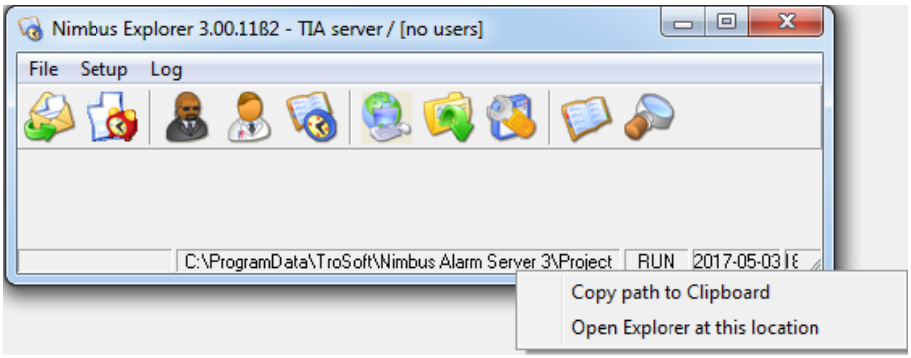
Import alarms from Siemens TIA portal (WinCC RT Advanced) to Nimbus

Siemens TIA portal export alarm events to Nimbus using the *Alarm Logging*. First of all install or upgrade Nimbus, see separate install instructions. TIA import was implemented in release 3.0.12.

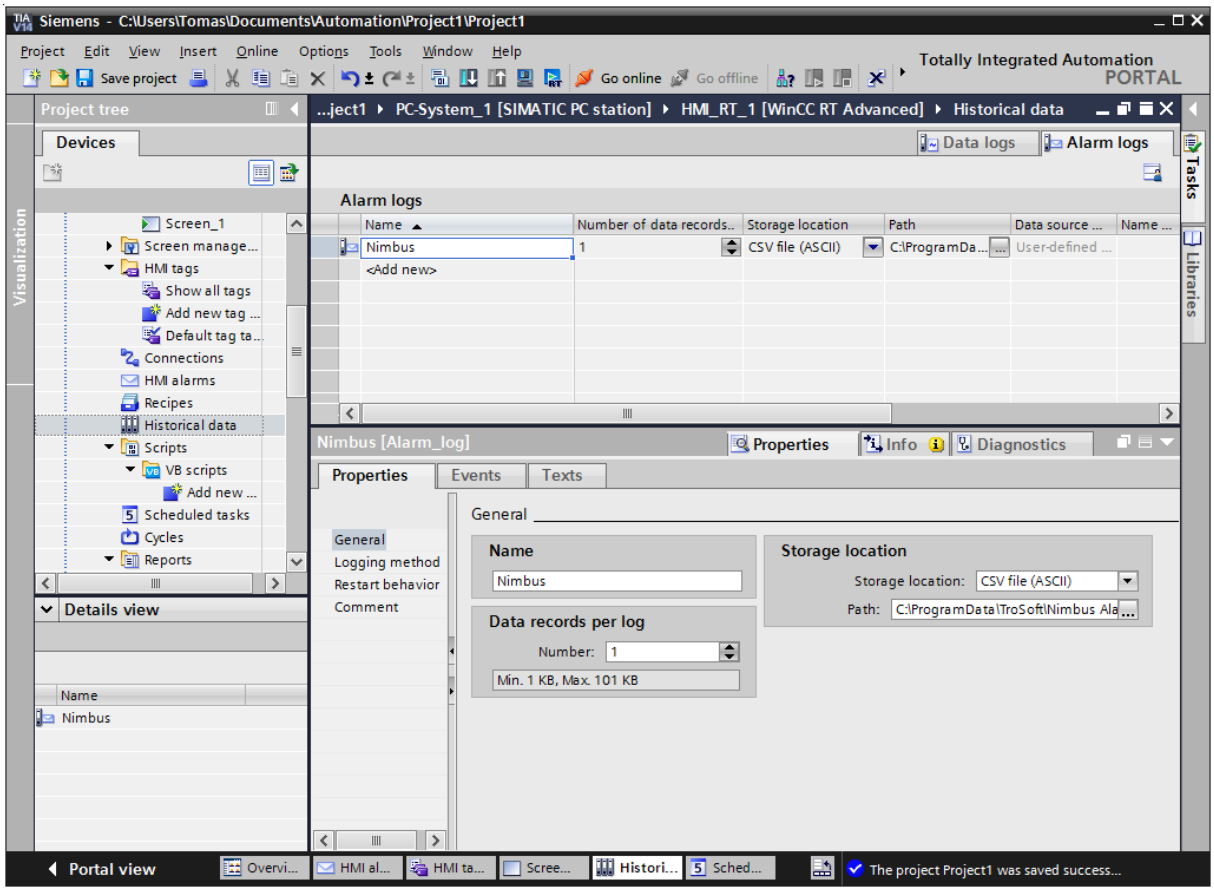
Configure TIA to create the Nimbus readable alarm log CSV-files



First of all create an *Alarmlog* folder where both TIA and Nimbus have *Full control (read/write/delete file access)*. A good place is where Nimbus data resides - you see the path down right in Nimbus Explorer.

Right click and you can copy the address or open File Explorer there. Create a new folder:

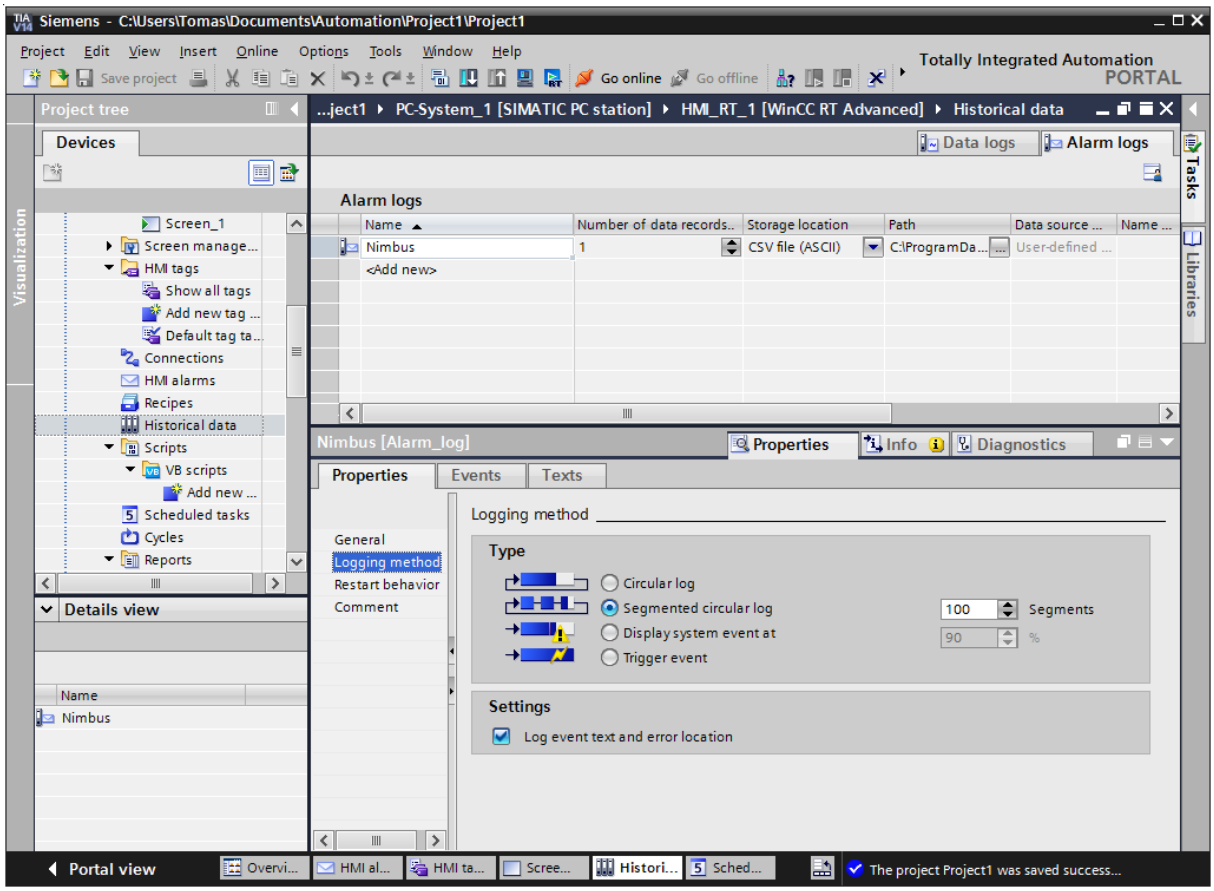
C:\ProgramData\TroSoft\Nimbus Alarm Server 3\Alarmlog



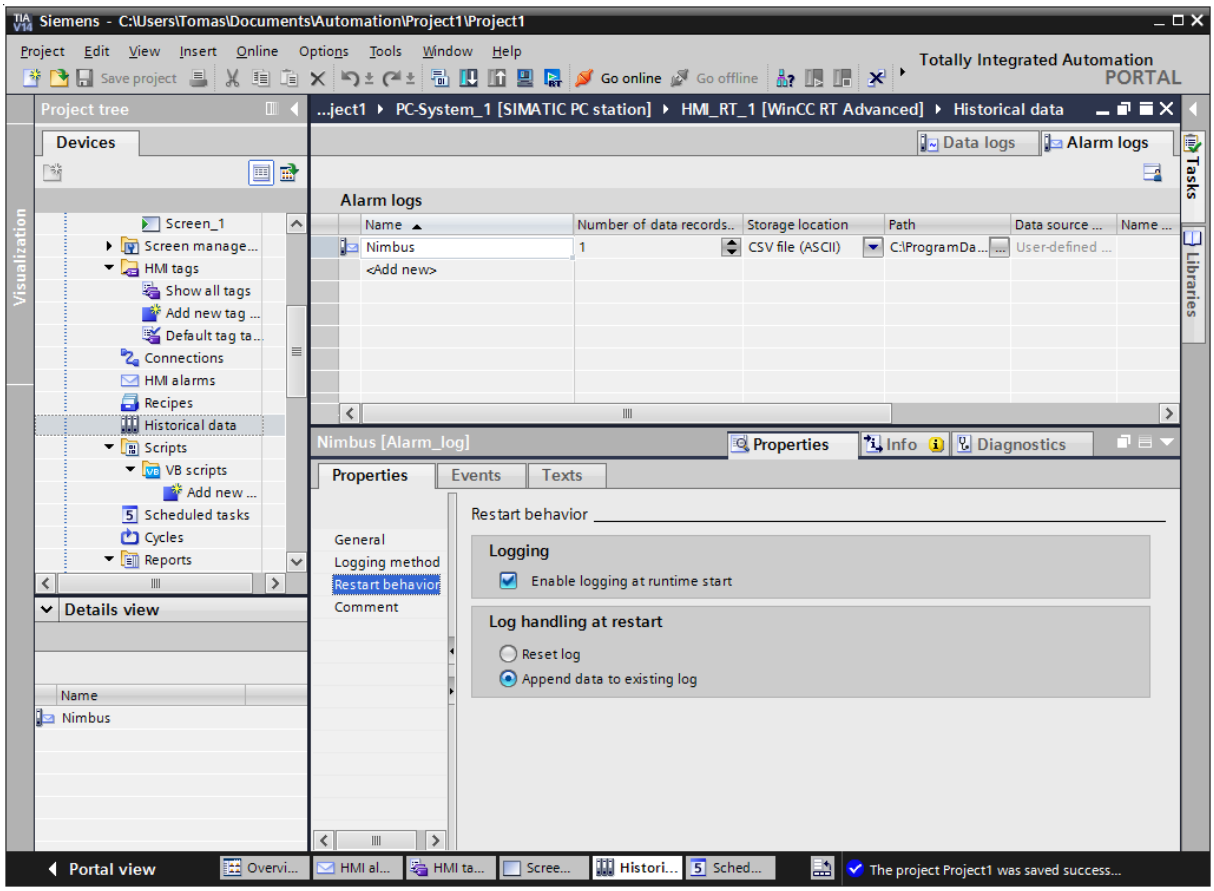
Create an *Alarm Log* in *Historical data -> Alarm logs*. Name it *Nimbus*, use the above settings and select the path as the newly created folder:

C:\ProgramData\TroSoft\Nimbus Alarm Server 3\Alarmlog

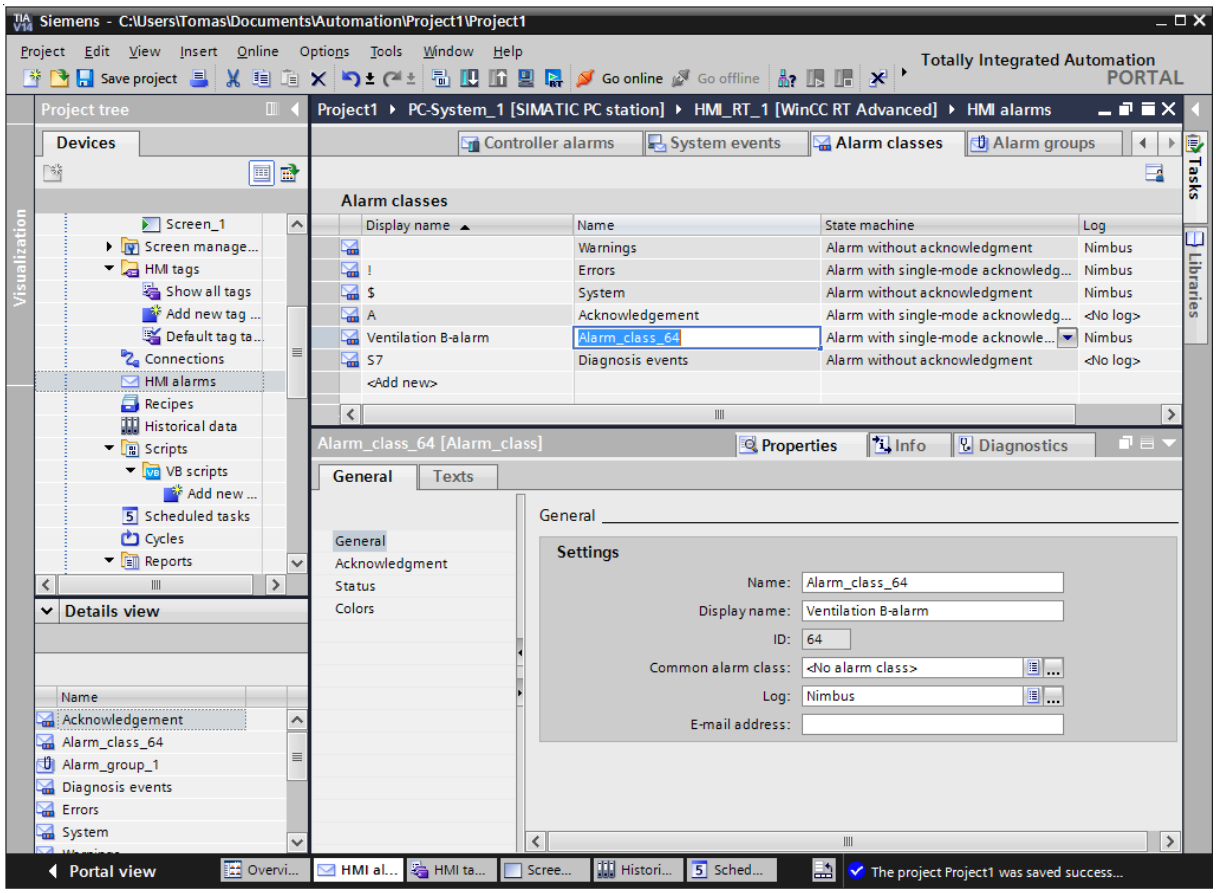
The number of *Data records* per log *must* be 1, since TIA holds the file open until the number of events are reached and then creates a new log file.



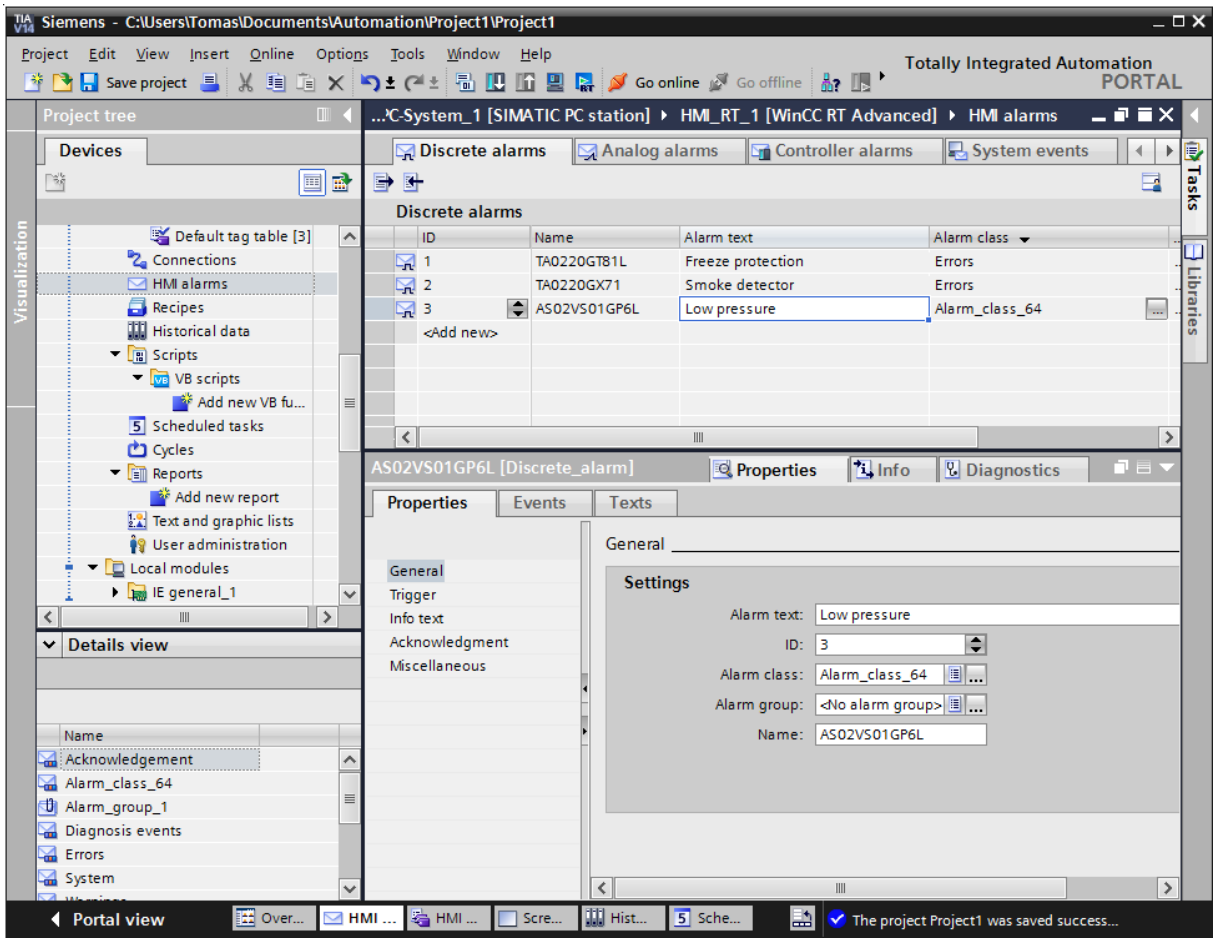
Select *Segmented circular log* and at least 100 segments - this actually means upto 100 simultanously alarm events between Nimbus file scans which defaults to 2000 msec.



Select above settings in *Restart behaviour*.

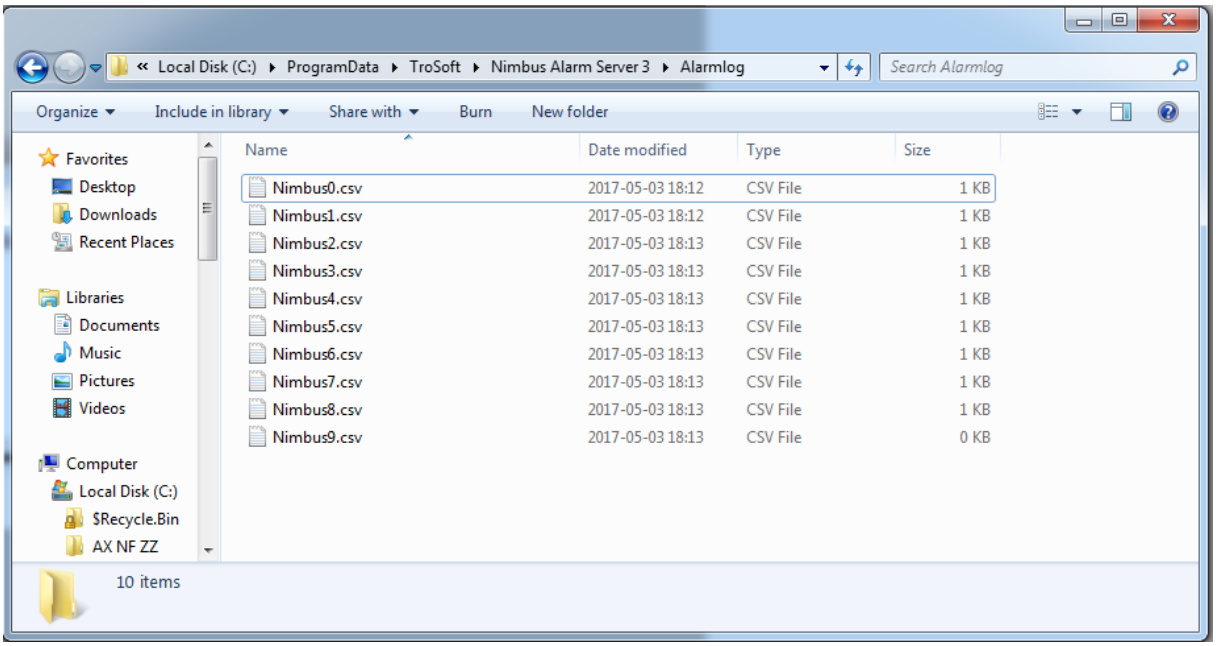


Create new *Alarm classes* or change your old *Alarm classes* so they log to the newly created Alarm log *Nimbus*.

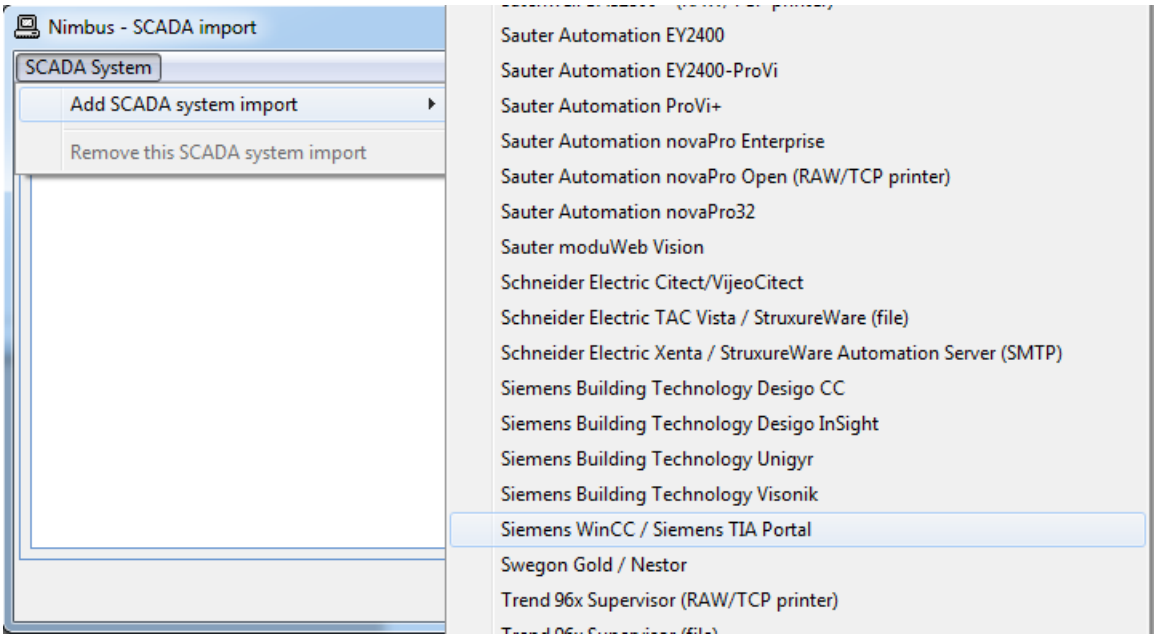


Select the *Alarm class* in the HMI alarms tabs if not already configured.

Start *TIA Runtime* and try some alarm events, the *Alarm log files* should appear in the new folder:



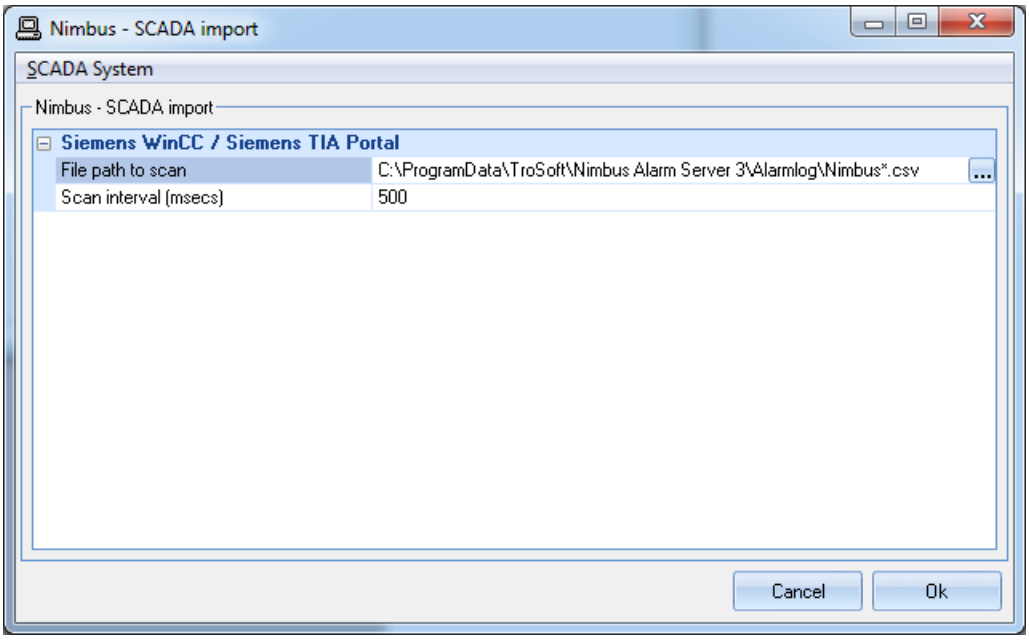
Configure Nimbus to import the Alarm log CSV-files



In *Nimbus Explorer* select *Setup -> SCADA import setup. Select SCADA System -> Add SCADA system import -> Siemens WinCC / Siemens TIA portal*

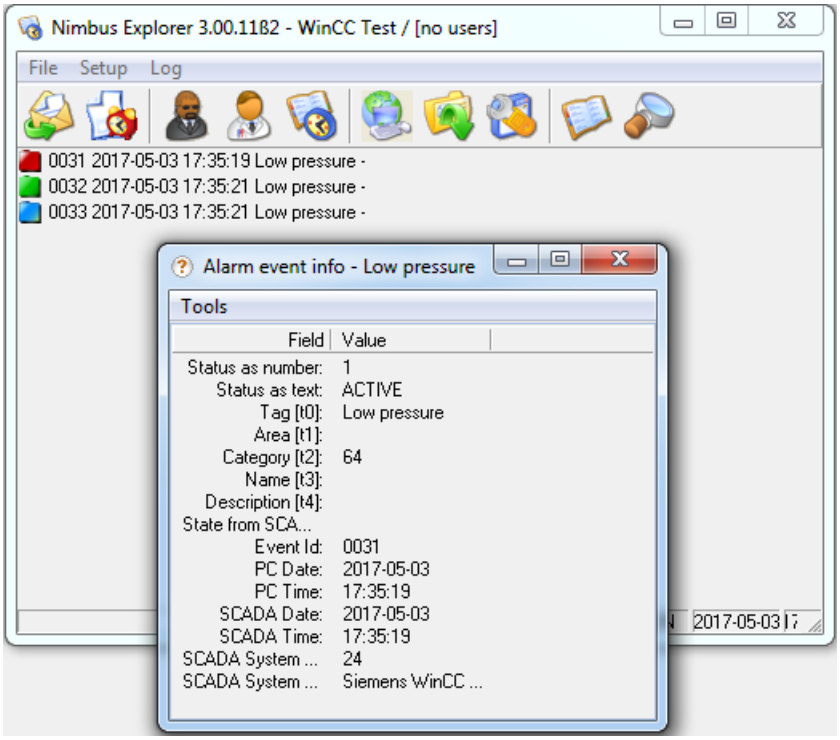
Select just one of the *Alarm log files*, Nimbus Explorer will detect it as a *TIA CSV file* and change the file name internally to *Nimbus*.csv*.

The Nimbus server will when it is started automatically scan for all files in the file folder with a name beginning with *Nimbus* that has a file extension of *.csv* even if you just selected one of them, that is why the name is automatically changed to *Nimbus*.csv*.



Change *Scan interval to 500 msecs* if you like the import to be faster (defaults to 2000 msecs)

Start the *Nimbus Server* either using *Service Control Manager* if it is installed as service or using the *File* menu.



The Nimbus server will first of all remove the *Alarm log files*, as they contain old events. The last file is locked by *TIA Runtime* and will not be removed.

The *Nimbus server* will now continously scan the *Alarmlog* folder (using the 500 msec interval) for new files named *Nimbus*.csv*. The files will be renamed to ensure they are not locked or written in by *TIA Runtime*, then imported and finally removed.

Create some new alarms and see that the alarm events appear in the *Nimbus Explorer* main window. Double click one of the alarm events to present all info about it.

Unfortenately there is not very much information in a *Alarm log file*:

```
"Time_ms";"MsgProc";"StateAfter";"MsgClass";"MsgNumber";"Var1";"Var2";"Var3";"Var4";"Var5";"Va
r6";"Var7";"Var8";"TimeString";"MsgText";"PLC"
42858759036,3195;2;0;64;3;;;;;;;;;"2017-05-03 18:13:01";"Low pressure";"<internal>"
"$RT_COUNT$";2;;;;;;;;;;;;;;;
```

Ex the *Name* field is missing so you should use the *Alarm text* and *Alarm class* number for filtering.

You may change the Nimbus import behaviour in the file ..*Project**Import**Import_TIA.imp*. Open it in *Notepad* and edit fields to import, there you also may change date/time format as the default setting is Swedish.

The *Import_TIA.imp* file is a text file.

You don't have to restart Nimbus server if the file is updated.