## Frequently Asked Question

### How to configure OPC Client in CIMON SCADA?

### Refer to the instructions below.

These are conditions that should be met in order to properly configure and use OPC Client in SCADA:

• USB Dongle (Keylock) should be CM04-SCADA 1-E or above as shown in the below image. In this example, UltimateAccess V3.03 is used for the FAQ manual.

	UltimateAccess (S/W license)					
• WEB SERVER						
NO	Model	Туре	Description			
1	CM04-SCADA 1-E	1 User	Development+Server+Mobile, Web & Network Clients			
2	CM04-SCADA 5-E	2-5 Users	Development+Server+Mobile,Web & Network Clients			
3	CM04-SCADA 10-E	6-10 Users	Development+Server+Mobile,Web & Network Clients			
4	CM04-SCADA UNL-E	Unlimited Users	Development+Server+Mobile,Web & Network Clients			

#### **OPC Client Overview**

This driver can communicate with the OPC Server.

Item	Description	Remarks
Device Name	OPC Client	
Device Type	System Interface	
DLL Name	OpcClient.Dll	
Protocol	OPC	
Supported Devices	OPC Server	



#### **Communication Setup for OPC Client**

1. Open "CimonD" and Click [Tools]  $\rightarrow$  [I/O Device]  $\rightarrow$  [New Device]

I/O Device Selection					
Device Name OPC Client DA 3.0					
Manufacturer Description					
MITSUBISHI	MITSUBISHI MelsecNet				
MITSUBISHI	MITSUBISHI MELSEC Ethernet (Page)				
MITSUBISHI	MITSUBISHI MELSEC Computer Link (AJ71UC24)				
MODICON	MODICON Modbus TCP Slave				
MODICON	MODICON Modbus TCP				
MODICON	MODICON Modbus RTU Mode				
OMRON OMRON CS Series (Ethernet)					
OMRON	OMRON HostLink (Commnicate Tags On Displayed Page O				
OMRON OMRON SYSMAC C-Series (RS232C/422)					
OPC OPC Client		=			
OPC	OPC Client DA 3.0	-			
SIEMENS	SIEMENS S7 Series Ethernet (Link)				
SIEMENS	SIEMENS S7 Series Ethernet (Loader)				
Atlsmtp	SMTP Sendmail				
Panasonic FP-XC14	Panasonic FP-XC14	Ŧ			
	Ok Cancel				

2. There are "OPC Client" and "OPC Client DA 3.0."

"OPC Client" driver is developed based on "OPC Core Components 2.00." "OPC Client DA 3.0" driver is developed based on "OPC Core Components 3.00." Choose one of the drivers according to the version of the OPC Server Program.

3. Click [Add Group] at the Device Configuration for (OPC Client). Click [Add Group] at the Device Setup for (OPC Client DA 3.0).



Vevice Setup (OPC Client DA3.0)						
Group Name	Server	Description	_			
			Edit			
			Delete			
	ок	CANCEL				

4. If "OPC Client" is selected, the below picture will pop up.

Group Configration	n		×			
Group Name ST1						
OPC Server						
Server Node 🧕 🧕	) Local	ORemote	e			
Node Name			~			
		Searc	hing Server			
Select Server			~			
	imon Plc O iilscherGmb	PC Server E H.CifOpcSe	net rver			
Desc.						
Update polling	1000 🚔	mSec.	Active			
Deadband	0 🏚	% FS				
Time Bias	0 🚖	Min				
Local ID	0					
Maintain Currunt Tag Value When Bad Quality						
Uploading Whole Tags						
ОК		Cance	el			

### Frequently Asked Question

- **Server Node:** Select "Local" if OPC server program runs in PC which is connected to PLC. Select "Remote" if OPC server program runs in other PC connected to PLC through network.
- Select Server: Click "Searching Server" to choose the OPC server.
- Update polling: Select update time for data.
- Active: Select Communication Enable or Disable. (Default is "Active")
- **Deadband:** It is used to set percentage of minimum and maximum of Analog value saved in OPC server. When Analog value is changed by setting percentage CIMON SCADA will work.
- Time Bias: Not used
- Local ID: Not used

\*In order to use "Remote" OPC Client, the following registry must be registered:

#### regsvr32 /s opcproxy.dll

The OPC registry is automatically registered when the files of the directory from the OPC Server PC are copied to the OPC Client PC and the BAT file is executed by the extension.

When the OPC Server PC is not communicating properly, please make sure that the account and the password for both Server and Client are the same and that a user must be logged in with the same account.



5. If "OPC Client DA 3.0" is selected, the below picture will pop up.

Group Setting		×			
Group name	ST2				
Server Node	● Local ○ Remode				
Node Name	✓				
	Server Scan				
Server Select	✓				
Cimon Plc OPC Server Enet HilscherGmbH.CifOpcServer.1					
Refresh cycle	1000 mSec.				
Deadband	0				
Keep the current value when tag error					
ITEM LIST copy to clipboard					
	OK CANCEL				

-The setting is the same as that of "OPC Client."

-ITEM LIST copy to clipboard: Copies tags of OPC Server. You can paste them to Word or Excel to edit.

6. Click "OK" to save configuration.

You can see the "ST1" group as shown below.

Device Configurat	ion (OPC Client)		×
Group Name	Server	Des	
Gr ST1	Cimon Plc OPC		
			Add Group
			Edit
			Delete
<		>	
	ок	ANCEL	



7. After setting "OPC Client," create real tags to communicate with "OPC Server" program.

Edit Ta	g			
Group		General Advanced		
Name DIG1 Type Oroup				
	<ul> <li>Digital</li> </ul>	I/O Device OPC.ST1		
	O Analog	I/O Address OPCTEST.d2		
	OString			
Des.		Save Last Status When Closing		
		Reverse Value Read From I/O Device		
		Assign As Alarm Tag		
	Previous	ext Ok Cancel		

- Click [I/O Device] to select the device you have already set for OPC Server.
- Write the name of I/O Address which is already registered in OPC Server.
- For example, OPC Server program has tags as shown below.

📀 PLCOPCE - PlcEnetOpc						
File(E) Edit(E) View(V) Tool(T) Help(H)						
⊡	Tag name	Data type	Address	Tag value		
OPCTEST	OPCTEST 🔂 a1		D00000	0		
🧳 a2		INT16	D00001	0		
Si d1		BIT	M0001	1		
	🖏 d2	BIT	M0002	1		
	•	III		Þ.		
Ready						

I/O Address must be ["Station Name.Tag name"]: OPCTEST.d2

\*If tag name of OPC Server is written in small letters, tag name of SCADA must be small letters too.

# Frequently Asked Question

ATABASE [opc	test.dbx]				
i 🛤 🛞					
opc test	Name	Туре	I/O device	I/O Address	Initial
	Ê TT	Digital Tag	OPC.ST1	OPCTEST.d1	0
	🛱 T2	Digital Tag	OPC.ST1	OPCTEST.d2	0
	<				>

8. Save project and run CimonX to communicate with OPC Server.

\*OPC Server program should be "Run mode" to communicate with SCADA. \*Setting and Configuration should be different according to OPC Server Program. \*PLC should be connected to PC to communicate with OPC Server Program Here is the example of communication.





