GUESTGATE[™] Hotspot Gateway USER MANUAL V 2.0 MODEL 523240



(For firmware version 1.21 and higher)



INT-523240-UM-0606-05

FCC Regulatory Statements

Electromagnetic Compatibility (EMC)

This equipment generates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver.
- Consult your dealer or an experienced radio/TV technician for help.

• Check that shielded (STP) network cables are being used with this unit to ensure compliance with EMC standards.

This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

This digital equipment fulfills the requirements for radiated emission according to limit B of EN55022/1998, and the requirements for immunity according to EN55024/1998 residential, commercial and light industry.

Safety

This equipment complies with EN 60950, Safety of Information Technology equipment.

Radio Transmission Regulatory Information

This equipment generates and radiates radio frequency energy, and must be installed and operated while maintaining a minimum distance of 20 cm between the radiator and your body.

Tested to comply with FCC Standards FOR HOME OR OFFICE USE.

This product must be installed and used in strict accordance with the instructions given in the user documentation.

This product complies with the following radio frequency and safety standards:

Europe — EU Declaration of Conformity. This device complies with the requirements of the R&TTE Directive 1999/5/EC with essential test suites as per standards EN 301489: General EMC requirements for radio equipment; and ETS 300328: Technical requirements for radio equipment.

USA — Federal Communications Commission (FCC): This device complies with Part 15 of FCC Rules. Operation of the device is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference that may cause undesired operation.

Table of Contents

INTRODUCTION	4
Function Description	4
Installation Examples	6
GuestGate Function Basics	8
INSTALLATION of GuestGate	9
Recommended Setup	9
Advanced Setup	14
CONFIGURATION OPTIONS of GuestGate	19
Status Screen	19
Guest Configuration Screen	20
Host Configuration Screen	23
Welcome Screen Configuration	26
Time / Scheduler Configuration	28
Device Settings Configuration	30
Firmware Upgrade Process	33
Exit Screen	34
QUESTIONS & ANSWERS	35
SERVICE & SUPPORT	38
SPECIFICATIONS	39
APPENDIX	40

INTRODUCTION

Congratulations on your purchase of the INTELLINET NETWORK SOLUTIONS GuestGate Hotspot Gateway. The GuestGate connects guests to your network, allowing them to access only the Internet (Web, Email, Chat and other applications). GuestGate protects your existing network from unauthorized access by the connected guest computers and, if required, even shields the guest computers among themselves. Furthermore GuestGate features enhanced IP PnP (Plug and Play) technology: It automatically adjusts to the guest computer's TCP/IP settings eliminating time consuming client IP reconfigurations.

GuestGate seamlessly integrates into your existing network and in many applications a configuration of GuestGate is not necessary. GuestGate provides the core functionality right out of the box.

Function Description

Internet Access for Guests

GuestGate is primarily designed to provide configuration-free Internet access for your guests. GuestGate uses the existing Internet connection of your network to provide Web and email access for computers connected in a conference room, a hotel or a public place with wireless network connectivity. GuestGate does not stop here, however. It addresses security-related concerns of the network administrator by shielding the existing network from access attempts from the connected guests. In short, this means that guests can access the Internet, but your own network — i.e., your network file server, email or application server — is off limits.

Password Protected Internet Access for Guests

The network administrator can make it mandatory for your guests to enter a password before Internet access is granted. This is an important function in case you offer Internet access as a paid service or in situations where an open, unprotected wireless access point is connected to GuestGate and you wish to keep unauthorized users from using your bandwidth.

Configurable Welcome Screen for your Guests

You can set up your own welcome screen in seconds. Change the wording and formatting, and upload your own banner image. The welcome screen is displayed when a guest connects to the Internet for the first time. The welcome screen can be utilized to make the guest agree to your terms and conditions, and can be completely deactivated if required.

IP PnP

In many situations, it is necessary for the network administrator to change the TCP/IP settings of guest computers because the existing settings are not compatible or your network has advanced requirements. GuestGate eliminates this step completely. GuestGate automatically adjusts to the guest computer's TCP/IP settings, providing a true zero guest configuration.

Bandwidth Control

GuestGate controls how much of your Internet connection speed is dedicated to the guest network. Upload and download bandwidth can be configured individually.

Layer 3 Client Isolation Function

In a public location with a public Wireless Access Point there are often concerns about security. GuestGate not only protects the Host Network from unauthorized access by your guests, it takes security one step further. When the "use separate random network for each client" option is activated, no guest computer can access any other guest computer. In this mode GuestGate randomly assigns each guest computer its own network. This option is activated by default.

Packet Filter

Block access to certain Web sites or entire IP ranges.

4 Port 10/100 Auto Sensing LAN Switch

GuestGate provides four 10/100 Mbps LAN switch ports for the connection of PCs, notebooks, or other switches or wireless access points.

Web-Based Administrator Interface

The configuration is fully Web-browser based. For security reasons, the Web administrator menu is only accessible from the host network.

Firmware Updates via Web Browser

Quickly and conveniently upgrade firmware of GuestGate with the Web browser of your choice.

Installation Examples

GuestGate in a SOHO Network Environment

This is a typical setup in which the Internet connection is established through an NAT router with an integrated firewall.



GuestGate in a SMB Environment

In larger networks GuestGate connects to any available switch port behind the Firewall/Gateway/Router.



GuestGate Function Basics

Ports

GuestGate features a total of 5 10/100 RJ45 Ports. One port is for the connection of GuestGate to the Host Network (Host Port), 4 Ports are available for guest connections (Guest Ports). The Guest Ports can be connected to Hubs, Switches, Wireless Access Points, PCs or Notebooks.

Host Port

By default GuestGate obtains an IP Address from a DHCP Server already present in the network. GuestGate analyzes the network and obtains all information necessary for Internet Access. The DHCP Server Log reveals the HOST IP Address of GuestGate. In the event that no DHCP Server is present GuestGate reverts to its default IP Address 192.168.2.1. In this case a manual configuration of the HOST IP settings is necessary.

Guest Ports

GuestGate assigns IP addresses to the connected guest computers. IP PnP technology ensures that no configuration on the guest computer is necessary. The default IP address range is 172.16.xxx. Changing the guest IP settings is possible via the Web administration interface.

Guest Ports with Layer 3 Client Isolation enabled

If the Layer 3 Client Isolation is enabled, GuestGate assigns a different IP Network (Subnet) to each connected Guest Computer. Since this assignment is random, it makes it virtually impossible for a hacker to guess the other guest computer's IP settings to try to gain access. This option is enabled by default. It can be disabled in the guest configuration screen of the administrator Web interface. The option is "separate network for each client (automatic)."

Time / Scheduler

You can configure the time period, in which GuestGate allows Internet access. Possible values are always on or based on a schedule (week day and time).

Accessing the Administrator Web Interface

The configuration of GuestGate is entirely Web-based. Any standard Web browser is supported. For security reasons, GuestGate can only be configured from the host port. GuestGate rejects all connection attempts which originate from the guest side.

Internet Access for Guests and Welcome Page

When a guest computer tries to access the Internet for the first time, a Welcome Page is being shown in the Web browser. This welcome page can be configured and altered in the Administrator Web Interface. Guests have to accept the terms and conditions in order to access the Internet. If the Guest Password option is enabled, a password must be provided by the guest to gain Internet access.

This authorization procedure is only required once. GuestGate memorizes all authorized Guest computers until GuestGate is restarted.

After a restart of GuestGate, guests again will be shown the welcome page. If a guest computer is disconnected from GuestGate for more than 10 minutes, the welcome page is also shown again.

INSTALLATION of GuestGate

Recommended Setup

This setup method assumes that a DHCP Server such as a router is present in your network.

1. Connection to the Host Network

Connect standard RJ45 Network Cable to GuestGate's HOST Port and to a RJ45 port on your existing network (Ethernet Switch Port, Router Switch Port, etc.).

Turn on GuestGate and verify that the network connection is active (HOST LED must be lit on GuestGate).

NOTE: The startup process takes up to 60 seconds (if no DHCP Server is present it may take as long as 300 seconds).

2. Connection of Guests

Using standard RJ45 Network Cable you can now connect PCs, Notebooks, Ethernet Switches, Hubs or Wireless Access Points to the Guest Ports of GuestGate. Each Port has its own Status LED. Verify that the network connection is active on each port you connect.



Rear View

3. Testing Internet Access

Start a PC or Notebook which is connected to one of the Guest Ports. Launch a Web browser and open an Internet Web Site such as http://www.intellinet-network.com.

You will then see GuestGate's welcome page.

Become Networks To Let Welcome to our Network! Dear Guest, We're happy to provide you with Internet Access using the INTELLINET NETWORK SOLUTIONS GuestGate™ Hotspot Gateway. You agree to comply with the company's terms of use. In particular access to any illegal content is strictly prohibited. Violation of this can result in legal prosecution. By continuing you agree to those terms. continue	
Copyright © INTELLINET NETWORK SOLUTIONS 2009 - <u>www.questgate.com</u>	

Click "continue" and you will then be forwarded to the Web page you originally entered in the Web browsers address bar.

Note:

In order to get Internet Access you <u>must</u> first open a Web browser and open a Web page. Other applications such as chat programs (ICQ, MSN Messenger, Skype, etc) will not be able to connect to the Internet unless the welcome page has been confirmed in the Web browser.

4. Accessing the Administrator Web Interface from the Host Network

A. Connect to the router (DHCP Server) in your network and open the DHCP client log of the router. Connect GuestGate's Host port to one of the router's LAN ports and power-on GuestGate. Wait about 30 seconds, and then refresh the DHCP client log in the router. The last entry (the newest) belongs to GuestGate.

Below is an example of a DHCP Log File:

IP Address	MAC Address	Time Expired(s)
192.168.0.100	00:50:fc:be:48:58	169576
192.168.0.101	00:0f:a3:1d:a3:da	114749

B. Launch your Web browser and open the IP Address shown in the DHCP client log. You will then see the Administrator Web Interface. The default password is **1234**.

		ATT	F-ARE L	
Bayonid Narwons To	Enter your password to login:		login	

Note: If this procedure does not work you can configure your PC with a static IP address of 192.168.2.xxx, disconnect GuestGate from the router and connect your computer directly to the host port. Power-on GuestGate and wait about 1 minute until the Power LED stops blinking, then open GuestGate's default IP address 192.168.2.1 with the Web browser. Refer to the chapter "Advanced Setup" for more information.

5. Changing Administrator Password

For security reasons it is recommended to change the administrator password of GuestGate. Follow the steps below to change the password.

INTELLINET		and a	111	- Sob		
Basceso Nervices To Lie	Status Guest Config	Host Config	Welcome Page	Time/Schedule	Device Settings	Exit
	Device Sta	atus Informa	ation		\bigcirc	
Network Informat	ion					
Host Network IP Add	lress:	192	2.168.2.1			
Host Network IP Net	mask:	255	5.255.255.0			
Host Network IP Gat	eway:					
Host Network DNS S	erver(s):					
Host Interface Ether	net Address:	00:	0E:2E:F8:26:04	k.	1	
Guest Interface Ethe	ernet Address:	00:	0E:2E:F8:26:05	i		
Device Informatio	n					
Firmware Version:		1.2	1			
Uptime:		0 d	ay(s), 00:06:0	6 (hh:mm:ss)		
Time:		(no	t available)			

Click on "Device Settings".

INT.	ELLINET			mi		- Alab	i.	
Basice	NO NETWORKS TO LIFE	Status	Guest Conlig	Host Config	Welcome Page	Time/Schedule	Device Settings	Exit
	Admin Password Old password: New password: Retype new passw	l ord:	Dev	ce Setting	s			1
"	Log Enabled:		enabl Dow	led 💟 /nload Cle	ar			

Enter the old password 1234. Enter a new password (up to 20 characters long). Retype the new password. Click "Change". Click on "Exit" (upper right corner).



Check "Save settings". Check "Reboot device".

INTELLINET.
Restarting
The device is restarting. After 25 seconds you will be automatically redirected to the login screen.
10 Sec. Remaining
Copyright © INTELLINET NETWORK SOLUTIONS 2009 - <u>www.questqate.com</u>

GuestGate now reboots. This step takes about 25 seconds. After the reboot you will be redirected to GuestGate's Login Page. You can now login with the new password.

NOTE:

The interface is designed to let you make changes on all configuration screens without saving each change individually. Once you are done programming GuestGate, you need to click on "Exit" and reboot the device.

The changes will only take effect after GuestGate has been rebooted. Closing the Web browser without saving the configuration changes will result in a loss of the changed configuration.

If you have successfully performed the above steps you can skip the next section.

Advanced Setup

The standard installation of GuestGate bases on the assumption that a DHCP Server is present in your network. If this is not the case, you can still configure GuestGate manually. To do this you need to turn GuestGate on while it is disconnected from the network. If no DHCP Server can be found after 3 minutes, GuestGate will fall back to its default IP Address of 192.168.2.1.

Advanced setup requires:

- A network adapter correctly installed in your computer;
- User rights that allow manual configuration of TCP/IP-related settings on your PC; and
- GuestGate connected with an RJ-45 cable to the network adapter in your PC.

1. Changing the IP Address of your PC

Click on "Start" -> "Settings" -> "Control Panel."



Double-click the "Network Connections" icon.

Setwork Connections		
<u>File Edit View Favorites To</u>	ols Adva <u>n</u> ced <u>H</u> elp	
🜀 Back - 🕥 - 🏂 🔎	Search 🜔 Folders 🛄 -	
Address 🔕 Network Connections		🔽 🔁 Go
Network Tasks Image: Constraint of the sector of the s	LAN or High-Speed Internet	Wireless Network Connection 2 Disabled, Firewalled 802.11g Wireless CardBus #2 Disable Status Repair
Wy Network Places	-	Bridge Connections Create Shortcut Delete
Details *		Rename Properties
2 items selected.		

Right-click the "Local Area Connection" icon and select "Properties" from the context menu. In the "Local Area Connection Properties" window, highlight "Internet Protocol (TCP/IP)" and click on "Properties".

click on "Properties". When the "Internet Protocol (TCP/IP) Properties" window opens, you need to make the changes as shown below.

Internet Protocol (TCP/IP) Pr General Alternate Configuration	roperties 🕐 🗙
You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports ad to ask your network administrator for
Obtain an IP address automatic	atically
O Use the following IP address	۲
<u>I</u> P address:	· · · · · · · · · · · · · · · · ·
S <u>u</u> bnet mask:	0.0
Default gateway:	
Obtain DNS server address	automatically
OUse the following DNS serve	er addresses:
Preferred DNS server.	
Alternate DNS server:	
	Advanced
	OK Cancel

Internet Protocol (TCP/IP) Pr General	operties ? 🗙
You can get IP settings assigned a this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports d to ask your network administrator for
O <u>O</u> btain an IP address automa	atically
─⊙ Use the following IP address	
IP address:	192.168.2.100
S <u>u</u> bnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address a	automatically
OSE the following DNS serve	r addresses:
Preferred DNS server:	
Alternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel

Click "OK" when done.

Close the previous Windows by clicking "OK" as well.

The TCP/IP settings of your system are now compatible to GuestGate.

2. Connecting to GuestGate via a Web Browser

Start your Web browser and open the address http://192.168.2.1. The Administrator Web Interface Login Screen then appears.

	77.		FARE	
BUNCHE NITWERS TO DE				
Enter your passv	vord to login:	••••	login	
Copyright © I	NTELLINET NETWORK S	DLUTIONS 2009 - <u>www.</u>	<u>questqate.com</u>	

Enter the password 1234 and click "login".

NOTE:

At this point, it is recommended that you change the administrator password as described in the previous section.

3. Host Configuration

INT	ELLINET	and the state	
Bancor	eo Nerwona Totare Status Guest Config	ost Gonlig Velcome Page Time/Schedule Device Setting	S
	Device State	us Information	
	Network Information		
	Host Network IP Address:	192.168.2.1	
	Host Network IP Netmask:	255.255.255.0	
	Host Network IP Gateway:		
	Host Network DNS Server(s):		
	Host Interface Ethernet Address:	00:0E:2E:F8:26:04	
	Guest Interface Ethernet Address:	00:0E:2E:F8:26:05	
	Device Information		
	Firmware Version:	1.21	
	Uptime:	0 day(s), 00:35:48 (hh:mm:ss)	
	Time:	(not available)	
	Device Status		
	Password-protected Internet Access:	disabled	
	Guest Internet Access:	enabled disable	
	Connected Guest Computers		
	Ethernet Address IP Address L	ogged In	

Click on "Host Config".

Host Configuration					
Configuration Host:	static 🔽				
Device IP Address:	192.168.2.1				
IP Netmask:	255.255.252.0				
IP Gateway:					
DNS Server:					
Administrator IP Address:	Use This Client's Address				

Configuration Host:

With the Configuration Host window displayed, specify the device IP address, IP netmask, IP gateway (Internet connection gateway, router) and DNS server.

Device IP Address:

A free IP Address in your network. This is the IP Address you assign to GuestGate.

IP Netmask:

Enter the same netmask (or subnet mask) you use in your network.

IP Gateway:

The IP address of your Internet gateway (such as a router).

DNS Server:

Domain name service as required by your ISP. You can add multiple DNS servers by separating the different entries with a space.

Administrator IP Address:

When specified, only this IP address is allowed to connect to the administrator interface of GuestGate. The function "Use this client's IP address" automatically populates the field with the IP address of the computer currently used to connect to the administrator menu.

When you are done click on "Exit" (upper right corner).

	477	optim	111	J.4106	1.	
BRINDING METWORKS TO DR.	Status Guest Conlig	Host Config	Welcome Page	Time/Schedule	Device Settings	Exit
		Exit				
	Save sett	ings 🗹 Reboot	t device			
		it Cancel				
Соругі	ght © INTELLINET NETWO	RK SOLUTIONS	: 2009 - <u>www.ques</u>	tgate.com		

Click on "Exit" to save the configuration and restart GuestGate.

CONFIGURATION OPTIONS of GuestGate

Status Screen

NTELLINET	LT.	100	T.F. Asel	
ETWORK SOLUTIONS Benand Nitwans To Life	Status Guest Config	Host Conlig Welcon	e Page Time/Schedule	Device Settings
	Device St	atus Information		
Network Info	ormation			
Host Network	IP Address:	192.168.2	.1	
Host Network	IP Netmask:	255.255.2	55.0	
Host Network	IP Gateway:			
Host Network	DNS Server(s):			
Host Interface	Ethernet Address:	00:0E:2E:	F8:26:04	
Guest Interfac	e Ethernet Address:	00:0E:2E:	F8:26:05	
Device Infor	mation			
Firmware Vers	ion:	1.21		
Uptime:		0 day(s),	00:35:48 (hh:mm:ss)	
Time:		Thu Mar	12 14:14:43 2009	
Device Statu	s			
Password-prot	ected Internet Access:	disabled		
Guest Internet	t Access:	enabled (disable	
Connected G	uest Computers			
Ethernet Add	iress IP Address	Logged In		

The Status Screen shows three types of information:

1. Network Information: Basic information about the host network interface.

2. Device Information: Display of the current firmware version, the system's uptime and the system time.

3. Device Status

Displays the status of the password-protected Internet access ("disabled" = no password required) and the status of the Internet access ("enabled" = access to the Internet is active).

4. Connected Guest Computers

GuestGate shows all of the connected guest computers, including the MAC address, the assigned IP address and the connection time. Click on "Details" to view individual statistics for each connected PC, including the bandwidth consumed (Mbytes). Click on "Disconnect" to terminate the connection of the selected computer.

