# Intouch from DDE to OPC


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# Tani GmbH

## Networks in industry

.

*The name Tani stands for communication in industrial production.*
*The focus is on communication systems:*

- *OPC Server for widespread PLCs*
- *Equipment and software for connecting PLCs, SCADA systems and databases.*
- *Fieldbus diagnostic systems.*

# Intouch from DDE to OPC



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# 1 Intouch from DDE to OPC

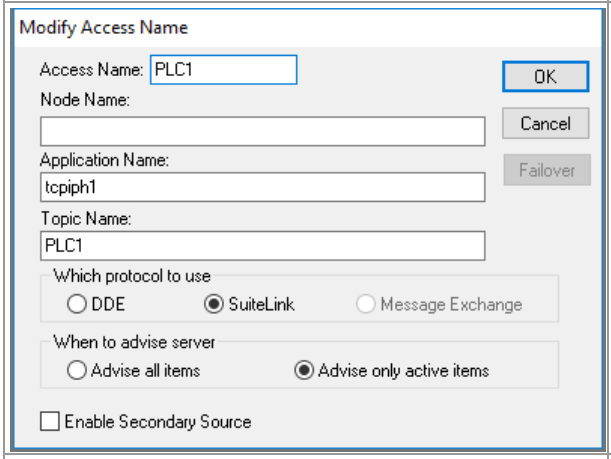
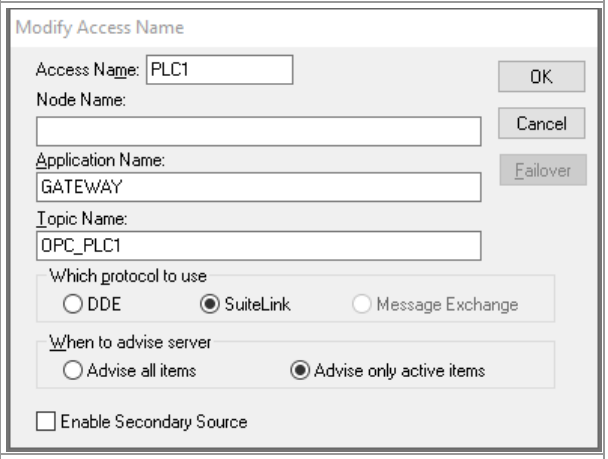
Intouch does not yet have an OPC interface. Therefore it is necessary to connect a Gateway in between. This document describes the steps required to convert an Intouch Application from the DDE server to the OPC server.

The Gateway is installed with the installation of Intouch. It is configured using the "System Platform Management Console".

The DDE Configuration of INAT DDE Server is shown again for the sake of completeness.
The OPC Configuration of Tani OPC Server is recreated with the same PLC. However, the parameters can be accepted automatically via the menu item "Settings" - "Import configuration from INAT Opc or DDE Server".
The Gateway Configuration is added.
The Intouch Configuration is displayed in comparison DDE and OPC.

Here the only change in Intouch Window Maker is the "Application Name" and the "Topic Name".

**In Intouch the only change needed is in the configuration of the Access Name, DDE and OPC is compared**

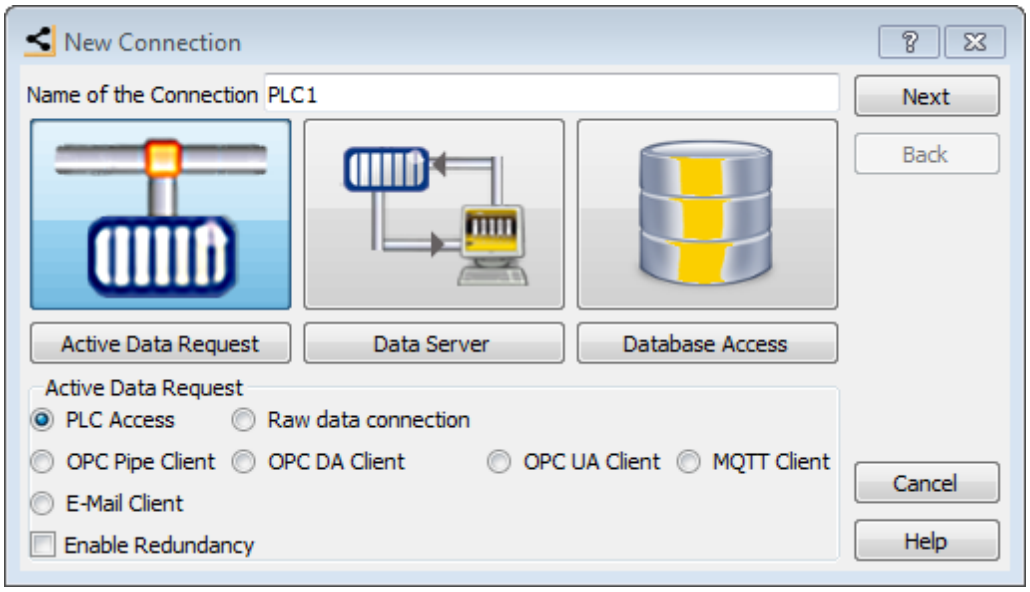
| DDE | OPC |
|---|---|
|  |  |
| | • Here the "Topic Name" is formed by the group "OPC" and the connection "PLC1" separated by the underscore. This corresponds to the "Device Group Name" in the Gateway configuration.<br>• The "Application Name" is called "FsGateway" in older versions. |

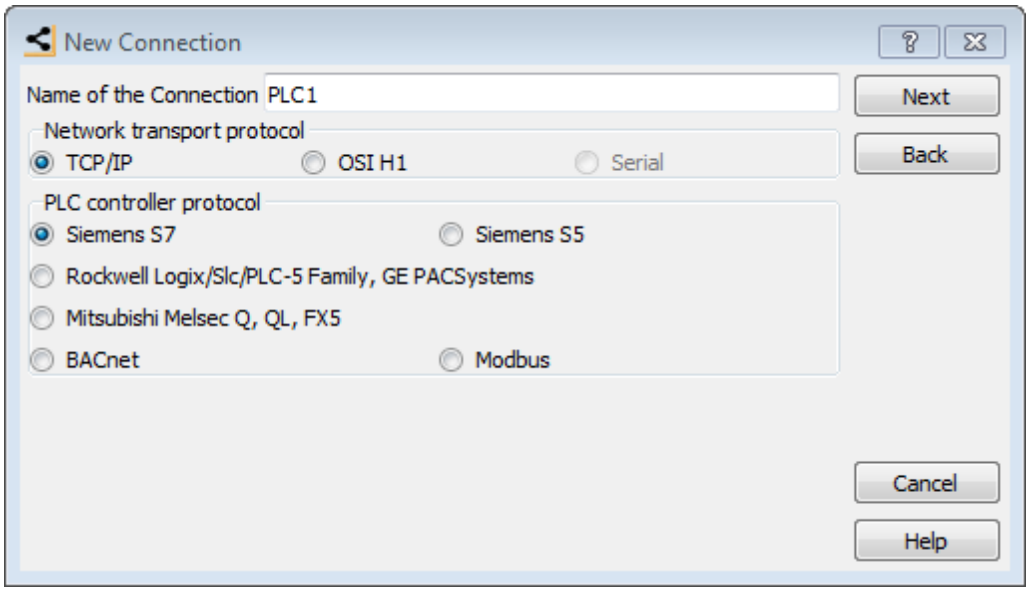
## 1.1 OPC Configuration

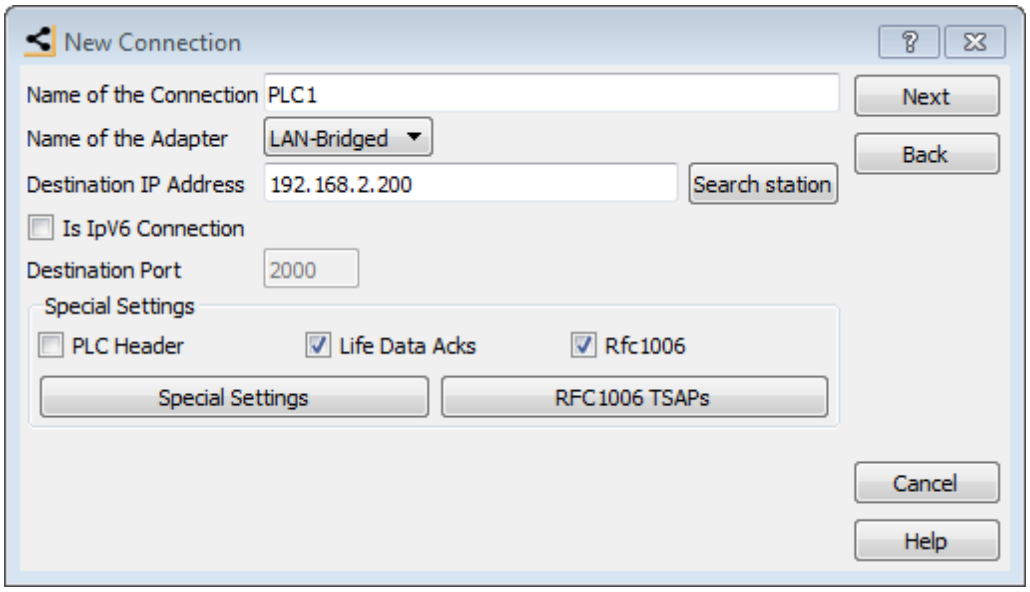
### Configuration of the Tani OPC Server

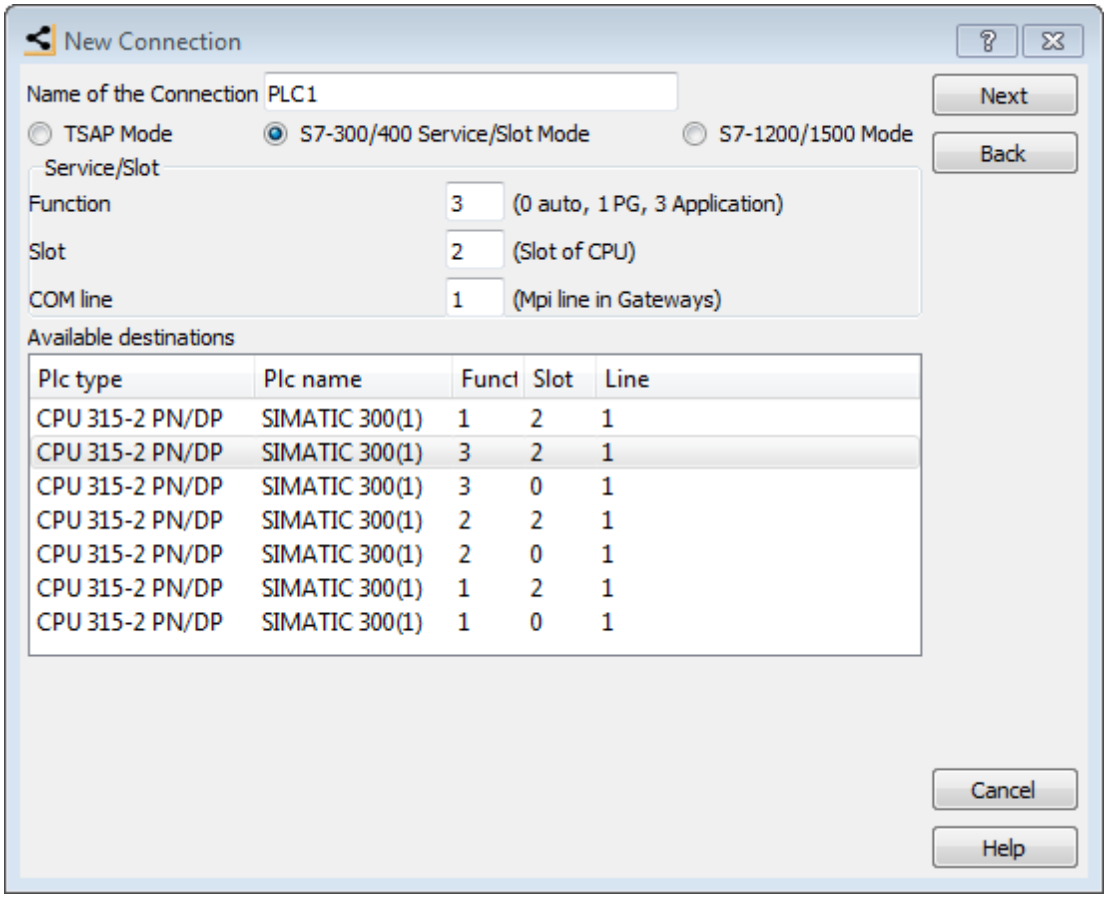
The connection to an S7-300 PLC with the name PLC1 is configured here.
However, the parameters can be converted automatically via the menu item "Settings" - "Import

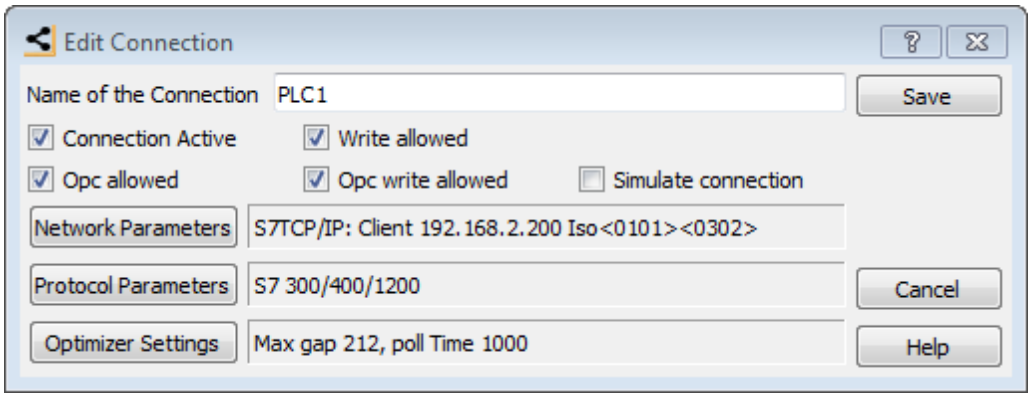
Configuration from INAT Opc or DDE Server".

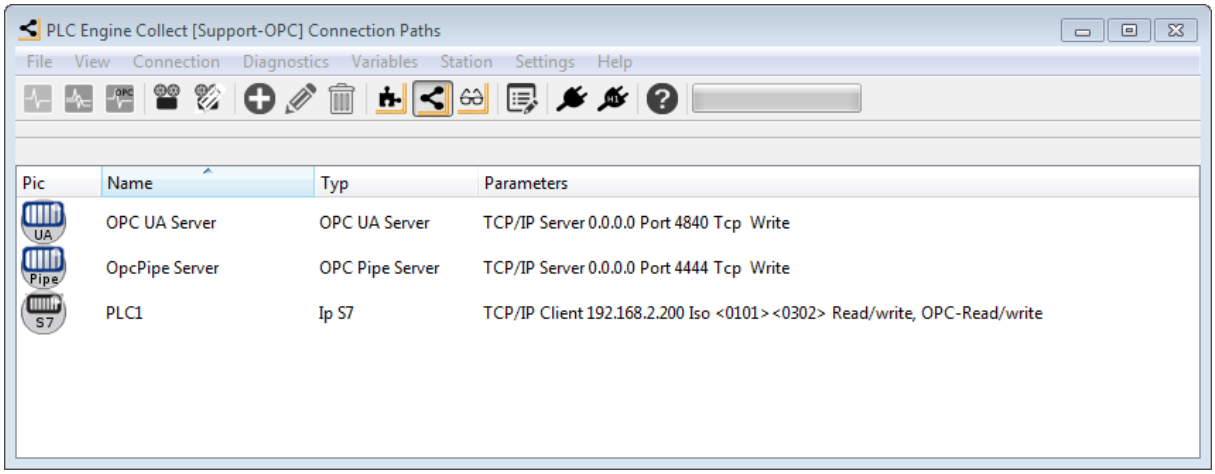




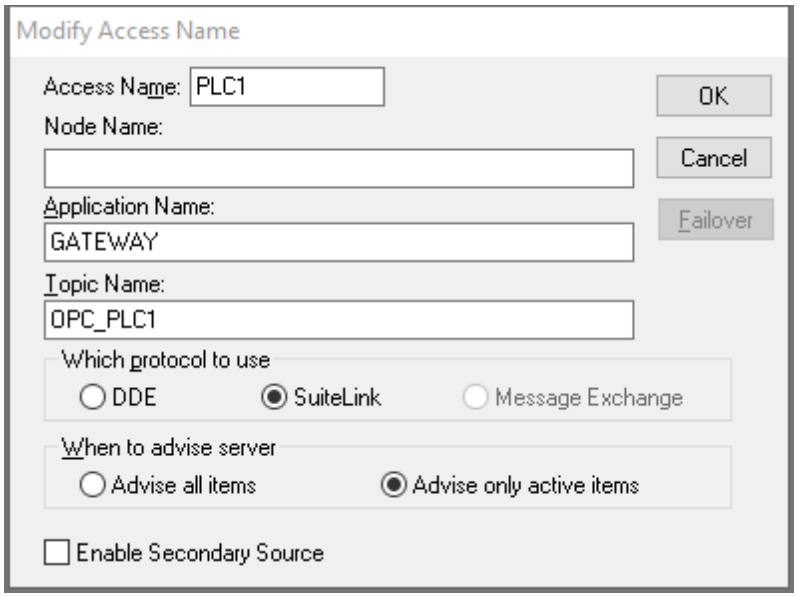






## Window Maker

In the Intouch Window Maker, the corresponding Access Name is configured via the Gateway



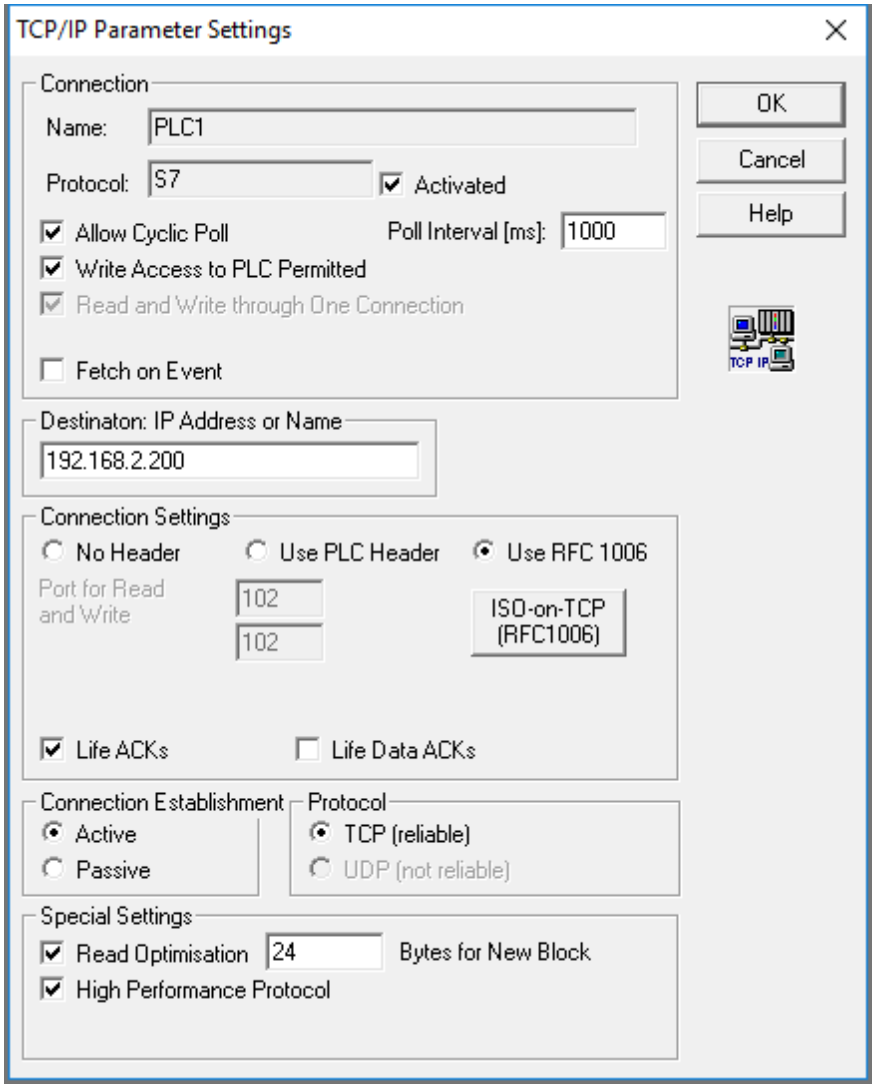

- Here the "Topic Name" is formed by the group "OPC" and the connection name "PLC1" separated by

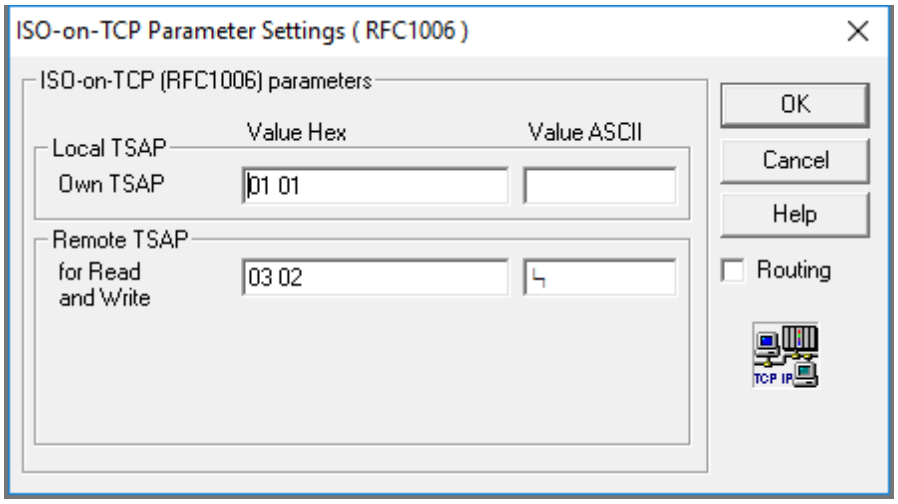
an underscore. This corresponds to the "Device Group Name" in the gateway configuration.
- The "Application Name" is called "FsGateway" in older versions.

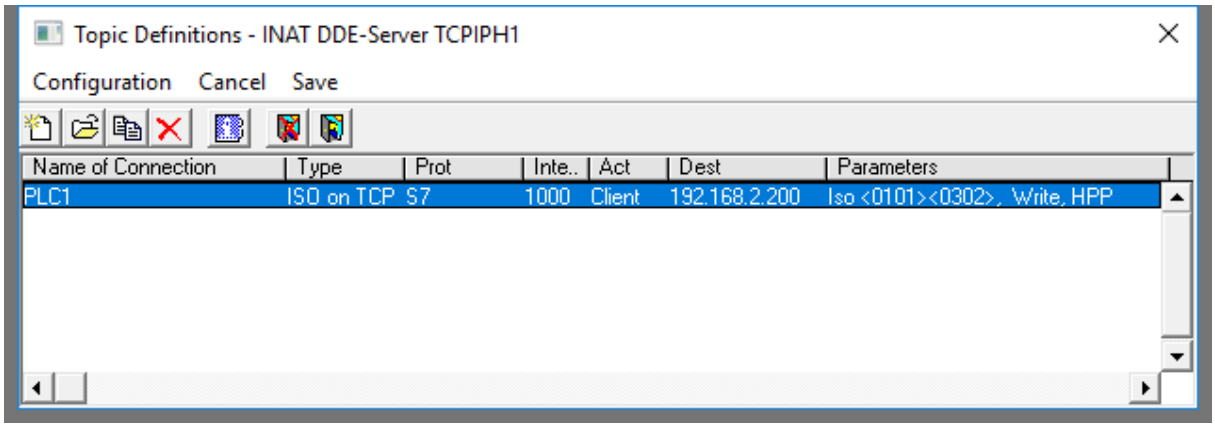
## 1.2 DDE Configuration

### Sample Configuration of the INAT DDE Server

This example shows the configuration of the topic "PLC1" to an S7-300 PLC.

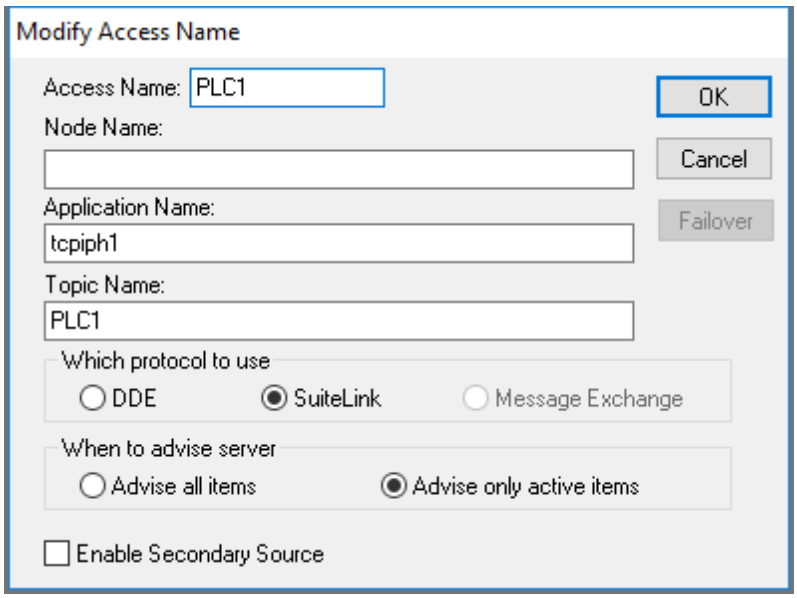




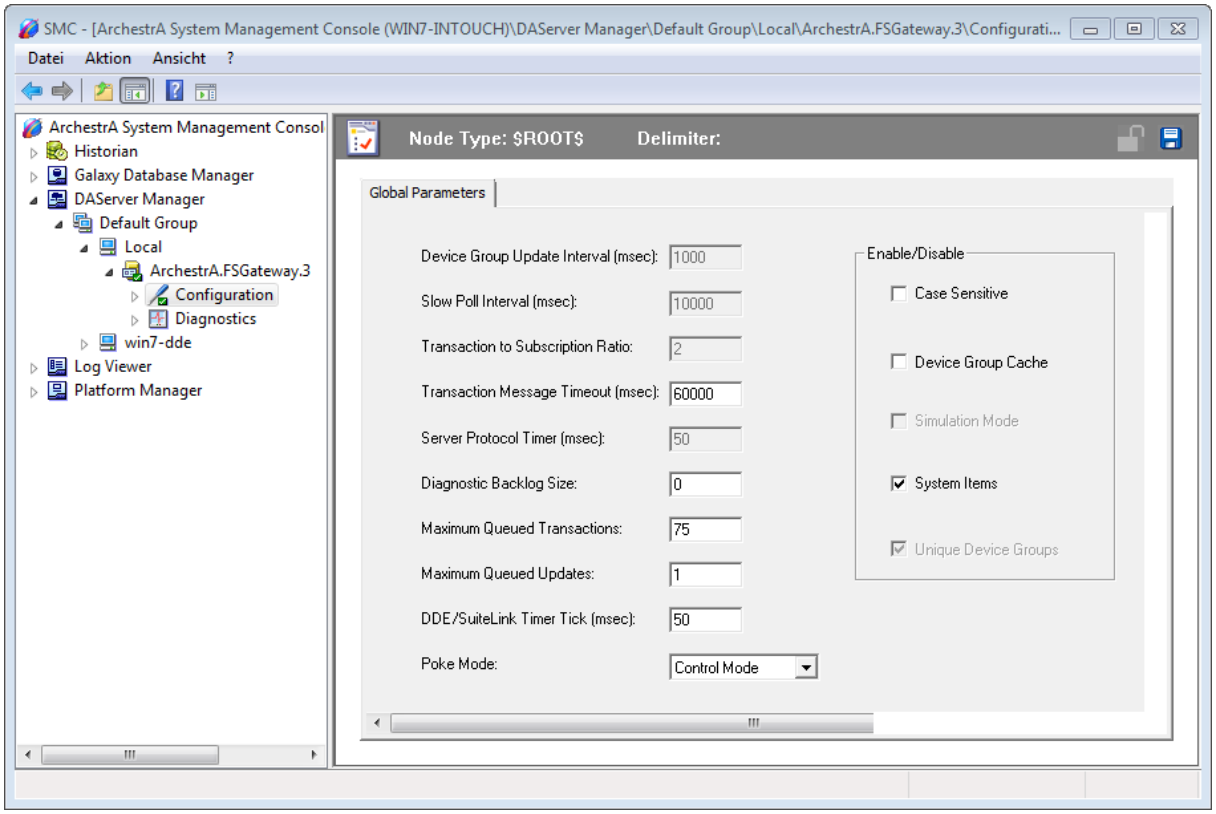

## Window Maker

In the Intouch, the Access Name Definition for DDE looks like this:

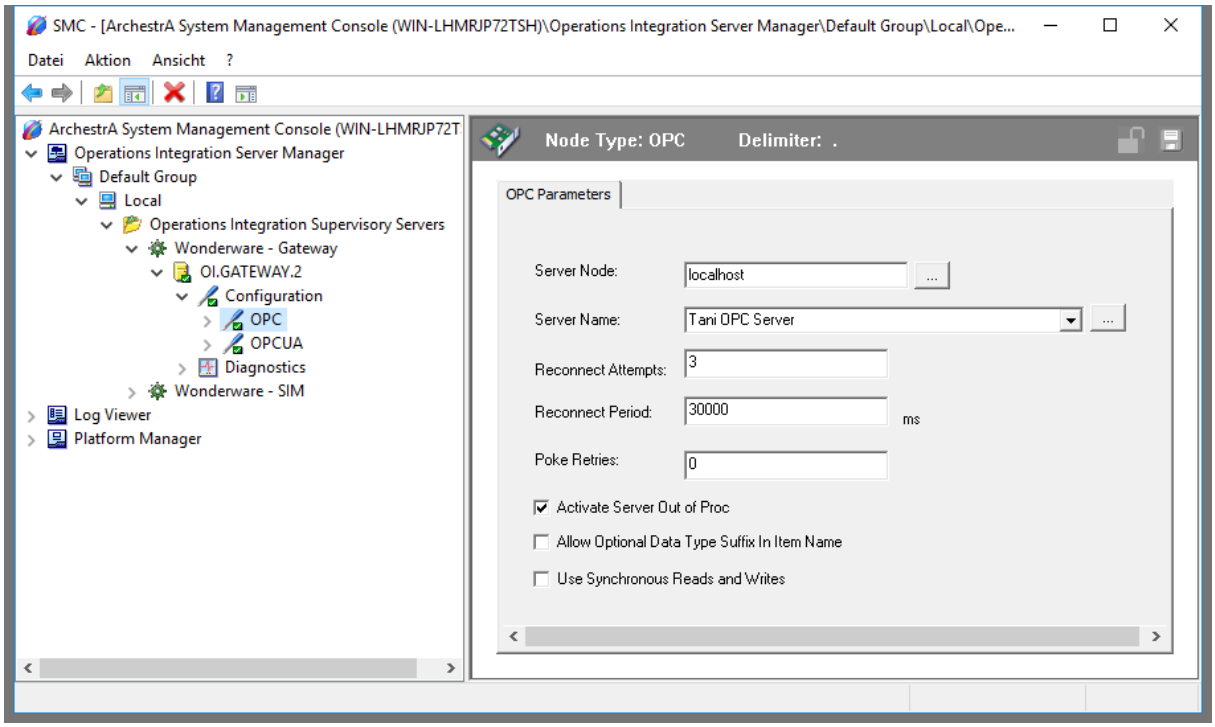


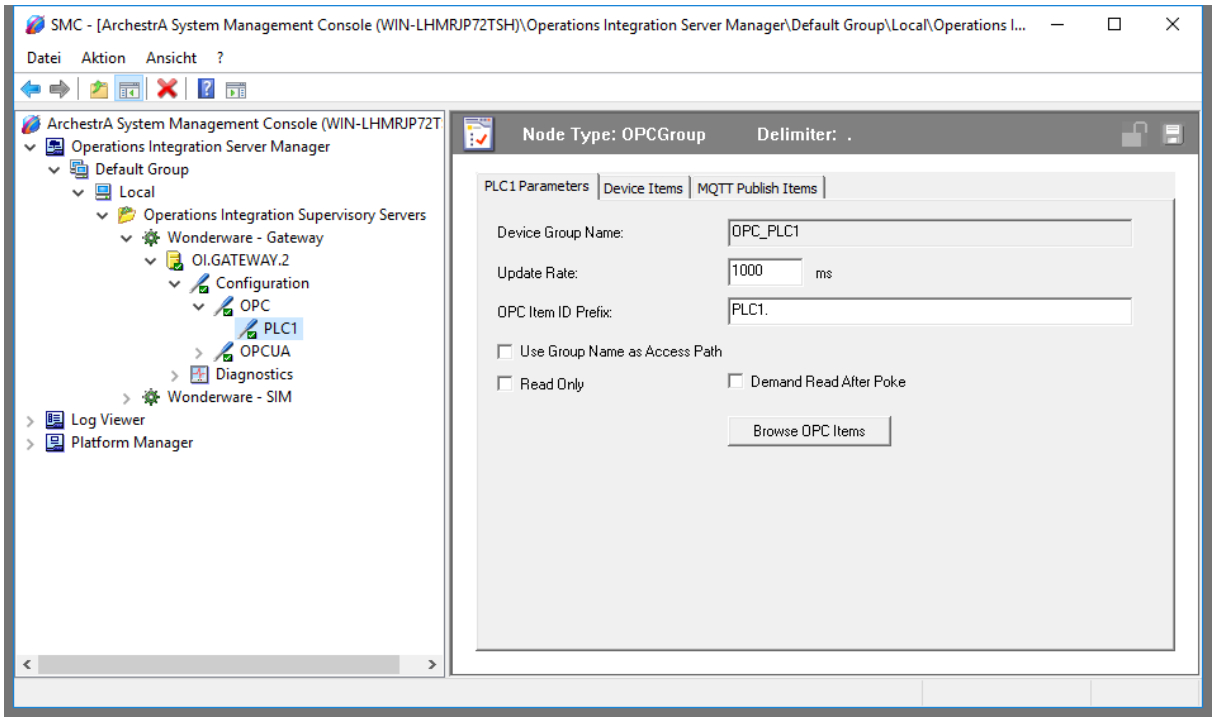
## 1.3 Gateway Configuration

The gateway will be installed with the installation of Intouch.
It is configured using the "System Platform Management Console".
With older Intouch versions it is called **FsGateway**. The configuration is the same.




Please make sure that the Poke Mode is changed to "Control Mode", otherwise not all values will be written into the PLC, write operations will be optimized away.

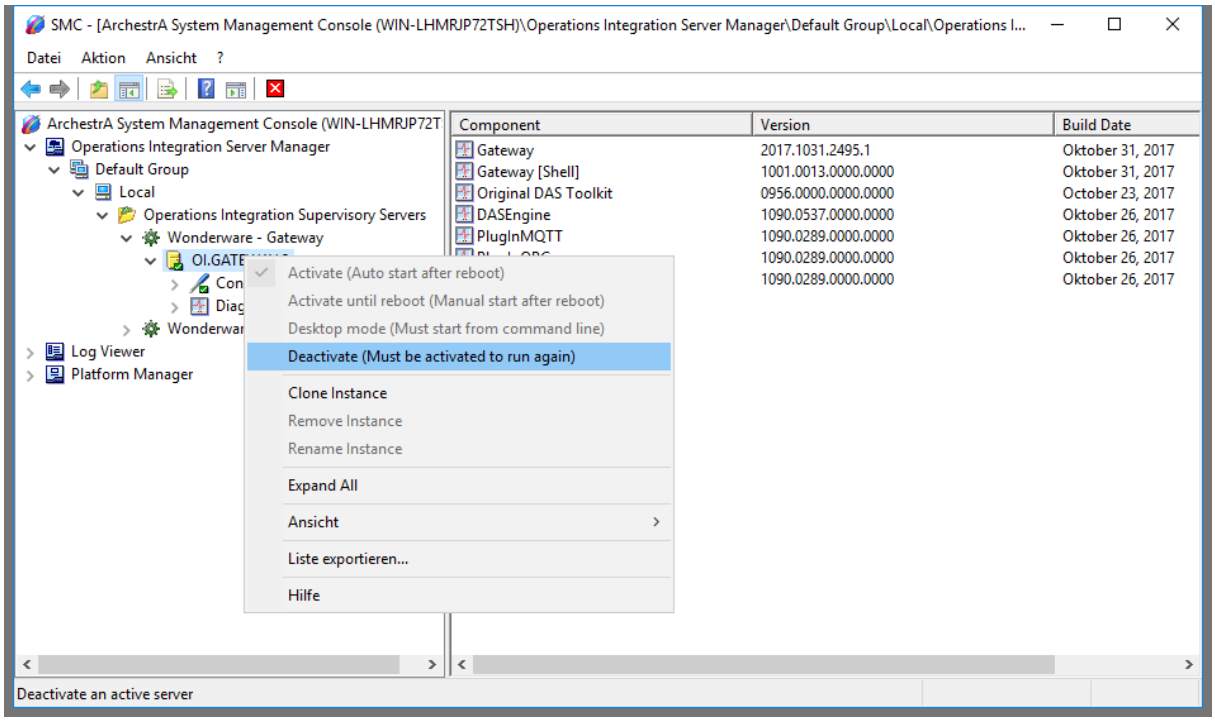


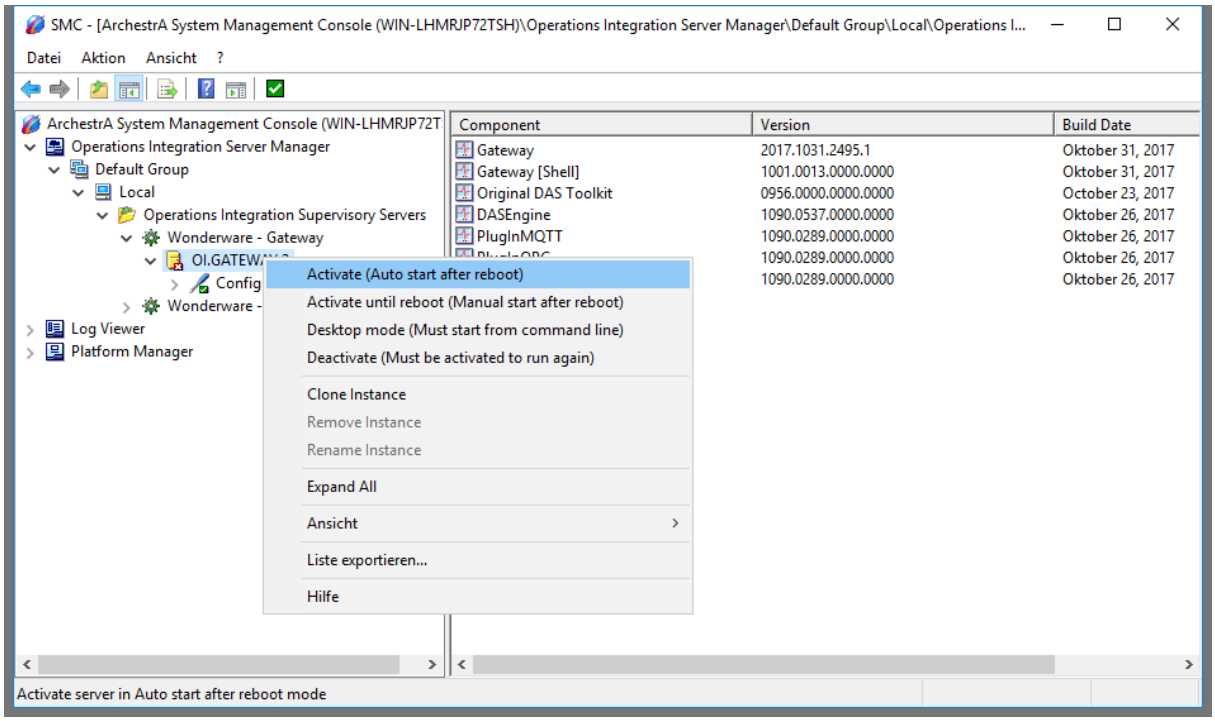




Please note the point after the connection name at "OPC Item ID Prefix" here "PLC1."

## Gateway restart

Afterwards the gateway must be restarted, please do not forget.

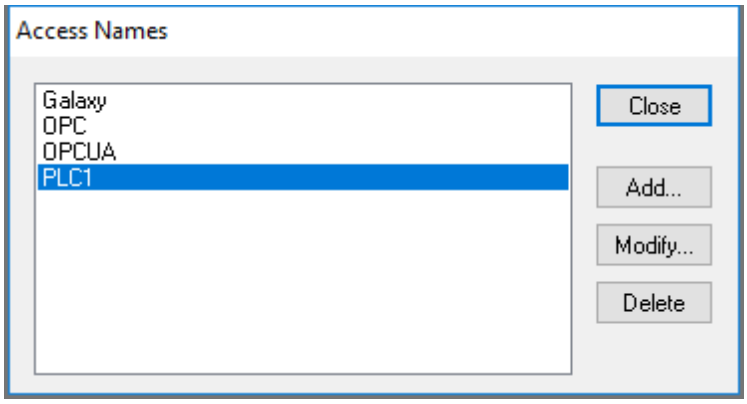


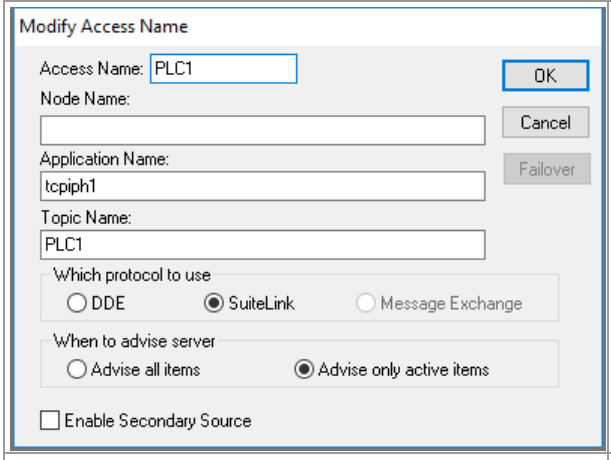
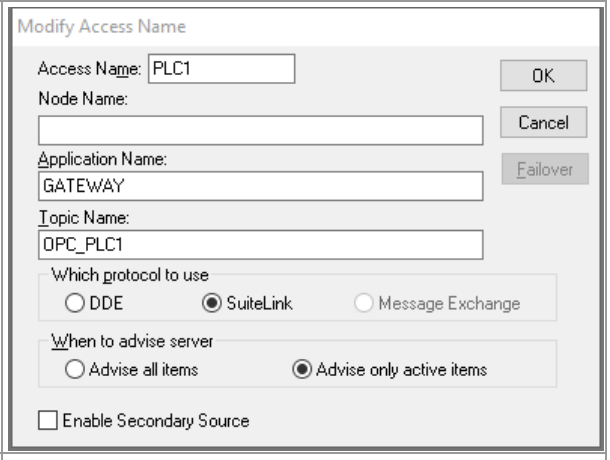

The gateway is now ready to connect to the OPC server.

## 1.4 Intouch Configuration

In Intouch, the Access Name Definition looks like this:



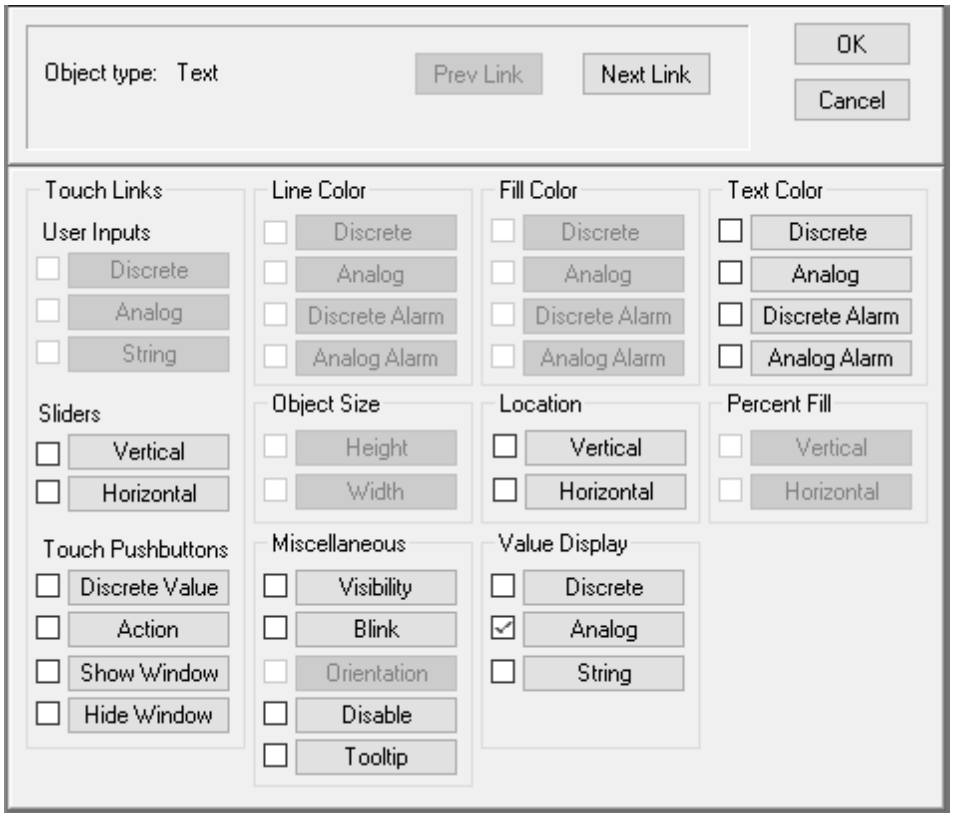

**In Intouch the only change needed is in the configuration of the Access Name, DDE and OPC is compared**

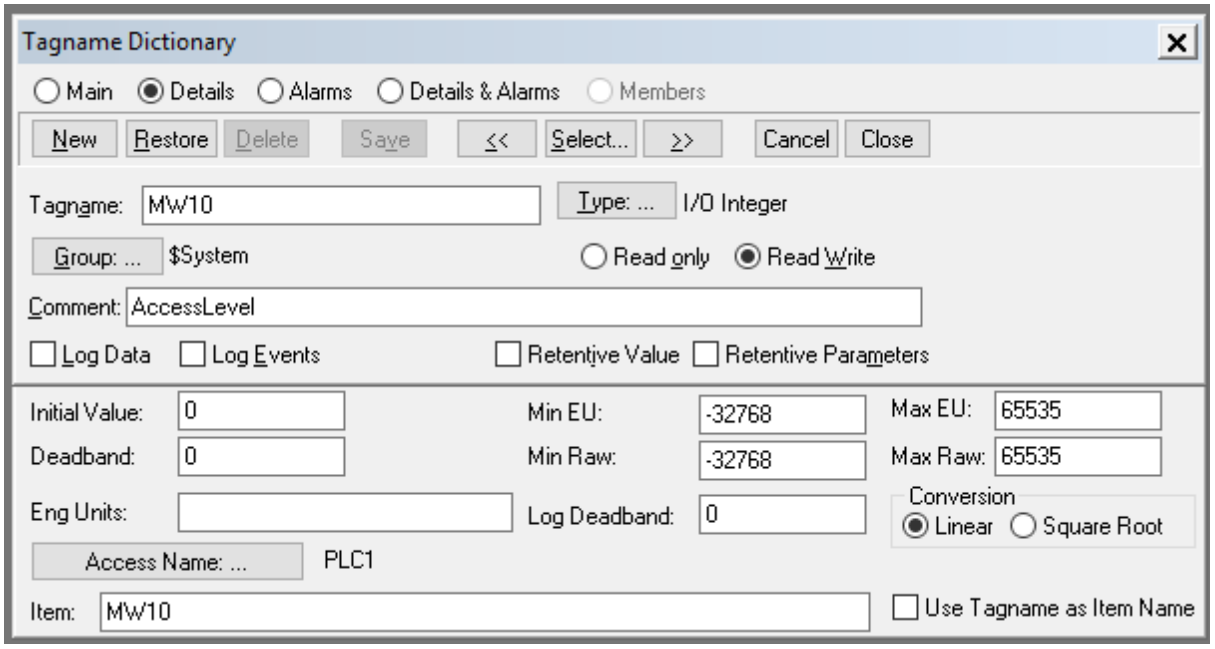
| DDE | OPC |
|---|---|
|  |  |
| | • Here the "Topic Name" is formed by the group "OPC" and the connection "PLC1" separated by the underscore. This corresponds to the "Device Group Name" in the Gateway configuration.<br>• The "Application Name" is called "FsGateway" in older versions. |

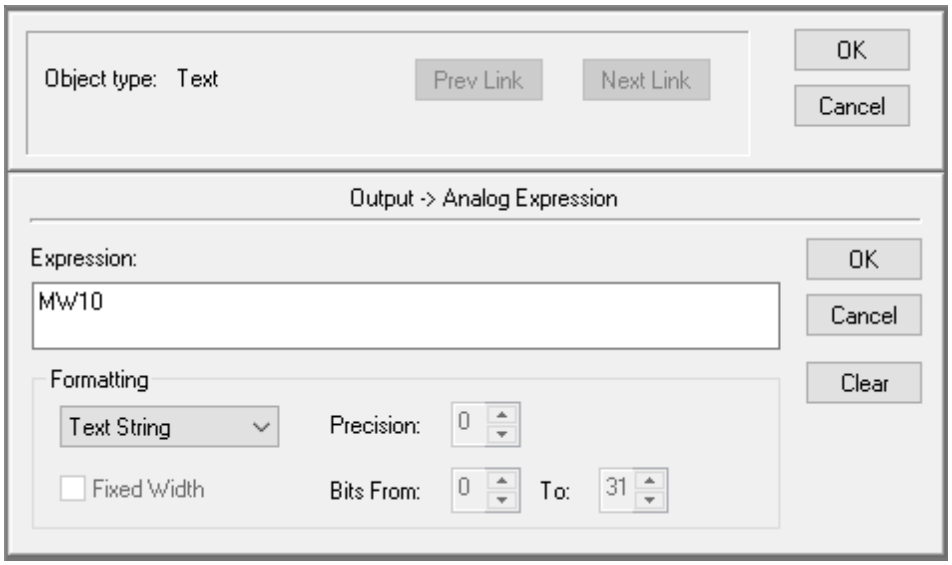




A data point is then defined as follows


Object type: Text
Prev Link
Next Link
OK
Cancel
Touch Links
User Inputs
Discrete
Analog
String
Sliders
Vertical
Horizontal
Touch Pushbuttons
Discrete Value
Action
Show Window
Hide Window
Line Color
Discrete
Analog
Discrete Alarm
Analog Alarm
Object Size
Height
Width
Miscellaneous
Visibility
Blink
Orientation
Disable
Tooltip
Fill Color
Discrete
Analog
Discrete Alarm
Analog Alarm
Location
Vertical
Horizontal
Value Display
Discrete
Analog
String
Text Color
Discrete
Analog
Discrete Alarm
Analog Alarm
Percent Fill
Vertical
Horizontal


Tagname Dictionary
Main
Details
Alarms
Details & Alarms
Members
New
Restore
Delete
Save
<<
Select...
>>
Cancel
Close
Tagname: MW10
Type: ...
I/O Integer
Group: ...
$System
Read only
Read Write
Comment: AccessLevel
Log Data
Log Events
Retentive Value
Retentive Parameters
Initial Value: 0
Deadband: 0
Eng Units:
Access Name: ...
PLC1
Item: MW10
Min EU: -32768
Min Raw: -32768
Log Deadband: 0
Max EU: 65535
Max Raw: 65535
Conversion
Linear
Square Root
Use Tagname as Item Name




The image in which the data point is used looks like this: