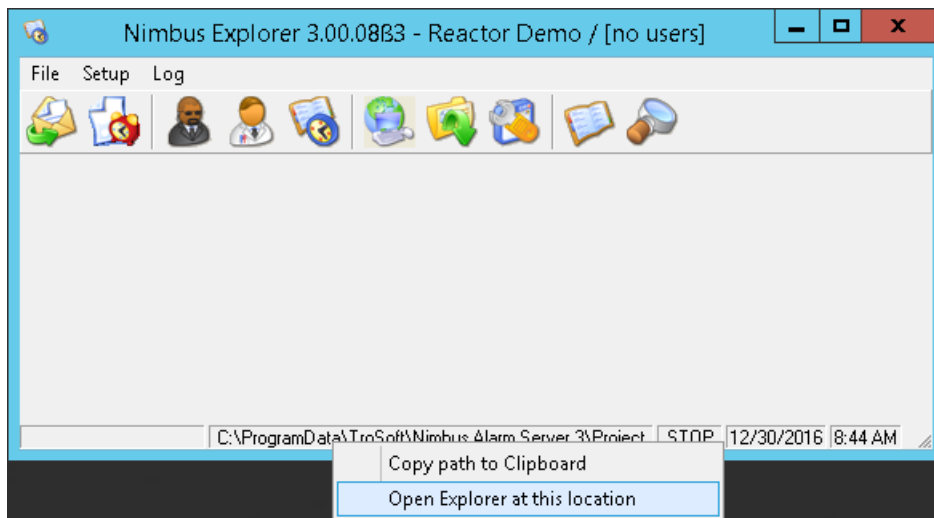# Import alarms from Schneider Electric / Invensys Wonderware System Platform to Nimbus

Nimbus will use the *Wonderware Alarm Printer* feature to retrieve alarm events from System Platform. First of all, install Nimbus and configure it properly.
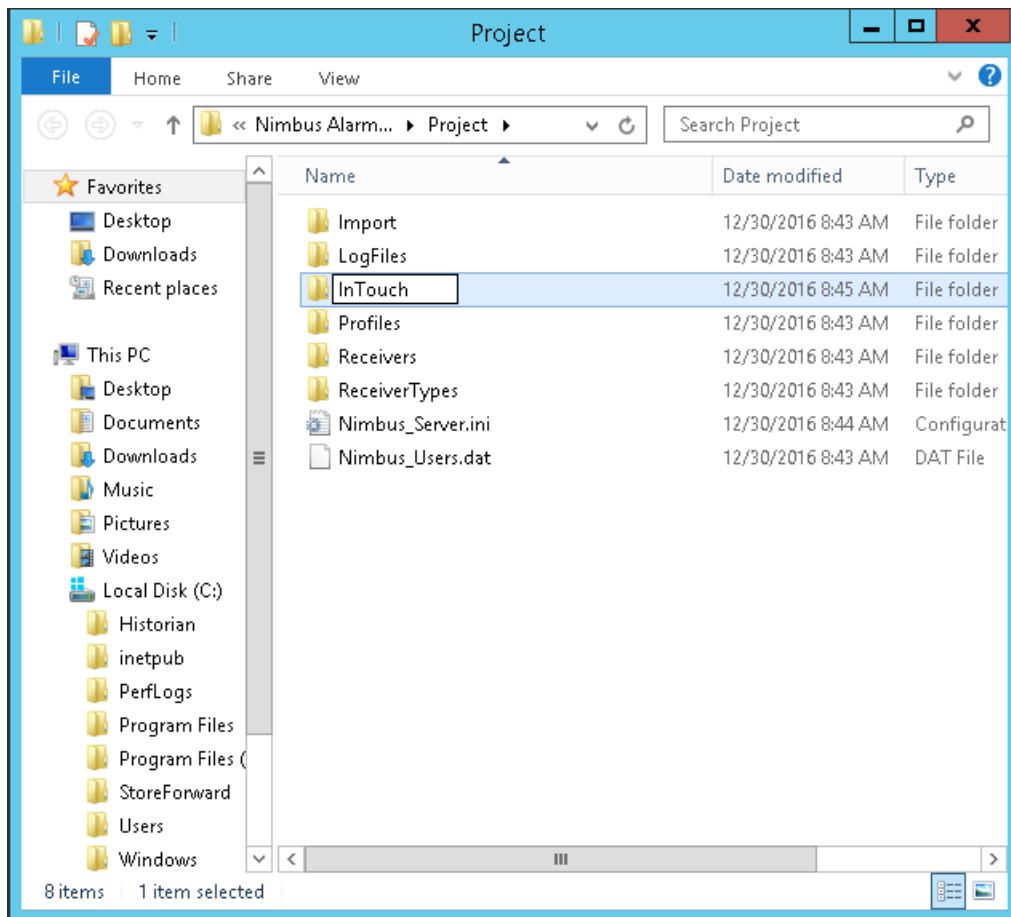
Configure Nimbus to import ALG-files

Run Nimbus Explorer (right click and select *Run as Administrator*) using its shortcut. Nimbus Explorer shall always be run as Administrator.
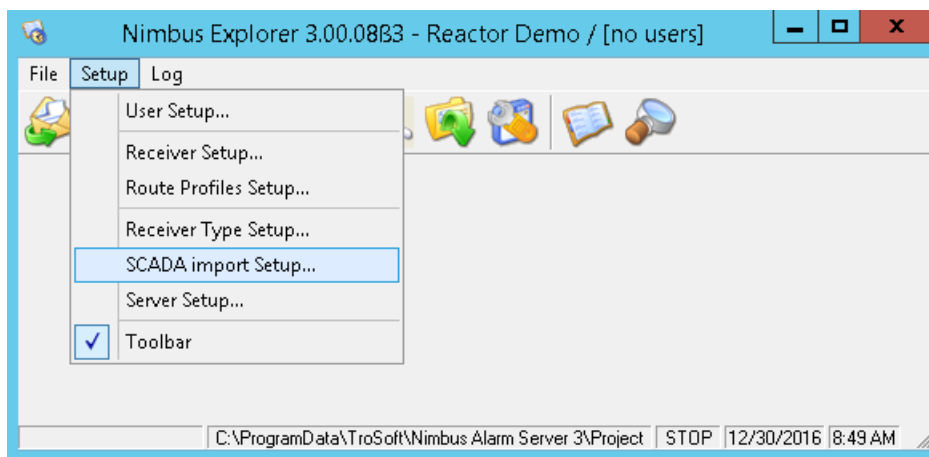

Right-click the Project-path in the statusbar and select *Open Explorer at this location*.

