ServersCheck

Quick Installation Guide –Security Sensors

This document is intended to help you configure ServersCheck Security Sensors.

1. Getting Started

The security sensors are connected to the Physical Security Bus. Up to 6 sensors can be connected to one single Physical Security Bus: 4 on the left side of the bus and 2 on the right side (first two from top of device).

The Physical Security Bus from ServersCheck has 3 openings :

- RJ45 connector
- Plug for power adapter
- Plug for second power adapter (not in use)

All sensors are powered the Physical Security Bus. The sensors do not require an external power adapter to be connected to the sensor.

A ServersCheck Security solution requires following components:

- Security Sensor
- Physical Security Bus
- RJ45 to DB9 cable

If you selected an Ethernet enabled security sensor, then you will also need following items:

- DS202 device server
- Power adapter for the DS202 device server
- RJ45 network cable from device server to switch/hub (not sold by ServersCheck)

Please check section 2 of this document for configuration of the device server.

If you selected an USB enabled security sensor, then you will also need following items:

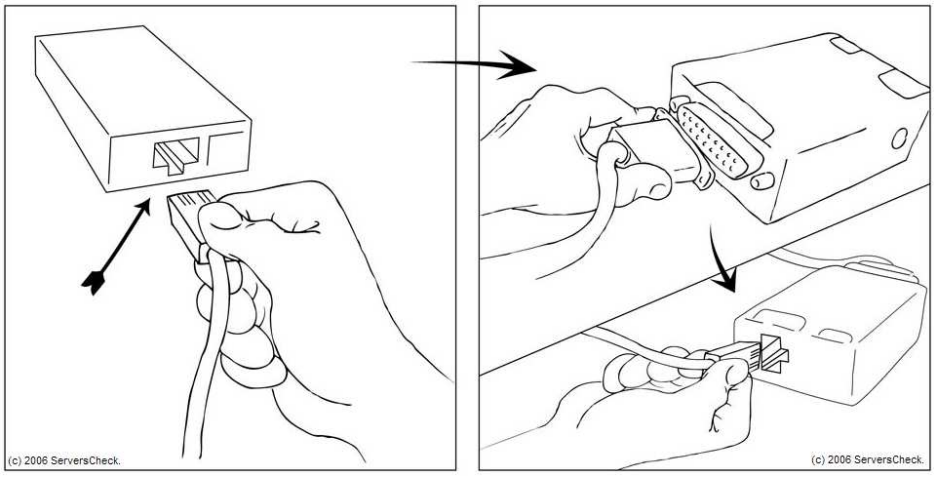
- DB9 to USB adapter

For serial enabled security sensors, no additional components are required.

2. Configuring the networked enabled security sensors

This section of the manual is for users configuring an Ethernet enabled security sensor. If you have a serial or USB based, one then please continue reading from section 3 of this manual.

First connect the RJ45-DB9 cable to the Physical Security Bus by plugging the RJ45 end of the cable in to the sensor. Then fix the DB9 end of the cable to the male DB9 end of the DS202 device server as shown in following figure. Then attach the network cable and power plug into the DS202 device server.



2.1. Configuring the TIBBO DS202 Device Server

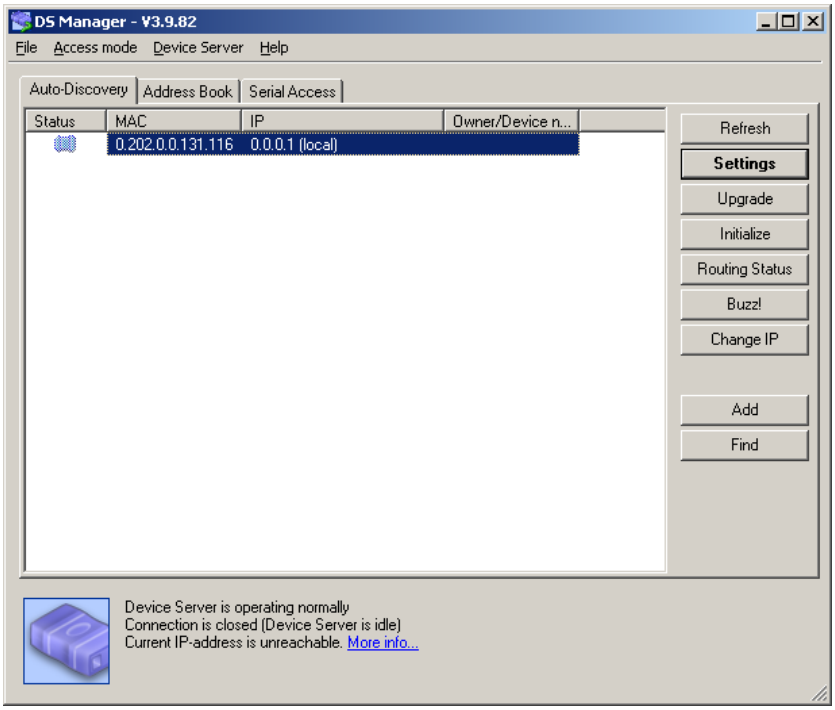
You need to download the software from following url:
http://files.serverscheck.net/utilities/TDST_3-9-82.exe

Install the software.

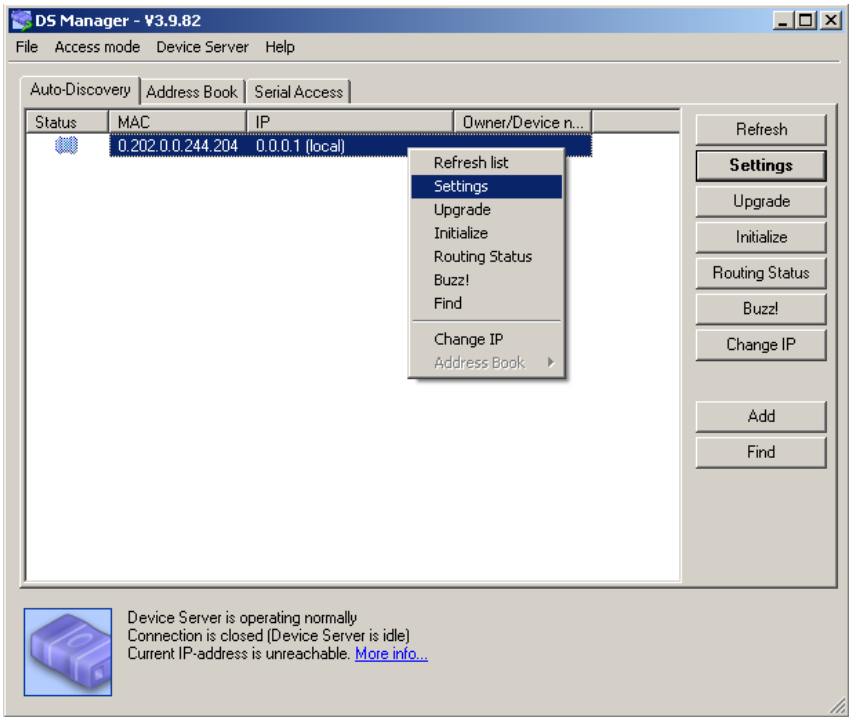
Now take the device server. Plug in the network cable and then power it using the adapter shipped with the device. Make sure that both the device server and the host computer are in the same network segment.

Go to **Start > All Programs > Tibbo > DS Manager**

This will start the DS Manager software. It will immediately scan your network for any device servers that it can find and list them as shown below:

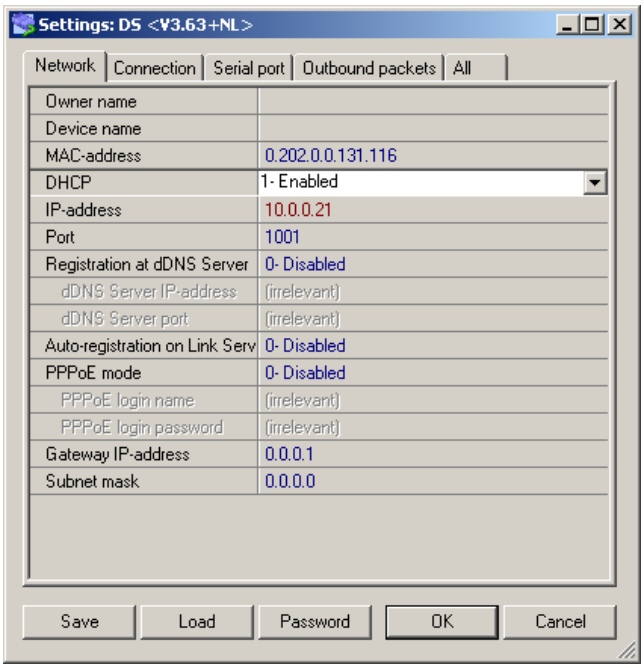


Right click on the device you just found and click on **Settings** or use the **Settings** button in the menu on your right.

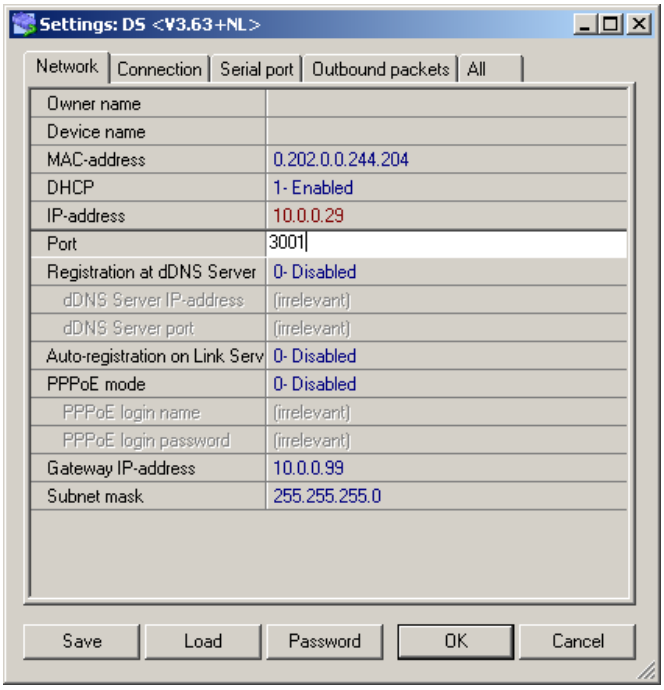


This action will open a new window where you can configure the network settings. Default operation mode is fixed IP. You can also select to use DHCP as shown below. When you change the value then this will be directly applied to the device server. You can get a message after that

it could not detect any devices. Simply click on the **Refresh** button on your right in the above screen.

