

DOCUMENTATION FOR: ABCIP CONFIGURATION

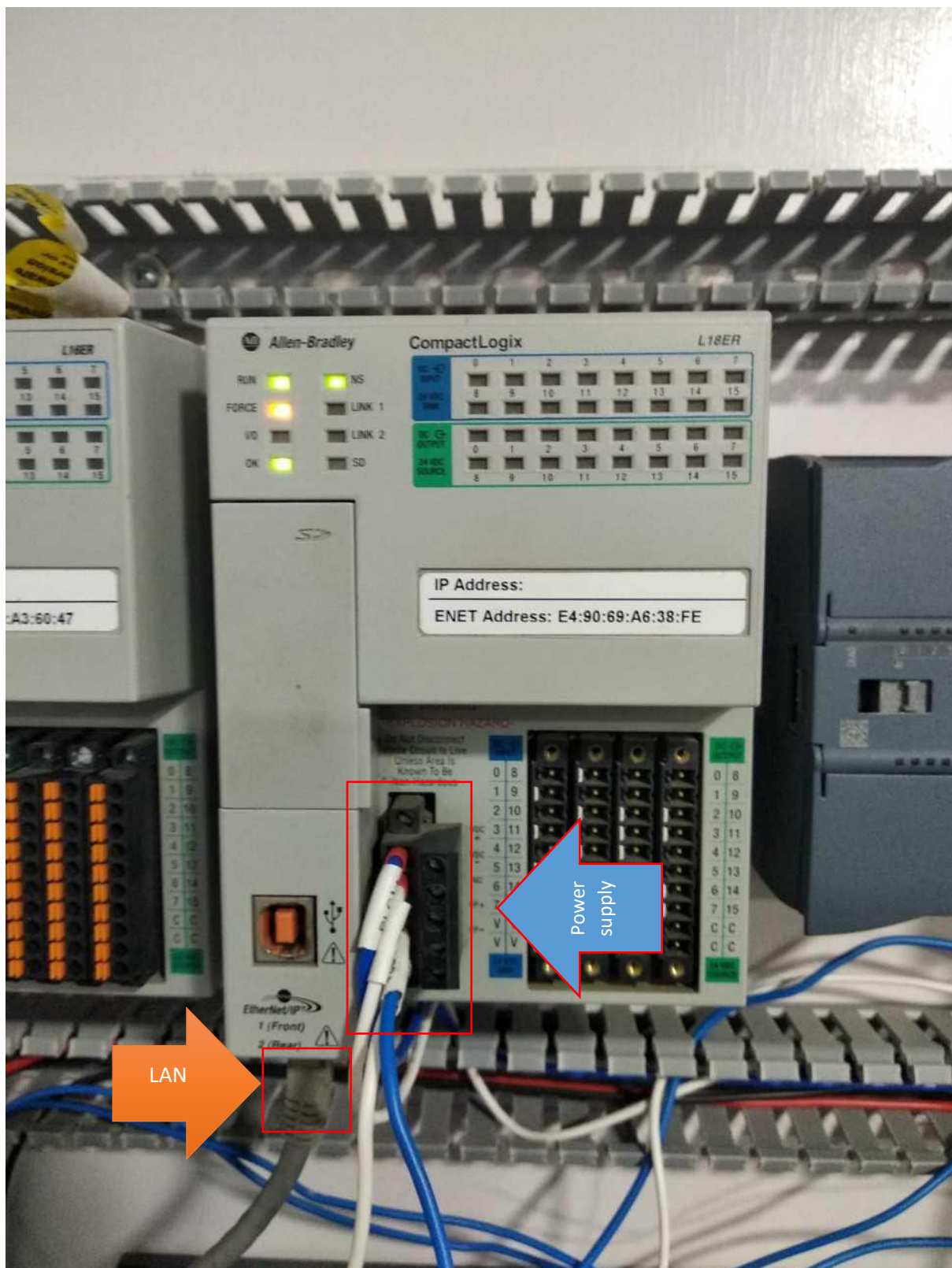
Prepared by
ASHLIN ANTONY

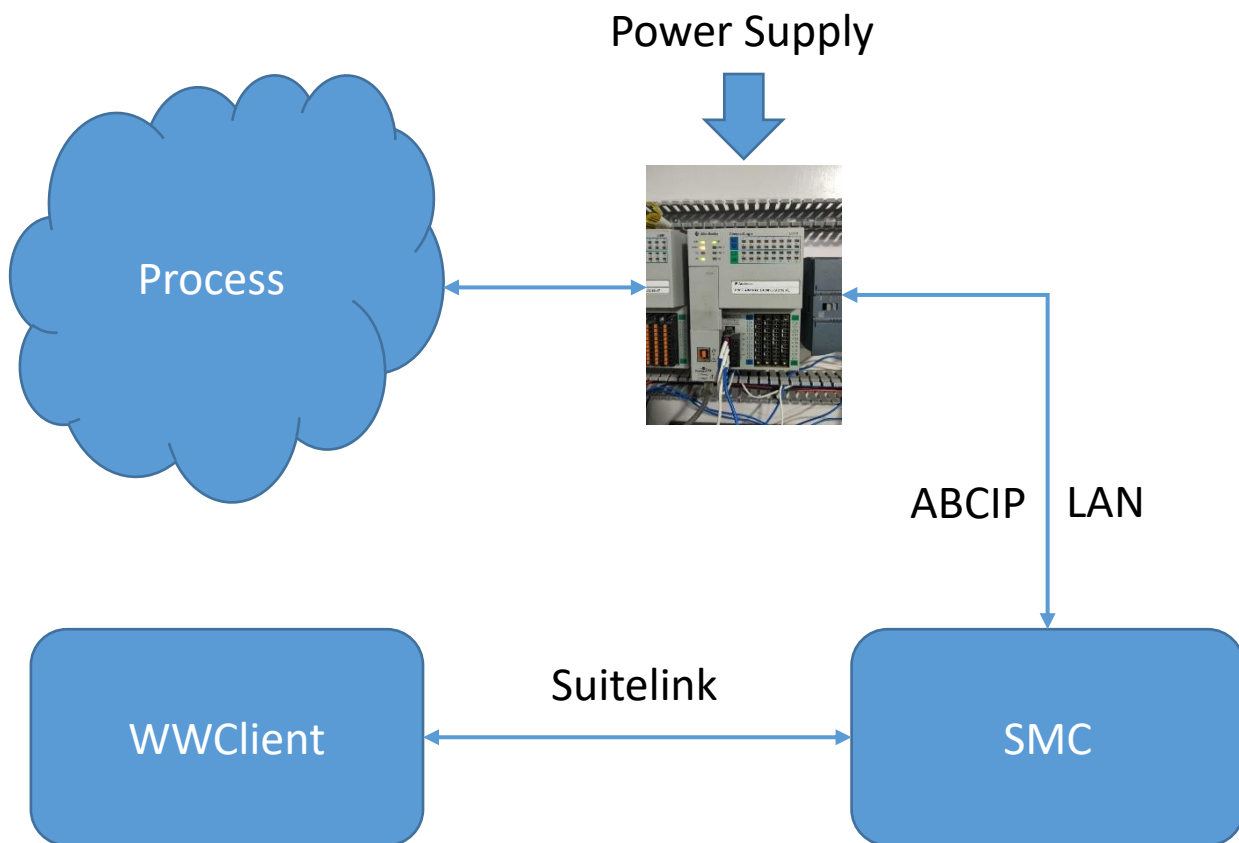
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OI ABCIP CompactLogix Configuration

Allen-Bradley Compact logix Hardware Setup





The Wonderware ABCIP OI (Operations Integration) Server is a Microsoft Windows application that allows client applications direct and indirect access to Allen-Bradley families of ControlLogix, GuardLogix, FlexLogix, CompactLogix, SoftLogix 5800, MicroLogix, PLC-5, and SLC500 controllers.

The OI Server does not require any Rockwell Software RSLinx™ package

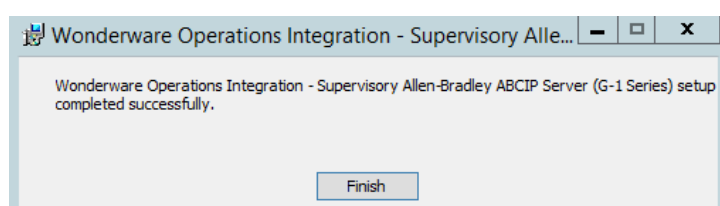
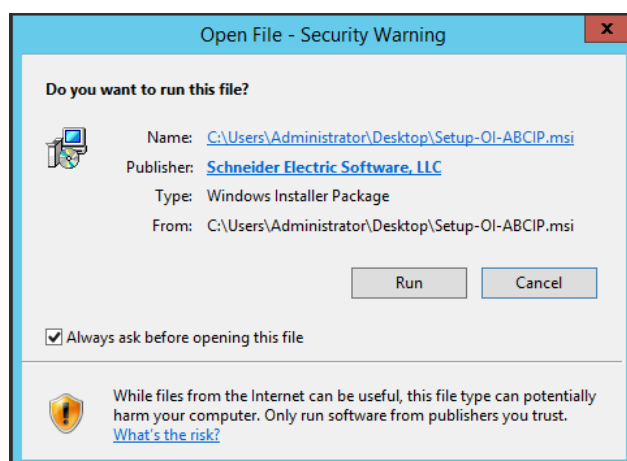
The ABCIP OI Server communicates with supported devices either directly or indirectly across the following device networks:

- ControlNet
- Data Highway 485 (DH485)
- Data Highway Plus (DH+)
- DeviceNet
- Ethernet

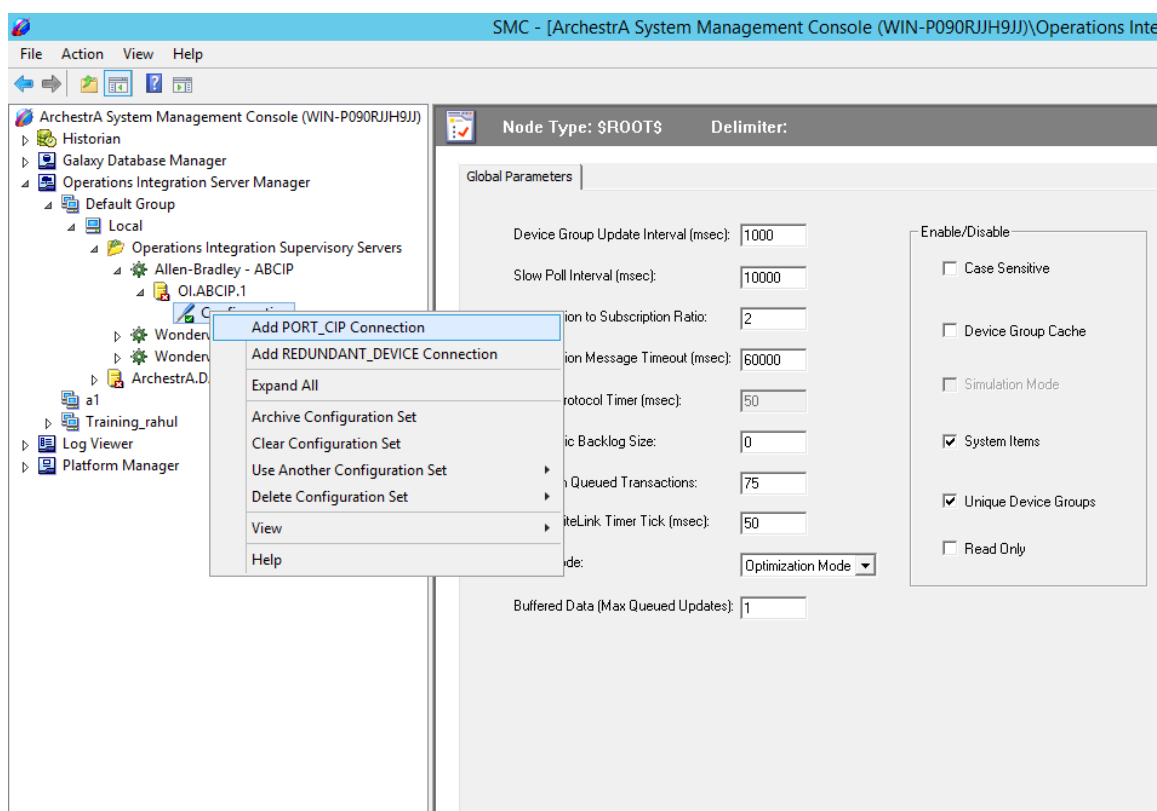
The ABCIP OI Server will provide direct and indirect connectivity to the following Allen-Bradley controllers:

- ControlLogix Controllers
- GuardLogix Controllers
- SoftLogix 5800 Controllers
- CompactLogix Controllers
- FlexLogix Controllers
- MicroLogix Controllers
- PLC-5 Controllers
- SLC500 Controllers

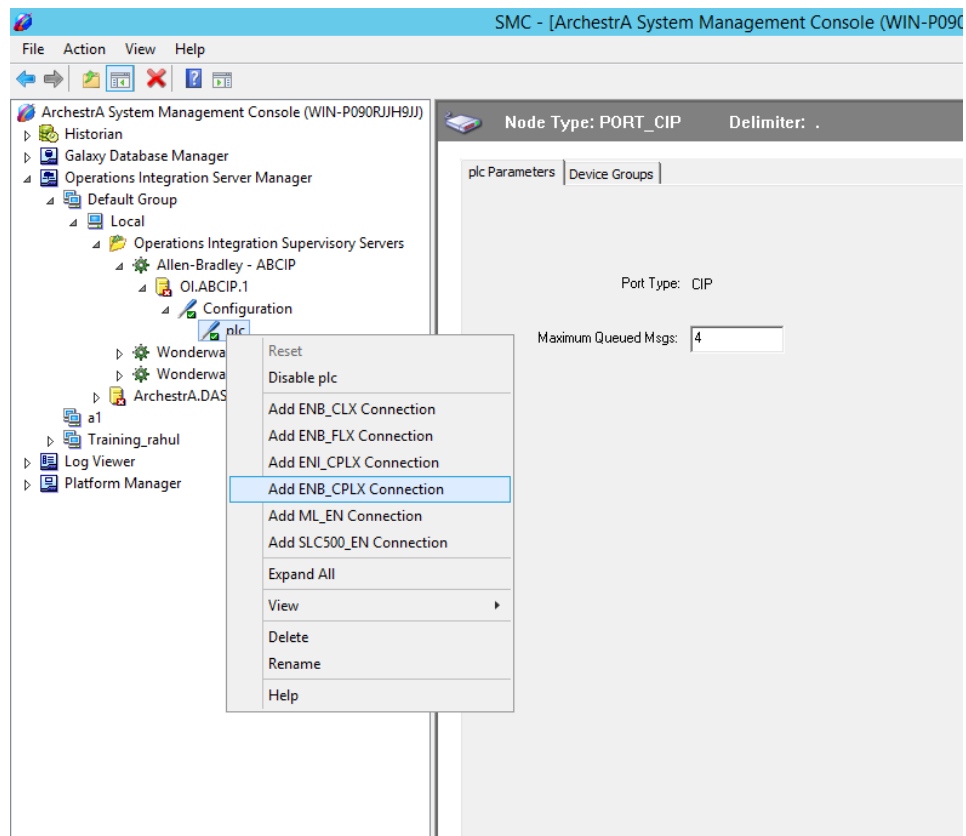
1. Install ABCIP OI After installation it will show in the SMC.



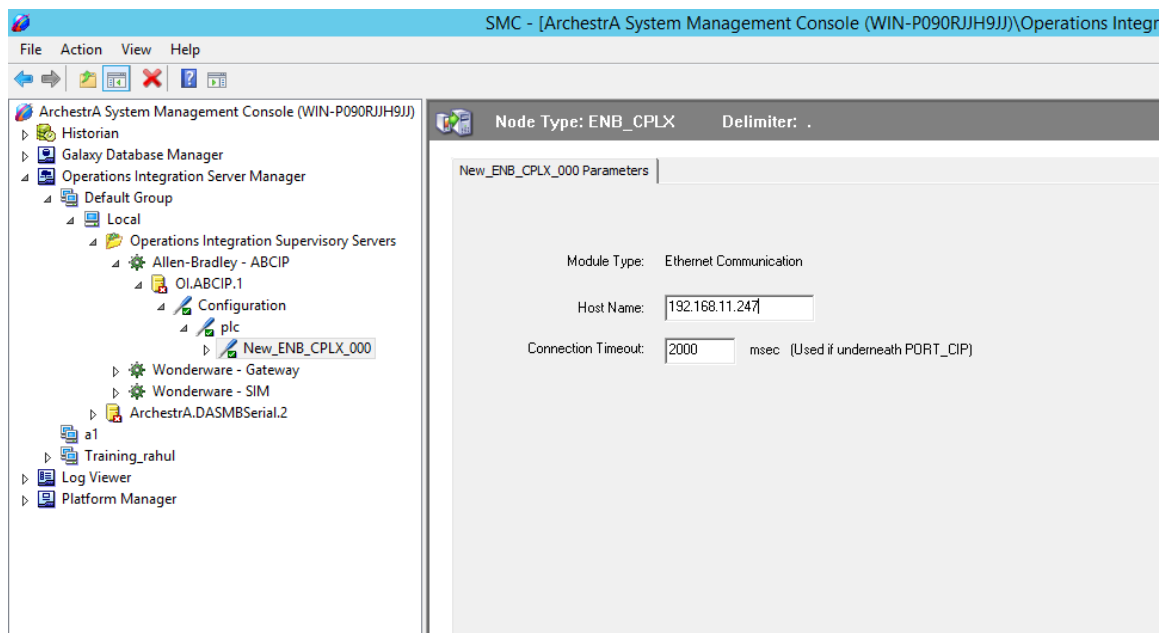
2. Navigate to the Operations Integration Supervisory Sensors – Allen- Bradley ABCIP and right click on the configuration and add PORT_CIP Connection.



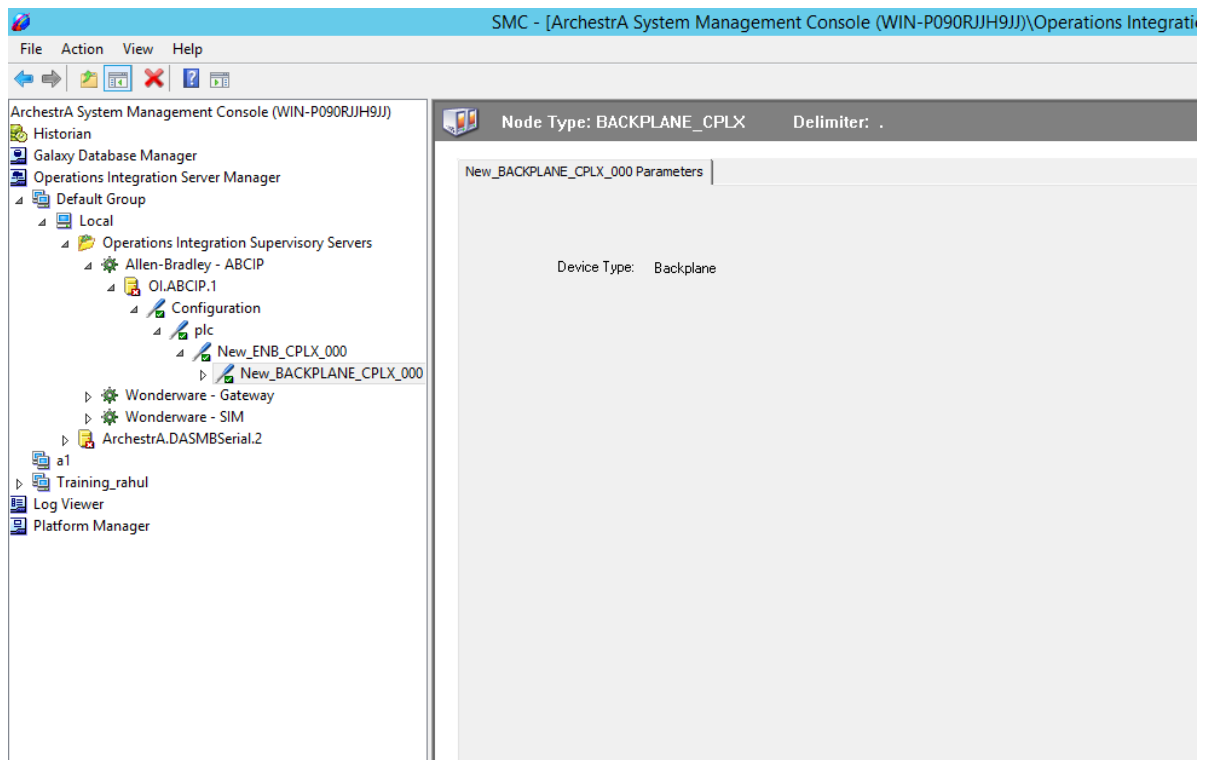
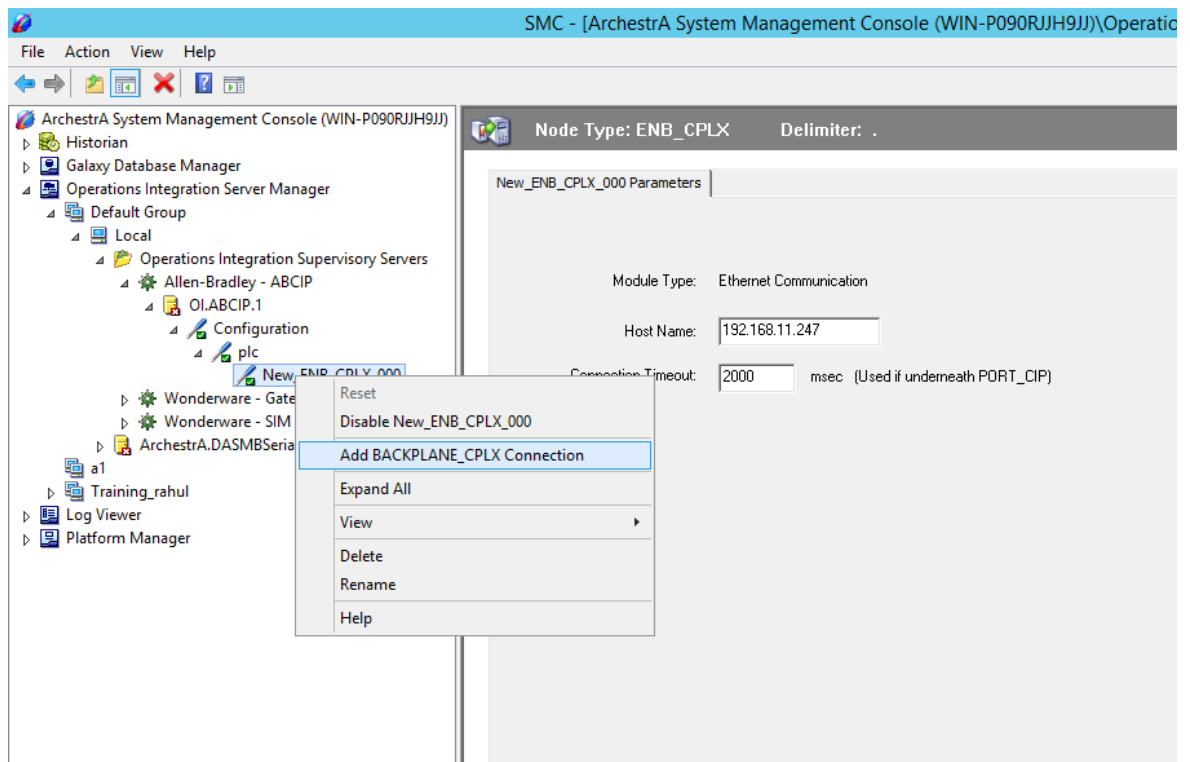
3. Add ENB_CPLX Connection (For CompactLogix)



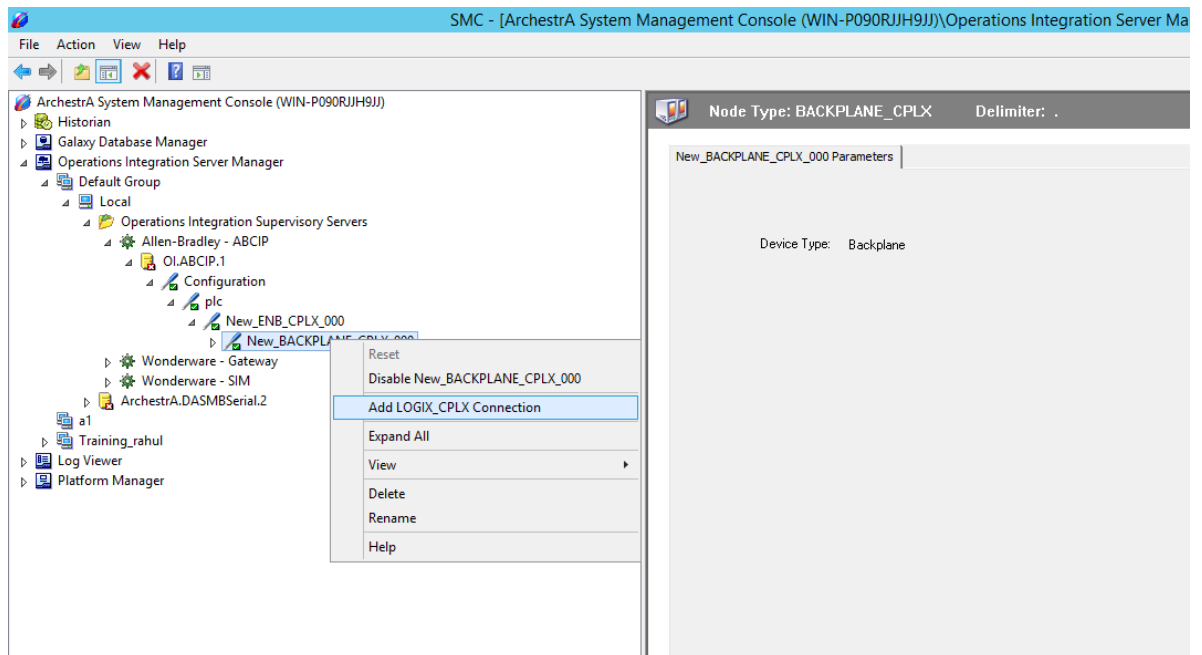
4. Enter IP Address of PLC and Save it.



