

**WinCC Explorer And
KepServer Communication
With S7-200 PLC**



1. INTRODUCTION

1.1 Purpose

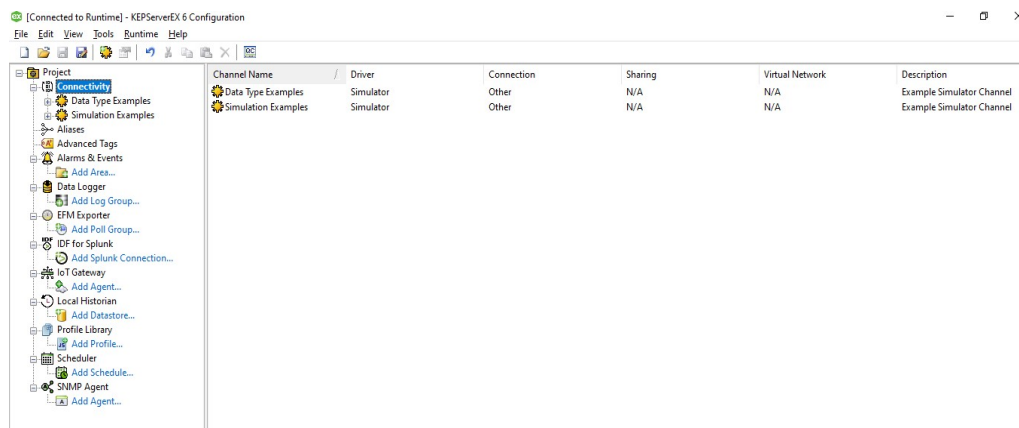
This document describes the KepServer and S7-200 PLC configuration in WinCC Explorer V8.0.

1.2 Pre-Requisites.

- KepServer Software.
-(\\192.168.1.200\Softwares\KepServer)
- Step-7 Micro/Win Software.
-(\\ICP-BACKUP\Softwares\Siemens\Microwin ver4.0)
- WinCC Explorer.
-(\\192.168.1.200\Softwares\Siemens\WinCC\WinCC_V8_0)
- If we are communicating over ethernet cable Ethernet module(CP-243-1) shall be installed.
- MPI/PPI cable.

1.3 KepServer Configuration

Open the KepServer software, a window shown below will appear.

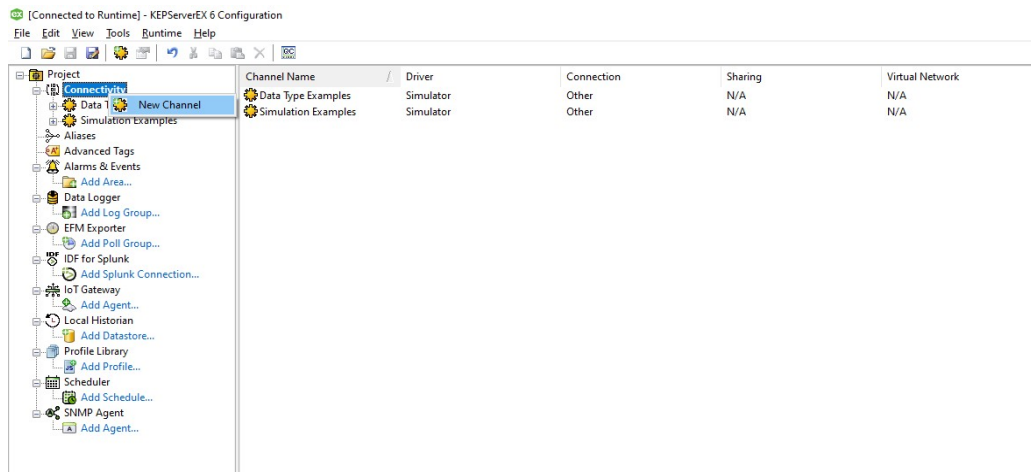


Right click on the Connectivity to add new channel.

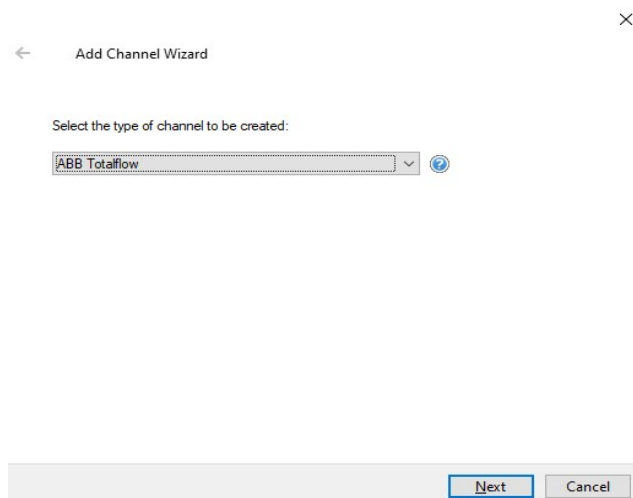


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From the add channel Wizard, select the type of channel to created.



