
Installing a Sentinel SuperProNet Network Key

Audience

The intended audience is information technologists or ASAP users with administrative privileges.

Overview

This technical publication describes how to install the Advanced Systems Analysis Program (ASAP[®]) from Breault Research Organization (BRO) on either a Local Area Network (LAN) or Wide Area Network (WAN). The information applies to installations of ASAP within a client/server architecture (either on LAN or WAN) for which the Sentinel System Driver did not allow ASAP to execute properly. Key issues addressed:

- A. Installing the Sentinel Network Driver
- B. Required Windows[®] Registry Settings
- C. Troubleshooting
- D. Transaction Log File

ASAP provides network licensing capabilities following client/server architecture through the use of a network key driver – the Sentinel[™] Combo Driver from SafeNet. Such architecture typically indicates that there are two (or more) machines involved – one being the server, the other(s) being the client(s).

The ASAP installation loads the Sentinel Combo Driver automatically.

Configuration

Configuration of either the server or client machine is typically accomplished by a user who has at least local administrator privileges to install ASAP according to instructions provided with the software.

To complete the *server* configuration the user must also install the Sentinel SuperPro[™] or SuperProNet[™] hardware key (dongle) on the server machine.

No further action is required after *client* machine configuration.

A. Installing Sentinel Network Key Driver – Server Only

This section applies to the *server* machine.

A.1 Versions of Windows operating systems prior to Windows XP Pro with Service Pack 2 without firewall, SuperProNet

A.1.1 Parallel Port

1. If a complete installation of ASAP was performed on the network key server, skip to Step 7 of A.1.1.
2. Using a logon with local administrator privileges, logon to the machine designated as the network key server.
3. Load the Breault CD.
4. Select **Explore CD** to open Windows Explorer.
5. Open the **Install > SafeNet** directory.
6. Run the file, SPNComboInst1.0.2.exe.
7. To confirm that the driver is running, open Windows Task Manager and verify that spnsrvnt.exe is present on the Processes tab.
8. Attach the Sentinel SuperProNet parallel port key to the network key server.

A.1.2 USB Port

1. If a complete installation of ASAP was performed on the network key server, skip to Step 8 of A.1.2.
2. Using a logon with local administrator privileges, logon to the machine designated as the network key server.
3. Disconnect the Sentinel SuperProNet USB key from the USB port if it is connected.
4. Load the Breault CD.
5. Select **Explore CD** to open Windows Explorer.
6. Open the **Install > SafeNet** directory.
7. Run the file, SPNComboInst1.0.2.exe.
8. Attach the Sentinel SuperProNet USB key to the network key server.
9. To confirm that the driver is running, open Windows Task Manager (right-click Task Tray) and verify that spnsrvnt.exe is present on the **Processes** tab. NOTE: spnsrvnt.exe is not present unless the SuperProNet USB key is attached to the USB port.

A.2 Windows version Windows XP Pro with Service Pack 2, SuperProNet

A.2.1 Parallel Port

1. Using a logon with local administrator privileges, logon to the machine designated as the network key server.
2. From the Start menu, open the Windows Control Panel and select Windows Firewall (Start> Settings> Control Panel> Windows Firewall).
3. On the **General** tab, if the option **Off** is selected, skip to Step 9 of A.2.1.
4. On the **General** tab, verify that **Don't allow exceptions** is not checked.
5. On the **Exceptions** tab, click **Add Port**.
6. On the **Add Port** panel, enter a meaningful name in the Name file (for example, Sentinel Network Key).
7. On the **Add a Port** dialog, enter 6001 in the **Port number** field.
8. Click **OK** to set the exception.
9. If a complete installation of ASAP was performed on the network key server, skip to Step 14 of A.2.1.
10. Load the Breault CD.
11. Select **Explore CD** to open Windows Explorer
12. Open the **Install > SafeNet** directory
13. Run the file, SPNComboInst1.0.2.exe.
14. To confirm that the driver is running, open Windows Task Manager and verify that spnsrvnt.exe is present on the **Processes** tab. If spnsrvnt.exe is not present, please see section C, Troubleshooting.
15. Attach the Sentinel SuperProNet parallel port key to the network key server.

A.3 Windows version Windows XP Pro with Service Pack 2, SuperProNet

A.3.1 USB

1. Using a logon with local administrator privileges, logon to the machine designated as the network key server.
2. If connected, disconnect the Sentinel SuperProNet USB key from the USB port.
3. Open **Start> Settings> Control Panel> Windows Firewall**.
4. On the **General** tab, if the option Off is selected, skip to Step A4-10.
5. On the **General** tab, verify that the **Don't Allow Exceptions** check-box is not checked
6. On the **Exceptions** tab, click **Add Port**.
7. On the **Add Port** dialog, enter a meaningful name in the **Name file** field (for example, Sentinel Network Key).
8. On the **Add Port** dialog, enter 6001 in the **Port** field.
9. Click **OK** to set the exception.
10. If a complete installation of ASAP was performed on the network key server, skip to Step 15 of A.3.1.
11. Load the Breault CD.
12. Select **Explore CD** to open Windows Explorer
13. Open the **Install > SafeNet** directory
14. Run the file, SPNComboInst1.0.2.exe.
15. Attach the Sentinel SuperProNet USB key to the network key server.
16. To confirm that the driver is running, open the Windows Task Manager (right-click in the Task Tray) and verify that spnsrvnt.exe is present on the **Processes** tab. NOTE: spnsrvnt.exe is not present unless the SuperProNet USB key is attached to the USB port. If spnsrvnt.exe is not present in Windows Task Manager, **with the key attached**, please see the Section C, Troubleshooting.