Connected Guest Computers						
Ethernet Address	IP Address	Logged In				
00:19:d2:7b:db:f0	10.69.23.10	0 day(s), 00:00:25 (hh:mm:ss)	Disconnect Details			
00:23:4e:92:b4:39	10.196.249.130		Disconnect Details			

Guest Configuration Screen

	Status	Guest Config	Host Config	Welcome Page	Time/Schedule	Device Settin
		Guest	Configurat	ion		
Configuration G	uest:	separate net	work for each	client (automatic)		
Device IP Address		172.16.254.2	54			
IP Netmask:		255.255.255	.0 🗡			
Dynamic Range:		172.16.254.1	thro	ugh 172.16.254.	253	
Trusted Etherne Add Ethernet Addr	t Address	ses:	Remov	/e	Address	
Welcome Screen:	welcome enal	oled V				
Guest Password:	••••	•	(leave en	npty for no passi	vord)	
Access Control:	Welcome	Passwords		Maximu	m	

This page shows the configuration options for the connected guest computers.

1. Configuration Guest

Option "separate network for each client (automatic)"

This operational mode is called "**Layer 3 Client Isolation**". If this option is activated, GuestGate randomly assigns different networks to each connected guest computer. This option should be activated if you want to prevent guest computers from seeing and accessing each other (Layer 3 Client Isolation = on). It is activated by default.

Option "same network for all clients (automatic)"

GuestGate automatically assigns IP addresses to the guest computers. All guest computers operate in the same network (Layer 3 Client Isolation = off).

Option "same network for all clients (enter manually)"

If this option is enabled you can manually define the network for the connected guest computers (Layer 3 Client Isolation = off). To do that, you need to

2. Access Control: General Settings

Control the bandwidth and trusted Ethernet addresses.

Access Control: General Settings					
Bandwidth Download Limit:	unlimited 💟				
Bandwidth Upload Limit:	unlimited 🔽				
	unlimited				
	16 kbit∕s				
	32 kbit/s				
	64 kbit/s				
	128 kbit/s				
	256 kbit/s				
	512 kbit/s				
	768 kbit/s				
	1024 kbit/s				
	2048 kbit/s				

Bandwidth Download Limit

Control the maximum download speed available for the connected guest computers. Available options are from 32 kbps (kilo bit per second) up to 2048 kbps (= 2 Mega Bit per second). Default = unlimited.

Bandwidth Upload Limit

Bandwidth control for the upload speed (sending files to the Internet), with options the same as above.

Trusted Ethernet Addresses

If you wish to permanently authenticate a guest computer, you can add its MAC address to GuestGate's configuration. GuestGate will not show the welcome page to any computer that has been entered here.

Trusted Ethernet Addresses:	Remove
Add Ethernet Address:	00:18:8B:B8:8F:F3 Add Address

Enter the MAC address of the computer as shown above. The syntax is xx:xx:xx:xx:xx:xx. Click "Add Address" to save the MAC Address. Repeat these steps for additional MAC addresses. In order to delete a MAC address from the configuration, select the entry from the drop-down list and click on "Remove".

Trusted Ethernet Addresses:	00:18:8B:B8:8F:F3 🗹 F	lemove
Add Ethernet Address:	00:18:8B:B8:8F:F3	Add Address

You can obtain the MAC Address of a connected computer from the GuestGate Status screen, or you can perform the following steps (example: Windows 2000/XP/Vista):

Click on **START** -> **RUN** Type in: **cmd** Press **Enter**. At the DOS Command prompt type: **ipconfig/all** and press **Enter**.

Example Output:

Ethernet adapter Local Area Connection	h =
Connection-specific DNS Suffix Description	<pre> : : : : 802.11g Wireless CardBus : : 00-0F-A3-1D-A3-DA : : Yes : : 10.10.10.89 : : 255.255.252.0 : : 10.10.8.1 : : 10.10.8.10 . : 10.10.8.10 10.10.8.21 </pre>

The PHYSICAL ADDRESS is the MAC Address which needs to be entered in the configuration of GuestGate.

The format is: xx:xx:xx:xx:xx:xx:xx (not xx-xx-xx-xx-xx-xx)

3. Access Control: Welcome Screen

Welcome Screen

Enable or disable the welcome page for guests. (Default = enabled.) If this parameter is set to "disabled", all guest users can access the Internet freely. No welcome page is displayed, even if a guest password is defined below.

Guest Password

If you require your guests to enter a password to access the Internet, you can define it here. If left empty, no password is required (default = no password). This is the global password that can be used by any guest; it is not an individual user password. The password option is only active, if the Welcome Screen is set to "enabled" (see above).

4. Access Control: Welcome Passwords

Set up individual user passwords that are only valid for a certain time period and can be used by a defined number of computers simultaneously. The example below shows a password "test" that is valid from "03/12/2009, 12 pm" until "03/13/2009, 6 pm". The password can be used by five users simultaneously.

Access Control: Welcome Passwords					
Password	Valid From	¥alid Until	Maximum numbers of users		
test	03/12/2009 12:00 (12pm) 🔽	03/13/2009 18:00 (6pm) 🔽	5 💟	Add	

Up to nine users can use the same password. The amount of user passwords is limited by available memory in GuestGate, but should ideally not exceed 20.

Host Configuration Screen

	latus Guest Conlig	Host Conlig	Welcome Page	Time/Schedule	Device Settin
	Host	Configuratio	on		
Configuration Host:	DHCP 💟				
Device IP Address:	192.168.0	.2			
IP Netmask:	255.255.2	255.0 👻			
IP Gateway:	192.168.0	.1			
DNS Server:	192,168.0	1			
Administrator IP Addre	ess:		Use This Client's	Address	
Blocked Addresses:	Rem	ove	Add Host		
Add Notwork Address:					
Blocked Ports:		/ (200.200.200.0		
Add Port Number:	- Demo				
Roumitted Addresse					
	S.		annaal		
Add Network Address:		/2	255.255.255.0	Add Networ	<u>k</u>
Walled Garden Addr	esses: Remo	ove			
Add Host Address:		A	Add Host		

This page shows the configuration options for the Host Interface of GuestGate.

1. Configuration Host

Option "dhcp"

GuestGate automatically receives the IP address, netmask, gateway and DdNS server information from the DdHCP server in your network, typically a router.

Option "static"

In larger networks, a manual configuration of the IP settings may be necessary. Select "static" and enter the IP address, netmask, gateway IP address and DNS server IP addresses manually. Multiple DNS Servers can be entered by separating them with a space, i.E. 111.222.333.444 999.888.777.666.

Administrator IP Address:

Restrict access to GuestGate's administration menu to the IP address you enter in this field. This can be any local or public IP address.

2. Packet filter

Blocked Addresses

If you which to block certain IP Addresses, Domain Names or an entire network you can enter this here. "Add Host Address" is used to enter domain names such as guestgate.com or intellinet-network.com.

Enter the domain name and click on "Add Host". Repeat the steps to block additional domains.

Blocked Addresses:	thepiratebay.org 💟 F	lemove
Add Host Address:	mininova.org	Add Host

"Add Network Address" is used to enter an IP Address. To specify the range you can select the appropriate network mask from the drop down list. If you wish to delete a blocked address, select it from the drop-down list and click "Remove".

Blocked Ports

This option lets you specify which outgoing TCP/IP Ports you wish to block. Enter the port number and click on "Add Port". GuestGate blocks both TCP and UDP protocols. A list of common service ports can be found in chapter -> <u>APPENDIX</u> at the end of the document. If you wish to remove a port simply select the desired port from the drop down list and click on "Remove".

Note: You can only add and remove single ports. Port ranges are not supported.

Permitted Addresses

By default GuestGate blocks access to all PCs in the Host network. This function lets you define exceptions.

Add Host Address: Enter a single IP Address, e.g. the IP address of your Intranet Web server and click on "Add Host". Repeat this step if you wish to enter more IP addresses.

Permitted Addresses:	192.168.2.50 💟 Rer	nove
Add Host Address:	192.168.2.51	Add Host

The example above shows that access to IP addresses 192.168.2.50 is allowed. IP address 192.168.2.51 will be allowed as soon as "Add Host" is clicked.

Add Network Address: Enter an IP address and a subnet mask to define a range of IP addresses permitted to your guests. For example, if you wish to allow access to the entire host network, you can do that by quickly by using this function.

Permitted Addresses:	Remove
Add Host Address:	Add Host
Add Network Address:	192.168.2.1 / 255.255.255.0 Add Network

The example above shows how to allow access to the entire network range from 192.168.2.1 to 192.168.2.254.

Walled Garden Addresses

You can grant an unauthenticated user limited access to Web sites, both external and internal, using the Walled Garden function. In a scenario, where a password is required in order to access the Internet, a guest normally would not be able to access any web site. Any attempt of doing so would result in the display of the welcome page with the request to enter a valid password – as shown below:

	TTA ATTAC
ONG NETWORS TO LIFE	
Welcome to our Net	work!
Dear Guest,	
We're happy to pro Hotspot Gateway.	vide you with Internet Access using the INTELLINET NETWORK SOLUTIONS GuestGate $^{ m M}$
You agree to comply prohibited. Violation	with the company's terms of use. In particular access to any illegal content is strictly of this can result in legal prosecution.
By continuing you a	gree to those terms.
Password:	
	Copyright @ INTELLINET NETWORK SOLUTIONS 2009 - <u>www.questqate.com</u>

Using Walled Garden in combination with a custom welcome screen (see next section) you can now allow your guests to access web sites of your choosing without providing a password. The welcome page could look like this:

Welcome to our Network!	
Dear Guest,	
We're happy to provide you with Internet Access using the Hotspot Gateway.	INTELLINET NETWORK SOLUTIONS GuestGate™
You agree to comply with the company's terms of use. In p prohibited. Violation of this can result in legal prosecution.	articular access to any illegal content is strictly By continuing you agree to those terms.
As password is required in order to access the Internet. Yo In the meantime, you are welcome to browse through our	u can obtain the password at the reception desk. special offers and services:
- Hotel Service Numbers - How to obtain Internet Access - <u>Our special offers</u>	
Password: ••••••	continue

You need to enter the URLs and IP addresses your guests can access without providing a password in the Walled Garden configuration.

Walled Garden Addresses:	mywebsite.com Remove
Add Host Address:	google.com Add Host
Add Network Address:	/ 255.255.255.0 💟 Add Network

Add Host Address: Enter any web site URL you wish to include in the Walled Garden. Click "Add Host" to add the URL to the setup.

Add Network Address: In addition to URLs, you can also add IP addresses to the Walled Garden setup. Specify the IP address and the subnet mask and click on "Add Network" to add the IP address range to the setup.

In order to remove a Walled Garden address, select the URL from the drop-down list and click "Remove".

Welcome Screen Configuration

Welcome Screen Configuration Redirect first request to URL:
Redirect first request to URL:
Mode to customize welcome page: simple 💟
Banner Graphic Banner: Default Image Upload your own Banner Image: Browse Upload
Welcome Text Welcome to our Network! Dear Guest, We're happy to provide you with Internet Access using the INTELLINET NETWORK SOLUTIONS GuestGate ²⁰ Hotspot Gateway. You agree to comply with the company's terms of use. In particular access to any illegal content is strictly prohibited. Violation of this can result in legal prosecution. By continuing you agree to those terms.

This page shows the Welcome Screen configuration options of GuestGate.

1. Redirect first request to URL:

When a guest connects to GuestGate for the first time, GuestGate can redirect the guest to a web page you want them to see, e.g., a page displaying special offers or advertising. The redirect URL is entered without HTTP://. Example: www.guestgate.com GuestGate redirects any guest to the GuestGate web page.

2. Mode to customize welcome page:

There are two values to choose from: "simple" and "advanced". In simple mode you can change the welcome text and replace the default banner graphic, in advanced mode you have access to the entire HTML source code of the welcome page. Once you enable the advanced mode, an additional text box appears on the bottom of the page (see below: "Welcome HTML Code")

3. Banner Graphic

You can replace the default Banner Image with your own image such as the Logo of your company. Click on Browser to select the file you wish to upload. Click on "Upload" to replace the default banner image. After the upload the text "Default Image" changes into "Custom Image".

Note:

The banner image file type must be either JPG, GIF or PNG.

The banner image size must not exceed 60 Kb.

The banner image dimension is not limited, but the width should ideally not exceed 1024 pixel.

The banner image only displays on the guest welcome screen. It does not replace the banner in the administrator Web interface.

4. Welcome Text

You can overwrite the default text with your own custom text. GuestGate supports HTML tags to format your text. Below is a small selection:

```
<strong>bold text</strong>
<font color = red>red text</font>
<font color = #00ff00">green text</font>
<u><u>underlined text</u></u>
<u><strong><font color = red><u>red bold underlined text</u></font></strong></u>
```

Other HTML commands such as <TABLE> tags and many more are also supported.

5. Welcome HTML Code

When you enable the advanced mode, a new text box will appear. This function is designed for advanced users with knowledge about HTML programming. We don't recommend using this function, unless you know what you are doing.

```
Welcome HTML Code
   <html><head><title>INTELLINET NETWORK SOLUTIONS - GUESTGATE* -
                                                                        .
   Welcome</title>
   <link rel="SHORTCUT ICON" href="/img/favicon.ico">
   <link href="/img/styles.css" rel="stylesheet" type="text/css">
   <script language="javascript" type="text/javascript">
   function enter_submit_form(f) {
          if (window.event && window.event.keyCode == 13)
                  f.submit();
          else
                  return true;
   </script>
   <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
   </head>
   <bodv>
   <form method="GET">
   <input type=hidden name="url" value="000url000">
   <table width="900" border="0" align="center" cellpadding="0"
   cellspacing="0" bgcolor="#eeeeee" class="tabborder">
    >
                                                               Reset to default
```

Inside the text box is the complete HTML code of the welcome page. When you make changes, you need to pay extra attention to variables like "@@@WELCOME_MSG@@@" as well as all Java scripts and form elements.

Changing these can lead to unexpected results.

The default welcome page HTML code can be restored by clicking on the "Reset to default" button.

Time / Scheduler Configuration

Time / Scheduler UTC (GMT) Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" <th c<="" th=""><th></th><th></th><th></th><th></th><th>Comina</th><th>Trefoonie</th><th></th><th>iner ovince</th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th>Comina</th> <th>Trefoonie</th> <th></th> <th>iner ovince</th> <th></th>					Comina	Trefoonie		iner ovince	
UTC (GMT) val: every hour e do not reboot device cess Time Schedules all SUN MON TUE WED THU FRI SAT 0			Т	ime / So	chedule	r				
UTC (GMT) Image: Construct of the state of the sta	Time Setup									
val: every hour ae: do not reboot device cess Time Schedules aii SUN aiii Sun <	Timezone:	UTC	(GMT)							
do not reboot device cess Time Schedules all all <td>Update Interval:</td> <td>ever</td> <td>y hour</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Update Interval:	ever	y hour							
Cess Time Schedules always on VED THU FRI SAT ali SUN MON TUE WED THU FRI SAT ali SUN SUN SUN SUN SUN SUN SUN ali SUN SUN SUN SUN SUN SUN SUN <tr< td=""><td>Reboot Device:</td><td>do n</td><td>not reboot</td><td>device 💟</td><td></td><td></td><td></td><td></td><td></td></tr<>	Reboot Device:	do n	not reboot	device 💟						
always on Image: Control of the second s	Internet Access Ti	me Sch	edules		14.00					
aii SUN MON TUE WED THU FRI SAT 01 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 111 0 0 0 0 0 0 0 0 111 0 0 0 0 0 0 0 0 111 0 0 0 0 0 0 0 0 111 0 0 0 0 0 0 0 0 1111 0 0 0 <td< td=""><td>Internet Access:</td><td></td><td>always o</td><td>on</td><td></td><td></td><td></td><td></td><td></td></td<>	Internet Access:		always o	on						
		all	SUN	MON	TUE	WED	THU	FRI	SAT	
		01								
		11								
		21								
		31								
		51								
		71								
		81								
		91								
		10 1								
		111								
		121								
		131								
		141								
		15 1								
		16 1								
		17 1								
		18 1								
201		19 1								
		201								
211		21 1								
21		221								

This page allows to set up the time-related settings of GuestGate.

1. Time Setup (time zone and update interval)

Select the time zone in which you are located it. The update interval parameter defines, how often GuestGate re-synchronizes the internal time with the Internet time.

2. Reboot Device

With this parameter you can set up GuestGate to perform a scheduled restart once per day at a time of your choosing.

If you have a lot of users connected to GuestGate this feature will improve overall system stability.

Furthermore, you can use this feature to force all users to re-authenticate at a defined time if you so desire.

Reboot Device:	do not reboot device 🔽
	do not reboot device 🔺
	0:00 (12am)
	1:00 (1am)
	2:00 (2am)
	3:00 (3am)
	4:00 (4am)
	5:00 (5am)
	6:00 (6am)
	7:00 (7am)
	8:00 (8am)
	9:00 (9am)
	10:00 (10am)
	11:00 (11am)
	12:00 (12am)
	13:00 (1pm)
	14:00 (2pm)
	15:00 (3pm)
	16:00 (4pm)
	17:00 (5pm)
	18:00 (6pm)

3. Internet Access Time Schedules

Internet Access Ti	ime Scheo	lules						
Internet Access:		is sche	duled below	/ 🔽				
	alla	ilways c	on	JE	WED	ТНU	FRI	SAT
	•••	is schei	duled below					
	11							
	21							
	31							
	41							
	51							
	61							
	71							

You can control whether Internet access is available all the time, or only at certain time, e.g., only during business hours.

Parameter value "always on":

Internet access is possible at any time and any day. There are no restrictions.

Parameter value "as scheduled below":

When you select this option, you can specify the days and hours at which Internet service is provided. You can click the individual fields to activate or deactivate Internet access at that time and day, or you can click on the buttons "SUN", "MON" etc to toggle access for that day. The same is possible using the buttons in front of each row. Click "4 h" to toggle Internet access for each day during the hour from 4 am to 5 am. Click on "19 h" to toggle Internet access for each day during the hour from 7 pm to 8 pm.

The button "all" activates or deactivates all fields.

Note:

When using the scheduler function, you must make sure that GuestGate has access to an NTP server. You need to check the status page to make sure that GuestGate has retrieved a proper time. If GuestGate has not obtained a time, there will be no Internet access for any user while the scheduler is activated.

Device Settings Configuration

INTELLINET	E.	1	-		1-40b		
Bewarks Networks To Line	Status	Guest Conlig	Host Config	Welcome Page	Time/Schedule	Device Settings	Exi
		Devi	ice Setting:	5			
Admin Password							
Old password:			••••				
New password:							
Retype new passwo	rd:						
		ſ	Change				
		,					
Log			1997 I 197				
Enabled:		enabl	led 💟				
		Dow	nload Cle	ar			
Configuration							
Load Configuration:				Browse			
		Load	d Downloa	ıd			
Firmware				1000 m			
Upgrade Firmware:				Browse			
		Insta					
L							
Convrig	t @ INTE	LI INET NETWO	RK SOLUTION	S 2009 - www.aues	staate.com		

This page allows changing the administrator password, saving and restoring the configuration, upgrading the firmware and

1. Admin Password

To change the Administrator Password you need to enter the old password and the new password. You also must confirm the new password by retyping it. Click on "Change" to save the changes.

GuestGate's default password is: *1234* The password can be up to 20 characters in lengths.

2. Log

GuestGate can maintain a protocol that includes information such as the login date and time, the logout time, the IP address and the MAC address of the connected guest computer. The function must first be enabled by settings the parameter enabled to the value, you guessed it, "enabled".

You can download the log at any time by clicking the "download" button. When you do, you are being presented with the following pop-up window:

Opening config.cgi	
You have chosen to open	
📷 config.cgi	
which is a: CGI file	
from: http://67.111.35.58	
What should Firefox do with this file	?]
Open with Browse	
Save File	
Do this <u>a</u> utomatically for file	s like this from now on.
	OK Cancel

Select "Save File".