Select Siemens TCP/IP Ethernet,click on NEXT.





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← Add Channel Wizard ×

Select the type of channel to be created:

Siemens TCP/IP Ethernet 



Specify identity and click Next.

×
Add Channel Wizard

Specify the identity of this object.

Name:

Channel1 

Select the network adapter,click on Next.



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Add Channel Wizard

Specify the name of a network adapter to bind or allow the OS to select the default.

Network Adapter:

Default

Next

Cancel

click Next upto Finish section appears.

Add Channel Wizard

Identification	
Name	Channel1
Description	
Driver	Siemens TCP/IP Ethernet
Diagnostics	
Diagnostics Capture	Disable
Tag Counts	
Static Tags	0
Ethernet Settings	
Network Adapter	Default
Write Optimizations	
Optimization Method	Write Only Latest Value for All Tags
Duty Cycle	10

Finish

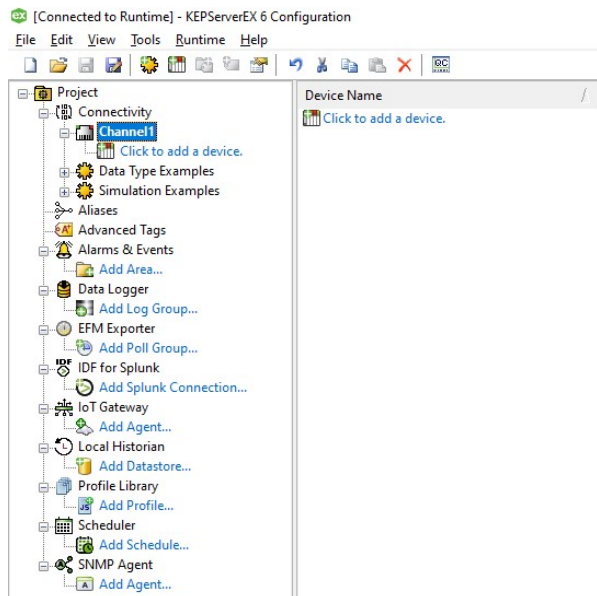
Cancel

Following the completion of channel addition proceed further for the device configuration.



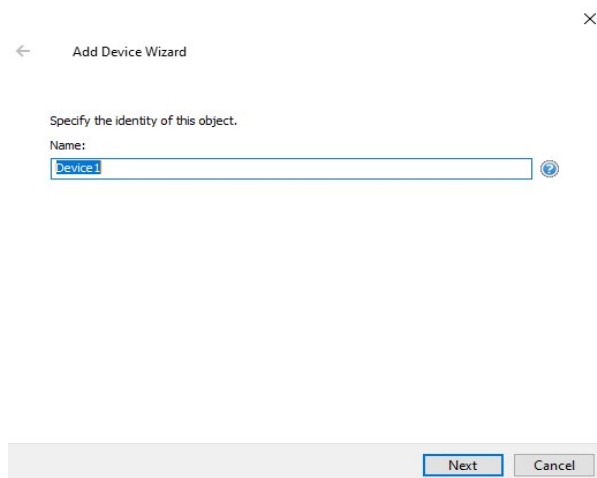
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Right click on the Channel to add new device or select 'Click to add a device'.

Enter device name and click on Next.



Select the device, click on Next.



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Add Device Wizard

Select the specific type of device associated with this ID. Options depend on the type of communications in use.

Model:

S7-200 

Next

Cancel


Enter device ID(IP address) of the device.



Add Device Wizard

Specify the device's driver-specific station or node.

ID:

255.255.255.255 

Next

Cancel

Set the TCP/IP port number.



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← Add Device Wizard

Set the TCP/IP port number configured for this device.

Port Number:

102

Enter the device port number where the NetLink adapter is connected.

MPI ID:

0

Next

Cancel

Complete the configuration by clicking on Finish.

← Add Device Wizard

Identification	
Name	Device1
Description	
Driver	Siemens TCP/IP Ethernet
Model	S7-200
Channel Assignment	Channel1
ID	192.168.1.1
Operating Mode	
Data Collection	Enable
Simulated	No
Tag Counts	
Static Tags	0
Scan Mode	
Scan Mode	...