The path defaults to *C:\ProgramData\TroSoft\Nimbus Alarm Server 3\Project*
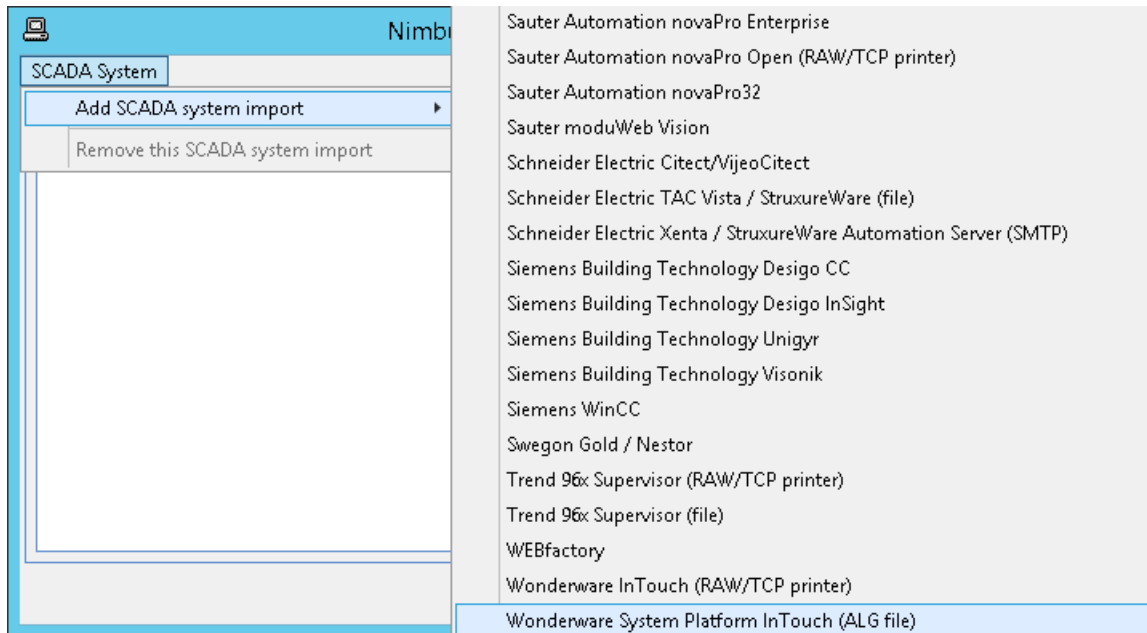
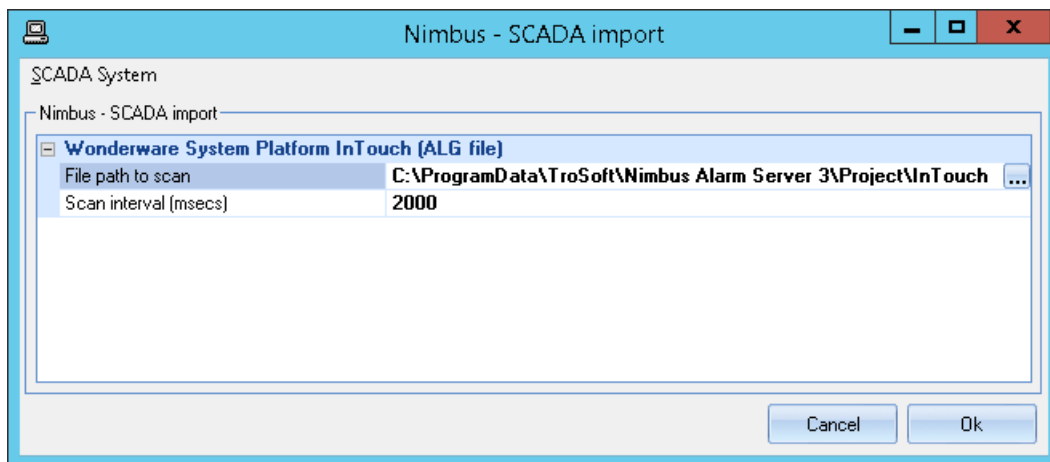Be aware of that the *ProgramData* folder is hidden if you try to find the folder in File Explorer manually.

