## 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.

Clipboard	Organize	New	Open Select		
↑ 🔒 → This PC → OS (C:) → Program	n Files (x86) > TroSoft > U	niView2Nimbus		ٽ ~	
rosoft	^ N	ame	Date modified	Туре	Size
rosoft Analysis Services		Transfer	2024-05-20 12:12	File folder	
rosoft ASP.NET	<	Interop.Scripting.dll	2024-05-20 09:13	Application exten	22 KB
rosoft Help Viewer	í.	🗿 UniView2Nimbus.exe	2024-05-20 09:32	Application	40 KB
rosoft Office365 Tools		🍸 UniView2Nimbus.exe.config	2024-05-20 09:12	CONFIG File	1 KB
rosoft SDKs		🖁 UniView2Nimbus.ini	2024-05-20 12:16	INI File	2 KB
rosoft Silverlight					

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.

📔 C:\Pr	rogram Files (x86)\TroSoft\UniView2Nimbus\UniView2Nimbus.ini - Notepad++	_		×
<u>File</u>	t <u>S</u> earch <u>V</u> iew E <u>n</u> coding <u>L</u> anguage Se <u>t</u> tings T <u>o</u> ols <u>M</u> acro <u>R</u> un <u>P</u> lugins <u>W</u> indow <u>?</u>			х
	= ° = ° = * ° = * * ° = * * * * * * * *	<b>E E Z</b>	▲ ▼	∑ »
🔚 UniViev	w2Nimbus.ini 🔀			
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	1 ·			
36	; Name field to be sent to Nimbus			
37				
38	NimbusName=			
39				~
MS ini file	length:1621         lines:80         Ln:1         Col:1         Sel:0         0         Windows (CR LF)         All	NSI	IN	VS

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.



# 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.

🔞 Nimbus Explorer 3.00.31 - Test / [no users]		
File Setup Log		ABB 800xA
User Setup	$\sim$	ABB Freelance
🥩 📴 Vien Status		ABB MasterPiece
Receiver Setup		ABB MicroSCADA
Koute Profiles Setup		Abelko IMSE WebMaster / Ultrabase 30
Receiver Type Setup		Bastec BASx
SCADA import Setup		Beijer Electronics E-/E1000-series/iX devices
Server Setup	Г <u> —</u>	Bravida Integra
✓ Toolbar	🖳 Nimbus - SCADA import	Cerberus Algorex
	SCADA System	Cerberus CSDL
	Add SCADA system import >	Collectric Collibri
	Remove this SCADA system import	Diana Control Diana
		Energo WebSystem SMTP (Niagara)
		Fidelix FX-2025
		Generic File
		Generic Mail
		Generic RS-232
		Generic TCP (Client)
		Generic TCP (Server)
		Googol T1/RBM-600
		Honeywell Excel
		INU 130
		INU-vision
		Intellicom NetBiter / Weland OJ Electronics

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

🚇 Nimbus - SCADA import	-	. 🗆	I X
SCADA System			
Nimbus - SCADA import			
Generic TCP (Server)			
TCP local server port (listen) 14100			
	Cancel		Ok

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.

🤯 C:\Program Files (x86)\TroSoft\UniView2Nimbus\UniView2Nimbus.exe	_		$\times$
N LARM LÅGT TRYCK -B- 2024-05-20 12:41:49 Sent alarm event to Nimbus: 1 2024-04-25 10:00:40 KAB3085 LL UniView	B  02	B3 ZON	^ \ 4
LÅG SYREHALT -B- 2024-05-20 12:41:49 Sent alarm event to Nimbus: 1/2024-04-25/11:40:26/KAM0117LOP/UniView		-LARM S	51 A
MSKRUV CONTAINER 1 - A-			
IVARE 1 RET AR	A   IOP-	LARM A	AVK
2024-05-20 12:41:49 Sent alarm event to Nimbus: 0 2024-04-25 11:50:36 KAM0117LOP UniView AMSKRUV CONTAINER 1 RET -AR	A  OP-	- LARM	SL
2024-05-20 12:41:49 Sent alarm event to Nimbus: 2 2024-04-25 11:50:32 KAM0113LOP UniView IVARE 1 -AK	A  OP-	-LARM A	AVR
2024-05-20 12:41:49 Sent alarm event to Nimbus: 2 2024-04-25 11:50:31 KAM0117LOP UniView MSKRUV CONTAINER 1 -AK	A  OP-	-LARM S	5LA
2024-05-20 12:41:49 Sent alarm event to Nimbus: 1 2024-04-25 12:43:10 KAM2504LOP UniView :4 OP-LARM -B-	B  PRS	5-VENT	M2

🔞 Nimbus Explorer 3.00.31 - 1	Test / [no users]		_		$\times$	
File Setup Log						
ila 🕹 🍰 🕹	🔞 🧟 🟟 🔇	J 🟳 🄊				
📜 2C75 2024-04-25 09:08:58 KAH	10641LL - BRUTET VATTEN LA	ARM LÅGT TRYCK				
2C76 2024-04-25 10:00:40 KAB	3085_LL - 02 B3 ZON 4 LAG 9	SYREHALT				
2077 2024-04-25 11:40:26 KAM 2078 2024-04-25 11:40:25 KAM	10117LUP - UP-LARM SLAMSK 10112LOP - OPJ ARM AVRIVAR					
2079 2024-04-25 11:50:39 KAM	10113LOP - OP-LARM AVRIVAL	RE 1 BET				
2C7A 2024-04-25 11:50:36 KAM		RUV CONTAINER 1 RET			_	
2C7B 2024-04-25 11:50:32 KAN	? Alarm event info - KAB	3085_LL			_	$\times$
2C7C 2024-04-25 11:50:31 KAN	Tools					
ac7D 2024-04-25 12:43:10 KAN	10015					
	Field	Value				
	Status as number:					
	Tan [tf])	KAB3085 LL				
	Area [t1]:	UniView				
	Category [t2]:	В				
	Name [t3]:					
	State from SCADA [t5]:	-R-				
	Event Id:	2C76				
	PC Date:	2024-05-20				
	PC Time:	12:41:49				
	SLADA Date: SCADA Time:	2024-04-25				
	SCADA System Number:	58				
	SCADA System Desc:	Generic TCP (Server)				
	4			_		

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)

🍓 Services					-		×
<u>File</u> <u>Action</u> <u>V</u> iew	v <u>H</u> elp						
⇐ ➡ 🔽 🖾	Q 🗟 🛛 🖬 🖿 🖬 🖬 🕨						
Services (Local)	Services (Local)						
	TroSoft UniView to Nimbus service	Name	Description	Status	Startup T	iype	^
		🖏 Task Scheduler	Enables a user to configure and schedule automated tasks on this computer. The service also hosts multiple Wind	Running	Automat	tic	
	Stop the service	CP/IP NetBIOS Helper	Provides support for the NetBIOS over TCP/IP (NetBT) service and NetBIOS name resolution for clients on the net	Running	Manual (	(Trigger S	ta
	Restan the service	🖏 TeamViewer	TeamViewer Remote Software	Running	Automat	tic	
		🖏 Telephony	Provides Telephony API (TAPI) support for programs that control telephony devices on the local computer and, th	Running	Manual		
	Description:	Q. Themes	Provides user experience theme management.	Running	Automat	tic	
	Nimbus Alarm Source	🖏 Time Broker	Coordinates execution of background work for WinRT application. If this service is stopped or disabled, then back	Running	Manual (	(Trigger S	ta
		🧠 Tjänsten Microsoft Office Klicka-och-kör	Hanterar resurssamordning, bakgrundsströmning och systemintegrering av Microsoft Office-produkter och relat	Running	Automat	tic	
		🥋 Touch Keyboard and Handwriting Panel Service	Enables Touch Keyboard and Handwriting Panel pen and ink functionality	Running	Manual (	(Trigger S	ta
		🐘 TroSoft UniView to Nimbus service	Nimbus Alarm Source	Running	Automat	tic	
		🖏 Update Orchestrator Service	Manages Windows Updates. If stopped, your devices will not be able to download and install the latest updates.	Running	Automat	dic (Delay	ec
		🖏 UPnP Device Host	Allows UPnP devices to be hosted on this computer. If this service is stopped, any hosted UPnP devices will stop f		Manual		
		🌼 User Data Access_f2d72	Provides apps access to structured user data, including contact info, calendars, messages, and other content. If y	Running	Manual		
		🖏 User Data Storage_f2d72	Handles storage of structured user data, including contact info, calendars, messages, and other content. If you st	Running	Manual		
		User Experience Virtualization Service	Provides support for application and OS settings roaming		Disabled		
		🏟 User Manager	User Manager provides the runtime components required for multi-user interaction. If this service is stopped, so	Running	Automat	tic (Trigge	er (
		🖏 User Profile Service	This service is responsible for loading and unloading user profiles. If this service is stopped or disabled, users will	Running	Automat	ac	
		🔍 Virtual Disk	Provides management services for disks, volumes, file systems, and storage arrays.		Manual		
		🐘 Visual Studio 2008 Remote Debugger	Allows members of the Administrators group to remotely debug server applications using Visual Studio 2008. Use		Disabled		×
		<					>
	Extended Standard						

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:

Namn			
Larmexport till fil			
Kolumner			
Klass v Tid v Sig.namnv Text v [Ingen] v	[Ingen] ~	[Ingen] ~	
Filter			
Klass Signalnamn Text Enhet Operatör			
-*			
Exportinformation			
Filnamn (med full sökväg)	Kol.sep. (hex)	Datumformat	Tidformat
C:\Program Files (x86)\TroSoft\UniView2Nimbus\TransfertAlarmFile.txt	09	Y-m-d	H:M:s
Expertriktning			
Äldst överst			
Hantering av befintlig fil			
Addera			
Exportintervall Längd (sek) Eftersläpning (sek)			
Minut v 60 0			

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