Finish

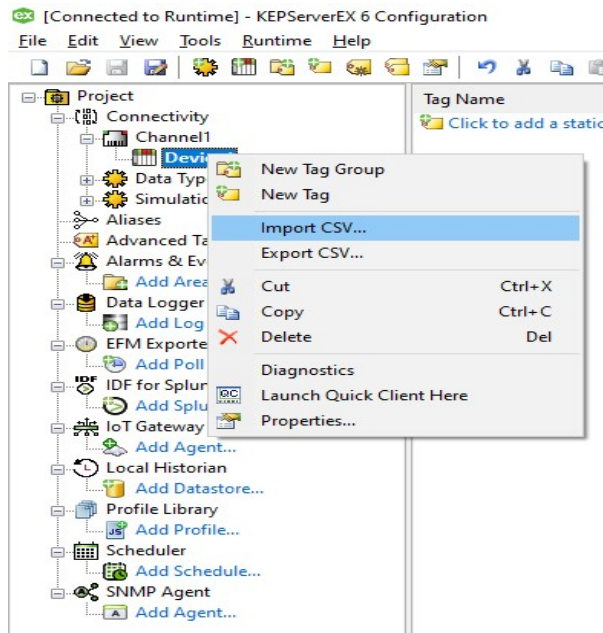
Cancel

Tags can be imported in CSV format, right click on the device to import.

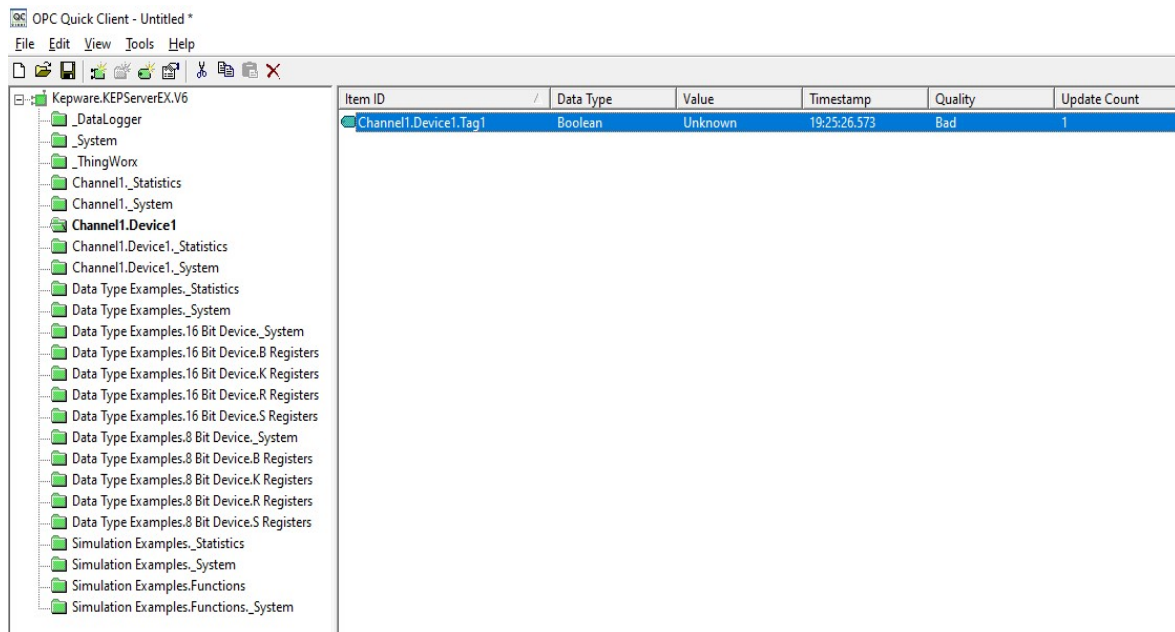


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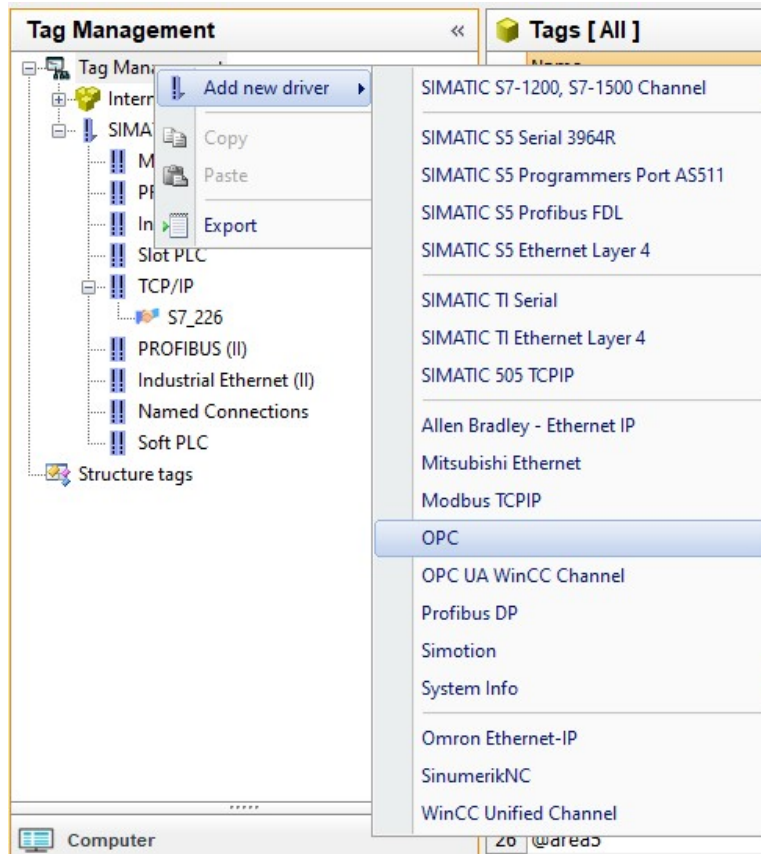


