How to add UniView (Cactus) import to Nimbus

Cactus may export alarm events to a text file. However, Nimbus can not read the file directly and for this purpose there is an application named *UniView2Nimbus*. It will run as a service on the UniView / Cactus server.

Alarm events are read by UniView2Nimbus and sent to the Nimbus server using TCP/IP (even if all applications including Nimbus reside on the same server).
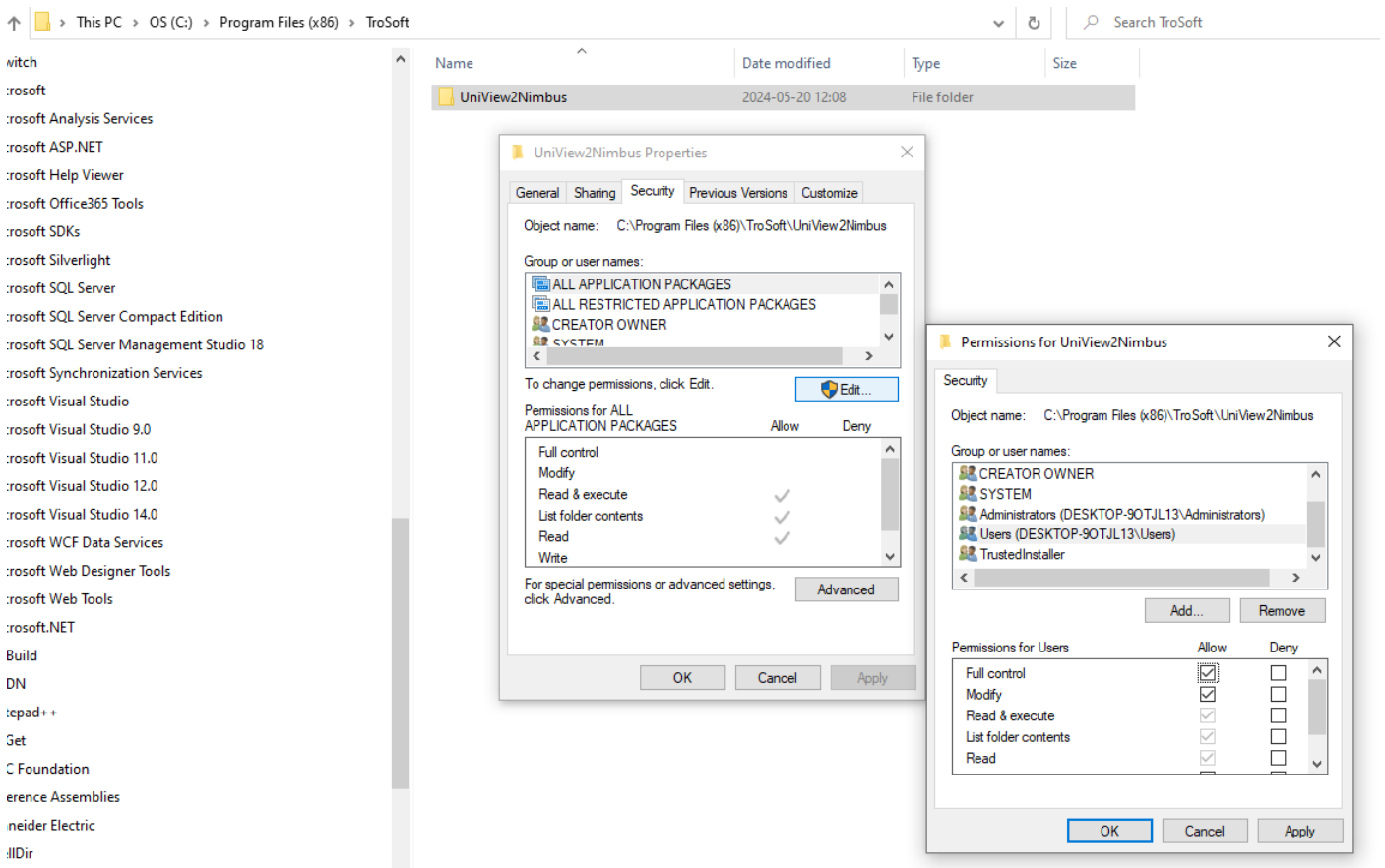
The application may be downloaded from this location:

