			
	Doma	ain token:	🗐 🐌			
	EasyS	Service Level	: FREE 🤗			

2. Click on the Administrator account, and insert your own name and email for the account. Select **Save.** 

Tree Files Licenses Server		My Account	About	Lonoff
Tree Thes Licenses Server		My Account	About	LOGOTI
	듣 🔿 🤱 - Administrator - drag	to join: 🕵		
	Account Joined Domains	Audit		
- 🚞 ~TinyClients				
- 🛼 Administrator ()	Account Administrator			
	Account			
	Role: Server Administrato	)r		
	Account Default			
	Description:			
	Group			٨
	Member:			A
	Name: John Doe			
	Email: John@acme.com			
	Change Password			~~~~
	Save Cancel			
	•			÷.
		GateManao	Pr sec	omea



Page 16 of 41

3. Standing in the Root domain, select **Accounts** and click the plus sign to create a new account:



4. Fill in the following minimum settings:

Tree Files Licenses Server	My Account About Logoff
🖉 🐂 🚉 🚍 🔔 📾 🛷 🍼 🤇	🖌 🔶 🔿 💄 - [New account]
	Account Joined Domains Audit
– 🔂 Administrator ()	Account Name: Account Role: Account Language: Description:
	Group Member:
	Person Name: Email: Johnd@acme.com Mobile: Person Info:
	Disabled: Auto-Disable: Never  Created: 2013-12-18 Renewed: Expires:
	Authentication: X.509 Certificate (with password)  Duration: Permanent  Mail Template: Use default  Message:
	Deliver to:
	New password:



Page 17 of 41

5. In the mailbox of the email you entered, you should now receive an email with the certificate attached



6. You now have a backup Server Administrator account, and you can safely change the password of the default Server Administrator account, and also enable X.509 authentication for it, or you could even disable it.

▲ DO NOT LEAVE THE DEFAULT ADMINISTRATOR ACCOUNT WITH THE DEFAULT PASSWORD, AS THE ACCOUNT IS EXPOSED ON THE INTERNET.

Also consider creating a new Server Administrator for your GateManager Service Provider, in case you want remote support for additional setup of the server.

# 3.8. Change password for Appliance Launcher (AL) access (Model 9250 only)

**Note:** Model 8250 cannot be configured using the Appliance Launcher. Low level network settings are configured directly in the Linux OS. See the STEP0 guide for details.

Select Server > AL Password, and define a new password.

Tree	Files	Licenses	Server				My Account
Status	Log	Config	Certificates	Routes	Tools	Backups	AL Password
Chang	e App	oliance	Launcher	Passwo	rd		
New pass	word:						
Repeat pa	assword:						
Confirm P	assword (	Change Ca	ancel				

Note that this is only for preventing unauthorized access to the GateManager network settings from the local network of the GateManager.

The password is not used for accessing the GateManager Administrator web portal, but used only for accessing a limited web GUI for the embedded OS



Page 18 of 41

on which the GateManager runs. All settings configurable by the Appliance Launcher can also be configured from within the GateManager Administrator web portal.

## CONGRATULATIONS

If you have setup the GateManager according to the previous sections, the GateManager will be fully operational - but for demo or trial purposes only.

For operating the GateManager in production mode, you should install license certificates as explained in the following section.

For an introduction to the basic operation of the GateManager Administrator interface, refer to this guide:

http://info.secomea.com/premium



Page 19 of 41

# 4. Ordering licenses and setup order information

By default, the GateManager is running in Trial mode, which means it supports only one LinkManager, one LinkManager Mobile and two connected Appliances (Appliances being SiteManagers and/or TrustGates).

You will need to install an activation license (aka Soft Dongle) to unlock the LinkManager and Appliance limits, and allow the GateManager to be used for production purposes; you will also need a TLS certificate to prevent potential man-in-the-middle attacks.

If you are ordering for a GateManager model 8250 skip to **step 3**. For a model 9250, proceed with the following steps to set Customer ID.

#### 1. Enter the Licenses menu



2. The First time you enter the menu you will be prompted to enter a Customer ID that will give your GateManager a unique identification

Press **Save** and the GateManager will automatically reboot.

3. Enter the menu Licenses → Order. You now have two options:



You will be using the License Portal if you have been provided with a login for the portal.