Once the tag import is completed, click on the OPC Quick Client and select the device from list.

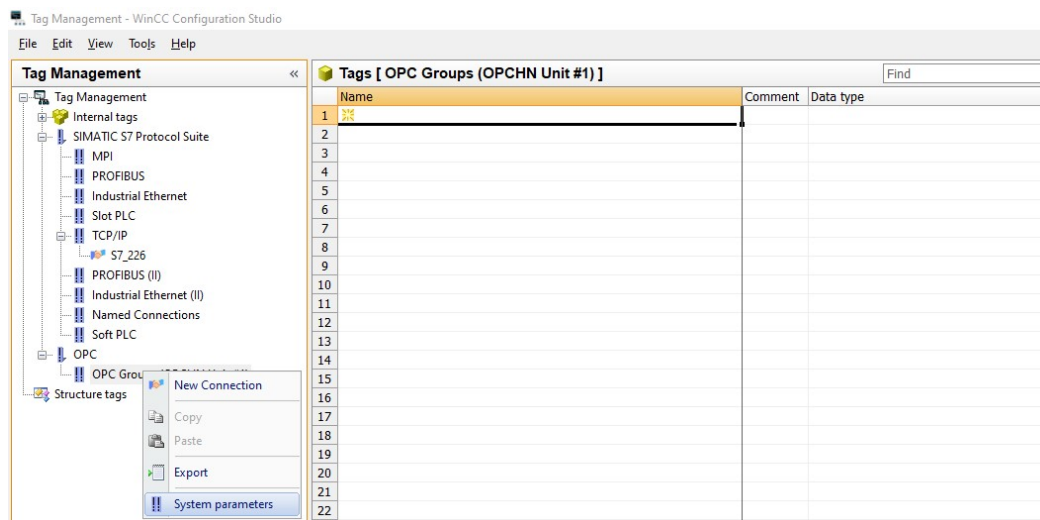


If the connection between the PLC and server is proper the quality of the tags will change to GOOD.

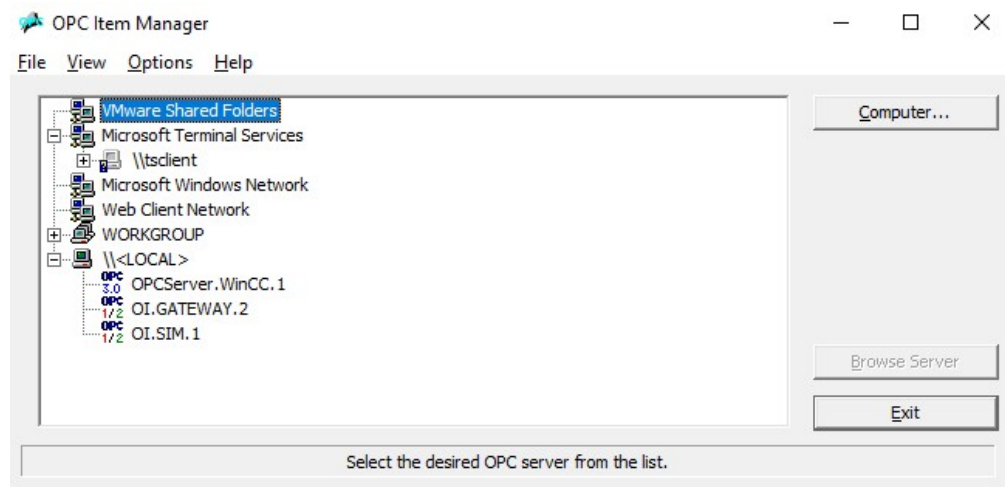
In the WinCC tag management add new OPC driver.



Right click on the OPC Group and select system parameters.



Select the server from the window shown below.



After selecting the server, click on Browse server to add tags.

1.4 Reference links

Refer the link for kepServer configuration via PPI cable.

- <https://www.youtube.com/watch?v=-gfkG4LfsyA>