Save jn:	🞯 Desktop			🖸 🥝 🌶 📂 🖽 -		
	Name 🔺	Size	Туре	Date Modified		
	My Doc		System Folder			
My Recent	🔙 My Co		System Folder		-	
Documents	My Net		System Folder			
	Adobe	2 KB	Shortcut	7/10/2008 1:54 PM		
	🗊 Inter-T	3 KB	Shortcut	2/27/2009 8:02 AM		
Desktop	IPCam	1 KB	Shortcut	11/19/2008 4:36 PM		
	Po IPCam	1 KB	Shortcut	11/19/2008 4:37 PM		
	🜆 Launch	2 KB	Shortcut	3/3/2009 4:51 PM		
	📓 Map Dr	1 KB	VBScript Script File	10/4/2005 8:58 AM		
Mu Documents	😥 Mozilla	2 KB	Shortcut	7/10/2008 3:15 PM		
ny boodinorito	SAP Lo	1 KB	Shortcut	7/10/2008 3:17 PM		
	Skype	3 KB	Shortcut	11/17/2008 7:54 AM		
	📰 Sothink	1 KB	Shortcut	1/27/2009 5:50 PM		
	🛃 WinAc	1 KB	Shortcut	7/10/2008 3:09 PM		
My computer	50369	-	File Folder	12/1/2008 9:16 AM		
	File name:	log t			Save	

Specify the location and rename the file "config.cgi" into "log.txt". Click "Save".

Start MS Excel and open the file log.txt. You'll then be presented with the Excel's Text Import Wizard.



Select "Delimited" and click "Next >".

Text Import Wizard - Step 2 of 3	? 🔀				
This screen lets you set the delimiters your data co how your text is affected in the preview below.	ntains. You can see				
✓ Iab Semicolon Comma	Treat consecutive delimiters as one				
- Data preview					
login date login time logout date 1 2009-03-12 19:56 2009-03-13 1	ogout time IP address MAC a 1:05 172.22.75.198 00:18 172.30.39.10 00:23				
Cancel < Back Next > Einish					

Select "Tab" and click "Next >".

On the next screen you can assign different formats to the individual columns.

	uran a - arab	3 01 3			?
This screen lets the Data Format 'General' conv values to date	you select each :. erts numeric val s, and all remair	column and set ues to numbers, d iing values to text	late	ta format ral YDM)
Data greview	Advanced				
YDM	General	YDM	General	Text	Text
YDM login date 2009-03-12	<u>General</u> login time 19:56	YDM logout date 2009-03-13	Ceneral logout time 11:05	Text IP address 172.22.75.198 172.30.39.10	Text MAC a. 00:18 00:23
YDM Login date 2009-03-12	<mark>General</mark> login time 19:56	YDM logout date 2009-03-13	General logout time 11:05	Text. IP address 172.22.75.198 172.30.39.10	Text MAC a 00:18 00:23

Recommended values for the "login date" and "logout date" column are "Date YDM".

Click "Finish" and MS Excel proceeds to open the log file.

3. Configuration

You can create a backup of the configuration by clicking the "download" button. Save the file "config.cgi" to your hard drive.

If you wish to reload the configuration at a later time, click "Browse ...", select the previously saved file "config.cgi", and click "open". Finally, click on "Load" to restore the configuration data.

4. Firmware

Refer to the next section "Firmware Upgrade Process".

Firmware Upgrade Process

Where to obtain a new firmware

There are two ways to find out of a new firmware is available.

a) Check Guest Gate's Status Page

Guest Gate checks if a new firmware is available when you login to the Administrator menu. If a new version is found, a test message appears on the status screen.

See example below:

Device Status Information

New firmware version available (Version: 1.42 , Date: 2006/09/28)! <u>Click here for more information.</u>

Click on the link "Click here for more information" and you are being taken to the web page that includes information about the new firmware.

b) Check the download section on http://www.guestgate.com manually.

Upgrade Process:

Open the Device Settings screen of the Administrator menu.

Click on "Browse" to select the new firmware Image, e.g., "523240-1.22.img".

Click on "Install" to begin the upgrade process.

The Upgrade may take several minutes depending on your connection speed to GuestGate.



GuestGate will automatically restart after the upgrade process. After you see the restart message you need to wait one minute before you can access GuestGate again.

<u>Note:</u>

The Upgrade Process must not be interrupted!

A network connection failure or a crash of your local computer during the upgrade process will result in the destruction of GuestGate.

Ideally you want to perform the upgrade from within the local Host Network whenever possible. Device failures resulting from improperly performed firmware upgrades are excluded from the product warranty.

Exit Screen



This page lets you save the new configuration.

[x] Save Settings

All changes you made to the configuration will only be memorized if you save the changes by activating this check box.

If you made changes in some of the configuration screens and fail to perform this step before closing the Web browser, all changes will get lost.

[x] Reboot Device

In order to activate the new configuration you must also check this box.

Note:

Saving the settings does not automatically activate them. It is necessary to reboot GuestGate for the new configuration to become active.

This way you can make changes to the configuration (i.e. a new Guest Password) now and activate them at a later time.

Rebooting GuestGate will also enforce a re-authentication of all connected guest computers.

QUESTIONS & ANSWERS

- Q: What is the default IP Address of GuestGate?
 A: The default IP address is: 192.168.2.1
- Q: What is the default administrator password of GuestGate?
 A: The default password is: 1234
- Q: How do I reset GuestGate to the factory default state?
 A: Press the reset button on the rear for 5 seconds while GuestGate is up and running.
- 4. Q: I have changed some settings in the administrator Web interface, but the changes show no effect. Why?
 A: You may have forgotten to save the configuration through the EXIT page of the administrator Web interface.
- 5. **Q:** I have a server in my network which my guests are not allowed to access. Which settings do I need to activate in GuestGate to prevent my guests from accessing this server?

A: You do not need to activate any settings. GuestGate provides this functionality by default. Should a guest try to access a server or computer in your network GuestGate will deny the request displaying a warning message in the guest's Web browser window.

6. **Q:** What if I want to allow my guests access to my network, i.e. my Intranet Web server?

A: Add the IP address of your Intranet server in GuestGate's Host configuration page under 'Permit Addresses' and GuestGate will no longer block access to that server.

- Q: Can I control the amount of bandwidth available for my guest network?
 A: Yes. Upload and download bandwidth can be controlled in the guest configuration of the Administrator Web interface.
- 8. Q: I wish to display my own welcome page for my guests. Can I change the default welcome page?
 A: Yes. The welcome page can be changed in administrator Web interface. You can change the welcome message and upload your own banner image. In advanced mode you have access to the complete HTML source code allowing you to change the appearance of the welcome page completely.
- Q: Can I use HTML Code in my custom welcome page?
 A: Yes. GuestGate does not limit you in any way. If you are a HTML Web developer you can create an enhanced welcome page simply by pasting the HTML code into the welcome page configuration field. In advanced mode you have access to the complete HTML source code.

