



Monitoring Appliance – Quick Overview

This document is intended to make you familiar with the ServersCheck Monitoring Appliance

Although it is possible, we highly recommend not to install other software on the device as it might interfere with the Monitoring Software the device was designed for. Installing other software will void the warranty and support for the device.

1. About the Monitoring Appliance

The ServersCheck Monitoring Software requires a Windows based system to run on. With the appliance customers get a custom built similar to a PC. Everything is preinstalled so that customers don't have to worry about drivers to download, installs or even compatibility issues.

1.1 XPEmbedded

The device runs on XPEmbedded. XPEmbedded (XPe) is a special version of the traditional XP Professional Operating System that most people are familiar with. XPe is tuned to match requirements of the system it is designed for so that the ServersCheck software & hardware can run on this device in the best possible conditions.

XPe has also a much smaller footprint compared to traditional XP versions making it suitable to run on smaller devices such as the ServersCheck Monitoring Appliance.

By default the appliance is set to following administrator username and password:

- Username: Administrator
- Password: serverscheck

1.2 Monitoring Software

The version of the ServersCheck Monitoring Software loaded onto the device is the Business 100 Edition. Not only the Operating System but also the monitoring software has been optimized for the appliance.

License files required for the software to run are preinstalled. A license file is linked to the version it was issued for. If you want to upgrade the appliance to a higher version, then you need to obtain a new license file. You can request this from following url: http://www.serverscheck.com/orders

This guide covers the basic installation and features of the appliance. Fine tuning settings, adding monitors, alerting capabilities, environmental monitoring and other information is available from our online user manual (wiki) at: http://wiki.serverscheck.com

The Monitoring Software runs as a service on the appliance. This means that a user does not have to be logged on to the system to use it and that it is automatically started whenever the appliance is (re)booted.

1.3 Other preinstalled software

Next to the Monitoring Software, the following software is installed on the device:

- Firefox 3 as web browser (no Internet Explorer on board)
- Tibbo tool kit for network enabled sensors
- Drivers for ZOOM 4595 USB modem
- Drivers for USB ServersCheck environmental sensors
- Drivers for ServersCheck Signal Tower
- Drivers for LCD Display (Crystalfontz 634 USB)

By having all drivers preinstalled, the user of the appliance does normally not have to look for compatible drivers for the hardware purchased from ServersCheck (hardware available at the time of purchase). Hardware released by ServersCheck after the purchase of the appliance may require additional drivers which are then made available to the user of the appliance through a special url linked from in the online wiki at http://wiki.serverscheck.com

By default the Windows Firewall is enabled and blocks all inbound connections including those on port 1272. You need to disable the Windows Firewall or allow incoming connections on port 1272 (see further in this document)

Visual Product Tour



The front part of the appliance consists of following (from left to right):

- 2 USB ports for environmental sensors or other USB enabled devices (mouse, keyboard)
- One SD card holder
- 2 led displays on the right: top one indicates power should be green when operating Second one indicates hard disk activity



The rear consists of following (from left to right):

- Plug for power adapter and main power switch under it (under S/W label)
- PS2 port for Keyboard
- VGA port to attach a cable to a display
- RJ45 port for Ethernet cable (10/100)
- USB port. When using a GSM modem then connect it to this USB port

First plug in the power adapter before pushing the dot side of the power button. Always do a gentle shutdown of the appliance before powering off – this will prevent potential damage to the hard disk.

2. Getting Started

2.1 Connecting to the appliance

By default the appliance gets its IP address from the DHCP server in your network. Check on your DHCP server which IP address was attributed to the appliance. The appliance's name broadcasted to the DHCP server is: **SERVERSCHECK-AP**

As mentioned previously in this guide, the appliance runs on Windows XPembedded, part of the XP product family. XPe is a special version of XP that is supported by Microsoft for special appliances like the one you have.