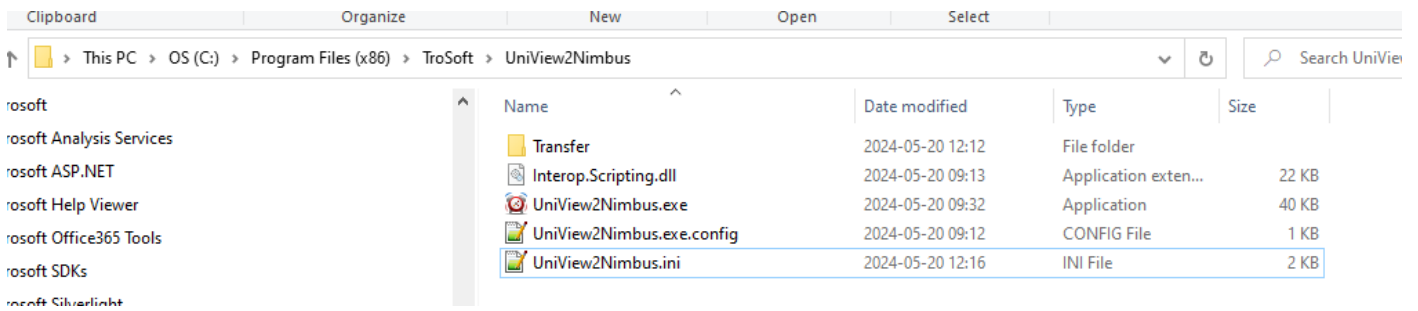*https://drive.google.com/file/d/1tHvktzKdvCrkrXr6veFewvyFvzdCriUp*

Zip-password: *nimbus*

This is not an installation pack as it is just a few files. The application is written in C# and is depending of .NET 4.8 which needs to be installed (it is usually preinstalled on windows).

Create a folder: *C:\Program Files (x86)\TroSoft\UniView2Nimbus*. Set folder *Security* for the *User* group to *Full control*, or the config file will be difficult to change and it could also be difficult for Cactus to update the alarm event file:
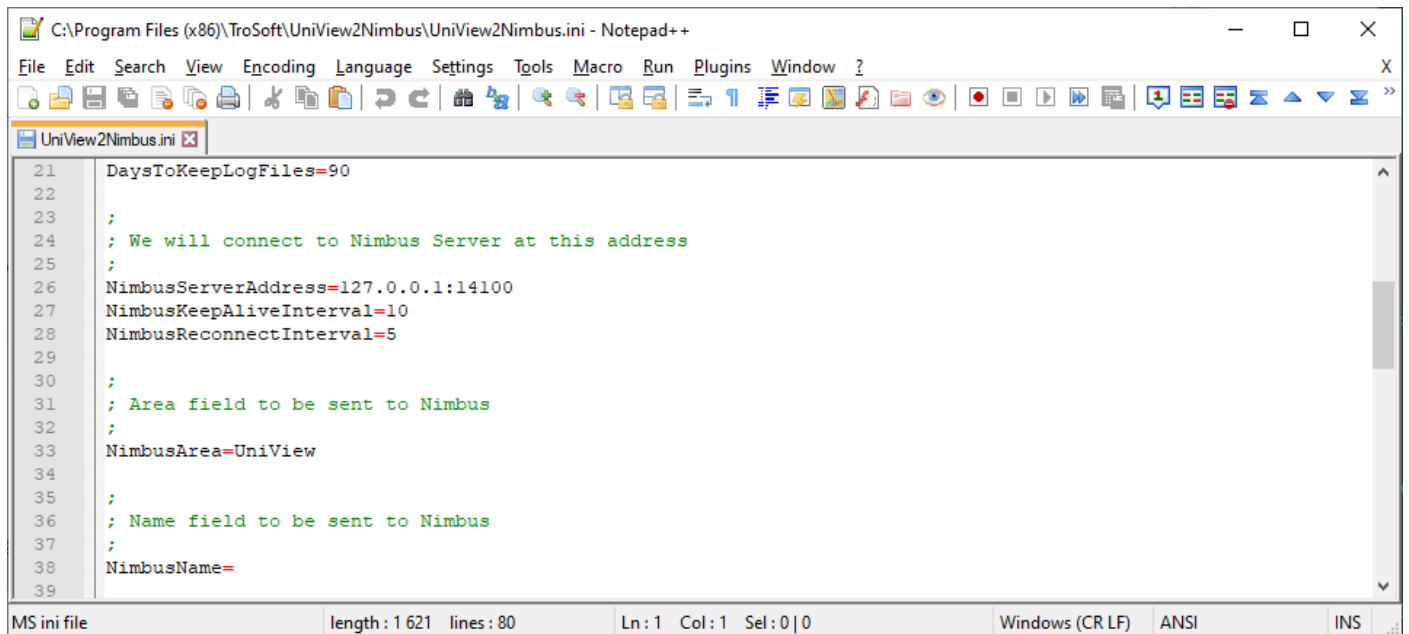