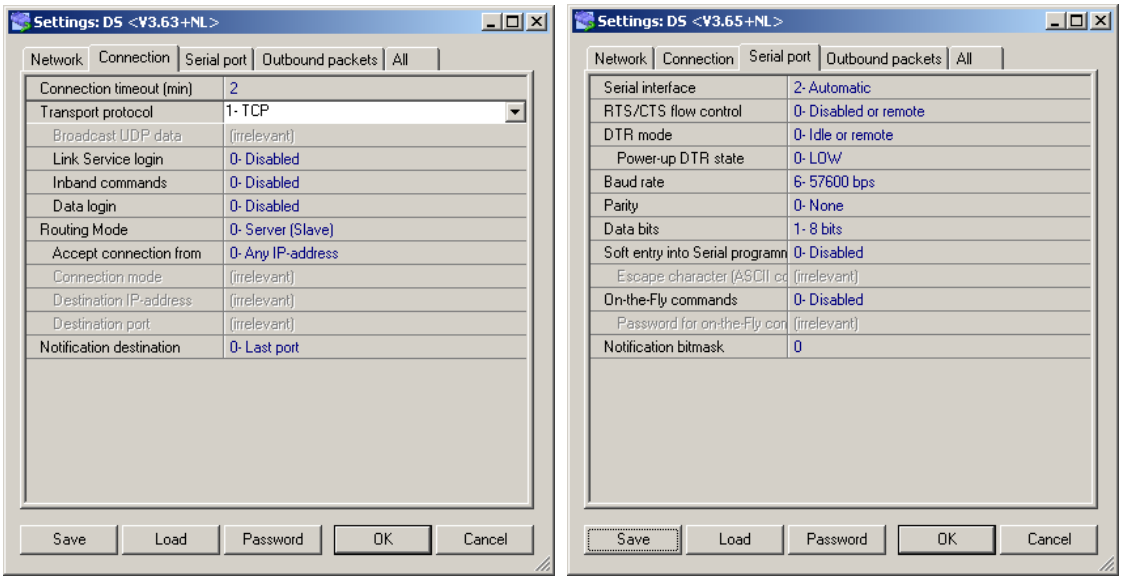


Click on **Port** and set then value to **3001** , then click on **OK**



Now click on the **Connection** tab after having set your network settings

Set the transport protocol to **TCP** and the **Connection timeout (min)** to **2**
Click on the **Serial Port** tab and change values as follows:



RTS/CTS flow control has to be **0-Disabled**
DTR mode has to be **0-Idle or remote**
Power-up DTR state has to be set to **0-Low**
Baude rate has to be set to **6-57600 bps (!)**
Parity has to be set to **0-None**
Data bits has to be set to **1-8bits**
Soft entry into Serial Program has to be set to **0-Disabled**
On-the-Fly commands has to be set to **0-Disabled**

Click on **OK** to save the settings.

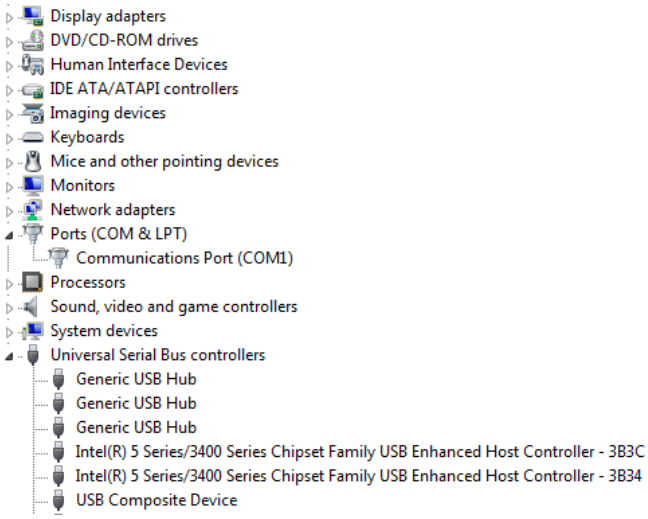
Your device server is now ready for use.

Continue reading from section 4 of this manual.

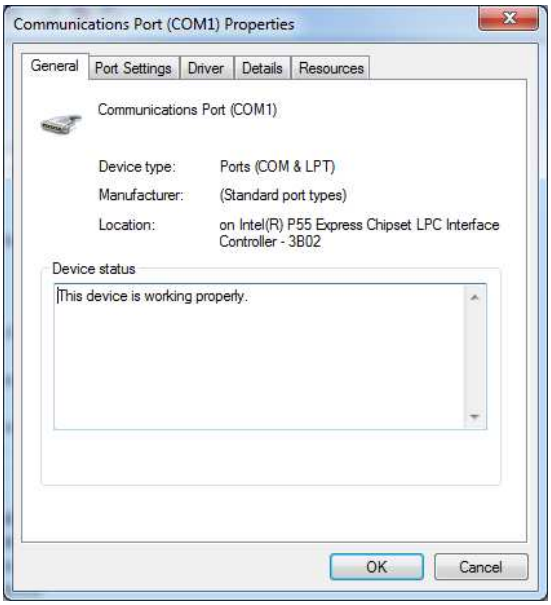
3. Configuring a serial connected Security Bus

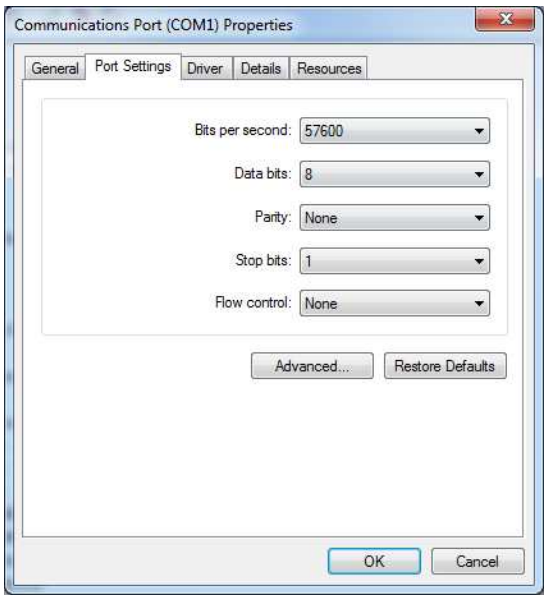
For serial or USB based security bus operations, connections are done through the COM port of the device through which the Security Bus is attached to. Its power comes from the serial port. The sensors attached to the Security Bus are powered by the external power adapter plugged directly into the Security Bus.

The COM port must be configured to run on 57600bps. The COM port can be found through the Windows Device Manager.



Double click on the COM port. In above example this is COM1
Select then the **Port Settings** tab and set the the **Bits per second** to **57600**. Click on OK and your COM port is now ready for the Security Bus.





4. Connecting a sensor to the Physical Security Bus

All ServersCheck Security Sensors come with a cable connector to connect the sensor to the 40ft/12m white cable.

IMPORTANT: the 2 last connectors on the right side of the Security Bus are not in use. Do not connect a sensor to it.

The sensor should be connected to the white connector of the cable as shown in the picture below. The black connector is plugged into the Physical Security Bus

The motion detector will start working by showing a red flashing light on it is connected to the Physical Security Bus and once the Power Adapter has been connected to the Security Bus.

5. Configuring the ServersCheck Monitoring Software for security sensor communication

We have now a device server that is configured and to which a sensor is connected.

We are now going to configure a temperature check in the ServersCheck Monitoring Software.

The ServersCheck Monitoring Software is required to monitor, report and alert on sensor readings.

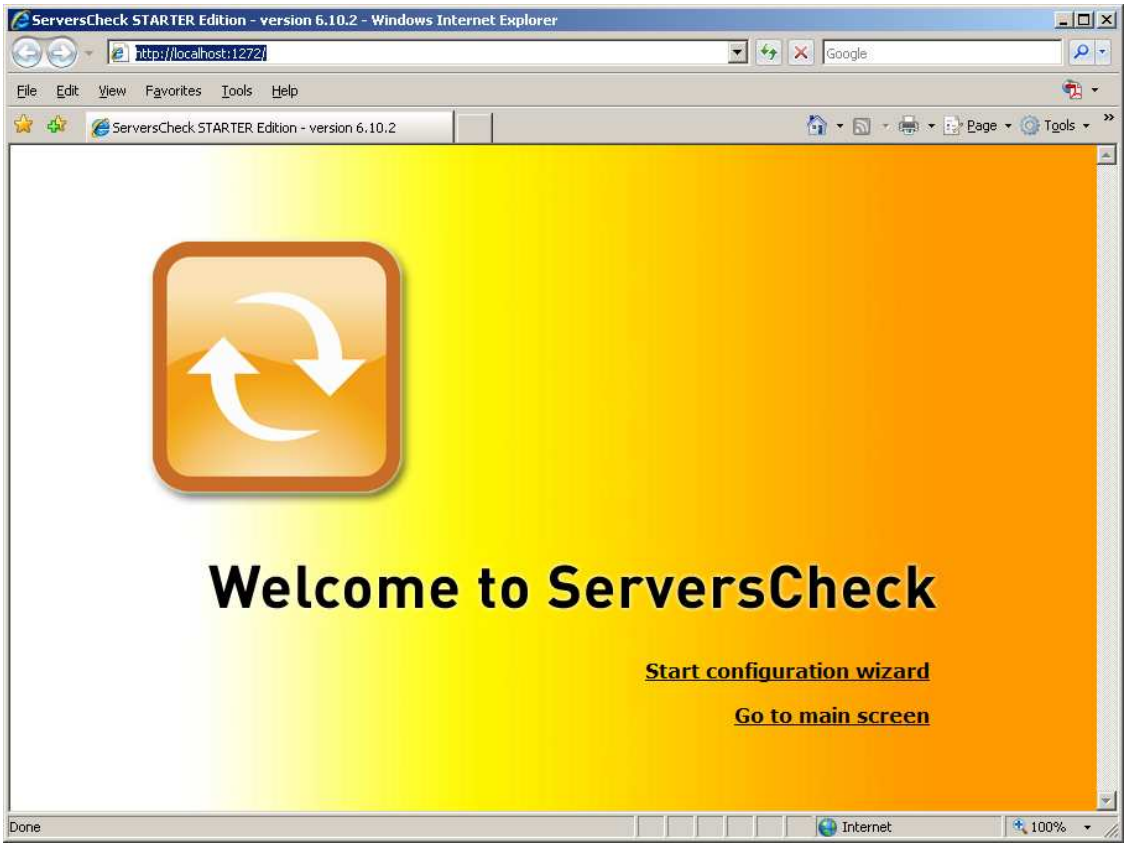
The base version can be downloaded from following URL :
http://www.serverscheck.com/download.asp

