## **PecStar OPC Server User Manual**

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# **Ceiec Electric Technology**

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## **Chapter 1 Introduction**

The **PecOPCServer** software from Ceiec Electric Technology (CET) is an OPC server program based on CET's energy management software such as **PecStar iEMS, iEEM** and so on. It provides user with monitoring and real-time measurements of the OPC Server system.

Taking PecStar as OPC server for example, this manual provides **PecOPCServer**'s installation guide, configuration and how to test connection between OPC server and client.

#### 1.1 Summary of Topics in This Guide

This document provides the following information:

PecStar OPC Server Installation

Describes the steps required to install PecStar OPC Server on a single computer hosting standalone Server.

Configure PecStar OPC Server

Introduces how to configure real-time sources or node status sources via PecStar OPC Server.

DCOM Configuration

Introduces how to configure DCOM configuration.

Configure Local Security Policy of Win7

Introduces how to configure Win7's local security policy before connecting to OPC server.

Test Connection through OPC Client

Introduces how to test connection between OPC server and client via 3<sup>rd</sup> party OPC Client, such as MatrikonOPC Explorer.

#### 1.2 Basic Procedure to Use PecStar OPC Server



## **Chapter 2 PecStar OPC Server Installation**

Before installing PecStar OPC Server, please ensure you have completed the tasks described in the following list:

- Obtain Installation programs including:
  - PecOPC\_Setup.exe
  - PecOPCServer.exe
  - PecsOPCServer.lang
- $\circ$   $\;$  PecStar iEMS has been installed successfully and Site has been configured.

#### 2.1 Install PecStar OPC Server

The following outlines how to install PecStar OPC Server.

1. Double-click the **PecOPC Setup.exe** to begin the installation.



- 2. Select language and click Next.
- 3. Click Next when Welcome page appears.



4. Read the License Agreement. If you agree, click I accept the terms of this license agreement and click Next.

Extended Module Installation - InstallShield Wizard	3
License Agreement Please read the following license agreement carefully.	
User License Agreement (The agreement is governed by The People's Repulic of China) This agreement is legal agreement between you(either an individual or a single entity) the "LICENSEE" and Ceiec Electric Technology Inc.("CET") about software product of "PeeStar". It includes software developer CET's commitment to user and upgrade instructions. Please read carefully. "PecStar" includes computer software.relative medias, and any printed materials,online or electronic documents ("software product" or "software").Once install,repoduce and use the software product in other mode, it means that the LICENSEE agrees to all license I accept the terms of the license agreement I accept the terms of the license agreement	
Cancel     Cancel	

5. Select destination system and click **Next**. After installation, the OPC program will be installed on the selected system's installation path.

Please note that the available systems will be different according to local installed program.

Extended Module I	nstallation - InstallShield Wizard	<b>—</b>
DestinationSyst	emSelect	
Please select or	e system which the extended module will be installed into	
	ExcelWord Reporter V2.0	
	iEMSWeb	
	iEMS V3.6	
last-IIC kield		
Installbhield ———	<pre>Back Next &gt;</pre>	Cancel

6. Click **Next** when **Verifying Environment** page appears.

Extended Module Installation - Inst	allShield Wizard
Verifying Environment	
	This is the install-environments detected result, Install program will install the uninstalled environments if you select "Next". OPC Core Components Redistributable Not installed
	< Back Next > Cancel

7. Click Install.

Extended	Module Installation - InstallShield W	/izard		x
<b>Ready</b> The v	to Install the Program vizard is ready to begin installation.			2
Click	Windows Installer			
lf you the w	Preparing to install			o exit
			Cancel	
InstallShiel	d	< Back	Install Car	ncel

8. There are two pages appear, one is used to continue to install PecOPCServer, another is used to install OPC Core Components. Click **Install** and wait for several seconds, and click **Finish** when it complete.

Extended Module Installation - InstallShield Wizard	<b>×</b>
<b>Ready to Install the Program</b> The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. ( the wizard.	Click Cancel to exit
InstallShield	
< Back Install	Cancel



9. At the following page, select I Agree and click Next to install OPC Core Components.

🛃 OPC Core Components Redist	tributable (x86) 105.1	
License Agreement		FOUNDATION
Please take a moment to read the li Agree'', then ''Next''. Otherwise clic	cense agreement now. If <u>;</u> k "Cancel".	you accept the terms below, click "I
NON-EXCLUSIVE LICEN The OPC Foundation, Foundation"), has e intended to foster automation/control and business/office industry.	SE AGREEMENT a non-profit c stablished a se greater interop applications, f applications i	orporation (the "OPC t of specifications erability between ield systems/devices, n the process control
The OPC specificati	ons define stan	dard interfaces.
🔘 I Do Not Agree	I Agree	
	Cancel	< Back Next >

10. Select an Installation Path and specify the users of OPC Server, and then click Next.

📅 OPC Core Components Redistributable (x86) 105.1	- • •
Select Installation Folder	FOUNDATION
The installer will install OPC Core Components Redistributable (x86) 105. To install in this folder, click "Next". To install to a different folder, enter i	1 to the following folder. t below or click "Browse".
Eolder:  C:\Users\Judy\AppData\Local\OPC Foundation\Core Compor	Browse Disk Cost
Install OPC Core Components Redistributable (x86) 105.1 for yourself, computer:	or for anyone who uses this
Everyone	
⊘ Just me	
Cancel < Ba	ack Next >

11. Confirm installation and click Next.

BOPC Core Components Redistributable (x86) 105.1	- • •
Confirm Installation	FOUNDATION
The installer is ready to install OPC Core Components Redistributable (	x86) 105.1 on your computer.
Click "Next" to start the installation.	
Cancel	Back Next >

12. Wait for about a minute.

😸 OPC Core Components Redistributable (x86) 105.1	- • •
Installing OPC Core Components Redistributable (x86) 105.1	FOUNDATION
OPC Core Components Redistributable (x86) 105.1 is being installed.	
Please wait	
Cancel	Back Next >

13. When the Installation finished, click **Close** to exit the application.

👸 OPC Core Components Redistributable (x86) 105.1	- • •			
Installation Complete	FOUNDATION			
OPC Core Components Redistributable (x86) 105.1 has been successfu	ully installed.			
Click "Close" to exit.				
Please use Windows Update to check for any critical updates to the .NET Framework.				
Cancel < E	lack Close			

## 2.2 Copy PecsOPCServer.exe and PecsOPCServer.lang

Now we can begin the next steps:

I

1. Come back to the folder which save installation programs.



2. Copy **PecOPCServer.exe** to the Common folder. For example, if you install PecStar in D:\CET, then please copy this file to D:\CET\Common.

