# **Trouble Shooting** SiteManager to GateManager access

If you are unsure if a SiteManager will be able to access the GateManager through the corporate firewall, or you experience connection issues, this document will assist you in verifying from a PC that the conditions for obtaining GateManager access is available.

Version: 1.4, February 2011



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## 1. introduction

The purpose of the guide is to solve internet connection issue. Typically you read this guide when you have the error led blinking that means, **sitemanager** can not connect to **gatemanager** (to internet)

# 2. Basic things to check

#### 2.1.1. Ethernet cables

First of all check the cable is inserted in the uplink port and that both the Ethernet led on the uplink port of the sitemanager are lighting. The left one one should be green (the status led) and the other should blink yellow when there is traffic. If both led are off. Please also check the cable is good and it's of correct type (straight or crossed).

Please note: sitemanager port <u>doesn't</u> support autocrossing so the right cable has to used (a straight cable).

If you are not sure, try to connect a PC to the same port with same cable and check if it can connect to internet. If it works, means that the port is working correctly but it doesn't prove the cable is **correct** for the sitemanager. Most of PC has **autocrossing feature** so it doesn't matter if the cable is **crossed** or **straight**, while the **sitemanager does not.** So a <u>straight</u> cable **must** be used for the **sitemanager uplink port**.

#### 2.1.2. Check Uplink IP address

Check that the SiteManager has an IP address matching the network through which it should obtain Internet Access either via DHCP or statically.

If the Uplink IP address is DHCP assigned, check that an address has been assigned, if you see **169.xxx.yyy.zzz** this means that a valid address has not been assigned by DHCP.

In order to verify uplink address of *sitemanager*, you have to connect a PC to the DEV network and use the **Secomea Appliance Launcher** to browse the *SiteManager* and verify the *Uplink IP address*. Alternatively check on the DHCP server's lease table, what IP was given for the SiteManager. Another good test is **trying to ping this IP address** from another PC connected to network on uplink side (from customer network).

**TIPS:** You can ask customer to ping the *Sitemanager uplink ip* address from one of his PC. If you can't reach *sitemanager* via ping it means it didn't got a valid ip address or the cabling is wrong

If the *Uplink IP* address is statically configured, you should check that it matches the subnet of the network it is connected to. Also check that the subnet mask matches the subnet class, and that the default Gateway is set to the router that provides Internet access

Please note that <u>dev1 network (automation network) should be different than uplink network</u> (customer network) and the network doesn't **overlap** each other or with other network reachable on uplink side (i.e. internal routing). **Pay attention to netmask value**!

#### Please note, that this is a potentially dangerous situation and it should be always avoided.

Solution: If dev1 use same ip address family as uplink does, change ip address of dev1 network

the **advice** is to choose for dev1 network uncommon private ip family and to avoid 192.168.0.X or 192.168.1.x or 10.0.0.xcause everybody use that.

You can check the *sitemanager* ip address on uplink side in the *gatemanager* gui. Choosing system  $\rightarrow$  dev1 in the *sitemanager* gui.



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#### 2.1.3. ping test from sitemanager

A good test is to enter the SiteManager Web GUI from the DEV side, and use the **ping** function under menu **Status**  $\rightarrow$  **ping/trace** to ping the gatemanager ip address as in the picture below. If you get an answer it means that *sitemanager* can reach the *gatemanager*, at least via **ping (ICMP protocol).** 



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if it fails try to ping the **default gateway.** As in the next picture. **Result:** If *sitemanager* can not ping the *default gateway*, **it means that there is something wrong in the network cabling.** So you must ask the customer IT to check the networking cabling and <u>switching from sitemanager</u>. Note: If a proxy is used, try also to ping the proxy

**Result**: if you can reach the default gateway, but no the gatemanager it means that *sitemanager is connected to network*, but there are some **firewall /proxy blocking internet access** of sitemanager

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#### 2.1.4. Ping test from a PC

It's useful to repeat the "ping test" from PC connected to the same port where uplink port of is connected. If you are using the DNS name of the *GateManager* server e.g. "**serverpro.gate-manager.it**" in the *SiteManager* configuration it may not be resolved correctly to the IP address (or DNS can not be set on the site manager), and you could try to change it to the IP address. If you don't know the ip address of the server, open a command prompt and ping the DNS name of the *GateManager*, and it will resolve the IP address (212.183.164.105):

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Then, you can try to use the **gatemanager ip address** instead of the name, as shown in the picture from the page **gatemanager->general**.