Apply the purchased license keys (Sensor, Starter or Enterprise edition) as outlined in the email you received with the keys.

The monitoring of the sensors require the .NET 1.1 framework to be installed on the computer running the ServersCheck Monitoring Software. If you do not have .NET 1.1 installed but .NET 2.0 then you might receive following error message:
Object synchronization method was called from an unsynchronized block of code

You can download the .NET Framework Version 1.1 from following url:
http://www.microsoft.com/downloads/details.aspx?familyid=262D25E3-F589-4842-8157-034D1E7CF3A3&displaylang=en

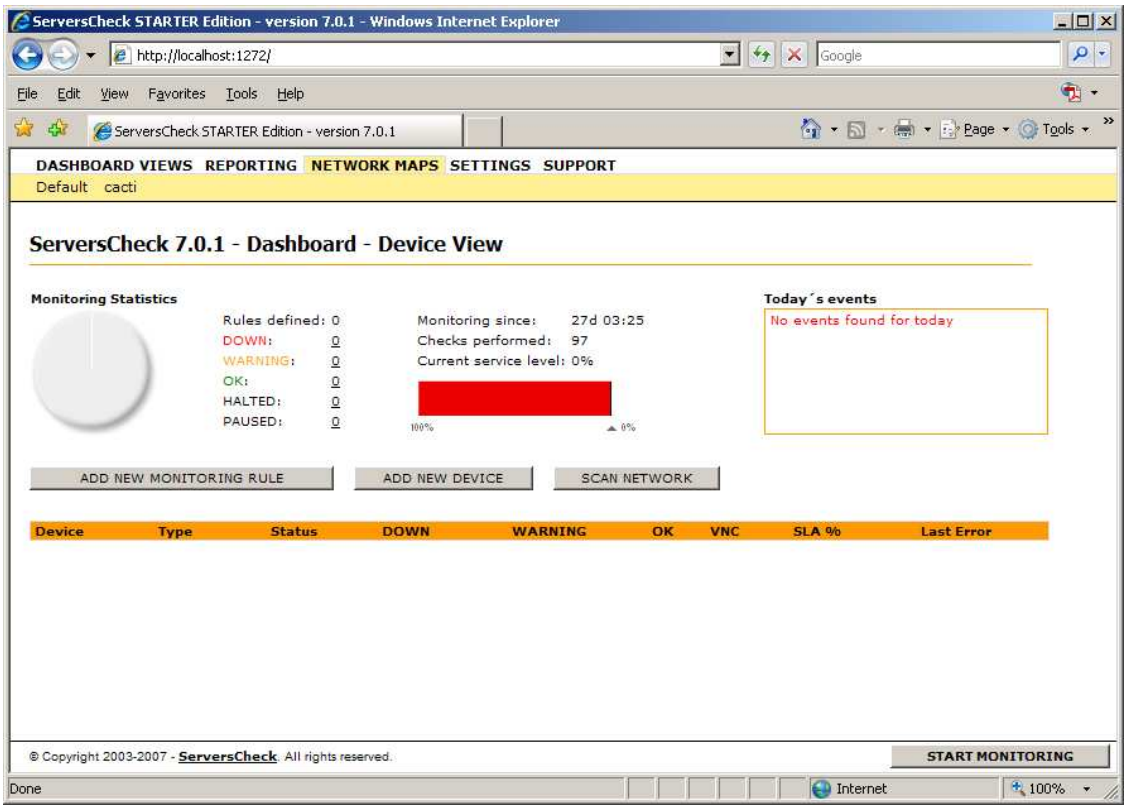
After installing the software, open your browser and point it to http://localhost:1272.