			×
CET + Com	> 🔻 😽 Se	arch Common	٩
File Edit View Tools He	lp		
Organize 🔻 📑 Open	New folder		
Favorites  Favorites  Desktop  Recent Places  Downloads  Libraries  Documents  Music	PecEvent.exe	PecOPC_Setup.ex e	•
Music     Pictures     Videos     Computer	PecOPCServer.elf	PecOPCServer.ex e	
🚢 Local Disk (C:) 🛛 🚽			-
PecOPCServer.exe Application	2 Date modified: 2014/11/12 Size: 595 KB	2 15:22	

3. Copy **PecOPCServer.lang** to the D:\CET\Common\language folder.



#### 2.3 Uninstall PecOPCServer

There are two ways to uninstall PecOPCServer automatically

Double-click PecOPCServer Setup.exe, and then click Remove, and then click Next to continue.



• Open Control Pane, find the OPC Server, right-click and select Uninstall.

Control Panel	All Control Panel Items   Programs and Features	✓ € Search Programs of Searc	and Features
File Edit View Tools Help			
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and th	en click Uninstall, Change, or Repair.	
off	Organize 🔻 Uninstall Change		≣ ▾ 🔞
	Name	Publisher	Installed On Size 🔺
	CPC Core Components Redistributable (x86) 105.1	OPC Foundation	2015/1/23
	I OPC	CEIEC Electric Technology	2015/1/23
	偶Micr Uninstall		2015/1/23
	And Change tion	MatrikonOPC	2015/1/23
	AutrikonOPC Explorer	MatrikonOPC	2015/1/23
	🛃 MatrikonOPC Analyzer	MatrikonOPC	2015/1/23
	iems v3.6	CET Inc.	2015/1/20

## **Chapter 3 Configure PecStar OPC Server**

Before configuring PecStar OPC Server, please ensure PecOPCServer and Dserver have been started, and the target data sources, including sites, stations, devices, data points have been configured via PecConfig.

- 1. Double-click **PecOPCServer.exe** in the D:\CET\Common folder.
- 2. The following information will be popped out, click **OK**.



3. Click Config.

The **DServer** will be started automatically.



4. Input the user name and password. Click **OK**.

User Login		×
User:	ROOT	-
	OK Cancel	]

5. Click Batch Add[B] or Add[A] to add parameters.

PecOP	ecOPCServer Configuration							
No.	Station	Site	Device	Source	Туре	Alias		
Bat	ch Add[B]	Add[A]	Edit[E]	Insert[1]		Delete[D] Save[5] Quit[0] Digital Out		

- 6. Similar to PecConfig, you can select and add the parameters.
  - Batch Add[B]: add parameters in batches.

**Select All**: Click to select all parameters that displayed in the table.

Select parameters in batches: press Ctrl and click the parameters you want to select.

Select None: After selected all parameters, click Select None to cancel all of them.

evice List:	Source List:	Select None	Select All	Synchr	onize
⊡. Add System Node 1	Name	Туре	No.	ID	
	Va(V)	Analog	0	977	
PMC-680	VE(V)	Analog	1	978	
	Vc(V)	Analog	2	979	
PMC-6802	Vin avg(V)	Analog	3	980	
Formula	V4(V)	Analog	4	981	
Formula	Vab(V)	Analog	5	982	
	Vbc(V)	Analog	6	983	
	Vca(V)	Analog	7	984	
	VII avg(V)	Analog	8	985	
	Ia(A)	Analog	9	986	
	Ib(A)	Analog	10	987	
	Ic(A)	Analog	11	988	
	I avg(A)	Analog	12	989	
	I4(A)	Analog	13	990	
	15(A)	Analog	14	991	
	kW a	Analog	15	992	
	kW b	Analog	16	993	
	kW c	Analog	17	994	
	kW Total	Analog	18	995	
	kvar a	Analog	19	996	
	kvar b	Analog	20	997	
	kvar c	Analog	21	998	-

**Synchronize**: synchronize one device's configuration to another same type of device. Only the following conditions are met and then you can use **Synchronize** function:

- In Site List area, at least one device has been selected.
- In Candidate Device List, at least one device's type is same with selected device of Site List area.
- In Selected Device List, at least one data source has been selected.

Synchronize Configuration				×
Site List:	Candidate Device List:		Selected Device I	List:
⊡ Add System Node 1	Name		Name	ID
pmc-680i	PMC-6802		PMC-6802	2
		$\leq$		
		<u>[]</u>		
		~ ~	-	
			L	
1				
			Ok	Cancel

• Add a single parameter at a time. Click Add[A], select data source including Real-time Source and Node Status and click Select.

Select Realtime Source XXXXXXX				×
Realtime Source Node Status				
🖃 🖳 Add System Node1	Name	Туре	Code	•
😟 💼 pmc-680i	Va(V)	Analog	977	
🚊 🖻 pmc-680i	Vb(V)	Analog	978	
PMC-6802	Vc(V)	Analog	979	
- Formula	Vin avg(V)	Analog	980	
	V4(V)	Analog	981	
	Vab(V)	Analog	982	
	Vbc(V)	Analog	983	
	Vca(V)	Analog	984	
		Analog	985	
	Ta(A)	Analog	986	
	ID(A)	Analog	367	
	L sug(A)	Analog Analog	300	
		Analog	990	
	15(4)	Analog Analog	991	
	kw a	ánalog	992	
	kW h	Analog	993	
	kW c	Analog	994	
	kW Total	Analog	995	
	kvar a	Analog	996	-
,	,		Select	Close

(Optional) Click Edit to make alternation for existing configuration.
 Select a parameter and click Edit, you can change it into other parameters.