- Q: I have made edits to the welcome page in advanced mode and now the welcome page does not work correctly anymore. How do I restore the default welcome page?
 A: Open the welcome page configuration page and make sure the "Mode to customize welcome page" is set to "advanced". Scroll down to the text box labeled "Welcome HTML Code" and click the button "Reset to default". Save the configuration via the Exit page to activate the default welcome page.
- 11. Q: Does GuestGate support PHP, ASP or Perl?A: No. GuestGate does not support server-side scripting.
- 12. **Q:** What is the option "separate network for each client (automatic)" in the Guest Configuration Screen used for?

A: This is the Layer 3 Client Isolation function of GuestGate. If this option is activated GuestGate will prevent the connected guest computers from accessing each other by assigning random TCP/IP network settings to the guest computers. This way each Guest operates in its own "Virtual LAN". The two examples below illustrate how it works:

1. Guest configuration set to "same network for all clients (automatic)" Guest computer 1 receives IP address 172.16.254.253. Guest computer 2 receives IP address 172.16.254.252. Guest computer 3 receives IP address 172.16.254.251. [...]

In this mode all guest computers operate in one network and are therefore able to access each other. This is the standard mode of virtually any router and DHCP server on the market.

2. Guest configuration set to "separate network for each client (automatic)" Guest computer 1 receives IP address 192.168.17.42. Guest computer 2 receives IP address 172.16.25.12. Guest computer 3 receives IP address 10.10.8.178. Guest computer 4 receives IP address 10.10.4.18. Guest computer 5 receives IP address 192.168.8.178. [...]

In this mode each guest computer operates in its own network and therefore can <u>not</u> access any other device except for the Internet. Since this function is random it is next to impossible for an attacker to know or guess which IP addresses the other guests have been assigned making a hacking attempt more difficult.

If you are concerned with the security of your guests or are worried about potential liability issues you should activate this option (it is activated by default).

13. Q: How often does a guest need to authenticate at the welcome page?
A: Only once. As long as GuestGate is not restarted and the guest remains connected to GuestGate, the guest will never again be prompted to enter the password and agree to your terms and conditions. If the guest disconnects from GuestGate for a period of 10 minutes or more, the welcome page will be displayed again the next time the guest tries to access the Internet.

14. Q: Some of my guests wish to play a network game, or share files and folders. But that does not work. How come that the connected guest computers cannot communicate with each other?
A: That is because by default Layer 3 Client Isolation is activated. You need to disable it to allow network communication between the connected guest computers.

See question 12.

- 15. Q: Can I access the administrator menu of GuestGate from one of the guest ports?
 A: No. For security reasons this is not possible. Access to the administrator menu can only be gained through the host port.
- 16. Q: Can I access any guest computer from the host network?
 A: No. Opening ports to connected computer, as you can do with any standard router (virtual server / port forwarding), is not possible with GuestGate for security reasons.
- 17. Q: Can I open ports in GuestGate to allow access to a connected guest computer?A: No, that is not possible. See the previous question.
- **18.** Q: On the status page of the Web administration interface the time is displayed as "(not available)", why?
 A: Cuest Cate connect access the need time conversion the Internet and is therefore

A: GuestGate cannot access the pool time servers on the Internet and is therefore unable to receive a valid system time. The most likely cause for this problem is that a Firewall located in the Host network may be blocking outgoing Network Time Protocol (NTP) requests. The system administrator must open the ports required for this service (port 123 for both TCP and UDP).

It is important to take care of this problem, especially if you use the "Time / Scheduler" function to control, when Internet access is allowed.

19. Q: Does the bandwidth control limit the bandwidth per computer, or does it limit the bandwidth GuestGate can consume in total?
A: The bandwidth control limits to bandwidth that GuestGate can use, regardless of how many guest users are connected to the device.

SERVICE & SUPPORT

Additional information about GuestGate is available on the Web at www.guestgate.com

On this page you can:

- 1. Find answers to common questions (FAQ)
- 2. Obtain the latest Firmware Versions
- 3. Get in contact with our technical support team.

SPECIFICATIONS

- Guest Network: 1 x 10/100Mbps RJ45 Port
- Host Network: 4 x 10/100Mbps RJ45 Ports
- Reset Button
- LEDs: 1 x Power, 1 x Link/Activity for Host Network, 4 x Link/Activity for Guest Ports
- AC Adapter 12V/1A
- Dimensions: H: 37mm, W: 187mm, D: 100mm
- Humidity : 0-90% (Non-Condensing)
- Temperature : 10~55 °C
- EMI Certification: FCC Class B, CE Mark, C-T

APPENDIX

Below you can find a list of common TCP/IP Service Ports. These ports can be entered in the HOST CONFIGURATION of GuestGate to block access to certain services.

Port Number	Sorvico Namo / Description
21	SSH (Secure Shell)
23	Telnet
25	SMTP (Outgoing Mail, Sendmail Server Port)
69	TETP (Trivial File Transfer Protocol)
70	Gopher
79	Finger
80	HTTP (Standard Web Port for Web Sites)
110	POP3 (Incoming Mail)
115	SFTP (Simple File Transfer Protocol)
119	NNTP (Newsgroups)
123	NTP (Network Time Protocol)
135	RPC service, used for NET SEND command
137, 138, 139	NETBIOS (Filesharing, MS Windows Network)
143	IMAP (Interim Mail Access Protocol)
161	SNMP (Simple Network Management Protocol)
194, 6665-6669	IRC (Internet Relay Chat)
443	HTTS (Secure Web transfer, used by SSL))
514	SHELL (
515	LPR (Line Printer Remote), LPD (Line Printer Daemon)
631	IPP (Internet Printing Protocol)
1080, 3127, 3128, 10080	<u>Trojan</u> : Used by MyDoom
1723	PPTP (used for VPN Connections)
1863	MSN Messenger
2535, 2745, 8866	Trojan: Used by Beagle
3389	Windows XP Remote Desktop Port
3410	Trojan: OptixPro, also used by NetworkLens SSL Event
3689	NUNES by Apple, DAAP
4899	KADMIN, Remote Control
5000, 5001	YAHOO Messenger Video (Mohoom)
5100	
5190, 5191, 5192, 5195	Troian: Sassar Family, also used for SGLESP HTTP
5800+ 5900+	VNC
12345	Trojan: I lsed by Nethus, also used by Italk Chat System
12070	and TrendMicro OfficeScan antivirus
27374	Trojan: Used by SubSeven



BRINGING NETWORKS TO LIFE

INTELLINET NETWORK SOLUTIONS[™] offers a complete line of active and passive networking products. Ask your local computer dealer for more information or visit

www.intellinet-network.com

Copyright © INTELLINET NETWORK SOLUTIONS All products mentioned are trademarks or registered trademarks of their respective owners.