Extract the files (and the *Transfer* folder) to the newly created *UniView2Nimbus* folder.

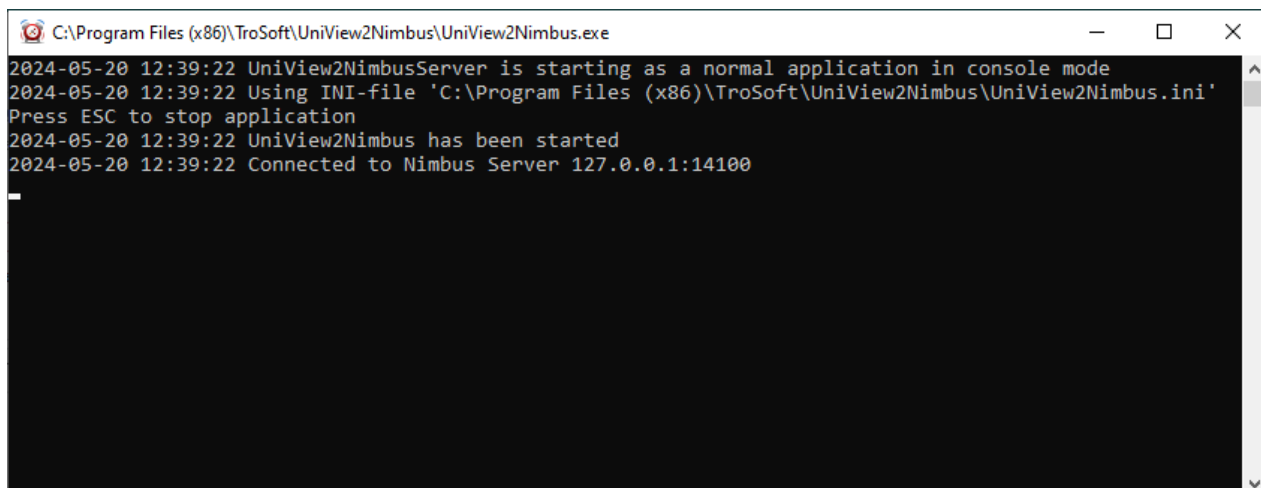When installation is complete the folder would look something like the above.

Open the *UniView2Nimbus.ini* file and set the Nimbus server's IP address using the *NimbusServerAddress* parameter.


```
 21    DaysToKeepLogFiles=90
 22
 23    ;
 24    ; We will connect to Nimbus Server at this address
 25    ;
 26    NimbusServerAddress=127.0.0.1:14100
 27    NimbusKeepAliveInterval=10
 28    NimbusReconnectInterval=5
 29
 30    ;
 31    ; Area field to be sent to Nimbus
 32    ;
 33    NimbusArea=UniView
 34
 35    ;
 36    ; Name field to be sent to Nimbus
 37    ;
 38    NimbusName=
 39
```