D.	Station	Site	Device	Source	Туре	Alias
	Add System Node 1	pmc-680i	PMC-680	Va(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Va(V)
	Add System Node 1	pmc-680i	PMC-680	Vb(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vb(V)
	Add System Node 1	pmc-680i	PMC-680	Vc(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vc(V)
	Add System Node 1	pmc-680i	PMC-680	VIn avg(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vin avg(V)
	Add System Node 1	pmc-680i	PMC-680	V4(V)	Analog	Add System Node 1.pmc-680i.PMC-680.V4(V)
	Add System Node1	pmc-680i	PMC-680	Vab(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vab(V)
	Add System Node1	pmc-680i	PMC-680	Vbc(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vbc(V)
	Add System Node1	pmc-680i	PMC-680	Vca(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vca(V)
	Add System Node 1	pmc-680i	PMC-680	VII avg(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vll avg(V)
	Add System Node 1	pmc-680i	PMC-680	Ia(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ia(A)
	Add System Node 1	pmc-680i	PMC-680	Ib(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ib(A)
	Add System Node 1	pmc-680i	PMC-680	Ic(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ic(A)
	Add System Node 1	pmc-680i	PMC-680	I avg(A)	Analog	Add System Node 1.pmc-680i.PMC-680.I avg(A)
	Add System Node1	pmc-680i	PMC-680	14(A)	Analog	Add System Node 1.pmc-680i.PMC-680.I4(A)
	Add System Node1	pmc-680i	PMC-680	V2 Unbalance(%)	Analog	Add System Node 1.pmc-680i.PMC-680.V2 Unbalance(%)
	Add System Node1	pmc-680i	PMC-680	V0 Unbalance(%)	Analog	Add System Node1.pmc-680i.PMC-680.V0 Unbalance(%)
	Add System Node 1	pmc-680i	PMC-680	15 Demand(A)	Analog	Add System Node 1.pmc-680i.PMC-680.I5 Demand(A)
	Add System Node 1	pmc-680i	PMC-680	kWa Demand(kW)	Analog	Add System Node 1.pmc-680i.PMC-680.kWa Demand(kW)
	Add System Node 1	pmc-680i	PMC-680	kWb Demand(kW)	Analog	Add System Node 1.pmc-680i.PMC-680.kWb Demand(kW)
	Add System Node 1	pmc-680i	PMC-680	kWc Demand(kW)	Analog	Add System Node 1.pmc-680i.PMC-680.kWc Demand(kW)
	Add System Node 1	pmc-680i	PMC-680	kW Total Demand(kW)	Analog	Add System Node 1.pmc-680i.PMC-680.kW Total Demand(kW)
	Add System Node 1	pmc-680i	PMC-680	kvara Demand(kVar)	Analog	Add System Node 1.pmc-680i.PMC-680.kvara Demand(kVar)
	Add System Node 1	pmc-680i	PMC-680	kvarb Demand(kVar)	Analog	Add System Node 1.pmc-680i.PMC-680.kvarb Demand(kVar)
	Add System Node1	pmc-680i	PMC-680	kvarc Demand(kVar)	Analog	Add System Node 1.pmc-680i.PMC-680.kvarc Demand(kVar)
	Add System Node1	pmc-680i	PMC-680	kvar Total Demand(kVar)	Analog	Add System Node 1.pmc-680i.PMC-680.kvar Total Demand(kVar)
	Add System Node1	pmc-680i	PMC-680	kVAa Demand(kVa)	Analog	Add System Node 1.pmc-680i.PMC-680.kVAa Demand(kVa)
	La A Julion	LATER A	C-44/01	TaxaatM		Delete [0] Count[0] Delete [0]
			E E E E E E E E E E E E E E E E E E E			LICE AND A

- (Optional) Click Insert to insert a parameter at a specific location.
   Select a selected parameter and click Insert, you can insert another parameter at this location.
- 9. (Optional) Delete parameters.

Select a parameter and click **Delete**, and then confirm the operation.

Delete parameters in batches by pressing **Shift** or **Ctrl** while you select parameters, and then click **Delete.** 



10. (Optional) Add Digital Out parameters.

Before adding Digital Out parameters, please make sure you have added Digital Out Source via PecConfig.

1) Click Digital Out.

Digital	Out Source Confi	guration				<b>×</b>
No.	Station	Digital Out Source	Status Source		Alias	
			1			
	Add[A]	Edit[E]	Insert[[]	Delete[D]	Save[5]	Quit[Q]

## 2) Click ADD[A].

Select Digital Out	<b>—</b> ×
Add System Node1	-
New Digital Out1 New Digital Out2	
Select	🖥 Evit
V Jeiebt	

- 3) Choose DO source and click Select.
- 4) Select Realtime Source or Node Status parameters.

Select Realtime Source XXXXXXX				<b>e</b>
Realtime Source Node Status				
🖃 🖳 Add System Node1	Name	Туре	Code	
🖨 🖻 pmc-680i	Va(V)	Analog	1	
PMC-680	Vb(V)	Analog	2	
	VelVj	Analog	3	
Eormula	Vin avg(V)	Analog	4	
1 onnuid	V4(V)	Analog	5	
	Vab(V)	Analog	6	
	Vbc(V)	Analog	7	
	Vca(V)	Analog	8	
	VII avg(V)	Analog	9	
	Ia(A)	Analog	10	
	Ib(A)	Analog	11	
	Ic(A)	Analog	12	
	Lavg(A)	Analog	13	
	14(A)	Analog	14	
	15(A)	Analog	15	
	kW a	Analog	16	
	kW b	Analog	17	
	kW c	Analog	18	
	kW Total	Analog	19	
	kvara 🛛	Analog	20	
,	,			_
			🗸 🗸 Selec	:t 👖 Close

- 5) Other operations such as Edit, Insert and Delete are similar as corresponding operations of single parameter, please refer to **steps 6 to 8** above.
- 6) Click **Save** to save the configuration and click **Quit** to exit Digital Out parameter Configuration interface.
- 11. Put real-time source under PecStarMeasure Branch.

Select a parameter, right-click and select **Put Real-time Source under PecStarMeasure Branch**. Then on the **Add Items** page of 3<sup>rd</sup> party OPC client, the branch node **PecStarMeasure** will be created under **PecStar3.00PCServer.1**.