Otherwise press the [Info Form] button and fill in the form. The form will be mailed to your point of purchase including the necessary information about you GateManager, in order to create your license keys.



Page 20 of 41

# 4.1. Example of an Info Form:

ree Fi	iles						-
	10.5	Licenses	Server		My Account	About	Logo
Status	Sho	rtage Ir	istall Or	rder			
order Li	cens	ses					
elect Lic	ense F	Portal only	r if your poir	nt of puchase I	has informed you	to use this.	
not, or if i	in dou	bt, fill in the	Info Form	opens belo	ow) to provide ne	eded inform	nation to
our point o	of pure	chase.					
icense	Purc	hase Inf	ormation	n			
se this for	m to s	ubmit inforn	nation to yo	ur point of pur	chase in relation	to your lice	nse ord
ccount sta	tus to	ensure creat	tion of the c	orrect licenses	only a specificat	ion of your	current
Your po	oint (	of purcha	ase:				
Company:	Distril	burtor X					
Contact:	My sa	les guy in cont	act		Res	set	
E-mail:	accou	nting@distribu	tor.com		Sav	/e	
Order R	lefer	ence:					
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Order R GateMana Hostname LicenseID	ger Mo (FQD ::	ence: odel: 9250 N): gm.aci qRCjs	me.com 3IOCRBycH	NSIsoq7N2P-	JEf		
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Order R GateMana Hostname LicenseID Order num Your comp Your name Your E-ma	defer ger Ma (FQD :: hber: bany: e: iil:	ence: odel: 9250 gm.act qRCjst 20164 Your of Acme Mr. X suppor	me.com 3IOCRBycH 321 wn purchase Inc t@acme.com	NSIsoq7 N2 P-	JEf related to this info	o submissio	'n
Order R GateMana Hostname LicenseID Order num Your comp Your comp Your name	defer ger Me (FQD :: hber: bany: e: iil:	ence: odel: 9250 gm.aci qRCjsi 20164 Your on Acme Mr. X suppor	me.com 3IOCRBycH 321 wn purchase Inc t@acme.com	NSIsoq7N2P-	JEf related to this info	o submissio	'n
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Order R GateMana Hostname LicenseID Order num Your comp Your comp Your name Your E-ma	defer ger Ma (FQD ::: nber: pany: e: iil:	ence: odel: 9250 N): gm.aci qRCjs: 20164 Your of Acme Mr. X suppor	me.com 310CRBycH 321 wn purchase Inc t@acme.com	NSIsoq7 N2P-	JEf related to this info	o submissio	и
Order R GateMana Hostname LicenseID Order num Your comp Your name Your E-ma	ger Ma (FQD :: hber: aber: 2:	ence: odel: 9250 N): gm.aci qRCjs: 20164 Your or Acme Mr. X suppor	me.com 310CRBycH 321 wn purchase Inc t@acme.com	NSIsoq7 N2 P-	JEf related to this info	o submissio	'n
Order R GateMana Hostname LicenseID Order num Your comp Your comp Your E-ma Comment:	efer ger Ma (FQD ::: aber: abe	t account	me.com 3IOCRBycH 321 <i>wn purchase</i> t@acme.com	NSIsoq7N2P-	JEf related to this info	o submissio	'n
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Order R GateMana Hostname LicenseID Order num Your comp Your name Your E-ma Comment: Your E-tif	efer ger Ma (FQD :: ober: aber	ence: odel: 9250 N): gm.aci qRCjs: 20164 Your or Acme Mr. X suppor	me.com 310CRBycH 321 wn purchase Inc t@acme.com	NSIsoq7N2P- order number ense statu DEMO	JEf related to this info	o submissio	'n



Page 21 of 41

# 5. Installing licenses

# 5.1. Activation License(s)

If the GateManager is online (connected to the Internet), Activation Licenses will automatically be installed on the GateManager by the License Portal (The order in the License Portal may have been entered by you or your point of purchase)

#### 5.1.1. Verifying if GateManager is Online

If Online the GateManager is capable of being automatically activated and/or having additional licenses automatically installed by the License Portal.