In this example, UniView2Nimbus and Nimbus reside on the same server, and we will use the default localhost (*127.0.0.1*) address. The address may be an IP-address or a DNS name. The port defaults to *14100* but may be changed.
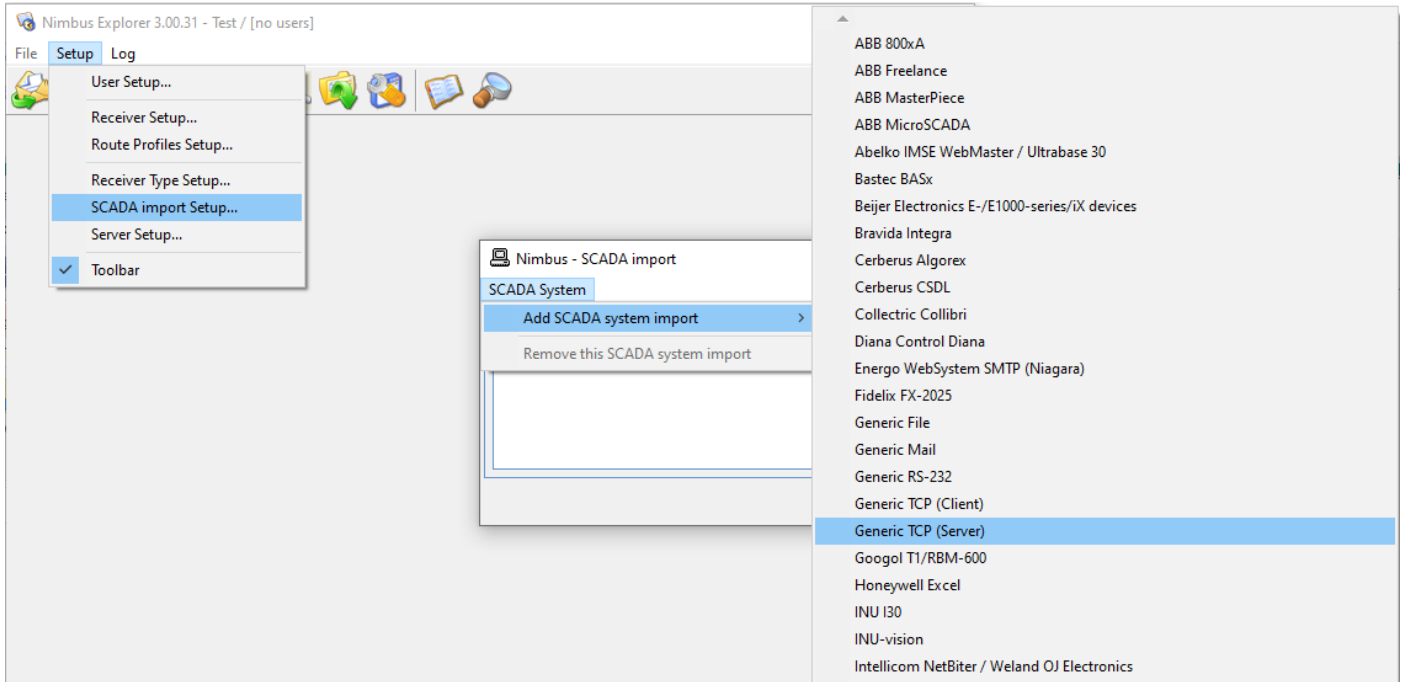
If the Nimbus server is not running locally a firewall rule must be created. The Nimbus server is a TCP socket server and UniView2Nimbus is a TCP socket client on the above port number.

Now start UniView2Nimbus by just double-clicking the *UniView2Nimbus.exe* file. The application should run as service, but before configuring it as a service it is preferred to see that everything works.
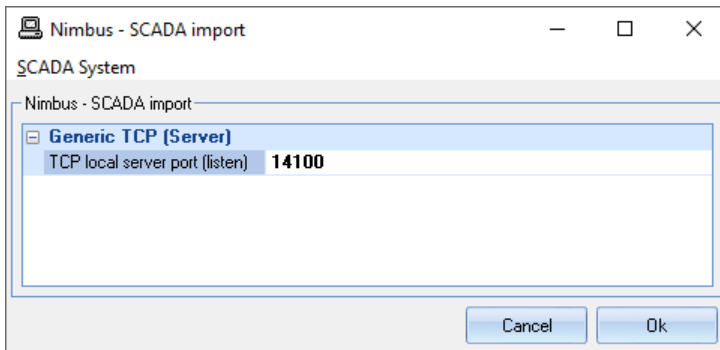


```
C:\Program Files (x86)\TroSoft\UniView2Nimbus\UniView2Nimbus.exe

2024-05-20 12:39:22 UniView2NimbusServer is starting as a normal application in console mode
2024-05-20 12:39:22 Using INI-file 'C:\Program Files (x86)\TroSoft\UniView2Nimbus\UniView2Nimbus.ini'
Press ESC to stop application
2024-05-20 12:39:22 UniView2Nimbus has been started
2024-05-20 12:39:22 Connected to Nimbus Server 127.0.0.1:14100
```

Now it's time to configure Nimbus

Start *Nimbus Explorer* (right click and *'Run as Administrator'*) from the start button menu or desktop shortcut. Actually *Nimbus Explorer* should always be run as *Administrator* by selecting this option in the shortcut.