	, courter coningutatio					
۱o.	Station	Site	Device	Source	Type	Alias
	Add System Node 1	pmc-680i	PMC-680	Va(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Va(V)
	Add System Node1	pmc-680i	PMC-680	Vb(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vb(V)
	Add System Node1	pmc-680i	PMC-680	Vc(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vc(V)
	Add System Node1	pmc-680i	PMC-680	VIn avg(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vln avg(V)
	Add System Node1	pmc-680i	PMC-680	V4(V)	Analog	Add System Node 1.pmc-680i.PMC-680.V4(V)
	Add System Node1	pmc-680i	PMC-680	Vab(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vab(V)
	Add System Node 1	pmc-680i	PMC-680	Vbc(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vbc(V)
	Add System Node 1	pmc-680i	PMC-680	Vca(V)	Analog	Add System Node 1.pmc-680i.PMC-680.Vca(V)
	Add System Node 1	pmc-680i	PMC-680	VII avg(V)	Analog	Add System Node1.pmc-680i.PMC-680.Vll avg(V)
	Add System Node1	pmc-680i	PMC-680	Ia(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ia(A)
0	Add System Node1	pmc-680i	PMC-680	Ib(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ib(A)
1	Add System Node 1	pmc-680i	PMC-680	Ic(A)	Analog	Add System Node 1.pmc-680i.PMC-680.Ic(A)
2	Add System Node1	pmc-680i	PMC-680	I avg(A)	Analog	Add System Node 1.pmc-680i.PMC-680.I avg(A)
3	Add System Node1	pmc-680i	PMC-680	I4(A)	Analog	Add System Node1.pmc-680i.PMC-680.I4(A)
4	Add System Node1	pmc-680i	PMC-680	15(A)	Analog	Add System Node 1.pmc-680i.PMC-680.I5(A)
5	Add System Node 1	pmc-680i	PMC-680	kW a	Analog	Add System Node 1.pmc-680i.PMC-680.kW a
6	Add System Node 1	pmc-680i	PMC-680	kW b	Analog	Add System Node1.pmc-680i.PMC-680.kW b
7	Add System Node 1	pmc-680i	PMC-680	kW c	Analog	Add System Node 1.pmc-680i.PMC-680.kW c
в	Add System Node1	pmc-680i	PMC-680	kW Total	Analog	Add System Node 1.pmc-680i.PMC-680.kW Total
9	Add System Node 1	pmc-680i	PMC-680	kvar a	Analog	Add System Node 1.pmc-680i.PMC-680.kvar a
0	Add System Node1	pmc-680i	PMC-680	kvar b	Analog	Add System Node 1.pmc-680i.PMC-680.kvar b
1	Add System Node 1	pmc-680i	PMC-680	kvar c	Analog	Add System Node 1.pmc-680i.PMC-680.kvar c
2	Add System Node 1	pmc-680i	PMC-680	kvar Total	Analog	Add System Node 1.pmc-680i.PMC-680.kvar Total
3	Add System Node 1	pmc-680i	PMC-680	kVA a	Analog	Add System Node1.pmc-680i.PMC-680.kVA a
4	Add System Node1	pmc-680i	PMC-680	kVA b	Analog	Add System Node 1.pmc-680i.PMC-680.kVA b
5	Add System Node1	pmc-680i	PMC-680	kVA c	Applea	Add System Nodel and 590; DMC 590 W/A d
6	Add System Node 1	pmc-680i	PMC-680	kVA Total	Batcl	h Add[B]
7	Add System Node 1	pmc-680i	PMC-680	PF a	A	(41
в	Add System Node1	pmc-680i	PMC-680	PF b	Addi	Aj
9	Add System Node 1	pmc-680i	PMC-680	PF c	Inser	t[]
)	Add System Node 1	pmc-680i	PMC-680	PF Total		
1	Add System Node1	pmc-680i	PMC-680	Freq(Hz)	Delet	te[D]
2	Add System Node1	pmc-680i	PMC-680	data Update Time		
3	Add System Node 1	pmc-680i	PMC-680	data Update flag	/ Dut F	Paal-time Source under PerStarMeasure Branch
4	Add System Node 1	pmc-680i	PMC-680	Va /Vab Overdeviation(%	V Full	t(%)
5	Add System Node1	pmc-680i	PMC-680	Vb /Vbc Overdeviation(%)	Analog	Add System Node 1.pmc-680i.PMC-680.Vb /Vbc Overdeviation(%)
6	Add System Node 1	pmc-680i	PMC-680	Vc /Vca Overdeviation(%)	Analog	Add System Node1.pmc-680i.PMC-680.Vc /Vca Overdeviation(%)
7	Add System Node 1	pmc-680i	PMC-680	Va /Vab Underdeviation	Analog	Add System Node 1.pmc-680i.PMC-680.Va /Vab Underdeviation(%)
8	Add System Node1	pmc-680i	PMC-680	Vb /Vbc Underdeviation(	Analog	Add System Node 1.pmc-680i.PMC-680.Vb /Vbc Underdeviation(%)
9	Add System Node 1	pmc-680i	PMC-680	Va / Vab Plt	Analog	Add System Node 1.pmc-680i.PMC-680.Va / Vab Plt

12. Click Save to save the configuration. After you add all the parameters, click Quit.

13. Click View. The Value should be the same with Front.exe (SCADA program).

#### **Ceiec Electric Technology**



🐻 View							
No.	Station	Site	Device	Source	Туре	Value	Alias
0	Add System	330	330	Vlnavg	Analog	220.11	Add System
1	Add System	330	330	Va	Analog	220.12	Add System
2	Add System	330	330	Vb	Analog	220.09	Add System
3	Add System	330	330	Vc	Analog	220.14	Add System

## **Chapter 4 DCOM Configuration**

After installed PecStar OPC Server, you need to do the DCOM Configuration to make other clients can remote connect to the server. DCOM stands for **Distributed Component Object Model**, is a proprietary technology for communication among software components distributed across networked computers. Here are the configuration steps.

 Click the Start > Search bar, input mmc -32 (on both 32-bit or 64-bit operating systems) and press Enter to open Microsoft Management Console, please refer to the figure below.

📸 Console1 - [Console Root]				- 0 <b>X</b>
File Action View Favorites V	Vindow Help			- 8 ×
Console Root	Name		Actions	
	There are no items to show	v in this view.	Console Root	<b>^</b>
			More Actions	•
	1		,	

2. Click File > Add/Remove Snap-in...

A start and a start	Conso	ole1 - [Console Root]			
	File	Action View Favorites Window	Help		_ 8 ×
4		New	Ctrl+N		
		Open	Ctrl+O		Actions
		Save	Ctrl+S	No. 1. Anna A	Console Root
		Save As		no items to show in this view.	More Actions
		Add/Remove Snap-in	Ctrl+M		
	-	Options		1	
		1 C:\Windows\\eventvwr.msc			
		2 C:\Windows\\compmgmt.msc			
		3 C:\Windows\\devmgmt.msc			
		4 C:\Windows\\services.msc			
		Exit			
5	_			,	
Enab	oles y	ou to add snap-ins to or remove them fr	om the sna	p-in console.	

3. Add the **Component Services**, and click **OK**.

nan-in	Vendor	*	Console Root	Edit Extensions
ActiveX Control	Microsoft Cor		Component Services	Remove
Certificates	Microsoft Cor.	E		
Component Services	Microsoft Cor			Move Up
Computer Management	Microsoft Cor			Maure Da
Device Manager	Microsoft Cor	Add	1	Move Down
Disk Management	Microsoft and.	~00 >	J	
Event Viewer	Microsoft Cor			
Folder	Microsoft Cor			
Group Policy Object Edi	. Microsoft Cor			
Internet Information S	Microsoft Cor			
Internet Information S	Microsoft Cor			
				Advanced
scription:				

4. Unfold the **Component Services**, right-click **My Computer** and click **Properties**.

🚡 Console1 - [Console Root\Compon	ent Services\Computers\My Computer]				
File Action View Favorites	Window Help	_ & ×			
Console Root	Name	Actions			
Component Services     COM+ Applications     My Computer					
Computers	DCOM Config	More Actions			
D CON Refresh a	Il components				
▷ CO ▷ Run	•				
▷ ☐ Distr New Win	dow from Here				
New Task	cpad View				
Export Lis					
Propertie	5				
Help					
×					
Opens the properties dialog box for the	current selection.				

 Click COM Security > Access Permission > Edit Limit... > Security Limit, and set Everyone, Distributed COM Users' permission as Allow, please refer to the figures below. Click OK to save configuration My Computer Properties

General Default Protocols

Access Permissions

? X

MSDTC

Options Default Properties COM Security MSDT0

	You may edit who is allowed def also set limits on applications that Caution: Modifying accur of applications to start, securely. Edit Lin Launch and Activation Permissions You may edit who is allowed by activate objects. You may also determine their own permissions.	ault access to applications. You may t determine their own permissions. ess permissions can affect the ability connect, function and/or run mits Edit Default default to launch applications or et limits on applications that ch and activation permissions can	
	Leam more about setting these properties of the setting th	mts Edit Default arties. K Cancel Apply	
Access Permission	? ×	Access Permission	? ×
Security Limits		Security Limits	
Group or user names:		Group or user names:	
Reformance Log Users (yany     Stributed COM Users (yany     ANONYMOUS LOGON	an-PC\Performance Log Users) in-PC\Distributed COM Users)	Performance Log Users (yanyan-PC\Defri     Distributed COM Users (yanyan-PC\Distri     & ANONYMOUS LOGON	ormance Log Users) buted COM Users)
	Add Remove		Remove
Permissions for Everyone	Allow Deny	Permissions for Distributed COM Users Allo	w Deny
Local Access		Local Access	
nemote Access			
Learn about access control and pe	missions	Leam about access control and permissions	
	OK Cancel	0	K Cancel

If you can't find **Everyone** or **Distributed COM Users** in the Group or user names, you can click **Add...** to open the Select Users or Groups dialog box. Then click the Advanced....

Select Users or Groups	? X
Select this object type:	
Users, Groups, or Built-in security principals	Object Types
From this location:	
YANYAN-PC	Locations
Enter the object names to select ( <u>examples</u> ):	
1	Check Names
Advanced OK	Cancel

Click **Find Now**, in the Search results, select **Everyone** and click **OK**. Use the same method to add Distributed COM Users.

Users, Groups, or	Built-in security princip	als	Obj	ect Types
From this location:				
YANYAN-PC				ocations
Common Queries	•			
Name: (	Starts with 🔻			Columns
Description:	Starts with 🔻			Find Now
Disabled ac	counts			Stop
Non expirin	g password			
Days since las	logon: 💌			<i>Ş</i> //
Search results:			ОК	Cancel
lame (RDN)	In Folder			

Select Users or Groups	8 ×
Select this object type:	
Users, Groups, or Built-in security principals	Object Types
From this location:	
YANYAN-PC	Locations
Common Queries	
Name: Starts with 💌	Columns
Description: Starts with 💌	Find Now
Disabled accounts	Stop
Non expiring password	
Days since last logon:	<i>9</i> 9
Search results:	OK Cancel
Name (RDN) In Folder	*
CREATOR O	
Cryptographic YANYAN-PC	E
Debugger Us TANTAN-PC	
Bistributed C YANYAN-PC	
Event Log Re YANYAN-PC	
Everyone XANXAN BC	
Guest YANYAN-PC	
RelpLibraryUp YANYAN-PC	
	<b>T</b>

Come back to COM Security settings. In the Launch and Activation Permissions, click Edit Limits...
 And set Everyone and Distributed COM Users as Allow. Click OK to save configuration

General	Options	Default I	Properties
Default Protocols	COM Se	ecurity	MSDTC
Access Permissions			
You may edit who also set limits on a	o is allowed default ac applications that deter	cess to applicatio mine their own pe	ns. You ma missions.
Caution: of applic securely	Modifying access per ations to start, conner	missions can affe ct, function and/o	ct the ability r run
	Edit Limits	<u>E</u> dit [	Default
aunch and Activat	ion Permissions		
You may edit who activate objects. determine their ov	o is allowed by default You may also set limit: wn permissions.	to launch applica s on applications t	tions or hat
Caution: affect th and/or n	Modifying launch and e ability of application un securely.	activation permis s to start, connect	sions can t, function
	Edit Limits	Edit [	<u>)</u> efault
am more about <u>sett</u>	ing these properties.		

Launch and Activation Permission	8 ×	Launch and Activation Permissio	on	? ×
Security Limits		Security Limits		
Group or user names:		Group or user names:		
Everyone     Administrators (yanyan-PC\Administrators)		Administrators (yanyan-PC	\Administrators)	
Reformance Log Users (vanyan-PC\Perform	nance Log Users)	Reformance Log Users (v	anyan-PC\Performanc	ce Log Users)
Add	Remove		Add	Remove
Permissions for Everyone Allow	Deny	Permissions for Distributed CON Users	l Allow	Deny
Local Launch 🔽		Local Launch	$\checkmark$	
Remote Launch		Remote Launch	1	
Local Activation		Local Activation		
Remote Activation		Remote Activation	V	
Learn about access control and permissions		Learn about access control and	permissions	
ОК	Cancel		ОК	Cancel

7. Come back to **COM Security** settings. Click the **Edit Default** in **Access Permissions**.

My Computer Properties			? ×					
General	Options	Defa	ult Properties					
Default Protocols	Default Protocols COM Security							
Access Permissions	Access Permissions							
You may edit who is allowed default access to applications. You may also set limits on applications that determine their own permissions.								
Caution: Mod of application securely.	difying access pem ns to start, connect	nissions can a , function and	affect the ability d/or run					
	Edit <u>L</u> imits	Ē	dit Default					
Launch and Activation Permissions You may edit who is allowed by default to launch applications or activate objects. You may also set limits on applications that determine their own permissions.								
Caution: Mod affect the ab and/or run se	Caution: Modifying launch and activation permissions can affect the ability of applications to start, connect, function and/or run securely.							
(	Edit Limits	Ec	dit <u>D</u> efault					
Leam more about <u>setting these properties</u> .								
	ОК	Cancel	Apply					

In the Access Permission dialog box, add the Distributed COM Users.

Access Permission	?	x
Default Security		
Group or user names:		
Listributed COM Users (yanyan-PC\Distributed CO	M Use	rs)
SELF		
Administrators (vanyan-PC\Administrators)		
Add	Remov	'e
Permissions for Distributed COM	Door	
Remote Access		
Learn about access control and permissions		
ОК	Ca	ncel

8. Come back to **COM Security** settings. Click **Edit Default** in **Launch and Activation Permissions**, add the **Distributed COM Users** and set it as below. Click **OK** to save configuration

My Computer Properties	ηí	L	aunch and Activation Permission		? ×
General         Options         Default Properties           Default Protocols         COM Security         MSDTC           Access Permissions         You may edit who is allowed default access to applications. You may			Default Security Group or user names:		]
also set limits on applications that determine their own pemissions. Caution: Modifying access permissions can affect the ability of applications to start, connect, function and/or run securely.			Administrators (yanyan-PCVa Distributed COM Users (yany INTERACTIVE	dministrators) an-PC\Distributed	I COM Users)
Edit Limits Edit Default Launch and Activation Permissions You may edit who is allowed by default to launch applications or activate objects. You may also set limits on apolications that			Permissions for Distributed COM	Add	Remove
determine their own permissions. Caution: Modifying launch and activation permissions can affect the ability of applications to start, connect, function and/or run securely.			Local Launch Remote Launch Local Activation		
Edit Lijmts Edit Default			Remote Activation	V	
Learn more about setting these properties.			Learn about access control and p	emissions	
OK Cancel Apply		l		ОК	Cancel

 Come back to Console and navigate to Component Service > Computers > My Computer > DCOM Config, set the OpcErum properties. On the right side of the list, right click OpcErum, and click Properties.



a) Here is the **General** settings.

OpcEnum Properties	8 ×					
General Location Security Endpoints Identity						
General properties of th	is DCOM application					
Application Name:	OpcEnum					
Application ID:	{13486D44-4821-11D2-A494-3CB306C10000}					
Application Type:	Local Service					
Authentication Level:	None					
Service Name:	OpcEnum					
Lean more about <u>setting mese properties</u> .						
OK Cancel Apply						

b) Click Security.

OpcEnum Properties	? ×
General Location Security Endpoints Identity	
Launch and Activation Permissions	
🔘 Use Default	
Customize	Edit
Access Permissions	
© Use Default	
<ul> <li>Customize</li> </ul>	Edit
Configuration Permissions	
© Use Default	
Oustomize	Edit
Learn more about <u>setting these properties</u> .	
OK Car	ncel Apply

c) In the Launch and Activation Permissions, click Edit and adjust the settings like this. Click

Launch and Activation Permissio	n	? ×	Launch and Activation Permissio	n	? ×
Security			Security		
Group or user names:			Group or user names:		
& Everyone			& Everyone		
& SYSTEM			SYSTEM 8		
🛛 🦓 Administrators (yanyan-PC)	Administrators)		😣 Administrators (yanyan-PC\	Administrators)	
🎎 Distributed COM Users (yan	yan-PC\Distributed	COM Users)	Stributed COM Users (yan	yan-PC\Distributed	COM Users)
& INTERACTIVE			& INTERACTIVE		
	Add	Remove		Add	Remove
			Permissions for Distributed COM		
Permissions for Everyone	Allow	Deny	Users	Allow	Deny
Local Launch	<b>V</b>		Local Launch	<b>V</b>	
Remote Launch	1		Remote Launch	<b>V</b>	
Local Activation	1		Local Activation	<b>J</b>	
Remote Activation	1		Remote Activation	<b>V</b>	
Leam about access control and	permissions		Learn about access control and	permissions	
	ОК	Cancel		ОК	Cancel

**OK** to save configuration

d) In the Access Permissions, click Edit and adjust the settings like this. Click OK to save configuration

Access Permission	Access Permission
Security	Security
Group or user names: State COM Users (yanyan-PC\Distributed COM Users) State SELF System	Group or user names: Composition of the set
Add     Remove       Permissions for Everyone     Allow     Deny       Local Access     Image: Comparison of the second	Add Remove Pemissions for Distributed COM Users Allow Deny Local Access I Remote Access I I
Leam about access control and permissions OK Cancel	Leam about access control and permissions OK Cancel

e) In the **Configuration Permissions**, click **Edit** and adjust the settings like this. Click **OK** to save configuration

Change Configuration Permission		? <mark>×</mark>	
Security			
Group or user names:			
& CREATOR OWNER			
SYSTEM			
Administrators (yanyan-PC\Ad	lministrators)		
Distributed COM Users (yanya	an-PC\Distributed	COM Users)	
Users (vanyan-PC \Users)			
	Add	Remove	
Permissions for Distributed COM Users	Allow	Denv	
Full Control			
Read	<b>v</b>		
Special permissions			
click Advanced.	ed settings,	Advanced	
Learn about access control and pe	missions		
	ОК	Cancel	1
			,

f) Come back to OpcEnum Properties > Identity. Set it as The interactive user, if you can't set it as The interactive user, please set it as The system account (services only). Click OK to save configuration

OpcEnum Properties			? ×			
General Location Securit	y Endpoints	Identity				
Which user account do you want to use to run this application?						
The interactive user.						
The launching user.						
This user.						
User:			Browse			
Password:						
Confirm password:						
The system account (see	ervices only).					
Learn more about <u>setting th</u>	ese properties.					
	ОК	Ca	ancel Apply			

10. Set the PecStar3 OPC Data Access 2.0 properties.



a) Here is the **General** settings.

Pe	PecStar3 OPC Data Access 2.0 Properties						
	General Location Security Endpoints Identity						
	General properties of th	is DCOM application					
	Application Name:	PecStar3 OPC Data Access 2.0					
	Application ID:	{5DDE5DF9-ED75-44F2-8945-E52FF91EB74E}					
	Application Type:	Local Server					
	Authentication Level:	None					
	Local Path:	C:\CET\Common\PecsOPCServer.exe					
	Learn more about <u>setting these properties</u> .						
	OK Cancel Apply						

b) Adjust the Security settings like this. Click OK to save configuration

PecStar3 OPC Data Access 2.0 Properties	? <mark>×</mark>
General Location Security Endpoints Identity	
Launch and Activation Permissions	
⊚ Use Default	
<ul> <li>Customize</li> </ul>	Edit
Access Permissions	
Use Default	
Oustomize	Edit
Configuration Permissions	
🔘 Use Default	
Oustomize	Edit
Leam more about setting these properties.	
OK Car	Apply

c) Click Edit in Launch and Activation Permissions, adjust it like this. Click OK to save configuration

Launch and Activation Permission	? ×	Launch and Activation Permission		? ×
Security		Security		
Group or user names:		Group or user names:		
& SYSTEM		SYSTEM		
& Administrators (yanyan-PC\Administrator	s)	& Administrators (yanyan-PC\A	dministrators)	
A Distributed COM Users (yanyan-PC\Dist	ributed COM Users)	Distributed COM Users (yany	an-PC\Distributed	COM Users)
Everyone		Sector Se		
& INTERACTIVE		& INTERACTIVE		
Add	. Remove		Add	Remove
		Permissions for Distributed COM		
Permissions for Everyone A	low Deny	Users	Allow	Deny
Local Launch		Local Launch	$\checkmark$	
Remote Launch		Remote Launch	$\checkmark$	
Local Activation		Local Activation	$\checkmark$	
Remote Activation		Remote Activation	$\checkmark$	
Learn about access control and nemissions		Learn about access control and p	omissione	
		Learn about access control and p	CITIISSIONS	
	OK Cancel		ОК	Cancel

d) Click Edit in Access Permissions, adjust it like this. Click OK to save configuration

Access Permission	Access Permission
Security Group or user names: Solution (Security Constraints) Solution (Security Constraints) S	Security Group or user names: Security Group or user names: Security Security Security Group or user names: Security
& SYSTEM & Administrators (yanyan-PC\Administrators) Add Remove	Administrators (varyan-PC\Administrators)         Add
Permissions for Everyone Allow Deny	Permissions for Distributed COM Users Allow Deny
Local Access	Local Access
Leam about access control and pemissions OK Cancel	Leam about access control and pemissions OK Cancel

e) Click Edit in Configuration Permissions, adjust it like this. Click OK to save configuration.

Change Configuration Permission		? <mark>x</mark>		
Security				
Group or user names:				
& CREATOR OWNER				
SYSTEM     SM Administrators (vanvan-PC\Ad	ministrators)			
Listributed COM Users (yanya	an-PC\Distributed	COM Users)		
& Users (yanyan-PC\Users)				
		Demons		
Permissions for Distributed COM	Add	Remove		
Users	Allow	Deny		
Full Control	1			
Read	<b>v</b>			
Special permissions				
For special permissions or advance click Advanced.	ed settings,	Advanced		
Leam about access control and permissions				
	ОК	Cancel		

11. Come back to **PecStar3 OPC Data Access 2.0 properties**, in the **Identity**, set it as **The interactive user**. If you can't set it as **The interactive user**, please set it as **The system account (services only)**.

Click **OK** to save configuration.

PecStar3 OPC Data Access 2.0 Properties				
General Location Security Endpoints Identity				
Which user account do you want to use to run this application?				
The interactive user.				
○ The launching user.				
◎ This user.				
User: Browse				
Password:				
Confirm password:				
The system account (services only).				
Leam more about <u>setting these properties</u> .				
OK Cancel Apply				

## **Chapter 5 Configure Local Security Policy**

Here take Win7 as an example, other OS would be different and please refer to corresponding documentations.

1. Input **regedit** in **Star >** search bar to open Registry Editor and navigate to

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa

💣 Registry Editor						
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp						
Eile       Eilt         File       File         File	Name     Type <ul> <li>(Default)</li> <li>REG_SZ</li> <li>auditbasedirectories</li> <li>REG_DWORD</li> <li>auditbaseobjects</li> <li>REG_DWORD</li> <li>Authentication Packages</li> <li>REG_MULTI_SZ</li> <li>Bounds</li> <li>REG_BINARY</li> <li>crashonauditfail</li> <li>REG_DWORD</li> <li>disabledomaincreds</li> <li>REG_DWORD</li> <li>REG_DWORD</li> <li>Goword State</li> <li>REG_DWORD</li> <li>REG_DWORD</li> <li>Forceguest</li> <li>REG_DWORD</li> <li>REG_DWORD<td>Data           (value not set)           0x00000000 (0)           0x00000000 (0)</td></li></ul>	Data           (value not set)           0x00000000 (0)           0x00000000 (0)				
	Initialization       Initialization         Initialization       Initializa	00 00 0x00000001 (1) 0x00000230 (560) 0x00000001 (1) 0x00000000 (0) 0x00000000 (1) 0x00000001 (1) 0x00000001 (1) kerberos msv1_0 schannel w				
	<u> ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا</u>	- F				
Computer\HKEY_LOCAL_MACHINE\SYSTEM\Curr	ntControlSet\Control\Lsa					

2. Double-click and set value as 1.

Edit DWORD (32-bit) Value	<b>×</b>
Value name:	
everyoneincludesanonymous	
Value data: 1	Base Hexadecimal Decimal
	OK Cancel

3. After modification, you should restart your computer (it is important).

### **Chapter 6 Test Connection through OPC Client**

After configuration, you need to test if the configurations are valid via 3<sup>rd</sup> party OPC server such as Matrikon OPC Explorer. Please note that you should start PecOPC Sever first.

The following part illustrates how to test connection via Marikon OPC Client.

- 1. Download Matrikon OPC Server installation program and install it, please refer to Matrikon OPC Explorer documentation for detailed information.
- 2. Start Matrikon OPC Server.

MatrikonOPC Explorer - [Untitled]			
File Server Group Item View Help			
£ ◀ ☞ ◙   ☞ ☞ ¥ @ Ø			
Other Network Computers			
Localhost '\\UUDY-PC'     Get Matrikon.OPC.Simulation.1     Get PecStar3.OPCServer.1	唑 MatrikonOPC		
Network Neighborhood	OPC Server Connection Options		
	Add Tags Add Alarms		
	ikonOPC Explorer - [Untitled]		
	OPC Server OPC Security		
Server Info		Group Info	
	Did you know? Explorer Tip #2 You can configure any MatrikonOPC Server from OPC Explorer. Click For Details ? MatrikonOPC		

3. Add new Server by right-clicking Other Network Computer and selecting Add/Connect Server.



4. Input Host and select server, and then click **OK**.

Connecting to an OPC Server	
Host • TestPC1	
C Localhost	
•	
Server The combo box below contains a list of OPC Servers that are currently browsed.	Working
PerStar3 0PCServer 1	Please wait while MatrikonOPC Explorer is connecting to OPC Server: PecStar3.OPCServer. 1
<u> </u>	Cancel

On the server side, you can see the link number of client(s).

PecStar3 OPC Server			
2015/1/22 16:37:58			
Close			
Config	1 Client Link		
View			

5. Add Group. (Please refer to MarikonOPC documentation for more detailed information.)

AntrikonOPC Explorer - [Untitled*]	
File Server Group Item View Help	
2 💢 🗃 🖻 💣 🖬 🖬 🖉	
PecStar3.OPCServer.1	
Localhost '\/JUDY-PC'     General Control Contro Control Control Control Control Control	WatrikonOPC         OPC Server Connection Options         Supported OPC Interfaces         Ittings:         Image: Conceler         Image: Conconceler
Time <u>B</u> ias:	(GMT+08:00) Beijing, Chongqing, Urumqi, Hong Kong   Server does not support cation.
Server Info	Group Info
Server: PecStar3.0PCServer.1 Connected: Yes, on TESTPC1 State: Running Groups: 1 Total Items: 0 Current Local Time: 01/23/2015 3:03:31.586 PM Update Local Time: 12/30/1899 12:00:00.000 AI	MatrikonOPC • Global 24/7 Support • Vendor Neutral Training • Superior Client Care Free Downloads M © MatrikonOPC

6. Add Items, select item sources and click **OK**.



The available tags are parameters that you configured via PecOPCServer before, please refer to **Chapter 3 Configured PecStar OPC Server.** 

7. All selected parameters will be displayed on the right pane. Compare the values between PecStar OPC Server and MarikonOPC Client to verify the OPC configuration and connection.

🖪 Vie	w							
No.	Station	Site	Device	Source	Туре	Value	Alias	
0	CET	BS 2nd Floor	2F East Incomer	Va	Analog	228.880599975	CET.BS 2n	d Floor.2F Eas
1	CET	BS 2nd Floor	2F East Incomer	Vb	Analog	225.334777832	CET.BS 2n	d Floor.2F Eas
2	CET	BS 2nd Floor	2F East Incomer	Vc	Analog	226.236297607	CET.BS 2n	d Floor.2F Eas
3	CET	BS 2nd Floor	2F East Incomer	Vinavg	Analog	226.81721496582	CET.BS 2n	d Floor.2F Eas
4	CET	BS 2nd Floor	2F East Incomer	Vllab	Analog	393.008850097	CET.BS 2n	d Floor.2F Eas
5	CET	BS 2nd Floor	2F East Incomer	VIIbc	Analog	393.395874023	CET.BS 2n	d Floor.2F Eas
6	CET	BS 2nd Floor	2F East Incomer	Vlica	Analog	392.124114990	CET.BS 2n	d Floor.2F Eas
7	CET	BS 2nd Floor	2F East Incomer	Vllavg	Analog	392.842926025	CET.BS 2n	d Floor.2F Eas
8	CET	BS 2nd Floor	2F East Incomer	Ia	Analog	39.4814338684	CET.BS 2n	d Floor.2F Eas
로 州 CET-Te	, 🖅 🕜   🎬 🖄 it esplicet '\\]UDV PC'	12.1019	Contents of 'CET-To	est'	Value	Quality	Timestama	Status
3	Matrikon OPC Simula	tion 1	Item ID	PE Each Transmission	a stapping	Quality	1 Timestamp	Status
OK PecStar3 OPCServer 1		CET BS 2nd Floor	.2F East Incomer.1a	47 900242401122	Good, non-specific	01/23/201	Active	
ė 🌒 🖡	letwork Neighborhood		CET BS 2nd Floor	2F East Incomer Va	228 876373291016	Good, non-specific	01/23/201	Active
à- 🖳 🤦	ther Network Computer	rs	CET.BS 2nd Floor	.2F East Incomer.Vb	225.216217041016	Good, non-specific	01/23/201	Active
<u> </u>	TESTPC1		CET.BS 2nd Floor	.2F East Incomer.Vc	226.328857421875	Good, non-specific	01/23/201	Active
ĺ	- PecStar3.OPCSe	rver.1	CET.BS 2nd Floor	.2F East Incomer.V	392.02587890625	Good, non-specific	01/23/201	Active
CET-Test		CET.BS 2nd Floor	.2F East Incomer.V	392.818023681641	Good, non-specific	01/23/201	Active	
			CET.BS 2nd Floor	.2F East Incomer.V	394.087127685547	Good, non-specific	01/23/201	Active
			CET.BS 2nd Floor	.2F East Incomer.V	392.341125488281	Good, non-specific	01/23/201	Active
			CET.BS 2nd Floor	.2F East Incomer.V	226.807144165039	Good, non-specific	01/23/201	Active

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