B. Required Windows Registry Settings – Client Only

This section applies to the *client* machine.

You may need to modify the registry of the machine by creating a new registry entry. There are two methods for doing this. Breault recommends using the first method, “Automatically modifying the registry automatically”, to reduce the possibility of errors.

B.1 Automatically modifying the registry

The following text can be run from Windows Explorer to make the registry modifications automatically to either the **Current User** or the **Local Machine**. BRO recommends running it on the machine with the dongle, but this is not required. Both the **Keys2** and **HostServer** items are included.

B.1.1 Copy the REGEDIT4 text, shown below, into an empty text file.

The fields shown below are for example purposes. You will need to substitute real values for the keys and for the Host Server IP address. If you do not know the IP address of the machine, open a Command Prompt window and enter **IPconfig /all**.

```
REGEDIT4
```

```
[HKEY_CURRENT_USER\Software\Breault Research Organization\ASAP\Kernel]
"Keys2"="00000 11111111 11111111 11111111 11111111"
"HostServer"="IP Address of machine with dongle"
```

```
[HKEY_LOCAL_MACHINE\Software\Breault Research Organization\ASAP\Kernel]
"Keys2"="00000 11111111 22222222 33333333 44444444"
"HostServer"="IP Address of machine with dongle"
```

B.1.2 Save the text file with a valid filename.

B.1.3 Replace .txt extension of the file with *.reg.

B.1.4 Run the *.reg file.

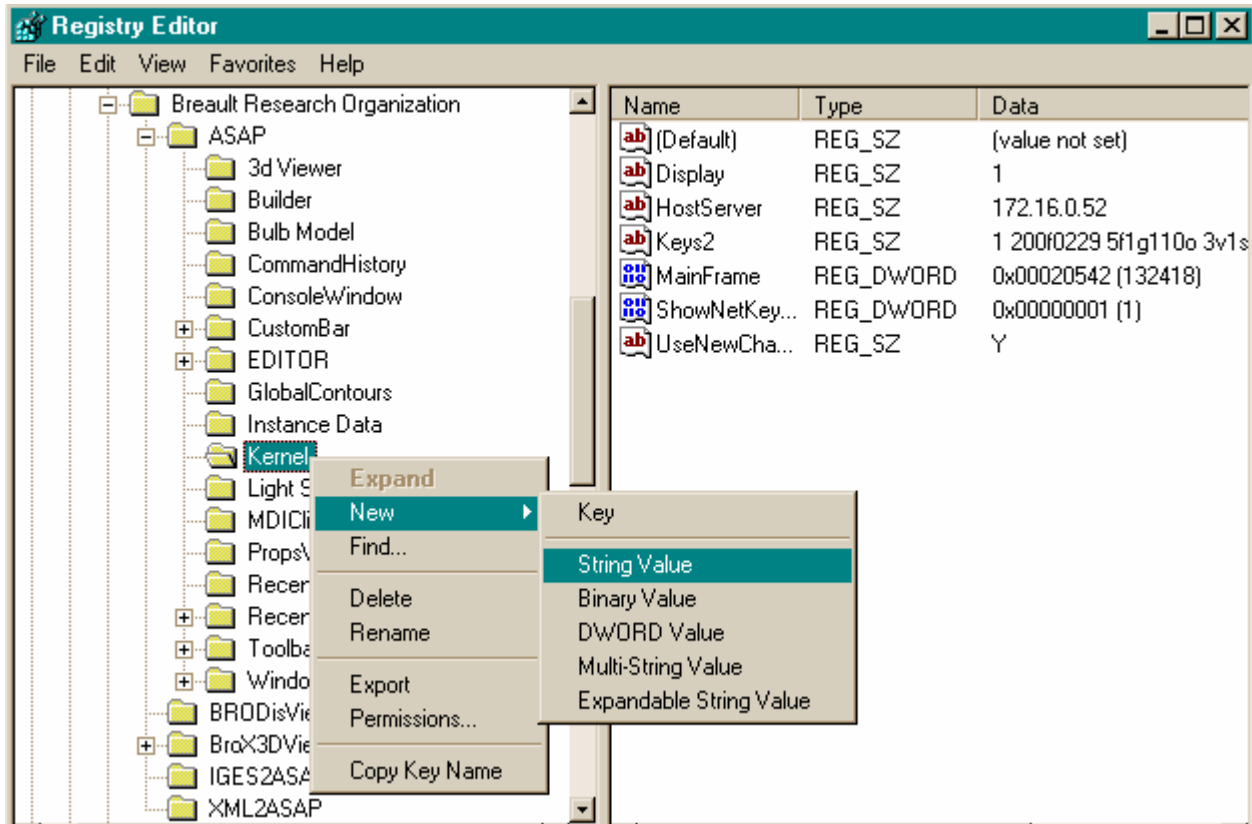
B.2 Modifying the registry manually

Caution: This method is more susceptible to errors than the method described above in Section B.1. Breault recommends that you first try the automatic method described in step B.1. Per manufacturer's recommendations, use the RegEdit tool at your own risk.

B.2.1 From **Start> Run**, enter **regedit** to open an Explorer view of the Registry Editor.

B.2.1.1 Browse to **HKEY_CURRENT_USER (or HKEY_LOCAL_MACHINE?)> SOFTWARE>Breault Research Organization> ASAP> Kernel**

B.2.1.2 Right-click the right Explorer panel, and select **New> String Value**.

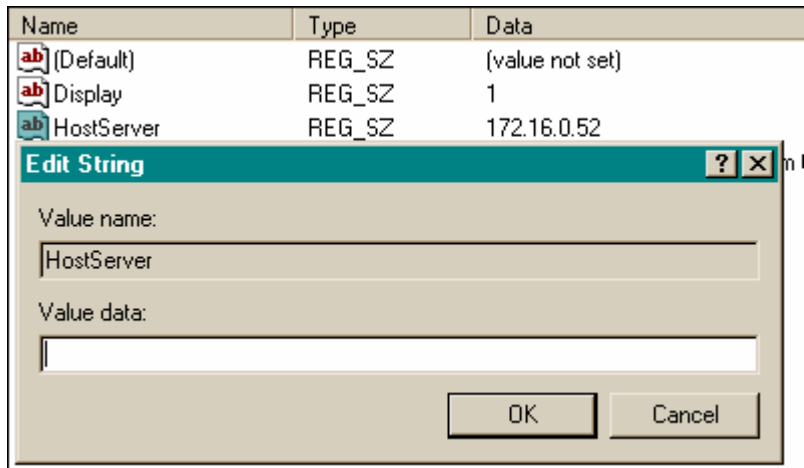


B.2.1.2 After you select **New> String Value**, **New Value #1** is added to the list in the right panel.

Name	Type	Data
(Default)	REG_SZ	(value not set)
Display	REG_SZ	1
HostServer	REG_SZ	172.16.0.52
Keys2	REG_SZ	1 200f0229 5f1g110o 3v1s5g3m 6e0y5m2v
MainFrame	REG_DWORD	0x00020542 (132418)
ShowNetKeyDlg	REG_DWORD	0x00000001 (1)
UseNewChartViewer	REG_SZ	Y
New Value #1	REG_SZ	

B.2.1.3 Change the file name from **New Value #1** to **HostServer**.

B.2.1.4 Right-click HostServer and select **Modify** from the menu. This opens the **Edit String** dialog box.



B.2.1.5 In the **Value data** field, enter the appropriate IP address and click **OK**.

B.2.1.6 Proceed to Section C, Troubleshooting.

C. Troubleshooting

C.1.1 Configured client cannot find network key server.

If the ASAP Client Machine is configured per Section B, Required Windows Registry Settings – Client Only, a firewall may be in place on the network key server that is blocking client access to the network key.

To remedy this situation, verify on the network key server that the process spnsvnt.exe is allowed use of port 6001 using either TCP or UDP network protocols. For Windows Firewall settings, see Section A, Installing Sentinel System Driver Combo – Server Only.

C.1.2 Process spnsvnt.exe not present in Windows Task Manager.

Depending upon Microsoft Automatic Update patch levels, some Windows XP Pro with SP2 systems may not allow spnsvnt.exe to launch after executing SPNComboInst1.0.2.exe.

To remedy this, download the latest Sentinel SuperProNet drivers from the SafeNet website. At the time of this writing the latest version is

Sentinel Protection Installer Version 7.3.0.

Once downloaded, follow the installation instructions outlined in the file ReadMe.txt provided with the download.

D. Transaction Log File

The following codes may be in the transaction log file, which is in your ASAP install folder.

Version	Version of the Sentinel SuperPro software.	Example, v6.3
Operation Code	One of the following operations that occurred:	
	1= issue license	
	2= release license	
	3=time-out	Failure of client to update
	4=key access	Example: "key not found"
	5=startup	server started
	6=shutdown	Server shutdown
Time (in ticks)	System time	Example: 1020336363
Time (as a string)	System time	Example, Tue Jan 01 00:00:01 2004
Key Index Serial	Number of the key	Hex value in cell number zero
Cell Number	Sublicense cell number	A value "0" indicates that only the main license (and not sublicense) is acquired.
Host Name	Host name of the client machine	
User Name	User name of the client machine on the network	
Client Process ID	Process identification of the client application	
License Key	Hard limit of the key	
License(s) in Use	Total number of licenses that are currently in use	
Return Code Operation	Code that is returned for an operation	