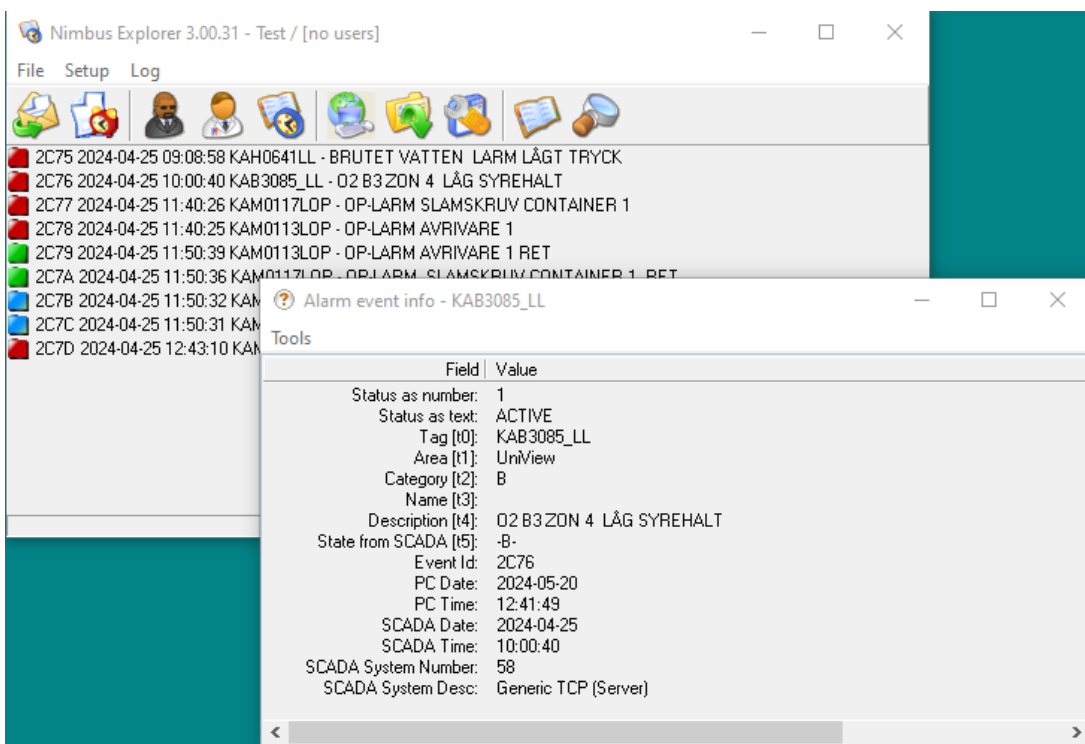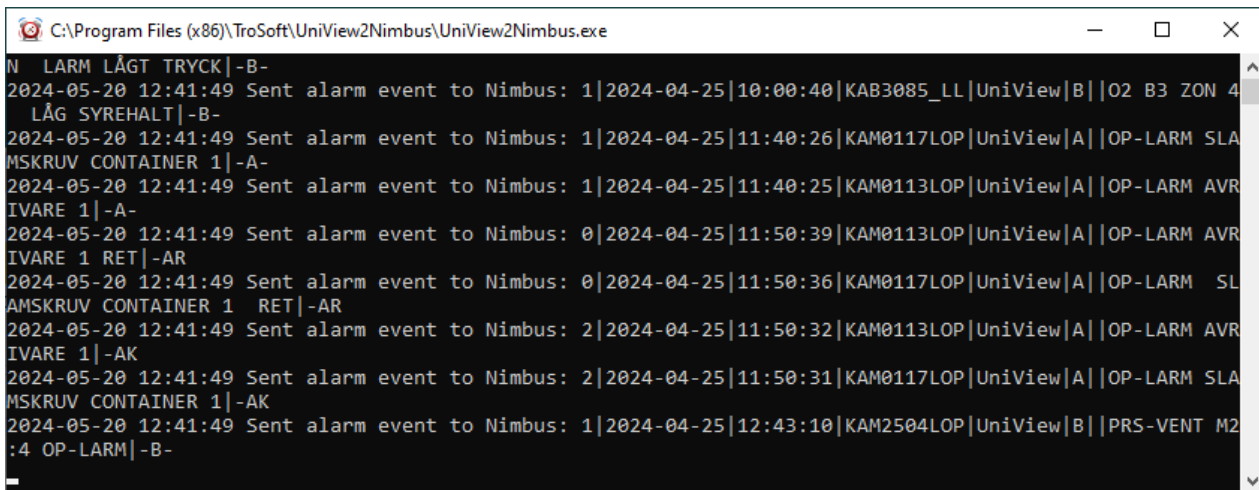Select *Setup -> SCADA import Setup,* select *Add SCADA system import* and then *Generic TCP (Server).*

Now start Nimbus Server and have a look in the UniView2Nimbus window, it will shortly connect to the Nimbus server.

Test that UniView2Nimbus is connected and can transfer alarm events to Nimbus

In the *C:\Program Files (x86)\TroSoft\UniView2Nimbus\Transfer* there is already an alarm event file sample, just make a copy of it to the same folder and rename the copy to *Alarmfile.txt*.

UniView2Nimbus will immediately change the file's name (to ensure it is closed), read the file and then remove it.

The alarm(s) should appear in both UniView2Nimbus and *Nimbus Explorer*. Doubleclick an alarm to see its properties.
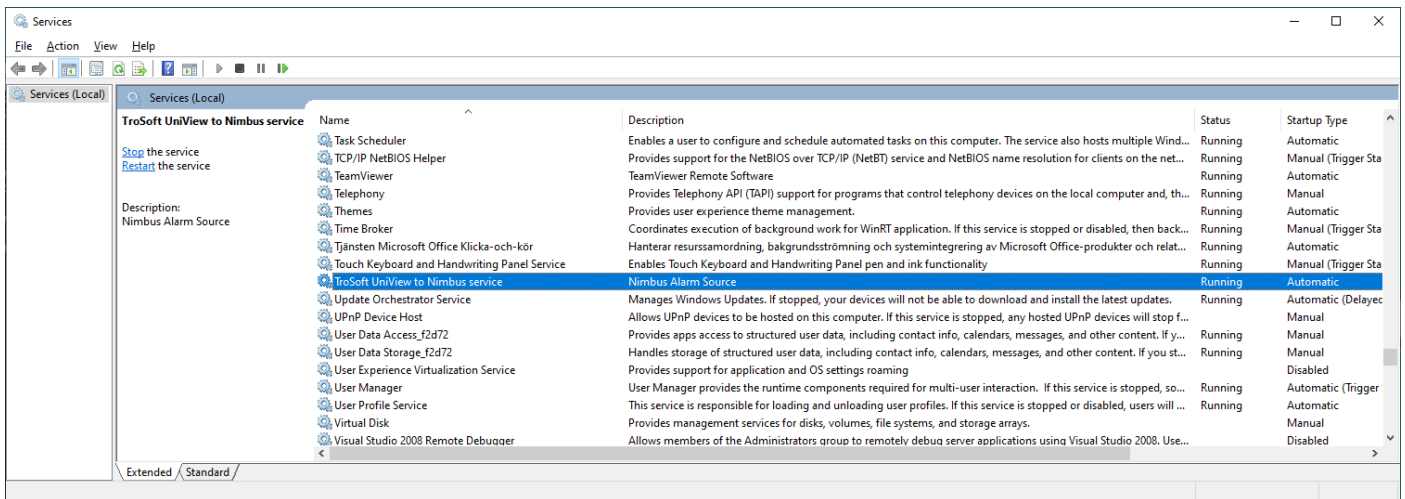
Add UniView2Nimbus as a service

Press *Esc* in the UniView2Nimbus application window and it will be closed.

Start a Admin-CMD-prompt and go to the *C:\Program Files (x86)\TroSoft\UniView2Nimbus folder*.

Run following command:

UniView2Nimbus /i

Now the application is added as a service, start it for the first time using the *Service Control Manager (SCM)*

In the future the application will start automatically when the server is restarted

If the application should be removed from services, first stop the service, then run the same command as above but use the */u* command line parameter instead:

UniView2Nimbus /u

UniView2Nimbus (Cactus) configuration

As we do not have had any Cactus to test with, we can not exactly point where to do changes in Cactus, but this is the file export form anyway:

Try to generate some alarm events and see that they are transferred to Nimbus