It is administrated in the same way as any other XP based PC. You can connect to the appliance in 2 ways:

1/ connecting a monitor, keyboard and mouse to the appliance and use it like a normal PC 2/ creating a remote desktop connection to the appliance

2.2 Connecting to the appliance as a normal server



On the back of the appliance you can connect a monitor using a standard VGA cable, a PS2 keyboard and a mouse. If you don't have a PS2 keyboard then you can also use an USB keyboard using the USB port on the front. When connected you will be prompted with a standard windows login screen as shown below.



By default the administrator username & password are:

- Username: Administrator
- Password: serverscheck

Click on OK to log in

2.3 Enabling Windows Firewall to allow inbound connections on port 1272

Go to your control panel and open up the Windows Firewall tool by double clicking on the icon.



Click on the Exceptions tab and then on the Add Port button

	🙀 Windows Firewall 🛛 🛛 🔀
	General Exceptions Advanced
	Windows Firewall is turned off. Your computer is at risk of attacks and intrusions from outside sources such as the Internet. We recommend that you click the General tab and select On.
	Programs and Services:
	Name
Add a Port 🔀	✓ Message Queuing
the design of the second state of the second s	✓ Network Diagnostics for Windows XP
Use these settings to open a port through windows Firewall. To find the port number and protocol, consult the documentation for the program or service you	Remote Assistance
want to use.	
	ServersCheck Monitoring Super Thread
	UPnP Framework
Name: ServersCheck	
Batauntar 1273	
	Add Program Add Port Edit Delete
⊙ ICP C ∐DP	Display a polification when Windows Firewall blocks a program
What are the risks of opening a port?	What are the risks of allowing exceptions?
Change scope OK Cancel	DK Cancel

2.4 Creating a RDP (Remote Desktop) Connection to the Appliance

To start RDP on a Windows XP based system go to Start > All Programs > Accessories > Communications > Remote Desktop Connection

A window similar to the following will open. Type the IP address of the appliance and click on **Connect**



When using SP3 of XP then you might get following screen. Simply check the box as shown and click on **Connect**



The desktop of the appliance will be loaded and you will be prompted for a username and password



By default the administrator username & password are:

- Username: Administrator
- Password: serverscheck

Click on OK to log in

TIP: No English keyboard users should be aware that the appliance is set to accept QWERTY keyboard. If you use a different layout (ie AZERTY, QWERTZ or other), then you need to type as if it is QWERTY. For example for an AZERTY user you need to press Q for letter A. See QWERTY layout below:

) (+) (
TABQWERTYUIOP(
CAPS ASDFGHJKL;;;	ENTER
★ Z X C V B N M < > ; 4	•

When logged in, you will then be shown with a standard XP desktop where you have full administrator rights to. You can make it join your company's network, modify the IP or tune some settings as per your corporate policy.

When you log in you may experience an **HDeck.exe** error. This is normal and is due to the fact that the HDeck software is not designed for running in RDP mode. You may safely ignore this message.

2.5 Upgrading the Monitoring Software to the latest release

Have your serverscheck.lic file ready and overwrite the existing one in the folder D:\Program Files\ServersCheck_Monitoring\lic

In the main ServersCheck directory (D:\Program Files\ServersCheck_Monitoring) there is a utility called **upgrade.exe** You can either launch it from the main ServersCheck directory or by going to

Start > Program > ServersCheck > Monitoring > Upgrade ServersCheck as shown below

		<u>.</u>	GSM Modern Tester
			Online Help File
		<u></u>	ServersCheck
			Signal Tower Tester
			SSL Configuration
🛗 Programs 🕨	Accessories	•	Upgrade ServersCheck
	🛅 Startup	• 📮	Visual Mapping Tool
😼 Settings 🕨	🛅 Tibbo	•	Yoice Call Tester
- Dum	Administrative Tools	•	Release Notes
- Kult	💼 ServersCheck	🔸 🛅 Monitoring 🔸 🜄	Service Configuration
Log Off Administration	Zoom 7.2M Tri-band Modem	•	
	🛅 TeamViewer 5 Host	•	
Disconnect			
🏄 Start 🞯 😏 🥹 🎭 Services	C:\WINDO	VS\system32 🔁 D:\F	rogram Files\Servers 🔽 🖸

In the next screen click on the **OK** button to check if a new release is available

n Checke r		×
the Internet to Initoring Softwa	see if a newer ve re is available?	rsion
Cancel	Configure	
	checker the Internet to nitoring Softwa Cancel	Checker the Internet to see if a newer ve nitoring Software is available? Cancel Configure

A new version has been found. If you are ready to perform the upgrade, then click on the Yes button

🔁 Upgrade Available 🛛 🛛 🛛
There is a newer version of ServersCheck Monitoring Software available. It is the 10MB in size. Do you want to upgrade now?
Yes No

A dialog box will warn you that for the release a new license file may be recommend. If you comply with the text in the dialog box, then click on the **Yes** button

Update V	Yarning - Read Carefully 🛛 🕅
	You are about to upgrade to release 8.0.8 of the ServersCheck Monitoring Software.
	If you are currently using the 7.X release or lower, then you will need a new license key in order to use this release.
	If you have a valid support agreement, then please login to the online helpdesk first in order to receive a license key for 0.0
	Do you accept the license agreement and do you want to continue with the upgrade process?
	Yes No

All services are now stopped automatically - no ServersCheck services may be running when upgrading. After this it automatically starts downloading all new components.

👱 Upgrading Software	×
Downloading file (108 KB of 3.71 MB received)	
•	
Cancel	

If you encounter the error task failed on Line5, then download the taskkill.exe from this url and install it in your c:\windows\system32 directory:

http://upgrade.serverscheck.net/monitoring_software/taskkill.exe

When the upgrade is complete, a Window similar as following will be shown. Click on the **OK** button to end the upgrade process. The ServersCheck Monitoring services are automatically restarted.

Update Completed		
You now have in Users upgrading	stalled the latest version of ServersCheck (release 8.0.8) from 7.x or lower will need a new license key for this update. (A new license key will only b	be available for users with a valid support and maintenance agr
	СК	
	Cancel	

2.6 Verify the virtual memory size of your appliance

Click on the START button of your appliance and then on the RUN option (highlighted below)



In the RUN option, type following command:

control.exe %windir%\system32\sysdm.cpl

In the **System Properties** window, click on the **Advanced** tab. In the Performance Section, click on the **Settings** button. The **Performance Options** window will now open (as shown left). click on the **Advanced** tab as shown below and then on the **Change** button

General	Computer Name	Hardware
Advanced	Automatic Updates	Remote
'ou must be logged or	as an Administrator to make	e most of these changes
Visual effects, processor scheduling, memory usage, and virtual memory		
visual energy, processor someticing, metholy usage, and virtual metholy		
Settings		
User Profiles		
Desktop settings relat	ea to your logon	
		Settings
Startup and Recovery	,	
System startup, system	m failure, and debugging info	ormation
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General Computer Name Hardware Advanced Automatic Updates Remote Performance Options 21 × Visual Effects Advanced Data Execution Prevention Processor scheduling By default, the computer is set to use a greater share of processor inter or un your programs. Adjust for best performance of: © Programs © Background services Memory usage By default, the computer is set to use a greater share of memory to run your programs. Adjust for best performance of: © Programs © System cache Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 250 MB	?
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Programs Background services Memory usage By default, the computer is set to use a greater share of memory to run your programs. Adjust for best performance of: Programs System cache Virtual memory A paging file is an area on the hard disk that Windows uses as if it were RAM. Total paging file size for all drives: 250 MB Change	r best performance of:
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	Change
OK Cancel Anoly	OK Cancel Anniv

Make sure the Virtual Memory is set as shown in following image:

٧i	rtual	Memory		? ×
	<u>D</u> rive	[Volume Label]	Paging File Size (MB	3)
	C:	[OS]	250 - 4096	
	D: G:	[SERVERSCHCK]		
	 Pagi	ng file size for sele	cted drive	
	Driv	e:	C: [05]	
	Spa	ce available:	33083 MB	
		<u>C</u> ustom size:		
	Init	ial size (MB):	250	
	Mag	ximum size (MB):	4096	
	0:	S <u>y</u> stem managed :	ize	
	0	<u>N</u> o paging file		Set
	Tota	al paging file size fo	or all drives	
	Mini	imum allowed:	2 MB	
	Rec	commended:	1486 MB	
	Cur	rently allocated:	250 MB	
			ОК	Cancel

Click on the **OK** button. The **Virtual Memory** window will now close. Click on the on the **Apply** button of the Performance Options. A reboot is recommended at this stage.

3. ServersCheck Monitoring Software

The ServersCheck Monitoring Software is a browser and sms based software. For the SMS feature a GSM modem is required (best connected to the USB port on the back of the appliance). See the Falcom Samba Quick Install Guide on wiki.serverscheck.com for configuring the GSM modem.

To connect to the appliance, open a browser on your pc and point it to the IP address of the appliance followed by :1272 as the software runs on port 1272. By default the Windows Firewall is enabled and blocks all inbound connections including those on port 1272. You need to disable the Windows Firewall or allow incoming connections on port 1272 (see further in this document)

In the example below the IP address of the appliance is 10.0.0.58

<u>Eile Edit View History Bookmarks Window Help</u>	
+ O + O http://10.0.058:1272	• Q+ Google

You will be prompted for a username and password once a connection is made to the ServersCheck web server.

ò	To view this page, you need to log in to area "ServersCheck Monitoring" on 10.0.0.58:1272. Your password will be sent in the clear.					
	Name:	demo				
	Password:	••••				
	Remember this password					
		Cancel Log In				

Default settings for the Monitoring Software are:

- Username: demo
- Password: demo

TIP: username and password are case sensitive. If the web server still does not authenticate then logon locally to the server using the preinstalled Firefox browser. By default it will open the url http://localhost:1272. When the webserver is accessed locally, then no credentials are required.

The explanation of the configuration as outlined next is done assuming that your ServersCheck installation is in English.

3.1 Define email alerting and securing web interface

Let's start by performing a first time configuration of the software to enable email alerting:

ServersCheck Monitor	ng Software - STANDA	ARD Edition - v	version 9.0.3 - Moz	illa Firefox				
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- Label-	Type*			Remarks %	Checks Dow	m Value Last Up Li	ast Down* Last E	ror Downtime
Local Sustem	77							
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Click on **CONFIGURATION** in the orange menu

Edit View Higtory Bookmarks Lools Help	0 × 0 12	
ServersCheck Monitoring Software - STA +		- ocogie 🖉 🖓 🖬 🛡
DA SHEOARD VIEWS ALER	ITS REPORTING CONFIGURATION SUPPORT X	
	Email alerting has not yet been configured.	Click here
eneral ServersCheck Configuration S	ettings	
ADD CHECK		DEFAULT MONITOR VALUES
SELECT AN OPTION	>> START CONFIGURATION	EDT
	TEAM - USER	
EDT	SELECT AN OPTION	SELECT AN OPTION
	MAP SETTINGS	

Click on the **START CONFIGURATION** button in the middle square as show in above screen. A popup window will open. Click on the green **START CONFIGURATION** tab



Enter your email address and click on the TEST EMAIL button

After clicking that button it might take a few moments as ServersCheck will try to verify if it can send out emails on port 25. Many ISP's block port 25 to outside mail servers and only allow them to use their own SMTP server (typically in the format of **relay.isp.com**).

We are now going to submit our email address so that the software can verify if it can use its built-in mail server.

If the test fails or if you do not receive the test email then you need to manually configure to the outgoing mail server. First the software will suggest you a set of predefined outgoing mail servers to choose from. If your ISP is not in the list or if you want to use your own mail server then click on the **ISP NOT FOUND** button

🥹 ServersCheck Monitoring Software - STANDARD Edition - version 9.0.3 - Mozilla Firefox	🔞 ServersCheck Monitoring Software - STANDARD Edition - version 9.0.3 - Mozilla Firefox
localhost:1272/popup2.html	☐ localhost1272/popup24.html?email=test@test.com
Configuration Wizard – Email 2 Servers:Check can also use the relay server from your Internet Service Provider. Select your ISP from the list below.	Configuration Wizard – Email 2 Exchange or other mail servers can also be used for sending out email based alerts. Complete the fields below to send a test email. If you don't have a mail server in your company, then click on the CMAIL button
ISP FOUND, NEXT STEP ISP NOT FOUND	SMTP Server my/elayserver.com V SSL (STARTTLS) SMTP Port 25 Username myusername
	Password
	> TEST EMAIL GMAIL

In the above screen you can configure the settings for your mail server. If you want to use Gmail then click on the **GMAIL** button.



If you received the test email, then click yes.



In the above screen you are invited to define the username and password protecting the web front end of the ServersCheck Monitoring Software. This is for the main administrator user account.

Click on SAVE SETTINGS when done and then on the CLOSE WINDOW button.

3.2 SMS Alert Settings

Make sure the ZOOM modem is plugged into the back of the appliance (just above the CE and FCC logo's)

Go to the CONFIGURATION and then select the SMS Setting option



In the following screen select the correct port number for the GSM modem

Selected SMS method:	GSM & 3G modem
Modem to use	COM5
SMS Body	%1 (%g - %d) changed to %s at %t. Reason: %e
Authorized mobile numbers for incoming SMS	
Only send SMS alerts when Internet connection is DOWN?	Nov
AVE SETTINGS TEST SETT	INGS

The **Authorized mobile numbers for incoming SMS** is the list of numbers or part of numbers that are allowed to communicate with the modem. When left blank then anyone is allowed to connect.

Click on SAVE SETTINGS when you have configured it.

3.3 Creating your first check

As example we will define a first check whereby we will monitor if the internet connection is still working. We will do this by performing a PING call to google.com

In the top menu click on **DASHBOARD VIEWS** and then on **ALL MONITORS VIEW** Click on the **MONITOR NEW ITEM** button

ServersCheck Monitoring Software - STAND	ARD Edition - version 9.0.3 - Moz	illa Firefox	70.00	Autor with writer to	
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Server room monitoring	ARD VIEWS ALERTS REPORTIN	NG CONFIGURATION SUPPO	ORT X	_	
SERVERSCHECK	<			C	
* Label* Type*	•••	Remarks 🛠 Checks E	Oown Value Last Up	Last Down* Last Error	Downtime
Local System					
WINDOWSHEALTH WINDOWSHEALTH	A 🖬 🕹 A 🖉 🗖	• 0	ms		
No CPU data! No memory data!					
Running in freeware version. Following features as	re disabled in the freeware version:	SNMP Trap Receiver, Network Mi	aps, Report Scheduling. The	se features require a paid licens	e.Limited to 10
monitors. Click here to register for an additional 3	30 monitors.				
MONITOR NEW ITEM	3				
MONTOR NEW TEW	8				
Convict 2002-2012 - Server Chrt. All	received Limited frequency version. Ma	and to monitor more or wast	roial support? Purchase - Ver		
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In the following screen click on the radio button next to the PING monitor type



ServersCheck Monitoring Software - STANDARD Edition - version 9.0.3 - Mozilla Firefox		_ 0 <u>_ X</u>
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ServersCheck Monitoring Software - STA +		
TOP 10 MAP VIEW ALL MONITORS VIEW DEVICE VIEW GROUP VIEW COMPACT VIEW CAM	ERA VIEW	
DASHBOARD VIEWS ALERTS REPORTING CONFIGURATION	SUPPORT X	
SERVERSONEOR		
Add New Monitor Wizard – Step 2 of 5		
If you do not wish to use the wizard, then click here to go to the definition screen of the new monitor.		
Assign a name to the monitor		
Monitor label name: Internet test		
Device that is monitored: Add New Device		
Device name Router		
IP Address 10.0.0.99		
Group to which the monitor belongs to Add Group		
Group name Internet Connection Tests		
IN STEP 3 BACK		
© Copyright 2003-2012 - ServersCheck, All rights reserved. Limited freeware version. Need to monitor more or want	commercial support? Purchase a license from here.	START MONITORING

In the above screen we have named the check **Internet Test** and have linked it to a device named **Router** with **10.0.0.99** as its IP address. We also linked it to a logical group **Internet Connection Tests**

Click on the STEP3 button

In the screen below you define the minimum interval between 2 checks. In the default settings it is not going to run the check more than every 3 minutes. Depending on the load and number of monitors defined and their frequency, the interval could be higher.

The retry interval is the number of times it should run this check prior to considering it as really failed. This feature allows to reduce the number of false positives. Click on the **STEP 4** button

ServersCheck Monitoring Software - STANDA	ARD Edition - version 9.0.3 - Mozilla Firefox		
File Edit View Higtory Bookmarks Tools	Help		
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TOP 10 MAP VIEW ALL MONITOR'S VIEW		ERA VIEW	
server room monitoring	BOARD VIEWS ALERTS REPORTING CONFIGURATION	SUPPORT X	000
Add New Monitor Wizard – S Specify now the frequency of the check and wh You can specify later time ranges during which	Step 3 of 5 en it has to be performed or not. Graphs can only be plo n the monitor has not to be performed (example between	tted for checks where the frequency is less than 5 minut 12:00am and 6:00am)	25.
	Assign a frequency to the monitor (PINC) How often do you want to perform this monitor? ev When the monitor failed how often do you want to error it hefper considerion in as down?	ery 3 minutes	
	STEP 4 BACK		
© Copyright 2003-2012 - ServersCheck. All rights r	eserved. Limited freeware version. Need to monitor more or want	commercial support? Purchase a license from here.	START MONITORING



We are testing against Google.com so we enter <u>www.google.com</u> as the server to test for the PING check. We have defined in above screen the threshold limit to be 5000ms. If a PING check takes more than 5000ms then it is considered as being DOWN.

ServersCheck Monitoring Software - STANDARD Edition - version 9.0.3 - Mozilla Firefox			
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ServersCheck Monitoring Software - STA +			
TOP 10 MAP VIEW ALL MONITORS VIEW DEVICE VIEW GROUP VIEW COMPACT VIEW	CAMERA VIEW		
DASHBOARD VIEWS ALERTS REPORTING CONFIGU	JRATION SUPPORT X		
SERVERSCHECK			
Add New Monitor Wizard – Step 5 of 5 – Assign alerts to t	he monitor: PING		
. ,			
Alerting conditions	Monitor specific alert op	tions	
performed.	Send an email to		i
	Send a SMS Message to		i
Alert when: On each status change i	Send a MSN Mercade to		
and only if check returned a value: no 💌 i	Send a Mort Message to		
	Call following number		i
Team alert options	Send a Network Message to		i
Alert following team:			
	Perform Sound Alert (3 beeps		i
	Perform a HTTP GET to		i
	Execute an application	Application Path:	i
		Parameters:	
SAVE SETTINGS			
© Copyright 2003-2012 - ServersCheck. All rights reserved. Limited freeware version. Need to monitor more	or want commercial support? Purcha	ase a license from here.	START MONITORING
	_		

In the last screen you define how you want to be alerted and when. Fill in your email address or cell phone number. In above settings, the software will alert whenever the status changes.

Click on SAVE SETTINGS when done

Your internet monitoring check has been created.

For additional information please check our online wiki at http://wiki.serverscheck.com