Check if the GateManager is Online Under Server  $\rightarrow$  Status:

ſ	Tree	Files	Ľ	icenses	Server				My Account	About	Logoff
ſ	Status	Log	) T	Mail	Config	Certificates	Routes	Tool	Backups	AL Pas	sword
	Atte	ntior ng Ga	n n teM	eede Ianage	d! r Trial TL	S Certificate	View				
	GateM	anage	er S	Status							
	Server ti Firmware Serial nu License Last bac	ime: e versio Imber: ID: :kup:	n	20 Ga 92 qR 20	16-07-04 teManage 50:00:00 Cjs3l0CR 16-07-04	4 22:24:52 (20:2 r 9250, v9250_7 C:29:23:7B:04:A( BycHNSIsoq7N2P 4 04:02:00	4:52 UTC) 0.16267 C1010C2 0-JEf				
ſ	GateMar	nager:		Co	nnected t	o Service GateMai	nager at 193	.242.15	5.100 (tls)		
1	Databas	e Usage	2:						0 %		
	Databas	e Memo	ry:	25	0 MB						
	Disk Us	age:							0%		
	Databas	e Stora	ge:	1	KB						
	Firmware	g Storag Storag	ge:	01	MB MB						
	Internal	Backup	Sto	rage: 0 I	мв						
	Domains			3							
	Account	s		1							
	Appliand	es:		1							
	Alerts:			0							
	License	Pools:		20	)						
	Message	25:									
	Refrest	C	ompa	act	Backup	More >>					

<u>If your GateManager is not online</u>, the email from the License Portal confirming the order will have the licenses attached for manual installation.

The same email will contain instructions for installations. If in doubt, refer to **APPENDIX E. Manual installation of licenses** 



Page 22 of 41

#### 5.1.2. Verifying that activation was successful

Before Activation the "Max. Appliances license" in the tree view will be red and show "0".



After activation this value will be 25-5000 according to the ordered GateManager license agreement.

In ordering the GateManager with **EasyService** the value will show 5000. If you have ordered **Limited Service** agreement, you would have started out with an Appliance license of 25 and the screen will show:



Max Appliance Upgrades under the Limited Service agreement can be purchased separately, and are installed the same way.

If additional licenses were ordered, they will be show with the order number as description:





Page 23 of 41

## 5.2. TLS certificate.

Even if your GateManager is online and the activation license(s) were installed correctly, you will have to install the TLS certificate manually.

When logging into the GateManager, you will see the following information:

Tree Files Licenses Server		My Account	About Logoff
S 📚 🖹 🚨 🖬 📣 🛋 🔍 🍼	🗢 🔿 뤒 - ROOT		
ROOT     See     Correct Clients     Corr	DomainActivityAccountsAlertsActionsMessages	Licenses Aj Relays Repor	opliances ts Audit
└─ I hs.gatemanager.com - 64.95.64.2	Customer Domain Overview -	- FREE	<u>^</u>
GateManager Status I	nformation	×	
Using Gatel	Nanager Trial License Backup failed.		Appliance GateMans 8250
	LinkM SSL/V	anager 1 PN 1	
	< III		Þ
۰ III >			
	<b>2</b>	GateManao	er sechmed

The GateManager is fully functional, but "Trial License" indicates that it is not advised to run the GateManager in production mode, as it may be prone to man-in-the-middle attacks.

You will receive the TLS certificate file as attachment to an email from the License Portal. The same email will include the following instructions.

1. Save the ZIP file attachment from the email to your computer

(If you cannot locate the email, and you have an account on the License Portal, you can login and download the file from the Order History)



Page 24 of 41

2. In the GateManager Portal enter the menu Server --> Certificates and scroll to section **TLS Certificate**.



3. Select Install and upload the zip file (you should NOT unzip the file prior to the upload).





Page 25 of 41

If successful, you will receive this message:



#### The TLS certificate is now installed:







Page 26 of 41

# 6. Web Server Certificate (Optional)

The GateManager is now fully functional, but you will notice a https security warning in your browser address bar when logging in ( Determined in the security). This is because the local CA certificate that is auto-generated for this GateManager installation is used as Web server certificate, and is not signed by a publicly recognized certificate authority.

The Web Server certificate and private key are used to authenticate your server when accessing the server from a browser with the HTTPS protocol. If you do not use a Web Server Certificate issued by a publicly recognized certificate authority, the browser will issue a SSL warning of some form, warning users that the identity of your GateManager server cannot be validated. You can use the "Make CSR" button below to create a "Certificate Signing Request" file suitable for ordering a properly signed certificate.

No WEB Server Certificate:

🖹 https://tg260.dyndns.org/admin

Using standard SSL Certificate:

https://gm21.secomea.com/admin

Using SSL Certificate with EV (Extended Validation)

Secomea A/S [DK] https://gm07.secomea.com/admin

# 6.1. How to create and install a WEB Certificate (SSL Certificate):

1. Make a CSR file on your GateManager (requires GateManager v.5.4 or later) – The CSR file is a 2048 bit format.



Page 27 of 41

2. Find a certificate provider of your choice such as GeoTrust, GlobalSign, Thawte, AlphaSSL etc. You will use the CSR file just generated in this process. Look for SSL Certificate or a WEB Server Certificate. If a Server platform is needed in the selection process you can specify e.g. Apache.

**Note:** When you apply for a certificate by the authorization service, the FQDN you provide as the GateManager's FQDN must match exactly the entire FQDN configured in the GateManager. Also the format of the certificate must be SHA-1 or SHA-2, and it should be a .PEM format (or alternatively PKCS #8).

This is an example of requesting the certificate:



3. You will most likely receive emails with instructions on how to proceed. Important is that you receive an SSL certificate that you can install as follows:





Page 28 of 41

# **APPENDIX A, Setting up Backup**

Backup will ensure that you can recover GateManager data including the database and the GateManager settings/licenses. This does not include a backup of the appliance firmware in the Files section.

**Note:** If running GateManager virtualized it is advised to take a backup of the server host once and for all. Stop the GateManager virtual machine and take a copy of the images (a so called "year-0" copy). In case the entire GateManager server need to be restored you just have to restore the "Year-0" copy and restore the data-backup (More details on restoring a "year-0" backup can be found in the STEP 1 guide).

## **FTP Backup**

A clear advantage of FTP backup is that the FTP server does not have to be in the same location as the GateManager server and thus subsequently represents an additional security measure in the event the server physically disappears.

Select **Server**  $\rightarrow$  **Config** and expand the **Server Backup** section. Fill in the FTP settings according to the information. Press the **[Save]** button. It is not necessary to restart the server.

Tree Files Lice	enses	Server				My Account	About	Logof
Status Log (	Config	Certificates	Routes	Tools	Backups	AL Password		
GateManager Co Cancel Save Resta > Basic Setup > WAN/LAN (Public	onfigur art server :/Private)	ation :: 🔲 ) Interface Setup	•					
DNS and NTP Setti	ings							
Go To Appliance /	Relay Se	ttings						
Daily 2 Backup UTC Hour: UTC Keep local 3 backups: days	[023]	FTP Backup: FTP Host: 1 FTP Directory: 2 FTP User: a FTP Password: •	92.168.100. store/gm01 cmebackup	200			]	

## Troubleshooting FTP backup

When an FTP backup is configured, a backup to the FTP server will be scheduled to run at 04:00 every night. For testing you can perform a manual backup as shown below.

Select Server → Status and press the [More] button to see the latest backup log. Press the [Backup] button to manually start a backup process.



Page 29 of 41



The **Last Backup Log** will potentially show an error, originating from before the FTP backup was configured.

When the backup has finished it must show "FTP Backup succeeded" followed by "Exported Backup Done".

## SMB Backup (Model 8250 only)

**Note:** Support for SMB backup is possible, but generally not recommended. Use FTP if possible.

Since the SMB backup feature is not fully supported, it is recommended that the share is made to match the settings of the share shown in example below.

Select **Server**  $\rightarrow$  **Config** and expand the **Server Backup** section. Fill in the SMB settings according to the information in the table from the Introduction section.



Page 30 of 41

Tree Files Licenses Server	My Account About Logoff
Status Config Certificates Routes Admins Ad	vanced
GateManager Configuration Cancel Save Restart server: Basic Setup Basic Setup Basic Setup	
Secondary (Private) Network Interface     Go To Appliance / Relay Settings     Server Backup	
FTP Backup: FTP Host: 172.16.15.11 FTP	SMB Backup: SMB Share: //172.16.15.12/backup/
FTP User: Secomea FTP Directory: /array1/ftpbackup/gm178a FTP	Workgroup:       SMB       Directory:       Jgmbackup       SMB User:       secomea
	Password:
	🏥 GateManager secomea

# Trouble shooting SMB backup (Model 8250 only)

When an SMB backup is configured a backup will be scheduled to run at 04:00 every night. For testing you can perform a manual backup as shown below.

Select Server  $\rightarrow$  Status and press the [More] button to see the latest backup log. Press the [Backup] button to manually start a backup process.





Page 31 of 41

When the backup has finished it must show "SMB Backup succeeded" followed by "Exported Backup Done".

Example of a successful SMB backup:



Example of a failed SMB backup:

The SMB Backup failed with the text *smbclient: command not found* – this indicates that the Samba Client required for this task is not installed on the GateManager server.



**Solution:** To solve this problem you will have to contact your IT Administrator who installed the GateManager. The solution is to install the smb-client using the following command on the Linux command line:

# yum install samba-client

Follow the instructions on the command line. This process requires that the GateManager Server has access to the internet (TCP:80).



Page 32 of 41

# **APPENDIX B, Upgrading GateManager firmware**

Check the "About" tab in the GateManager Portal for the currently running version. If a newer version exists on the Secomea web site, you may want to continue with the following

Firmware for GateManager model 9250 is in the format:

#### V9250\_xxxx.ffs

Firmware for GateManager model 8250 is in the format:

#### Secomea\_GateManager\_Installer\_x.x.xxxx.tgz

(xxxxx denotes the firmware/build version)

1. Select Files → Firmware and press the plus Icon

Tree Files Licenses Server							My Account	About	Logoff
Status Firmware Templates	Scripts	Public	Logos	Terms	Plugins	Audit			
Firmware Repository									<b>^</b>
\$ 1(+)									
GateM Install new firmware									
									=
									-

🞁 GateManager secomea 🔄

2. Press **Choose File** and browse for the file (.ffs file or .tgz file depending on GateManager model) and press **Upload:** 

Tree Files	Licens	ses Server					Му Ассон	int A	bout	Logoff
Status F	irmware	Templates	Scripts	Public	Logos	Terms	Plugins	Audit		
Firmware	Reposit are (max 4 nager Firr	тогу л мв) Вrows	v9250_	14485.ffs	)		Up	load	Cancel	
										~
						👘 🖉	GateMar	nager	sec	omea

Wait for the firmware to be uploaded.

3. Select the **Tree** menu and click on the **"Show Appliances"** Icon in the top Icon-list, and the GateManager server should be listed. In this example it is called "gm.acme.com - ...."



Page 33 of 41

4. Press the [Upgrade] button



5. Press the [Upgrade] button next to the relevant firmware



6. Upgrading the server will only take a few seconds and *Upgrade in progress* is shown on the screen.



7. After that the server is upgraded, it is advisable to logoff and login again, and also click to refresh [F5] your browser cache.



Page 34 of 41

# **APPENDIX C. GateManager Hosting License**

## About the Hosting license

The Hosting license is only used for a GateManager server of an appointed Secomea distributor, and where the GateManager is used as hosting server for customers of the distributor.

The Hosting license allows the distributor to define domains as **Customer Domains**. Subsequently the customer will be able to see the EasyService maintenance level on his domain (EasyService level is typically calculated based on the number of SiteManagers, LinkManagers and Domain Administrators in the customer domain)

On a monthly basis the administrator accounts in the customer domain, will receive an audit report of contents of the domain. Concurrently the upper level Distributor and Server administrators will receive a summary report of all customer domains.

This report is used to calculate the customer's EasyService level according to the Secomea price lists.

You can order a Hosting license for an already installed GateManager server in the License Portal. There is no specific order form for the Hosting license.

## Installing the Hosting license

The license would typically have been automatically installed by the License Portal. If the GateManager was not connected to the Internet when ordering, you can follow the steps in **APPENDIX E. Manual installation of licenses** 

Note that when in production the Hosting GateManager must be allowed to remain connected to the Secomea Audit GateManager.

#### Using the distributor license features.

You should always use the License Portal to order Starter Packages for your customers. This will automatically create domains and accounts

If you have reasons to add a customer manually without setting up a Starter Package, you can create the customer domain and check the Customer Domain box under Domain Configuration.





Page 35 of 41

**NOTE:** This checkbox is only accessible for GateManager Administrator accounts created with the roles **Server Administrator** or **Distributor Administrator**.

# **Ordering Demo Licenses**

You can, as Distributor, order Demo licenses via the License Portal. These licenses must NOT be used for production purposes, but are solely for demo, test and support purposes.

Demo licenses are automatically installed on your GateManager in a domain called **#License Container**. (If the domain does not exist, the License Portal will create the domain)





# APPENDIX D. Recover lost Server Administrator password

If you have lost your root administrator account information, you can reactivate the default GateManager Server Administrator account via the GateManager line based console.

### **Recovery on GateManager model 9250**

- 1. Access the Virtual host using the VMware player, vSphere client or if using HyperV then the HyperV Manager and connect to the console.
- 2. Initiate the recovery procedure by typing



3. The server has now created a recovery login. The account credentials are:

Username: RecoveryAdmin Password: gatemanager

- 4. Login to the GateManager Web based GUI for changing account passwords, and resend certificates.
- 5. Once completed, delete the RecoveryAdmin from the Server > Status menu:



# **Recovery on GateManager model 8250**

- 1. Connect to the GateManager SSH shell, and login with your Linux root account (See STEP 0 guide).
- 2. Initiate the recovery procedure by typing
  - # gm recover\_admin



Page 37 of 41

```
[root0gm5ESXi ~]# gm recover_admin
Created RecoveryAdmin server account with well-known password.
Please change the password on Server > Admins page.
Use 'gm recover_admin remove' when done.
[root0gm5ESXi ~]#
```

3. The server has now created a recovery login. The account credentials are:

Username: RecoveryAdmin Password: gatemanager

- 4. Login to the GateManager Web based GUI for changing account passwords, and resend certificates.
- 5. Once completed, remove the recovery user again, in the SSH shell by typing:
  - # gm recover\_admin remove



Page 38 of 41

# **APPENDIX E. Manual installation of licenses**

If the GateManager is located in a closed network, or was online when activation licenses were ordered, you may have to install the licenses manually.

### Server Activation License (Soft Dongle)

Before a server activation license (Soft Dongle) has been installed, your License status will be as follows:

Tree	Files	Licenses	Server		My Account	About	Logoff
Statu	s Sho	rtage Ins	tall Order				
SER Please	VER A	CTIVATI and install S	ON LICEN	SE MISSINC	G 2) before proceedi	ing.	

You will have received the ordered licenses as attachments to an email from the License Portal.

The license files may be zipped, so you will need to unzip them first. The unzipped text file(s) contains the license(s). Open the text file(s) with e.g. Notepad.

A license will look like this:

=============BEGIN DONGL	E LICENSE===========
ya1HcPNuNudvepaE5Tc6gTMZ1	3T8kAqh
h1bINUs-c1pdn5tfQmE6Q-nrH	LR2ic4b
NClta8BmGkBe4navWEph34wOe	zVx
=====END DONGLE :	LICENSE=================

 Copy this license text, and logon to the GateManager server. Go to the Licenses Tab, and select Install. Paste the license into the textbox, and click Install. When installing a Server Activation License (Soft Dongle), the server will restart to activate.







2. After the license upgrade your Licenses  $\rightarrow$  Status will look like this:

Licens	es	Used			
\$				4 lice	enses
Product	\$	Serial 🔻	Description 🗘	Floating	Fixed
9001:7	77	000001	GateManager: Max. Appliances	2 of 5000	•
9001:3	42	ffffff	SSL Client: Standard Pool	0 of 1	-
9001:2	41	ffffff	LinkManager: Standard Pool	0 of 1	-
9001:3	41	ffffff	LM Mobile: Standard Pool	0 of 1	-
9001:3	41	ffffff	LM Mobile: Standard Pool	0 of 1	-

The soft dongle will always include a "Max. Appliances" license 9001:777 with a value from 25-5000 according to the ordered GateManager maintenance agreement. In the above screen license is based on EasyService terms indicated by a maximum of 5000.

If you have entered the "Limited Service" agreement, you would have started out with an Appliance license of 25. Upgrades can be purchased separately, and are installed the same way. A "Max. Appliance" license upgrade will have the following format:

```
=====BEGIN LICENSE UPGRADE=====
YSNQlsPB26lKThI4nqNa2sbuByi1ddUZ
Bm-eYuHYMgX391FwnD10-gYkhrhqj1Wa
51sk-ZFI
=====END LICENSE UPGRADE======
```



Page 40 of 41

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Page 41 of 41