Click on the **"Start Configuration Wizard"** to set the initial settings

This wizard will configure the security settings, the service settings, email server for sending out email alerts and more.

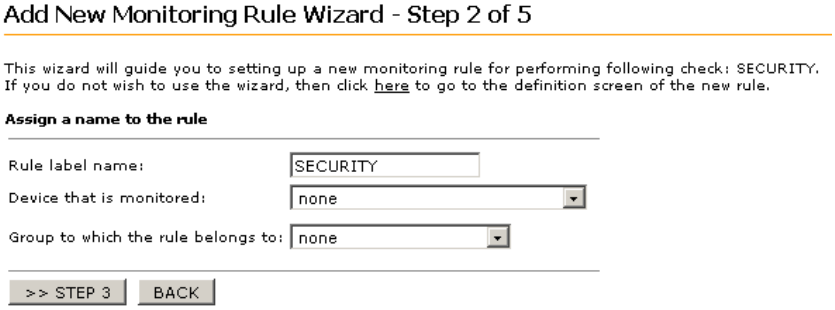
After having completed all steps of the configuration wizard click on "**Dashboard View > All Rule View**"



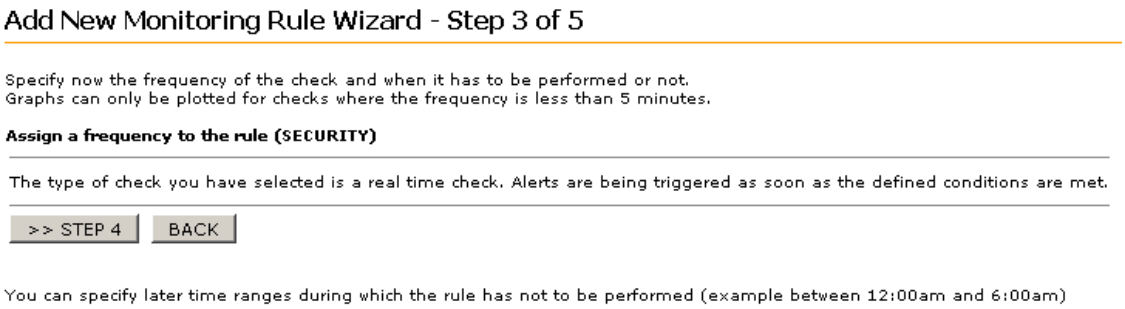
Click on the "**Add New Monitoring Rule**" button

A new screen will open like the one below

Click on the **Next Step** button



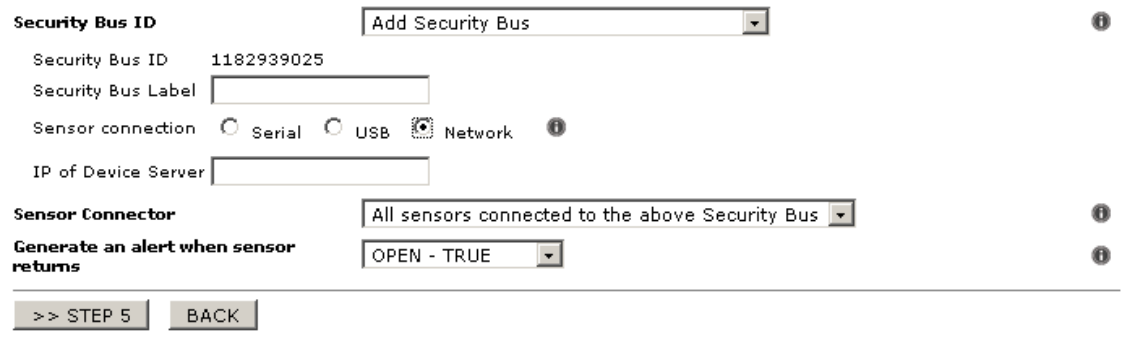
Click on the **>> STEP 3** button



Unlike the environmental sensors, the security sensors are real-time sensors. Events triggered are intercepted by the software using its security listener.