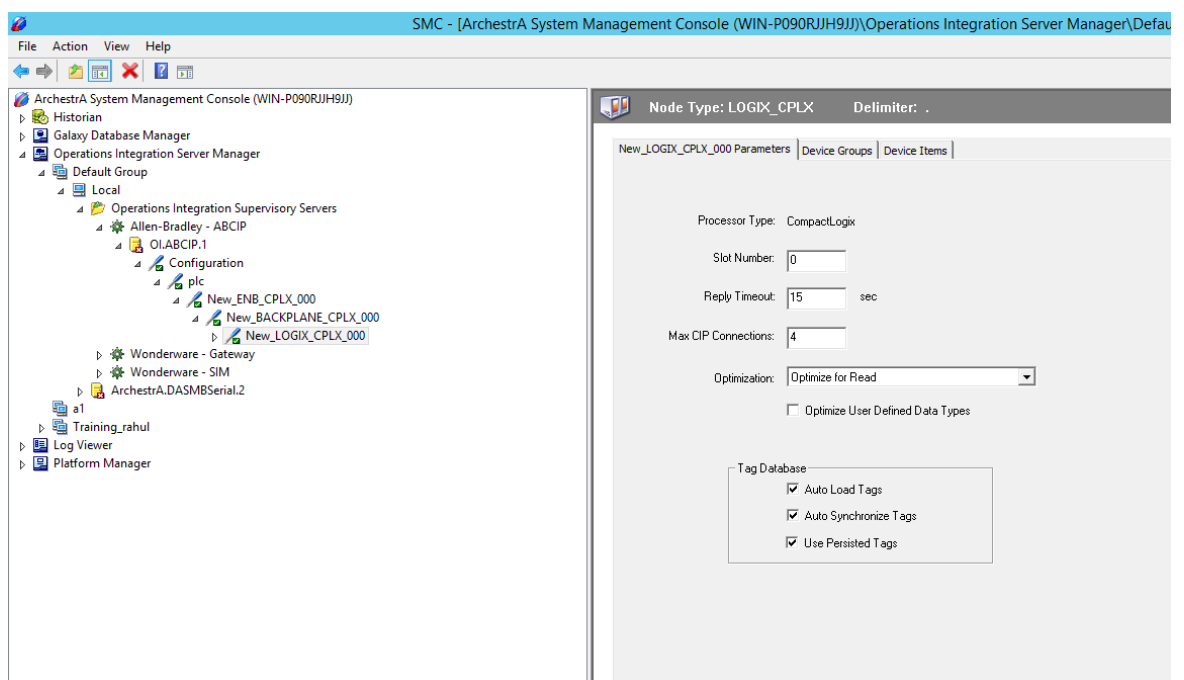
5. Add BACKPLANE_CPLX connection.



6. Add Logix_CPLX Connection.



7. Add Device Group and device items



SMC - [Archestra System Management Console (WIN-P090RJH9JJ)\Operations Integration Server Manager\Default Group\

File Action View Help

Archestra System Management Console (WIN-P090RJH9JJ)

- Historian
- Galaxy Database Manager
- Operations Integration Server Manager
 - Default Group
 - Local
 - Operations Integration Supervisory Servers
 - Allen-Bradley - ABCIP
 - OI.ABCIP.1
 - Configuration
 - plc
 - New_ENB_CPLX_000
 - New_BACKPLANE_CPLX_000
 - New_LOGIX_CPLX_000
 - Wonderware - Gateway
 - Wonderware - SIM
 - Archestra.DASMBSerial.2
 - a1
 - Training_rahul
 - Log Viewer
 - Platform Manager

Node Type: LOGIX_CPLX Delimiter: .

New_LOGIX_CPLX_000 Parameters Device Groups Device Items

| Name | Update Interval (ms) |
|---------|----------------------|
| Topic_0 | 1000 |

SMC - [Archestra System Management Console (WIN-P090RJH9JJ)\Operations Integration Server Manager\

File Action View Help

Archestra System Management Console (WIN-P090RJH9JJ)

- Historian
- Galaxy Database Manager
- Operations Integration Server Manager
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 - OI.ABCIP.1
 - Configuration
 - plc
 - New_ENB_CPLX_000
 - New_BACKPLANE_CPLX_000
 - New_LOGIX_CPLX_000
 - Wonderware - Gateway
 - Wonderware - SIM
 - Archestra.DASMBSerial.2
 - a1
 - Training_rahul
 - Log Viewer
 - Platform Manager

Node Type: LOGIX_CPLX Delimiter: .

New_LOGIX_CPLX_000 Parameters Device Groups Device Items

| Name | Item Reference |
|--------|----------------|
| Item_0 | HOLD |

8. Activate OI ABCIP Server

SMC - [Archestra System Management Console (WIN-P090RJH9JJ)\Operations Integration Server Manager\Default Group\Local\Operations Integ

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 - Training_rahul
 - Log Viewer
 - Platform Manager

Component Version

| | |
|----------------------|---------------------|
| ABCIP | 2015.0805.1677.1 |
| ABCIP [Shell] | 0997.0013.0000.0000 |
| Original DAS Toolkit | 0874.0000.0000.0000 |
| DASEngine | 1102.0538.0000.0000 |
| PluginMQTT | 1102.0293.0000.0000 |
| PluginOPC | 1102.0293.0000.0000 |
| PluginDDESL | 1102.0293.0000.0000 |

Activate (Auto start after reboot)

Activate until reboot (Manual start after reboot)

Desktop mode (Must start from command line)

Deactivate (Must be activated to run again)

Clone Instance

Remove Instance

Rename Instance

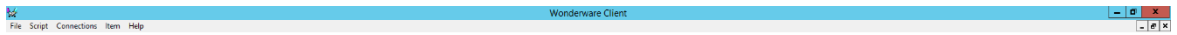
Expand All

View

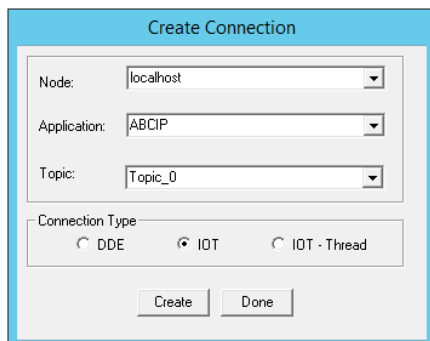
Export List...

Help

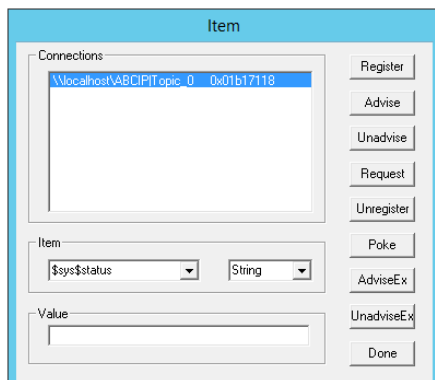
9. Open WW Client.



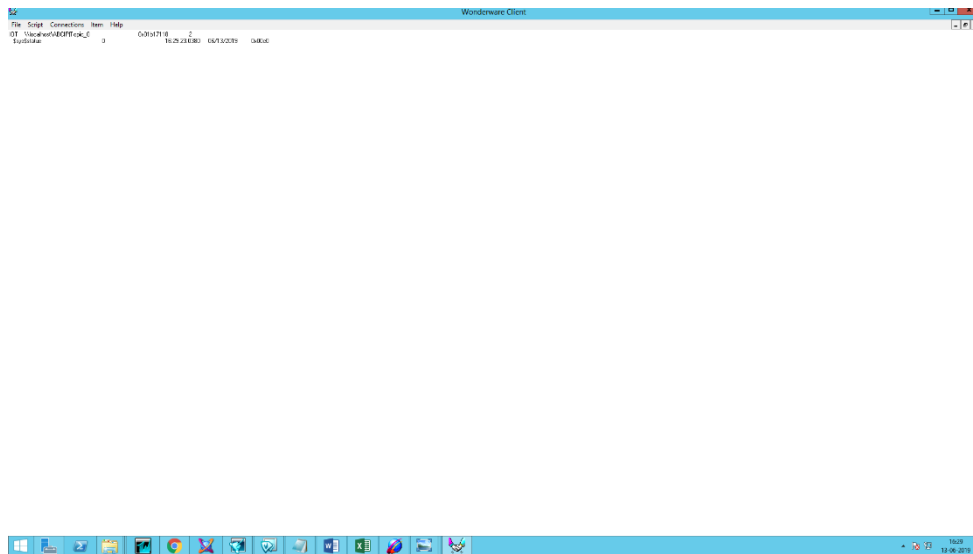
10. Go to connection and create connection.(Topic_0 for example)



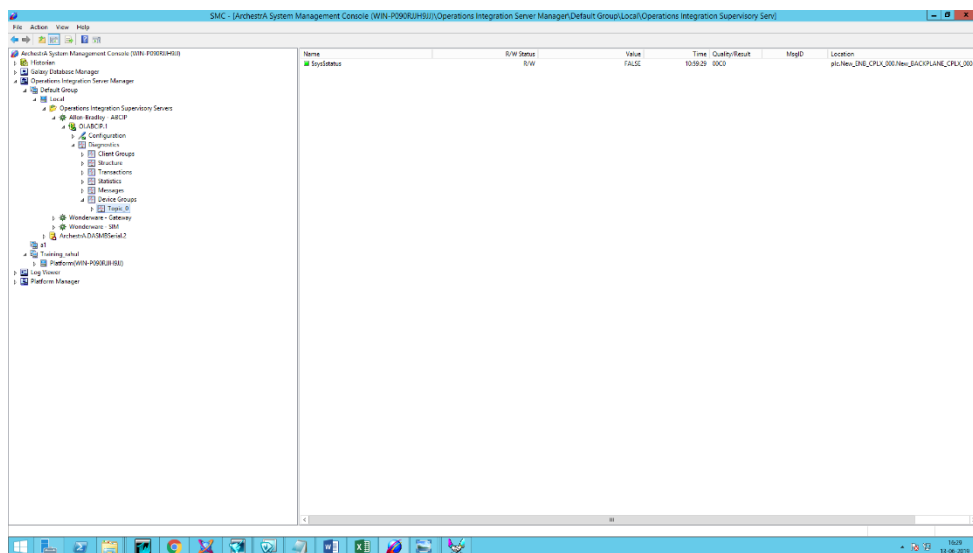
11. Go to item and add item.



12. Now tags will show in the wonderware client.

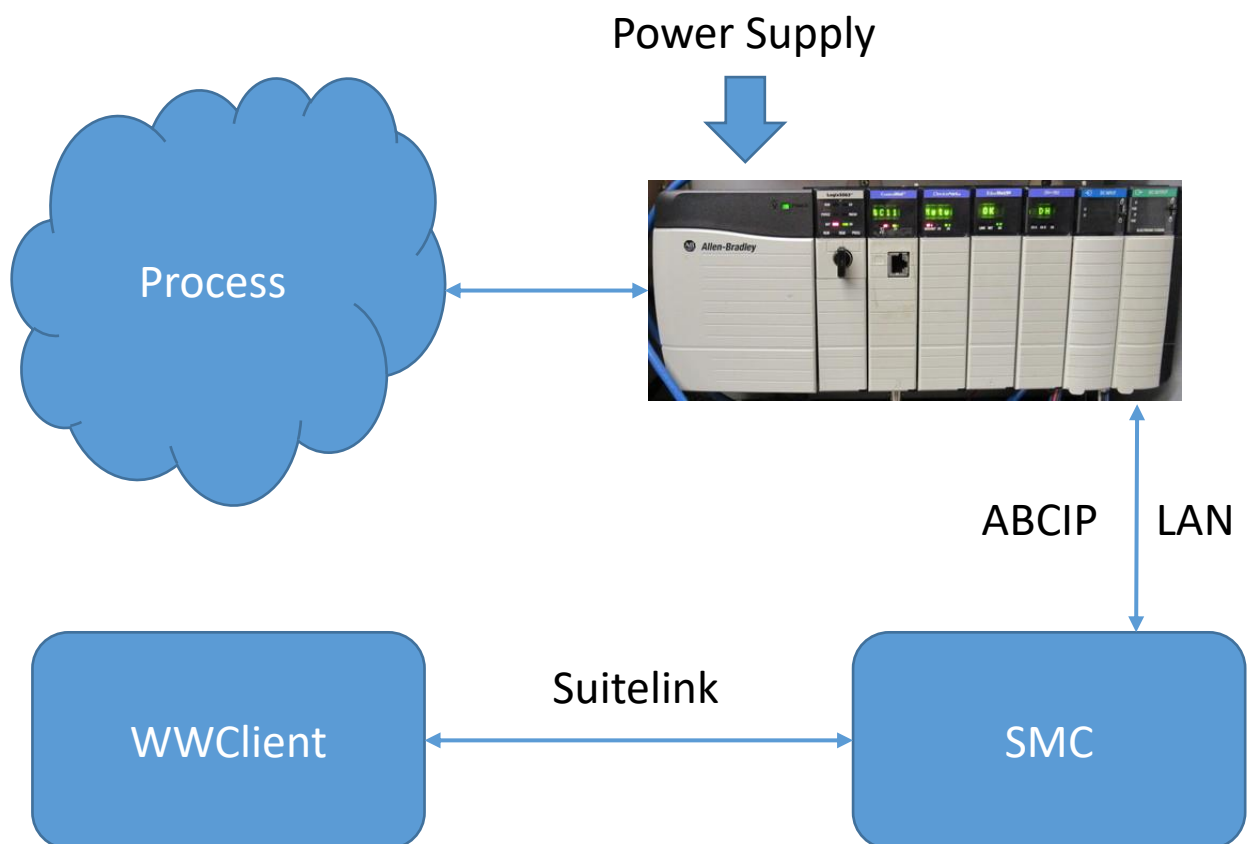


13. You can also view that data in SMC in Diagnostics.

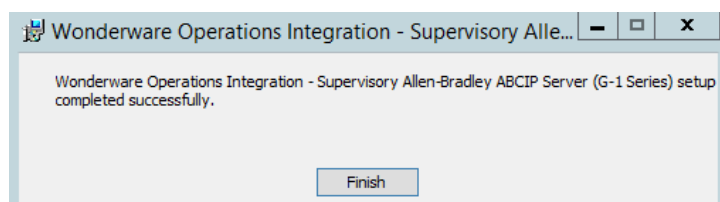
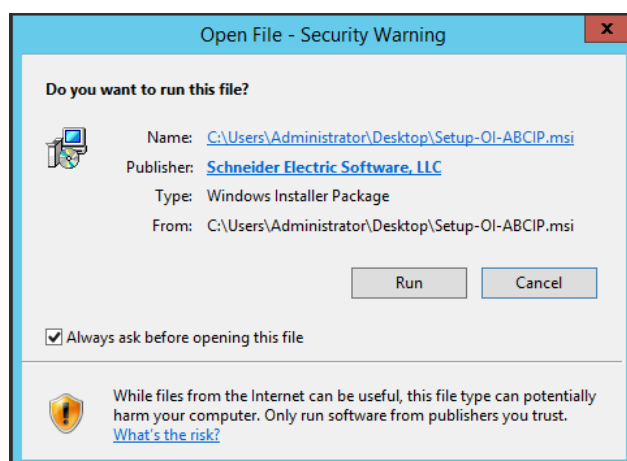


OI ABCIP ControlLogix Configuration

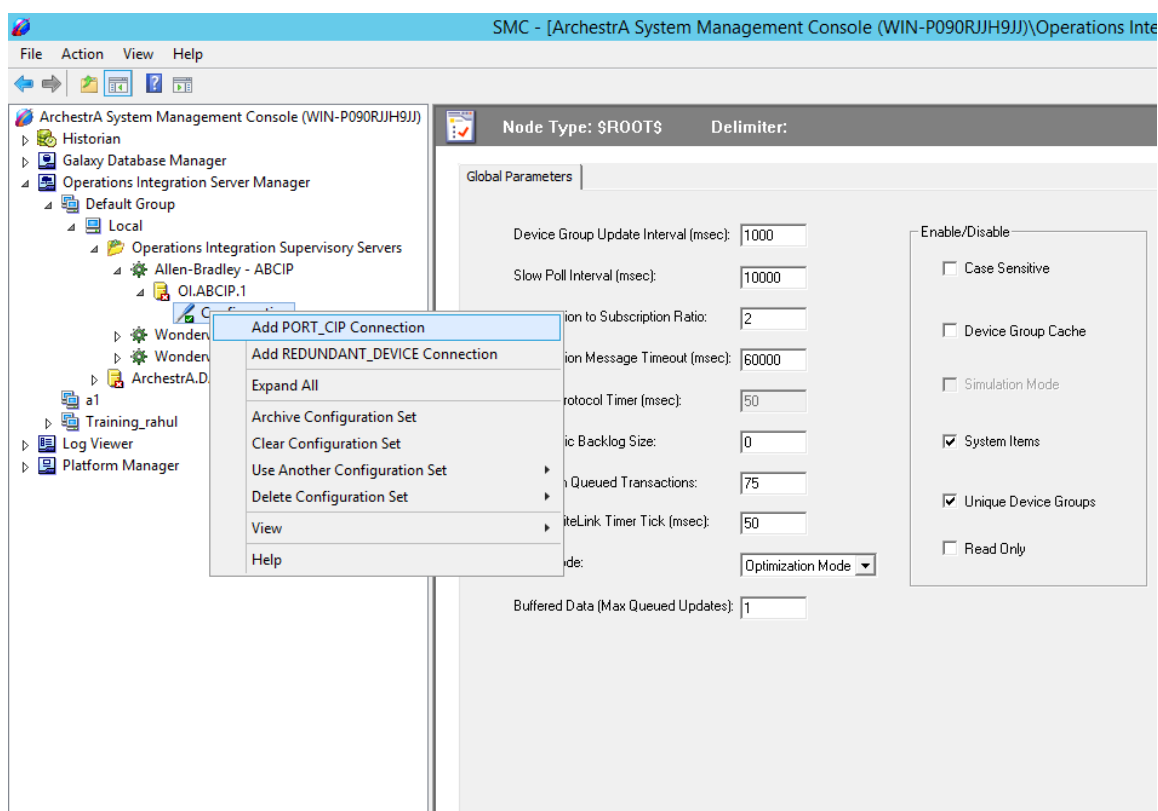
Allen-Bradley Control logix Hardware Setup



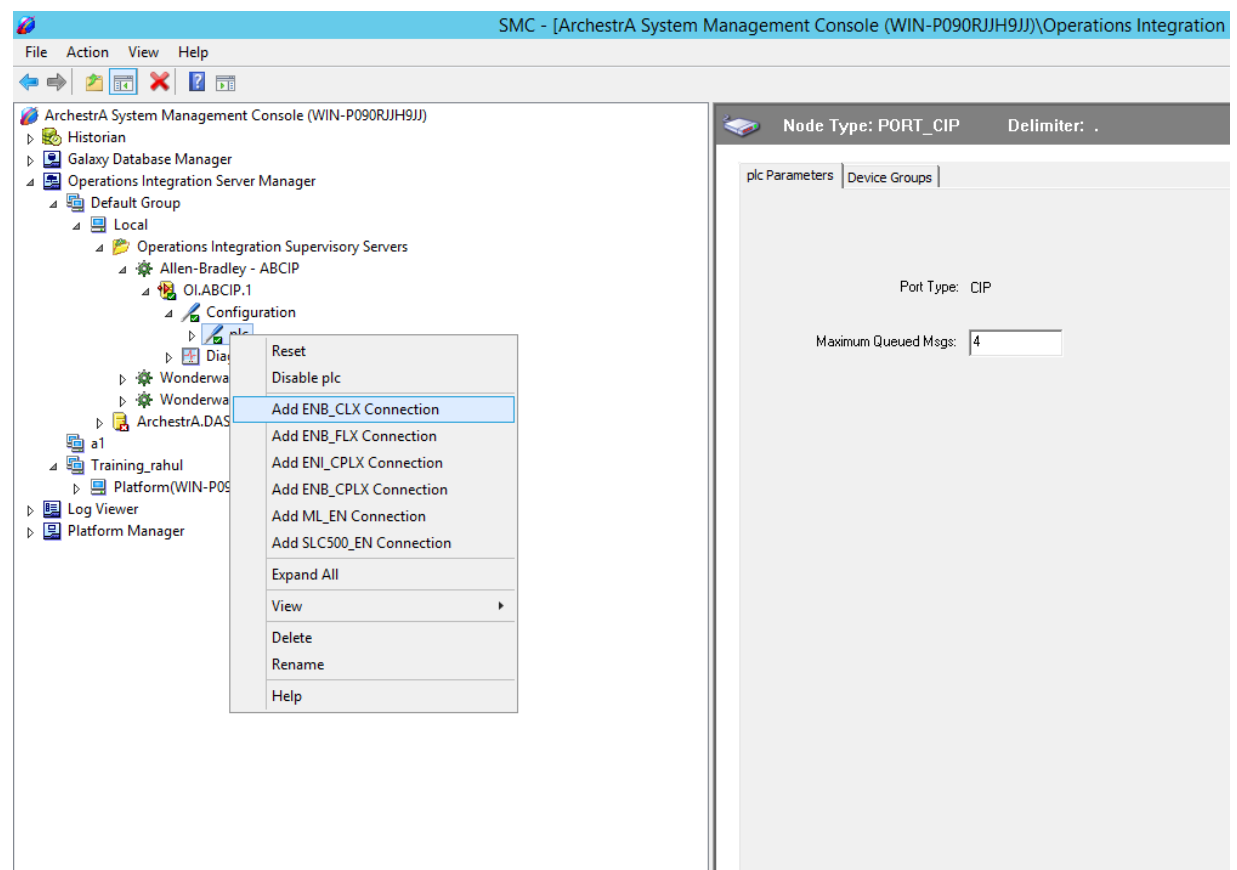
1. Install ABCIP OI After installation it will show in the SMC.



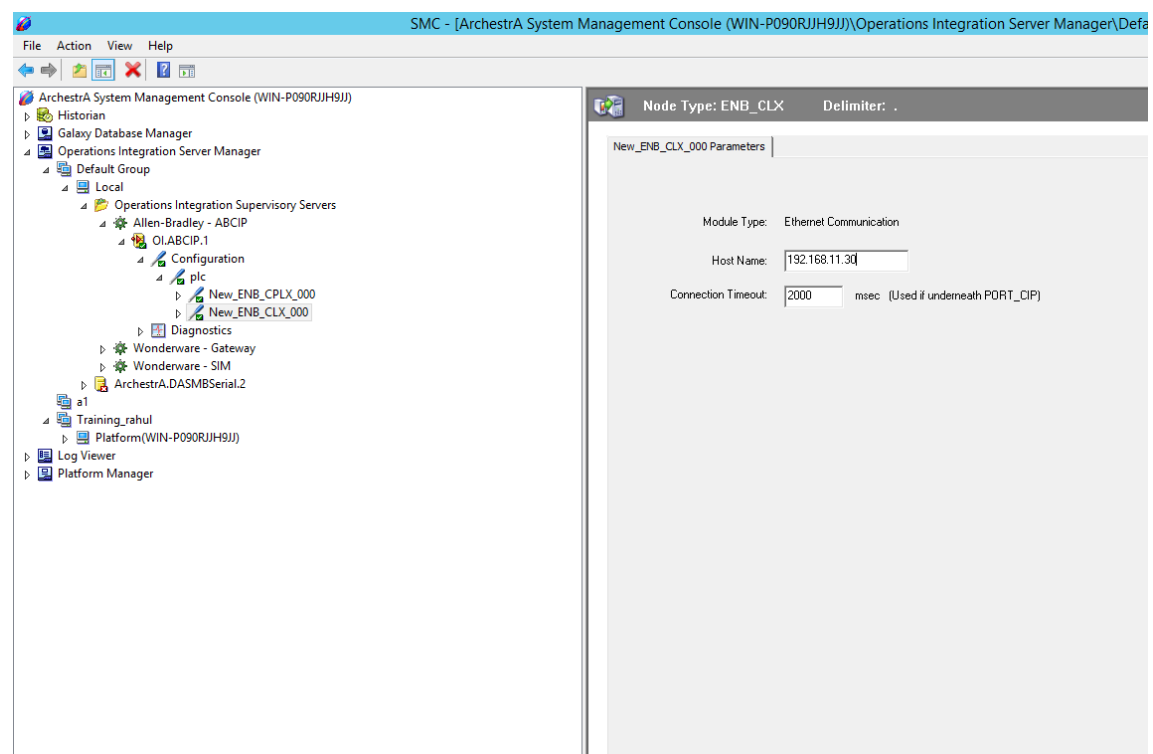
2. Navigate to the Operations Integration Supervisory Sensors – Allen- Bradley ABCIP and right click on the configuration and add PORT_CIP Connection



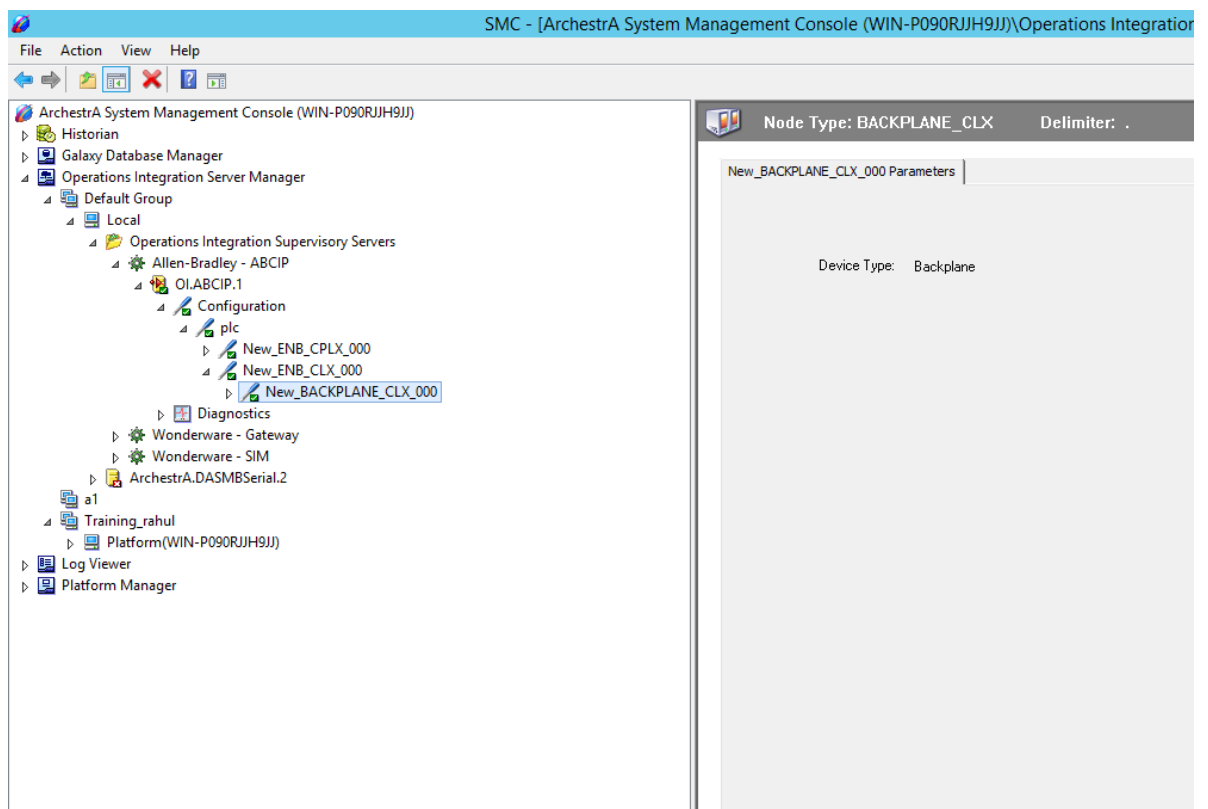
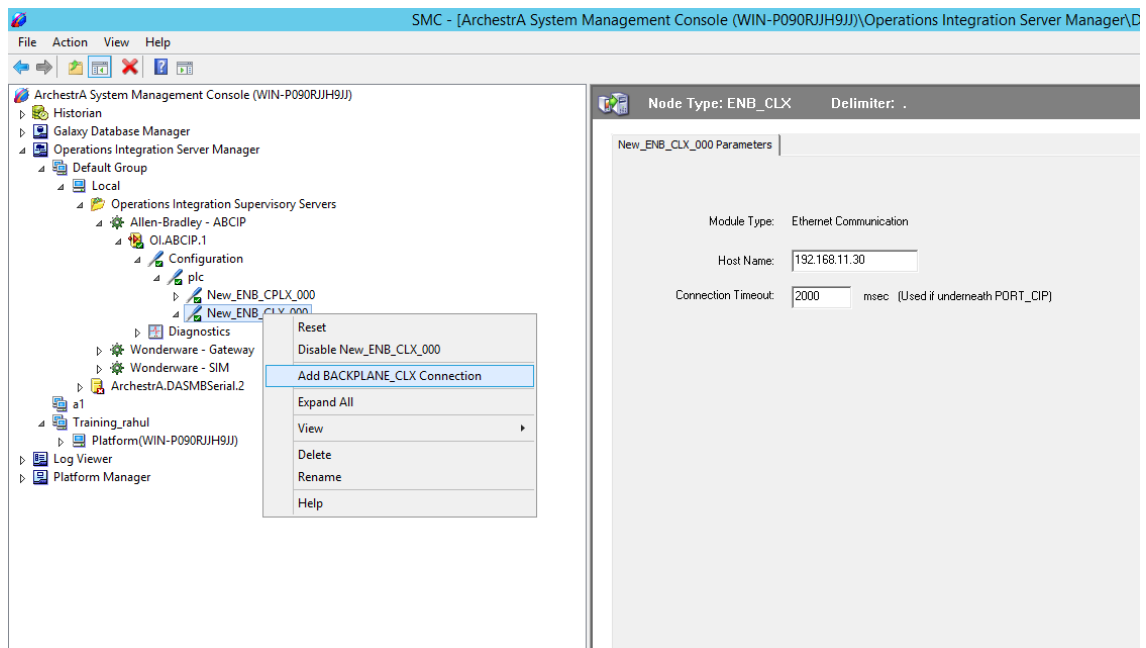
3. Click on PLC and add ENB_CLX Connection



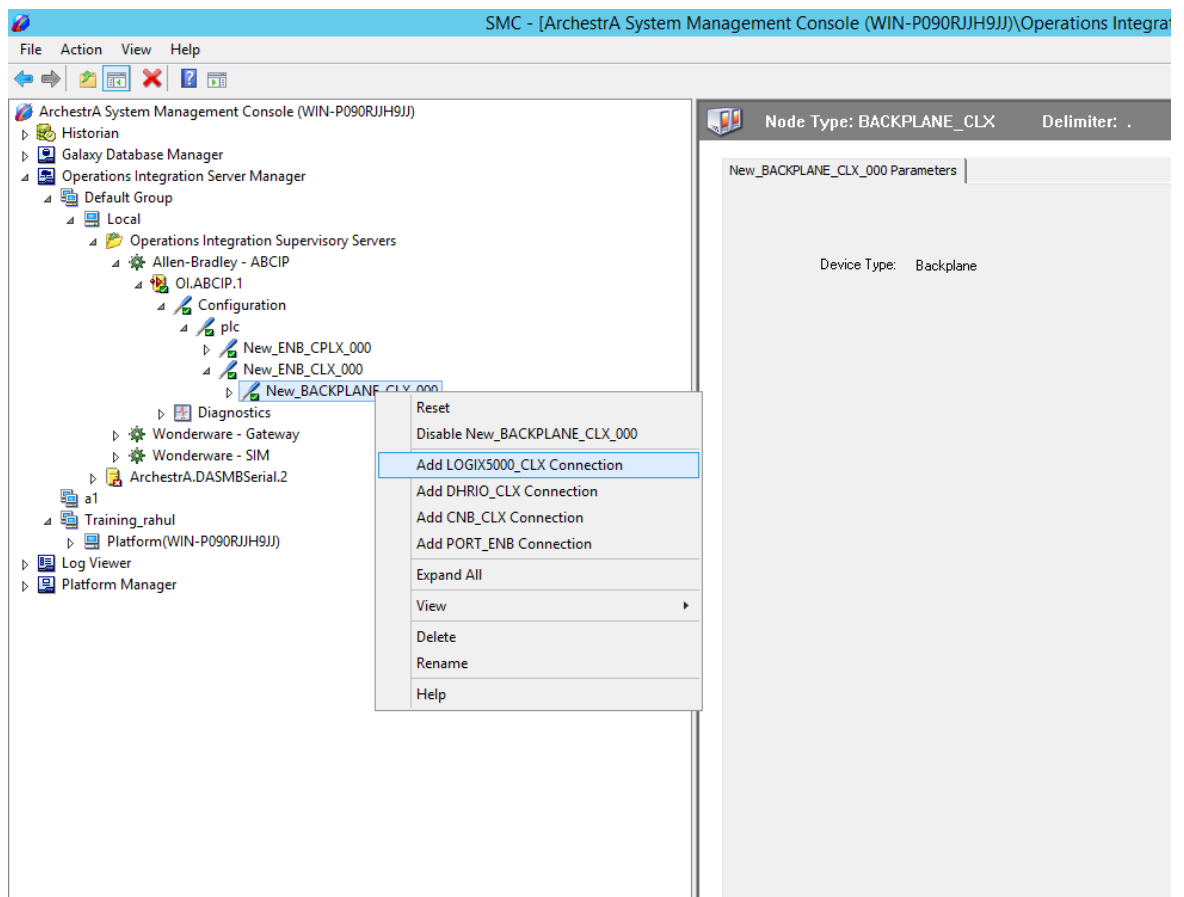
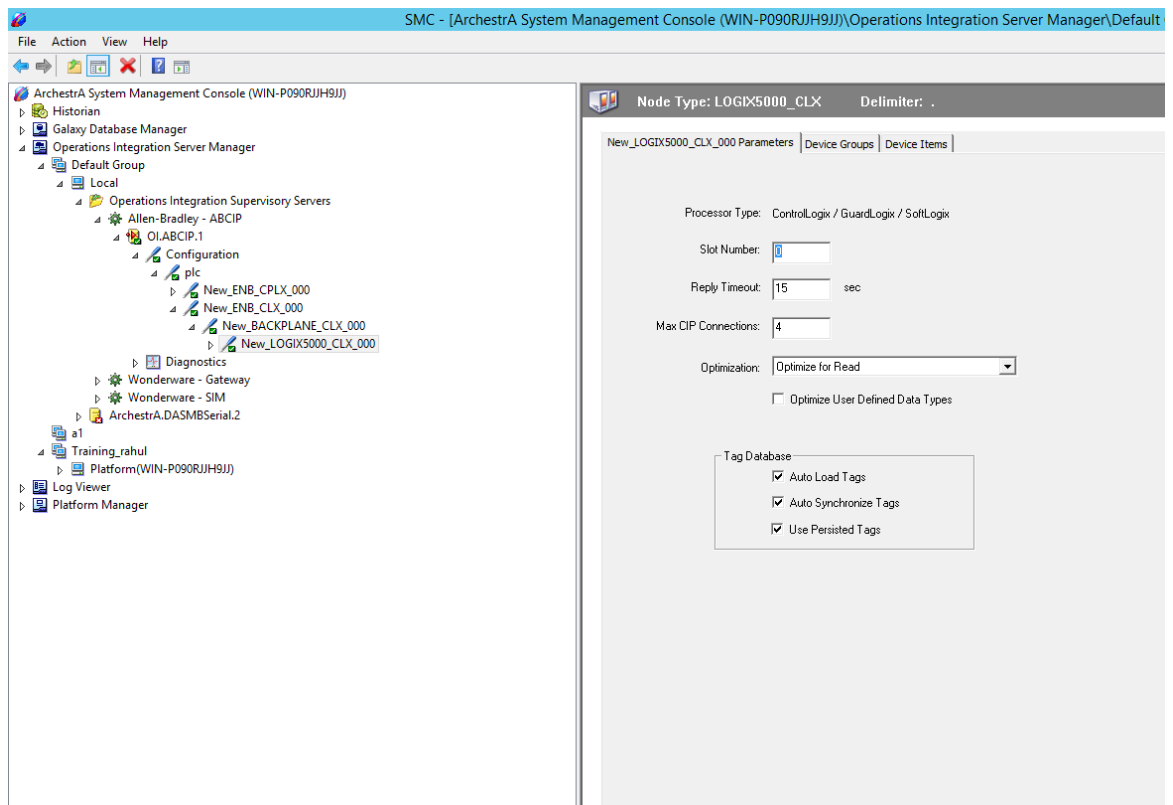
4. Enter IP Address of PLC



5. Right click on ENB_CLX_000 and Add Backplane_CLX Connection



6. Right Click on Backplane and add Logix 5000 Connection and add device Group and device items.



SMC - [Archestra System Management Console (WIN-P090RJH9JJ)\Operations Integration Server Manager\Default Group]

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 - New_BACKPLANE_CLX_000
 - New_LOGIX5000_CLX_000
 - Diagnostics
 - Wonderware - Gateway
 - Wonderware - SIM
 - Archestra.DASMBSerial.2
- a1
- Training_rahul
 - Platform(WIN-P090RJH9JJ)

- Log Viewer
- Platform Manager

Node Type: LOGIX5000_CLX Delimiter: .

New_LOGIX5000_CLX_000 Parameters Device Groups Device Items

| Name | Update Interval (ms) |
|---------|----------------------|
| Topic_0 | 1000 |

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Node Type: LOGIX5000_CLX Delimiter: .

New_LOGIX5000_CLX_000 Parameters Device Groups Device Items

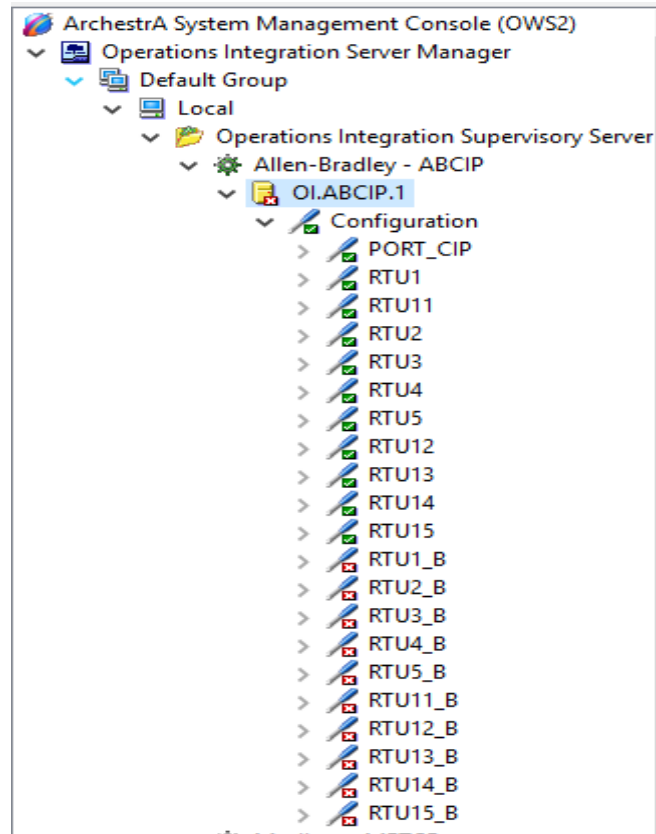
| Name | Item Reference |
|--------|----------------|
| Item_2 | AG131.AUTO |

7. Now open WW Client and check connectivity of tags as described above.

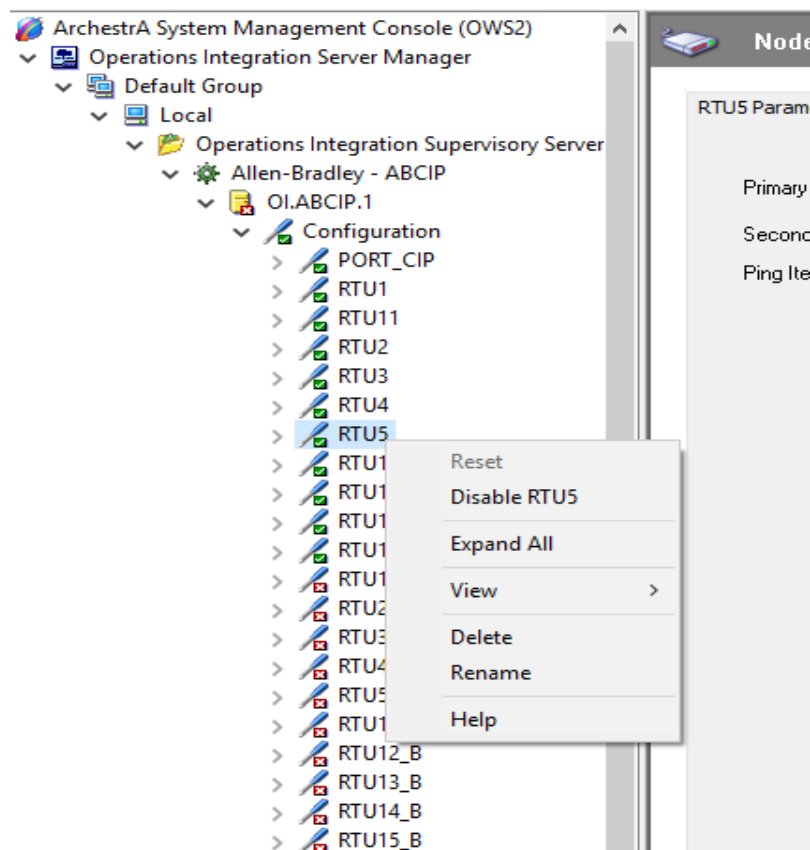
How to Disable and Enable ABCIP RTU configuration:

Open System management Console from start menu ->Wonderware Utility ->System management Console.

Open and brows OI.ABCIP.1 ->Configuration as shown in Image.

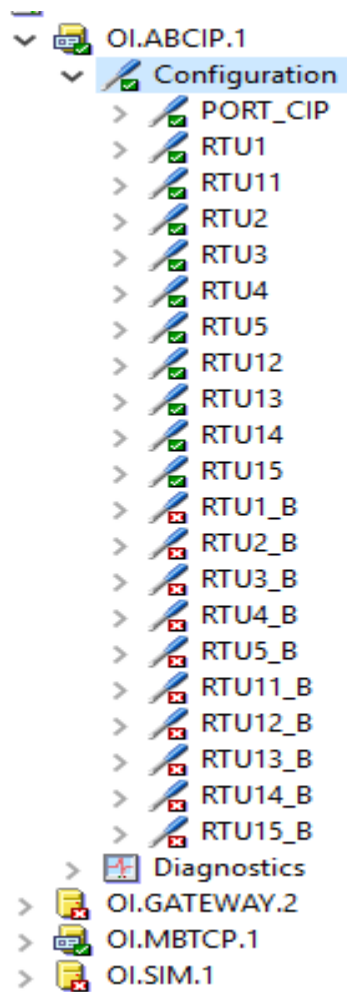


Select RTU which require to Disable and Right Click on it

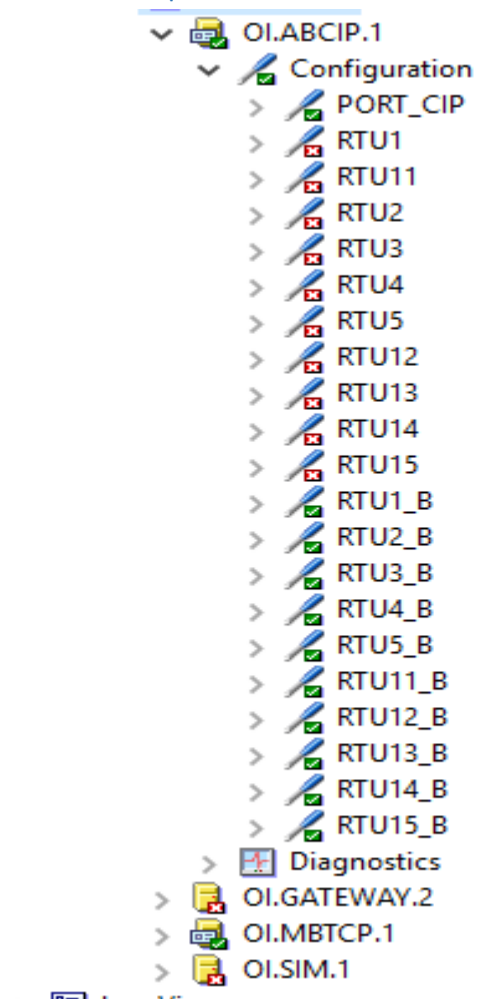


Here RTU1 to RTU5 and RTU 11 to RTU 15 are Configuration file for Branch Line and Here RTU1_B to RTU5_B and RTU 11_B to RTU 15_B are Configuration file for Main Line.

ABCIP Configuration require for branch line SCADA Application
Running:



ABCIP Configuration require for main line Scada Application Running:



END