Create a new folder inte the Project folder, name it *InTouch*

Select *Setup - SCADA import setup*

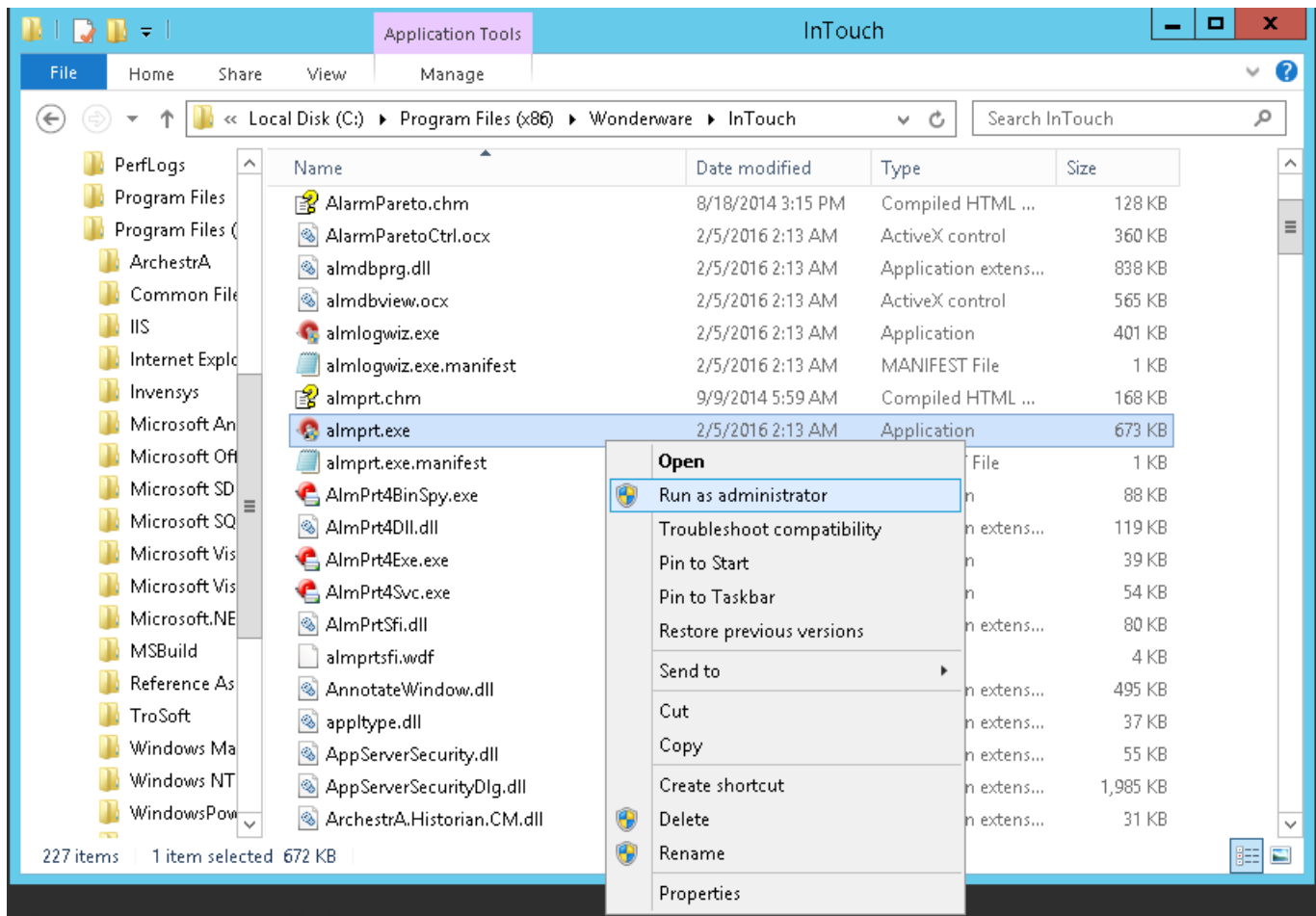Select *Wonderware System Platform InTouch (ALG file)*

Select the newly created folder *C:\ProgramData\TroSoft\Nimbus Alarm Server 3\Project\InTouch*. Ensure the path is complete, also with *InTouch* at the end. Select Ok.

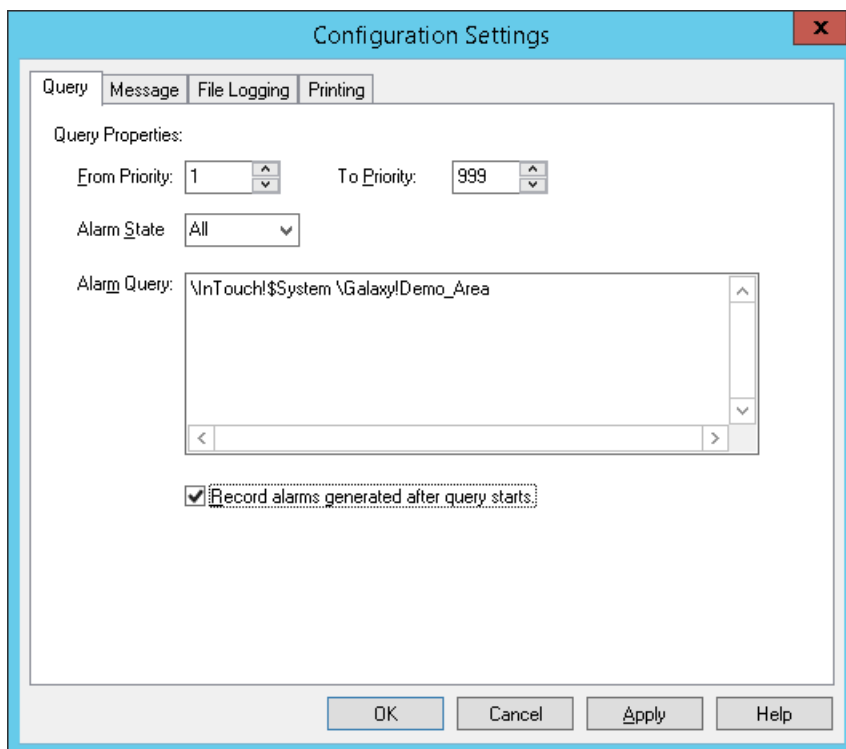Start Nimbus Server. It will now continously scan the folder for ALG-files.

Now you can setup InTouch.

Configure Wonderware InTouch to export ALG-files

The ALG-files are created by the *Alarm Printer application*, even if we not use any printer.

Open the InTouch installation folder, usually *C:\Program Files (x86)\Wonderware\InTouch*. Find the *Alarm Printer application*, run it as administrator.
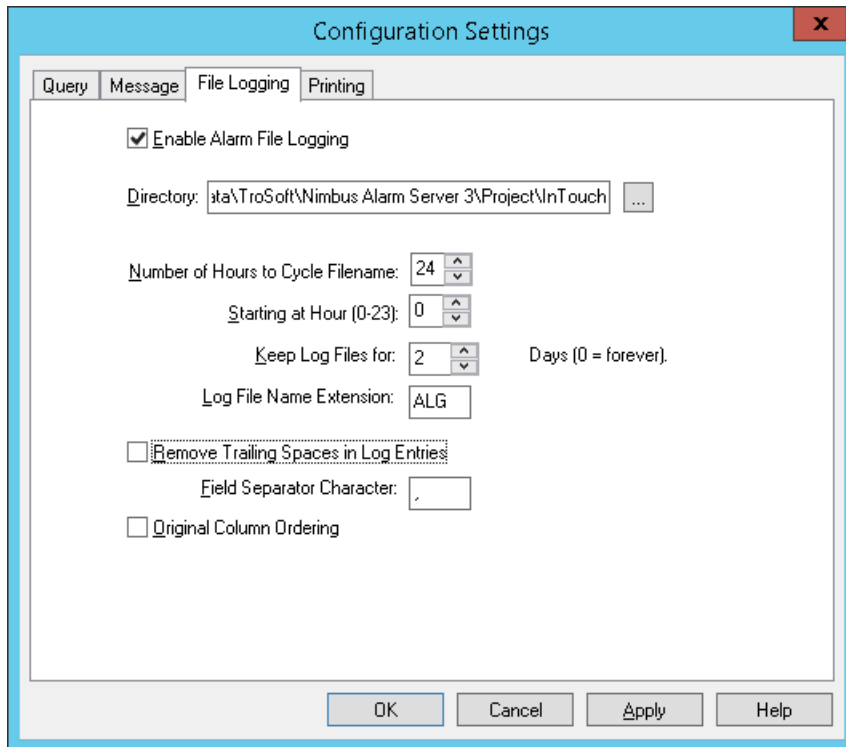
Select *Configure - Query*. Select relevant priorities to export to Nimbus. In *Alarm Query*, add the Areas to export, separate them using a space. Select *Record alarms generated after query starts* or you will get all old not-returned alarms exported to Nimbus every time you restart the Alarm Printer.

Fill in above information in the *Message* tab. It is essential all info is correct, also the date and time formats.
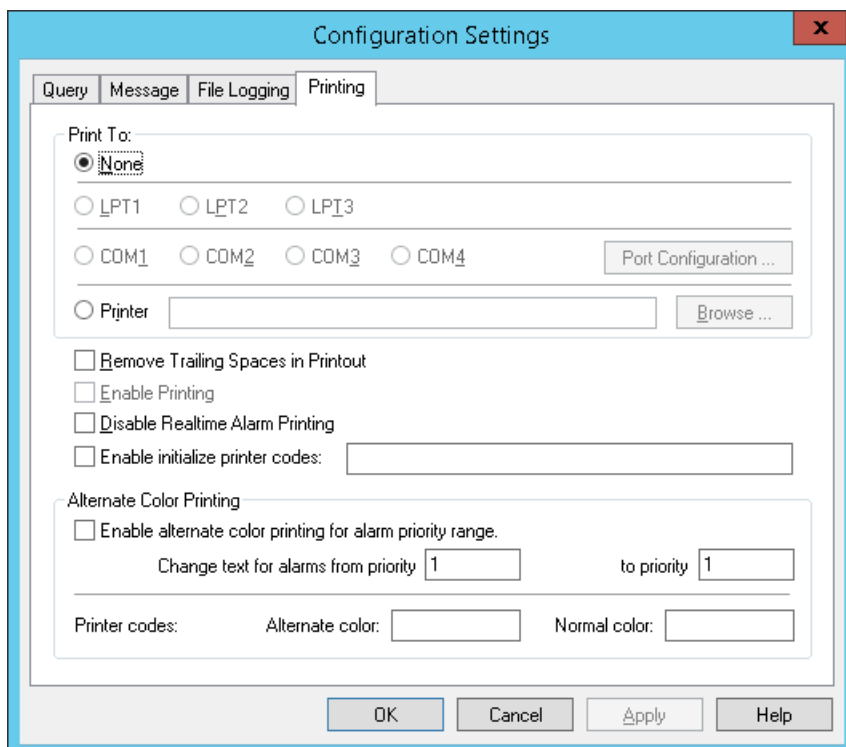
Nimbus will read the ALG-files and parse information from specific locations in each alarm row, if the above information is not correct Nimbus will not parse the alarm events correctly.

Where Nimbus finds each field is defined in an import definition file (*Import_InTouch.imp*) in the *Import* subfolder in the Nimbus *project* folder. Usually there is no need to change anything in the import definition file.

Fill in above information in the *File Logging* tab. The *Directory* should be the same directory entered in Nimbus SCADA Import, *C:\ProgramData\TroSoft\Nimbus Alarm Server 3\Project\InTouch*
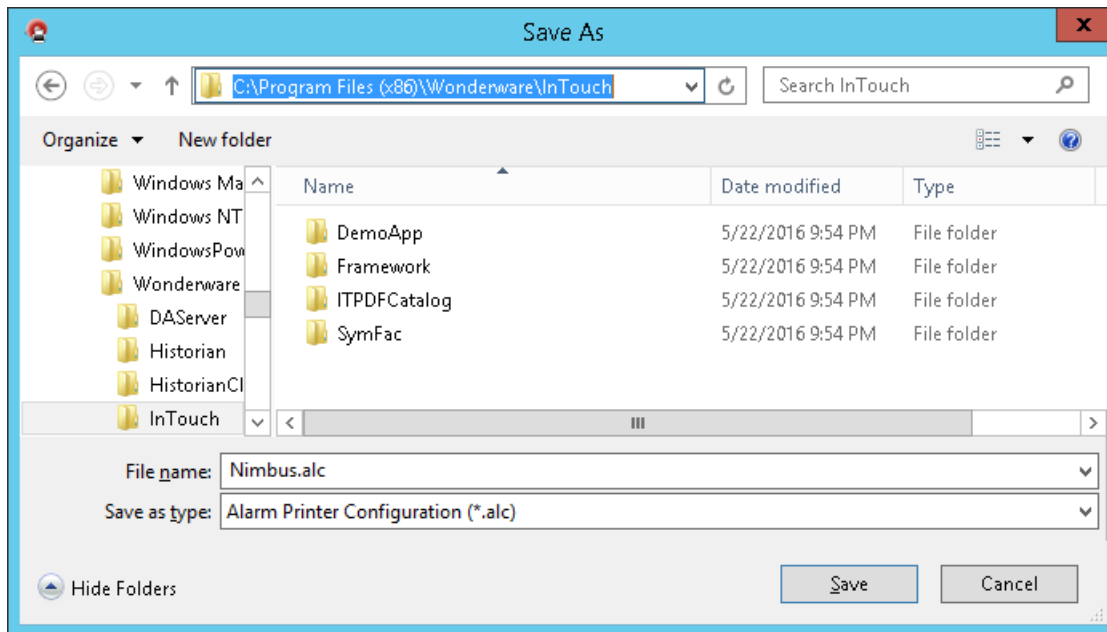
Starting hours should be set to 0 and the log files should be kept at least 2 days.
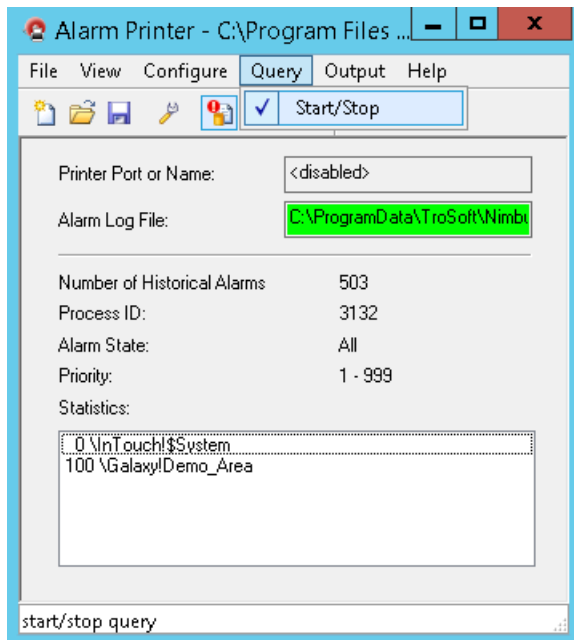

In the *Printing* tab, ensure *None* is selected

Click *Ok*.

Select File - Save As and save the configuration file (ALC-file) to *C:\Program Files (x86)\Wonderware\InTouch* (or where you found the *Alarm Printer application*)
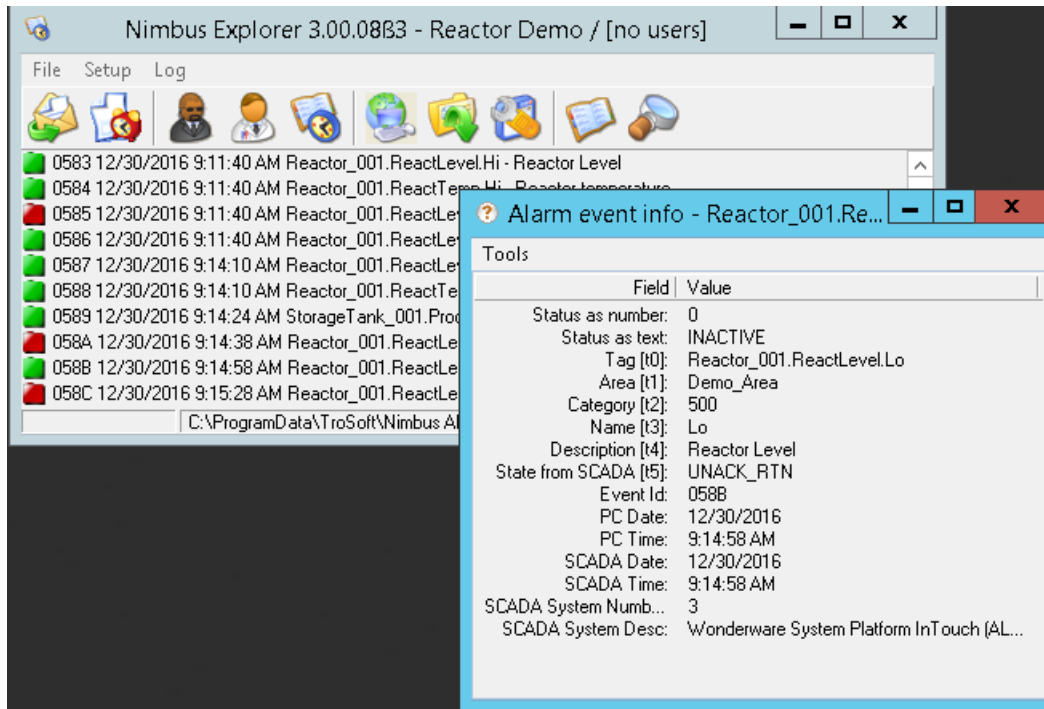

Name the configuration file *Nimbus.alc*

It is essential that *AlmPrt.exe* and *the Nimbus.alc* files are located in the same folder.

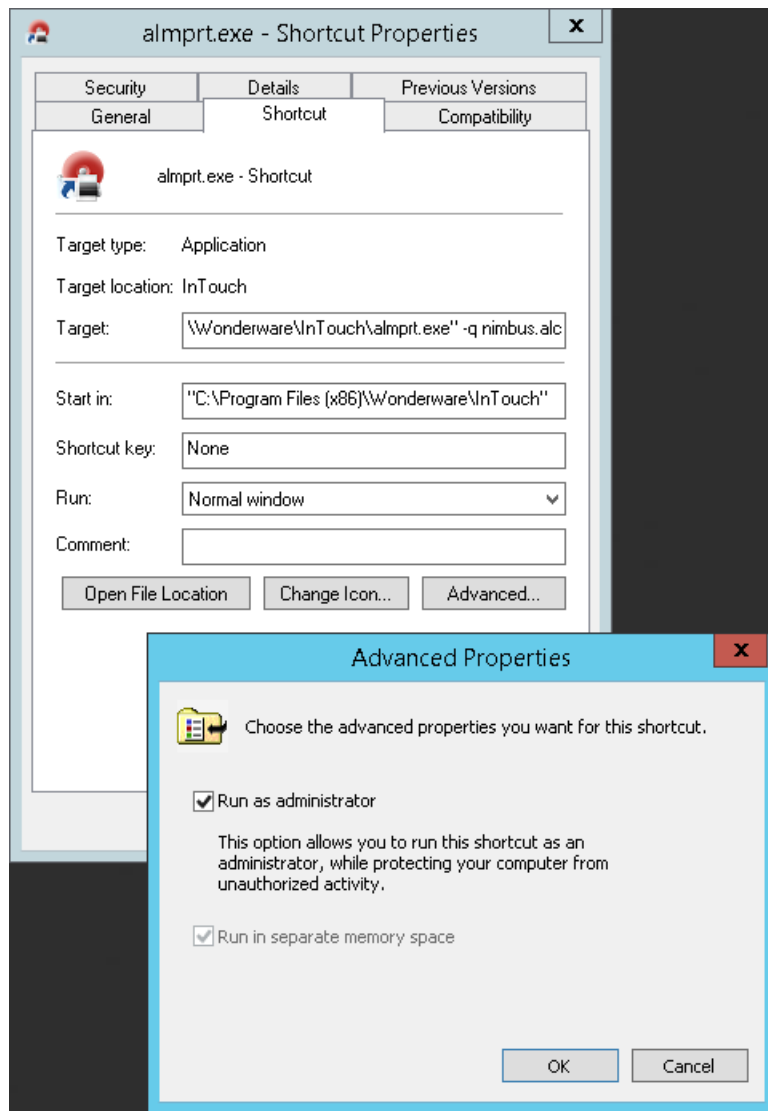Now test the configuration using *Query - Start Query*

Have a look in Nimbus Explorer, alarms should now appear as they occurs. Double-click any of them to see what Nimbus parses into each filed. If everything is fine, it should look as above.

For Nimbus to always retrieve alarms from InTouch, the *Alarm Printer application* must be running using the *Nimbus.alc* file as configuration.

You can either start the *Alarm Printer application* manually and load the *Nimbus.alc* file and then start *Query* using the menu choices or do it automatically in two ways.

Alternative 1. Configure Alarm Printer shortcut to start the Nimbus.alc querys automatically (using shortcut)

Find the *Alarm Printer applilcation* file *AlmPrt.exe* and create a shortcut.

Change the shortcut properties. In *Target*, add the sentence *-q nimbus.alc*

Select *Advanced - Run as administrator*

Place the shortcut in *C:\Users\<user name>\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup* to ensure it starts when the always logged in user logs in (if there is a user that always logs in).
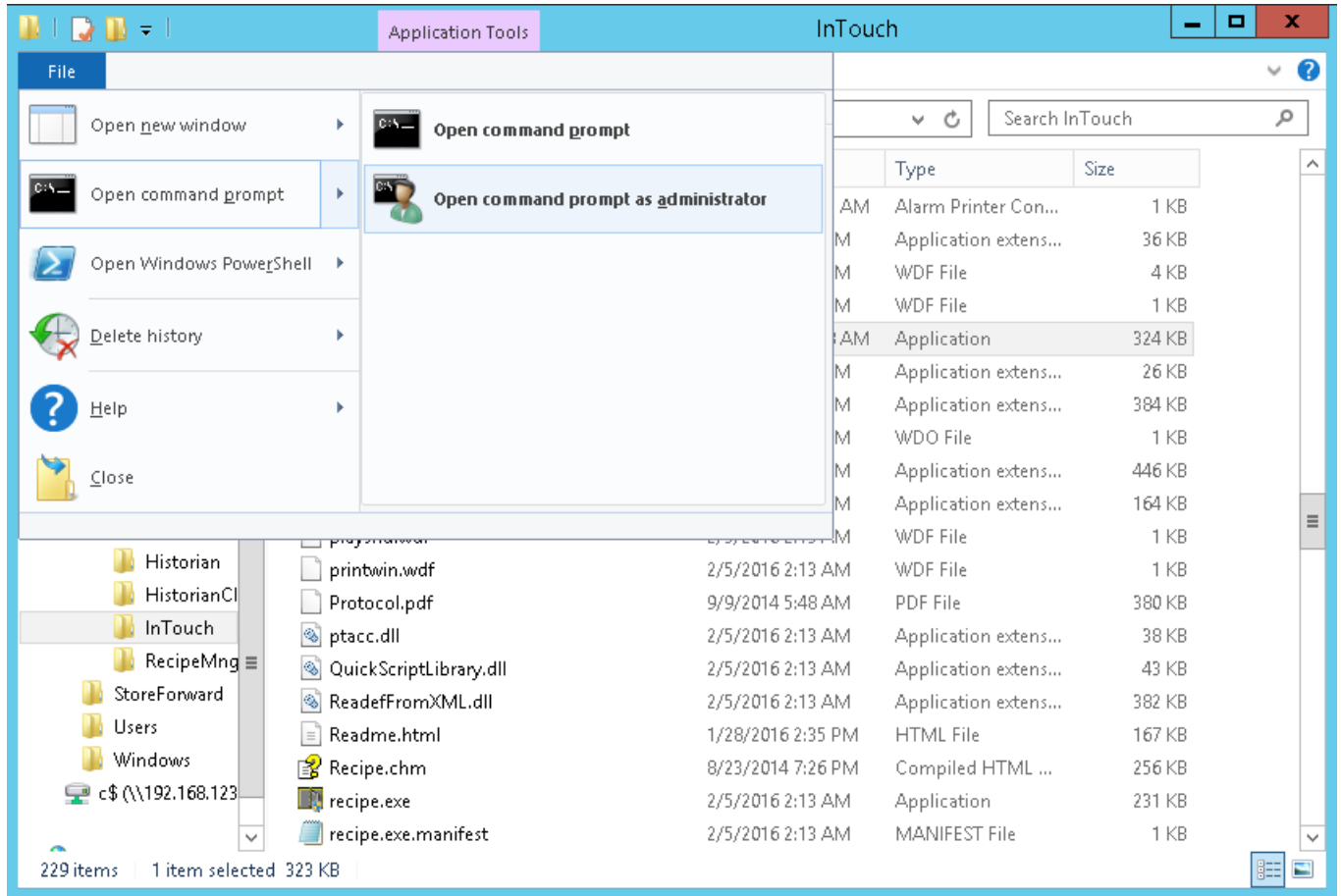
The *AppData* folder is hidden so you must use the *Control Panel - Folder options - View* and select *Show hidden files, folders and drives*

Alternative 2. Configure Alarm Printer to run as a service (using *NSSM - the Non-Sucking Service Manag*er)
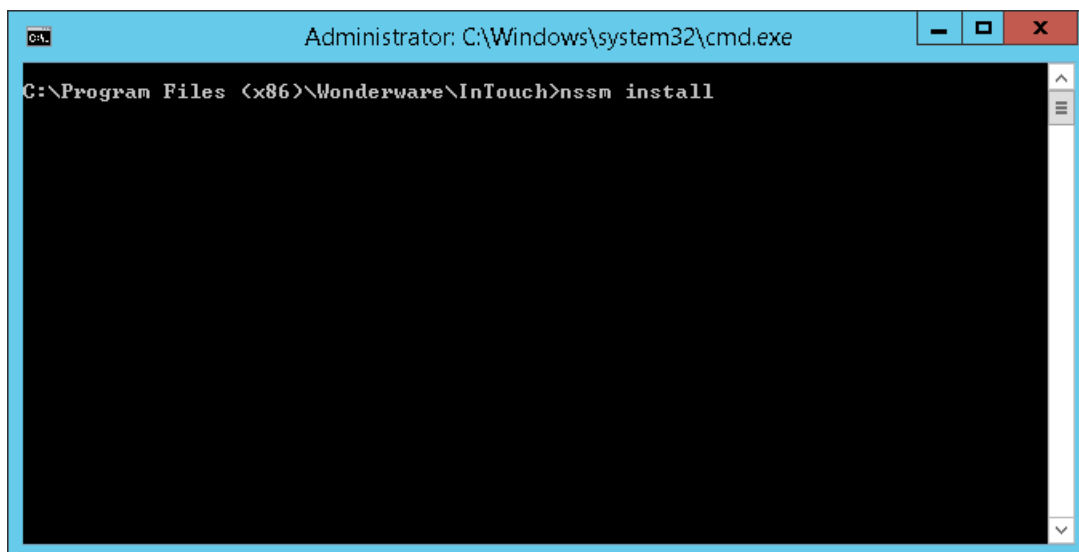
There are some applications which can be used to make the *Alarm Printer* to run as a service, one is the *Non-Sucking Service Manager (NSMM).*

Download the program from *https://nssm.cc/download* (correct version depending of the OS, 32 or 64-bit). It is an open source project developed using *Microsoft Visual Studio C/C++*.
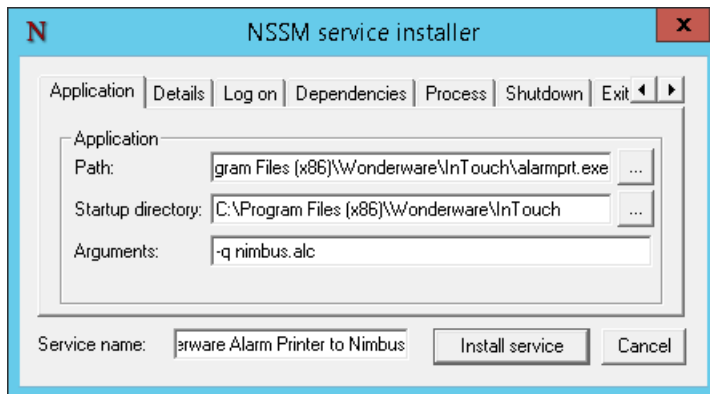
Copy the file *nssm.exe* to the *C:\Program Files (x86)\Wonderware\InTouch* folder.

In the *InTouch* program folder select *File - Open command prompt as administrator*

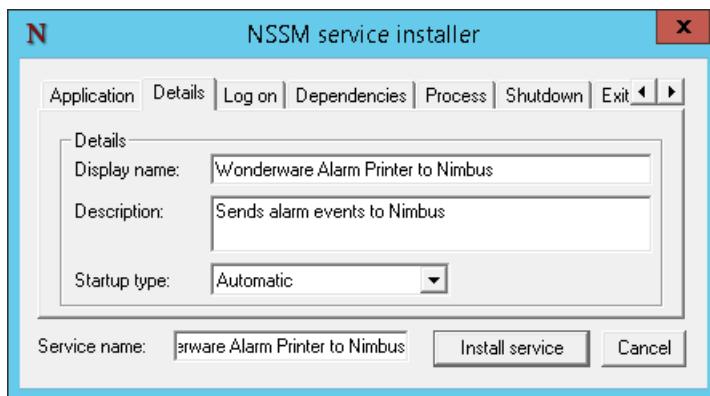Enter *nssm install* at the command prompt

Set Path to *C:\Program Files (x86)\Wonderware\InTouch\almprt.exe*

Set Startup directory *to C:\Program Files (x86)\Wonderware\InTouch*

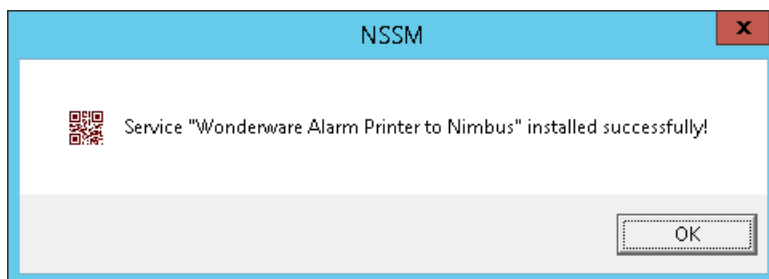Set Arguments to *-q nimbus.alc*

Set Service name to *Wonderware Alarm Printer to Nimbus*
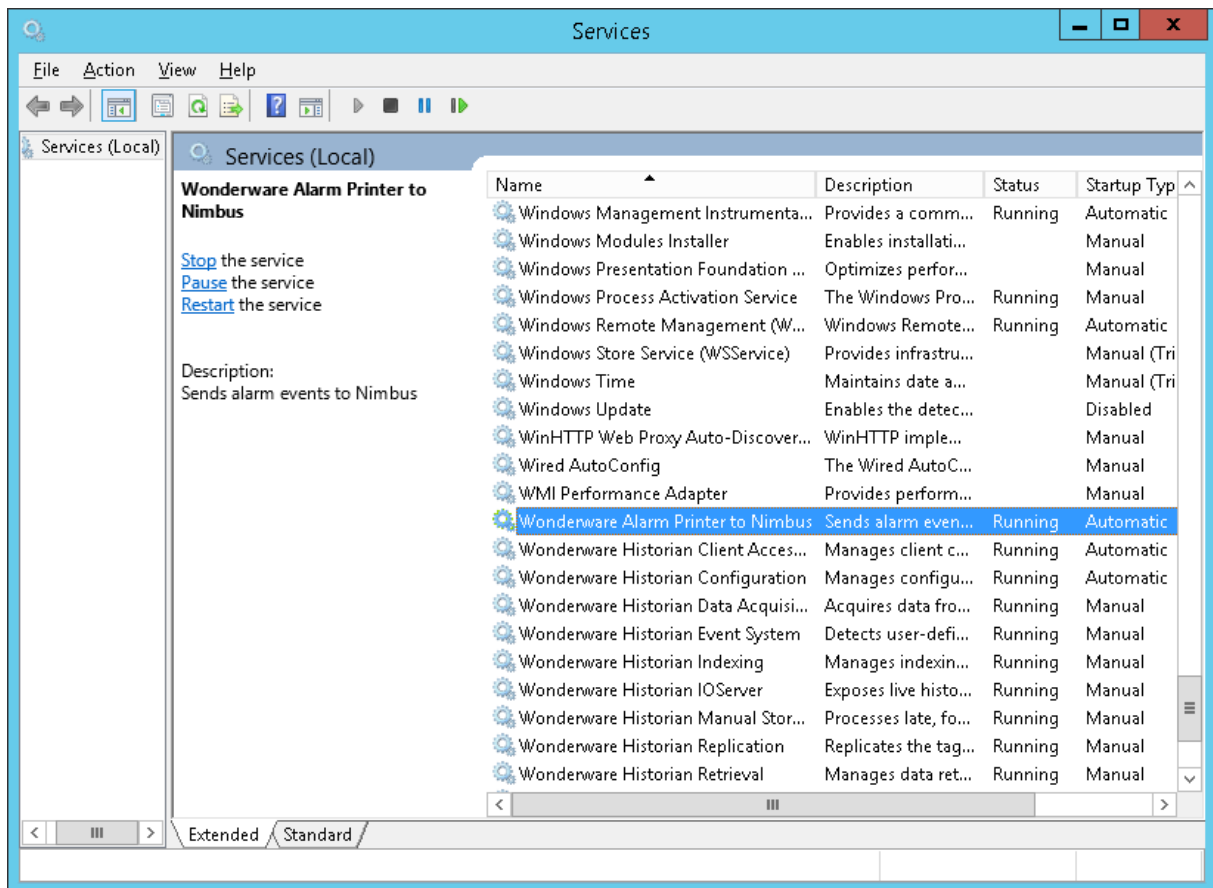

Set Display name to *Wonderware Alarm Printer to Nimbus*

Set Description *to Sends alarm events to Nimbus*

Click *Install service*

You will get a message box similar to above

Open the *Service Control Manager* and start the *Wonderware Alarm Printer to Nimbus* service. It will start automatically when rebooting the server but will have to be manually started the first time.

Have a look in Nimbus Explorer that alarm events arrives as expected.

To be really sure everything works fine some alarms should be tested when the server is restarted

To remove the service use the following commmand line

nssm remove "wonderware alarm printer to nimbus"

Select *Yes* to remove the service