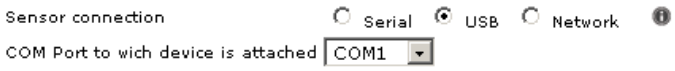
You can have multiple rules for one Security Bus allowing you to receive different alert notifications depending on the sensor that has been triggered. You can also define one rule applying to all sensors attached to the Security Bus.

First you need to add a new Security Bus. From the drop-down list select the option **Add Security Bus** . New fields like the ones shown below will appear.

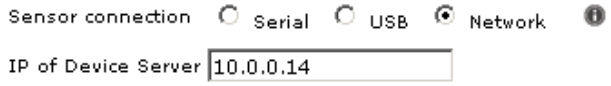


If you purchased the Serial enabled security sensors, then select the **Serial** sensor connection option. A drop down list of com ports will appear. Select the correct COM port to which the Physical Security Bus is attached.

Select the **USB** option for USB enabled security sensors. From the drop down box select the USB COM port that the DB9 to USB adapter created.

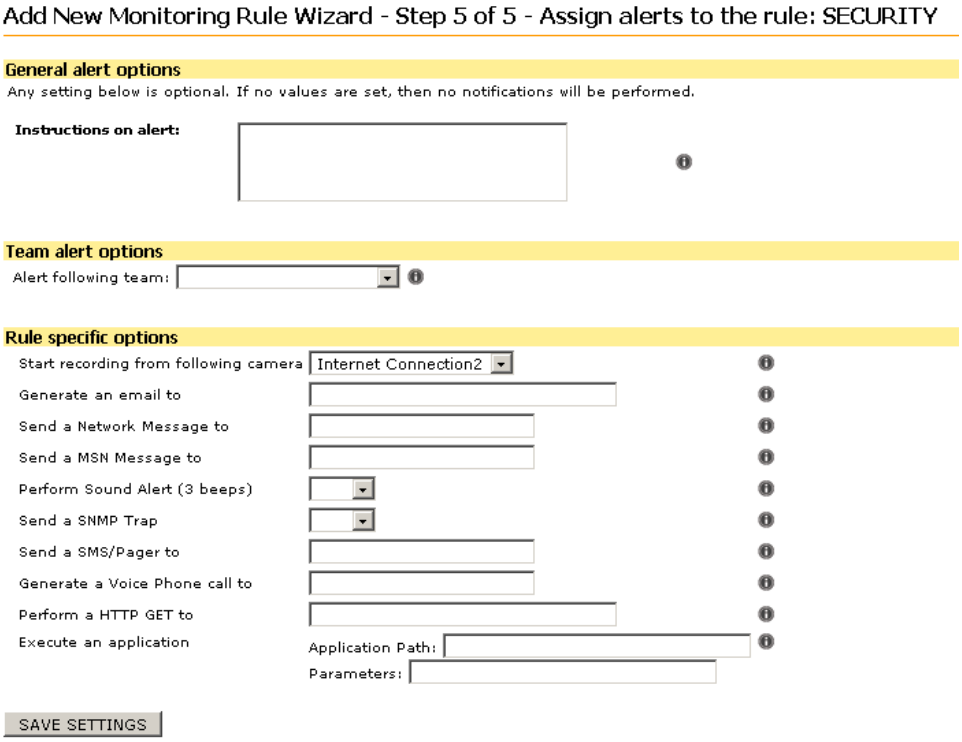


You need to select **Network** for network (Ethernet) enabled security sensors. In the field below the option enter the IP address of device server as configured in section 2 of this document.



The **TEST SETTINGS** option is not available for security sensors as the events are triggered in near real-time and are not polling based like for environmental sensors.

Click now on the **STEP 5** button to define how you would like to be alerted.



A new alerting option is available for the security sensors: camera recording. When you have an AXIS network camera in the computer room you are monitoring, then the ServersCheck Monitoring Software can start the recording of the camera and make it available through its flash viewer for further analysis. See next section on adding camera's and managing recordings.

Click on **SAVE SETTINGS**

In the main screen you will see that the rules have been added to your list of rules: