

Connecting ScadaPhone to Citect SCADA 2016

OVERVIEW:

ScadaPhone can interface to Citect SCADA using one of the two communication standards, **OPC DA or OLE.**

Configure Citect:

Citect SCADA 2016 requires an additional step in Citect configuration for CTAPILink to work. In order for ScadaPhone to successfully poll Citect for Tags and alarms, configure Citect SCADA as follows:

Step 1: Open Citect Studio

Step 2: Open the Topology Page

😓 Ci	itect Studio - Example [Active	e Project]					
	Menu	mputers	Edit	Profiles	I/O Devices	Components & Mapping	
⊜	Projects						
ф	Topology						
Ŧ	System Model	-	4重 Cluster1	ŀ	4필 Cluster Indepe	1	
Ę	Visualization	8	OServer				
0	Security	AlarmServer1					
e	Standards		ReportServe	1			
-	Patua	30PC		5	ScadaPhoneOPC		

Step 3: Under the **Edit tab**, in the **Network Address** section, change the **I/P address** to the **Local I/P**.

C	tect S	Studio - Ex	ample (Active	Project	*								•		x
≡	+	То	pology	Com	puters Ed	t Pr	ofiles I/O Devi	ces Compone	nts & Mapping						
9	8	Save 🗡	(Discard	6	py 📋 Paste	≣ De	elete Row(s)	€xport All -€ 1	mport All						
₽	Net	work Add	resses												
-	:	Row	Name	Y	Address	7	$ \operatorname{Comment}\ \bigtriangledown$	Computer $\overline{\gamma}$	Project 🍸 🛛	4	⊞⊟∦	Search P	hope	rties	
4		1	localhost		192.168.1.12	3		LocalComputer	Example						
₽											J General				
~											Name				
0											Address				-

Step 4: Go to the OPC DA Server section

Citect Studio - Example [Active Project]*					- 1	3
🗧 🗰 Topology Compu	ters Edit P	rofiles I/O Devi	ices Compone	nts & Mapping		
🕄 Save 🗙 Discard 🛛 🗋 Copy	🖱 Paste 🚍 D	elete Row(s)	Export All	mport All		
Network Addresses	-					
Clusters	ss 🍸	Comment 7	Computer 🏹	Project T	📤 🕀 🖻 Aźż Search Properti	
Computers	8.1.123		LocalComputer	Example		
Vetwork Addresses					J General	
Alarm Servers					Name	
Trend Servers					Address	
I/O Servers					Comment	
OPC DA Servers					Computer	59
EcoStruxure Web Services Servers					J Project	
					Project	39
			_			
					v	

Step 5: Enter server name, network address, type of browsing hierarchy and the project. By adding this to the project, the OPC DA server will be enabled and therefore continuously run when the Citect project is in runtime.



Step 6: Once these setting are added to the project, compile and run the project. The runtime manager should display the **OpcDaServer Process Type**. The OPC server must be running in order for ScadaPhone to poll Citect for the alarm names, tag names, and the tag values.

Runti	me Manager	itect CADA		Version 8.0 Example		
CPU	Process ID	Process	Туре	Status	Message	
AI	10132	Cluster1.IOServer	IOServer	Running		
AI	10904	Cluster1.TrendServer1	Trend	Running		
AI	11488	Cluster1.AlamServer1	Alarm	Running		
AI	13028	ScadaPhoneOPC	OpcDaServer	Running		
AI	14744	Cluster1.ReportServer1	Report	Running		
All	15012	Client	Client	Running (Demo)		
	Restart Al	l Shu	itdown All	Hic	le	Help

ScadaPhone ScadaLink Setup:

Using OPC DA Connection:

With an OPC Connection ScadaPhone can directly connect to Citect. The **Citect SCADA ProgID** is 'SchneiderElectric.SCADA.OpcDaServer.1'

C DDE		C OLE	
Selected Serv	/er		
Schneider Ele	ctric SCADA	OPC DA	Serve
	remote mac	hine	
Server on	in a klasse		0.00

If the Server name is not available on the ScadaPhone Server list, it can be added by browsing for OPC servers.

OPC Server L New Browse E	ist 🛛 🗶	
Allen Bradley, RSV Allen Bradley, RSL Ditect SCADA	iew 🔊	x
ClearSCADA GE Proficy, Cimplic GE Proficy, Ein	Browse For OPC Servers On Local Computer	
InduSoft, WebStu LookOut SCADA	Browse For OPC Servers On Network Computer	
	Cancel	

Using OLE Connection:

With an OLE connection, ScadaPhone communicates to Citect SCADA using ScadaTEC's **CTAPILink** and **Citect CTAPI.dll**.

ScadaLink Setup						
I Enabled Interface Type C DDE C OPC ● OLE						
Selected Server ScadaTEC/Citect, <u>C</u> TAPI Link						
Server on remote machine						
Remote Machine Name Scan						
OK Cancel						

In **CTAPILink**, ensure that the correct **CTAPI.DLL** location is selected. This can be set under the 'Search for **CTAPI.DLL**'.

TAPI, DLL Locations X								
CTAPILink needs to know the location of CitectSCADA's CTAPI.DLL file in order to connect with the SCADA system database. If there are multiple versions of CitectSCADA installed on this computer, it is important to make sure that CTAPILink is referencing the CTAPI.DLL that matches the version of CitectSCADA which will be in use.								
Listed below are all of the copies of CTAPI.DLL that CTAPILink is aware of. If this list seems incomplete (e.g. if CitectSCADA has been installed to a non-standard location), click the "Search Drive(s)" button and CTAPILink will perform a complete scan of the hard drive(s) in order to locate all copies of CTAPI.DLL.								
To direct CTAPILink to use a par	ticular copy of CTAPI.DLL,	simply put a check mark next to the appropriate list item below.						
DLL Version File Size	File Date	File Path						
BL: 0.02009 190352 2016/11/17 22:41:58 C:\Program Files (x86)\Common Files\Citect\CtApi.dll 8.0.0.2008 190352 2016/11/17 20:12:34 C:\Program Files (x86)\Common Files\Citect\Scheduler 8.0\CtApi.dll 8.0.0.2009 190352 2016/11/17 20:12:34 C:\Program Files (x86)\Common Files\Citect\Scheduler 8.0\CtApi.dll 8.0.0.2009 190352 2016/11/17 22:41:58 C:\Program Files (x86)\Schneider Electric\Citect SCADA 2016\Bin\CtApi.dll								
	Search Drive(s) OK Cancel							