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# 3. Telnet test from command line

In order to test internet access with a PC, please connect the PC to the <u>same ethernet port</u> with <u>same</u> <u>cable</u> as **sitemanager uplink port was** connected. You can disconnect temporary the *sitemanager* and connect your PC. A basic and useful test that can be done with a PC is the **telnet** test.

Note: on window 7 telnet is not installed by default and has to be enabled. See appendix A (page 18) Try open a command prompt and typing the following command



if the test is successful, you should get a black screen like the following



#### repeat the test 3 times using port 443, 80,11444 as above

**result**: if the test is successful at least with one port this means that port is open for an outgoing connection to *gatemanager server* **without using a proxy**. A *sitemanager* should not have any problem in connecting in this case

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**result**: if the test with telnet is not successful is any case, it means that a proxy in use and you have to configure it for the sitemanager. if you don't have the **proxy parameters** ask the customer IT for proxy configuration data.



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## 4. Test GateManager access from a PC with a broswer

If the *telnet* test failed it's likely the a proxy is in use at customer site. In some case, a PC might autodetect a proxy get automatically configured.

The SiteManager attempts to access the Internet by trying the following connection methods:

- 1. Port 11444 (verification: open https://212.183.164105:11444 in your favorite browser)
- 2. Port 443 with HTTPS/TLS (verification: open https://212.183.164.105 in your favorite browser)
- 3. Port 80 with TLS over HTTP (verification: open https://212.183.164.105:80 in your favorite browser)

So, open a browser and copy the link above (1,2,3) in your favorite browser. At least one should work:

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l problemi relativi al certificato di protezione possono indicare un tentativo di ingannare l'utente o di intercettare i dati inviati al server.	
È consigliabile chiudere la pagina Web e interrompere l'esplorazione del sito Web.	
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Select "Continue to this website", and you should get this screen:

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If none of the links resulted in the above screens, it may be due to:

A Web proxy is required for Internet access and is not configured on the PC you are attempting to connect from. Typically this will be distributed from the DHCP server, but may also need to be manually configured (On MS Internet Explorer this is configured under: Tools → Internet Options → Connections → LAN Settings → Proxy server. See page 10)

The next chapter is all about situation where a proxy is used for internet access

2. The customer firewall block the TLS session allowing only plain text HTML access or a more complex firewall issue prevent access to gatemanager site (see page 10). in this case, you probably have to talk with customer IT and showing the issue.

If all the above is verified, and you still do not get the screen with the **Directory Listing**, you will not have much luck with the *SiteManager* either. As explained above, the only thing is to contact your IT administrator

Remember, that first step is always getting a PC connecting to internet. If the PC does not connect to internet, you would not *sitemanager* working either.

#### 4.1. Web Proxy issues

A Web proxy is often used to validate Internet access. SiteManager is designed to be able to access the Internet and the GateManager via a Web Proxy.

#### **4.1.1.** how to check if PC use a proxy for surfing internet

Open internet explorer, it it can surf the web then go to **tools->internet options->connections->lan options.** If the <u>automatic configuration is checked and the address is filled</u> it means the PC might detect automatically a proxy. If use server proxy is checked and <u>address and port</u> are specified it means the a proxy is in use. If a username/passoword are requested when internet explorer is opened it means the proxy requires an **authentication**, so go to the section "**web proxy not automatically configured**"

#### 4.1.2. Web Proxy automatically configured

If the SiteManager receives its Uplink IP address via DHCP, it will automatically try to use the default gateway as a web proxy including WPAD as the pc does. So it automatically extracts the information from the PAC file distributed from the DHCP server (This "Auto Web proxy" functionality is supported from SiteManager firmware vxx\_10405)



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#### 4.1.3. Web Proxy NOT automatically configured

Two scenarios exist that require manual configuration of the Web Proxy into the SiteManager configuration menu:

1. If the *SiteManager does receive its IP address via DHCP*, but the Web Proxy require a **username** and **password** to be entered. If you have been asked for *username/password* the first time you open a browser you are in this case

note: there are a few case in which proxy authentication is done together with windows logon. This is called "integrated authentication or NTLM authentication". (see page 13)

2. If the **SiteManager does** <u>not</u> receive its *Uplink IP address via DHCP*, but is statically configured, the SiteManager will not detect the web proxy settings automatically, so the settings has to be entered manually

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You may need to ask the local IT administrator for these values:

#### 1. Proxy ip address :port es. 192.168.0.1:8080

Note: insert the ip address and not the name. .The port is usually 8080 but it can different es. 3128)

#### 2. Username

Note: the username might include the domain es. Ufficio\user. In this case insert the full username has to be insterted

3. **Password (**the customer will insert the password or they might create a dedicate account for site manager).



4.

## 5. PC connect to internet but SiteManager does not

If the *browser* test from PC was successful but *sitemanager* can not connect to internet it means that you fall on some advanced case. It's a good idea, trying to connect to the same port where *sitemanager* is connected to verify if internet access is available or not for a PC. A good test is **skype**, if skype could connect generally *sitemanager* does too. Nevertheless there case in which a laptop can connect and *sitemanager* does not. The section describe the most common case and the reasons for that

### 5.1.1. Web proxy TLS issue

Even if port 443 is allowed, the company firewall might be blocking for TLS access (only allow plain text html). You may need to get special rules applied in the firewall for your PC; either approval on IP address, MAC address, the PC's DNS name, or the PC may need to be trusted on a local MS Directory Services server.

Result: ask customer IT to allow TLS traffic from sitemanger

#### 5.1.2. NTLM proxy

NTLM is an old and legacy system that even microsoft doesn't recommend anymore. Even if, if you could still find it in the ms environment. (i.e. typically where ISA server is used)

# Plese note the NTLM proxy is not supported and only basic authentication can be used with sitemanager

In this case, it's <u>easier to get an ip address that bypass a proxy</u> for reaching a single ip address of gatemanager (212.183.164.105), rather than asking to modify the rule of the proxy or the kind of authentication. Always remember, the sitemanager **doesn't need to access the whole internet** <u>but only the</u> <u>Gatemanager ip address (212.183.164.105).</u>

So, it's generally more reasonable to ask the IT **an exception for the** *sitemanager* **ip address for reaching a single ip address.** This is a good choice cause it's very secure for the customer and it's enough for the *sitemanager*.

This is explained by the module "internet prerequierements" that you should already have. If not, you can find it on <u>www.gate-manager.it</u> in the "application notes section"

#### 5.1.3. Content filtering

Please also note, that some proxy applies *content filtering* policy that means they do a strict selection of allowed web site that can be reached via proxy.

skype is a good test. If skype work, there are good chance that sitemanager could work too.

If a strict content filtering is applied, *skype* on normal PC would not connect



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# 6. summary table of possible cases

If you have all the test explained in the previous section, you should be now able to to follow this table and see in which case you are. The provided information are useful for explaining customer IT issue and for showing what is working and what is not working

	Result from SM	result from PC	What do to/result
Ping from SiteManger to default gateway (see page 4)	It Work		Network cabling is correct and a local ip address has been assigned, <i>sitemanager</i> can connect to local network.
	It doesn't work		Check if the uplink ip address is correct or if DHCP has assigned one. Check also for the network cabling. <i>sitemanager</i> should be always able to reach at least the default <i>gateway/proxy</i> .
Ping test to gatemanager (see page 4)	lt doesn't work	It doesn't work	PC can't connect to <i>gatemanager</i> . ask customer IT to allow PC to reach <i>gatemanager</i> and get internet access
	lt doesn't work	It work	Network cabling is correct, <i>sitemanager</i> can connect local net but it can't connect outside while PC does. A proxy might be used and not be configured customer (see page 10) or customer firewall might block the ping from <i>sitemanager</i> . Ask customer IT for proxy parameters and to allow <i>sitemanager</i> to connect to <i>gatemanager</i> ip address.
	It work	It work	Network cabling is correct, <i>sitemanager</i> can connect to local net and it can ping GM. You fall in the advanced case (see page 13). Ask customer to allow <i>sitemanager to connect to</i> <i>gatemanager ip address</i>
telnet test (see page 7)	It Work from PC on at least on port (80,443,11444)		PC can reach the <i>gatemanager ip address</i> , without using a proxy. Site manager should work well in this situation
	lt doesn't work		A proxy might be used. Ask customer for proxy parameters and configure it for <i>sitemanager</i> . See page 10 or to allow his firewall connection to gatemanager ip address
Web browser test (see page9)	It Work from PC		<i>Sitemanager</i> might not detect proxy automatically (See page 10to check if a proxy is used). Check with IT if NTLM (see page 13) proxy it is used or if firewall might blocks the <i>sitemanager</i> TLS connection (see page 13) or if content filtering is applied (see page 13)
	It doesn't work		customer firewall block the TLS connection to <i>gatemanager</i> . You must ask customer to allow internet access to <i>gatemanager ip address</i>
Skype test		It doesn't work	It's likely the PC can't access internet
	It works		SM would likelywork in this case

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### 6.1. How to get more info for technical support

If none of the above test helped, it's a good idea to collect more info. In order to get more info, it's useful to enable the log in the *sitemanager* as shown in this picture. Enter the **log** section than choose **setup**, and set **yes** 

🥹 sm diresrl demo -	SiteManager 2129 - Mozilla Firefox							
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then, after you have done some connection tests enter the **log section** again than choose **view** as in the picture below. **Select all** and **copy** in a text file and send it to <u>tecnico@gate-manager.it</u> as attachment together with a support request for "internet connection issue with sitemanager"



Copy also the data in the page status-and then choose extended status as in the the next picture



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Save all the data in the page with select all in a text file and send it the file to gatemanager technical support at tecnico@gate-manager.it

Don't foget to add the result of all tests you have previously done (ping, telnet, browser)

#### 6.2. Final things to Check

If the SiteManager is configured correctly, check the following further thing in the network.

These things will typically involve the local IT administrator to verify, and will definitely require this person to change:

1. Does the firewall require an exception for the source IP of an unknown IP device to be entered into the firewall in order to access the Internet?

Solution: ask the IT manager of the customer.

2. Does the firewall require an exception for the MAC address of a device to be entered in the firewall in order to access the Internet? Note that the *Uplink MAC address* is typically one (or two) higher than the DEV1 MAC address, which is also the *SiteManager serial number*. So if the Appliance Launcher detects e.g. 00:00:24:00:97:6C, the Uplink MAC address will be 00:00:24:00:97:6D for 2129 (two ports) and 00:00:24:00:97:6D for 2134 (three ports). You can double check the MAC address by checking the networks DHCP lease table, or ping Uplink and check the ARP cache.

Note: In some company, the DHCP may apply a filter on MAC address base and every foreign device has to be approved

Solution: ask the IT manager of the customer for adding the MAC of sitemanager uplink port

3. Does the *firewall or Proxy require the DNS of a device to be trusted* (e.g. checked by reverse lookup)? Since SiteManager is not a Windows PC, a special exception may need to be made.



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Solution: ask the IT manager of the customer to add the needed exception

4. Does the firewall require an exception for the destination IP that a device tries to access to be entered into the firewall? Enter the IP address of the GateManager server.

**Solution**: ask the IT manager of the customer to add the needed exception

5. Does the firewall require using DNS names that resolves locally?

In that case the DNS name of the GateManager must be applied to the DNS server (e.g. "**serverpro.gate-manager.it**", must be applied with its IP address 212.183.164.105). Subsequently it must be ensured that the SiteManager is configured with the IP of the DNS server. This will typically automatically be distributed via DHCP, but must manually be entered for the Uplink interface if the SiteManager has a fixed IP.

Solution: ask the IT manager of the customer

6. If the firewall is configured to NOT tolerate "rekey" on a TLS session for which it has not seen the original session be created, the SiteManager will possibly be rejected. This is due to the SiteManager using re-keying for starting the connection, and subsequently the firewall will not be able to use a cached session ID. You may need to add some exception in the firewall to allow the SiteManager to bypass this check.

Solution: ask the IT manager of the customer



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# 7. Appendix A: how to enable telnet on window 7

Telnet client is not default enabled in Windows7.

To enable it, enter control panel and Programs and Features, and select "Turn Windows features on or off"

Control Panel	All Control Panel Items   Programs and Features
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and then o
off	Organize 🔻

Check mark the Telnet Client and press OK.

Windows Features		
	Turn Windows features on or off	•
	o turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.	
	Remote Differential Compression	
	🗐 🎉 RIP Listener	
	🗄 🗐 🎍 Simple Network Management Protocol (SNMP)	
	Simple TCPIP services (i.e. echo, daytime etc)	
	Tablet PC Components	
	🔽 ]] Telnet Client 🤙	
	Telnet Server	
1	TFTP Client	=
	🔽 🔒 Windows Gadget Platform	
	⊞ Windows Process Activation Service     ■	
	Windows Search	
	Windows TIFF IFilter	*
	OK	el

Telnet is now available in a command prompt





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# 8. Notices

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