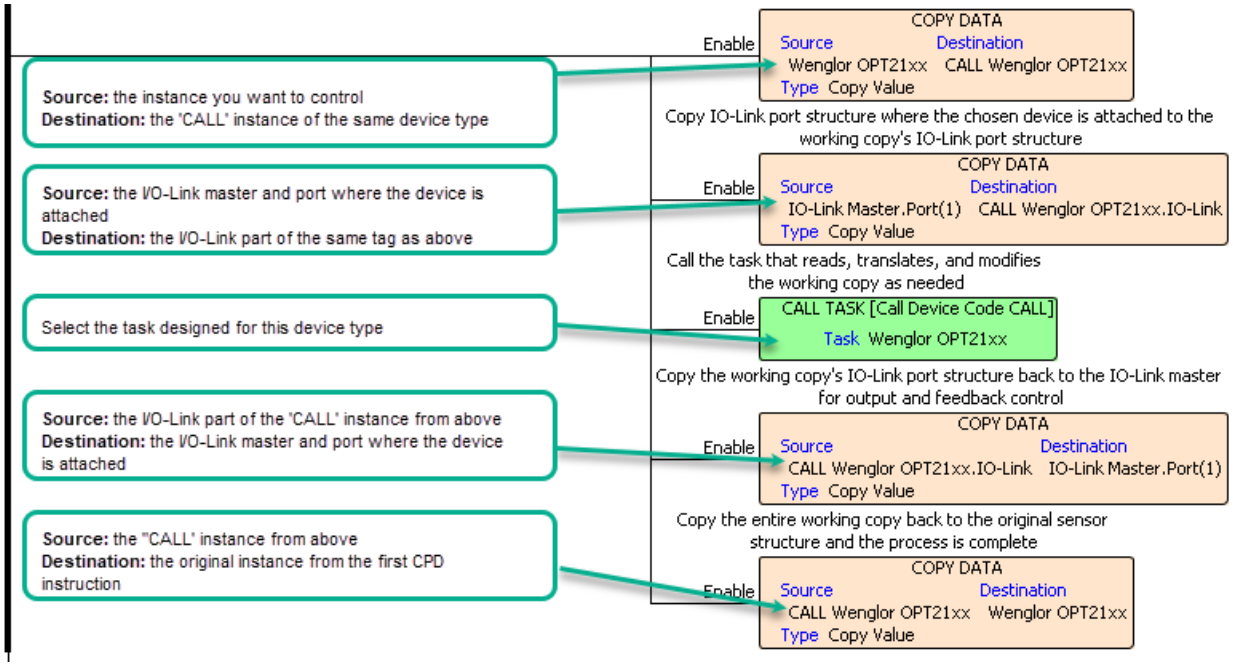
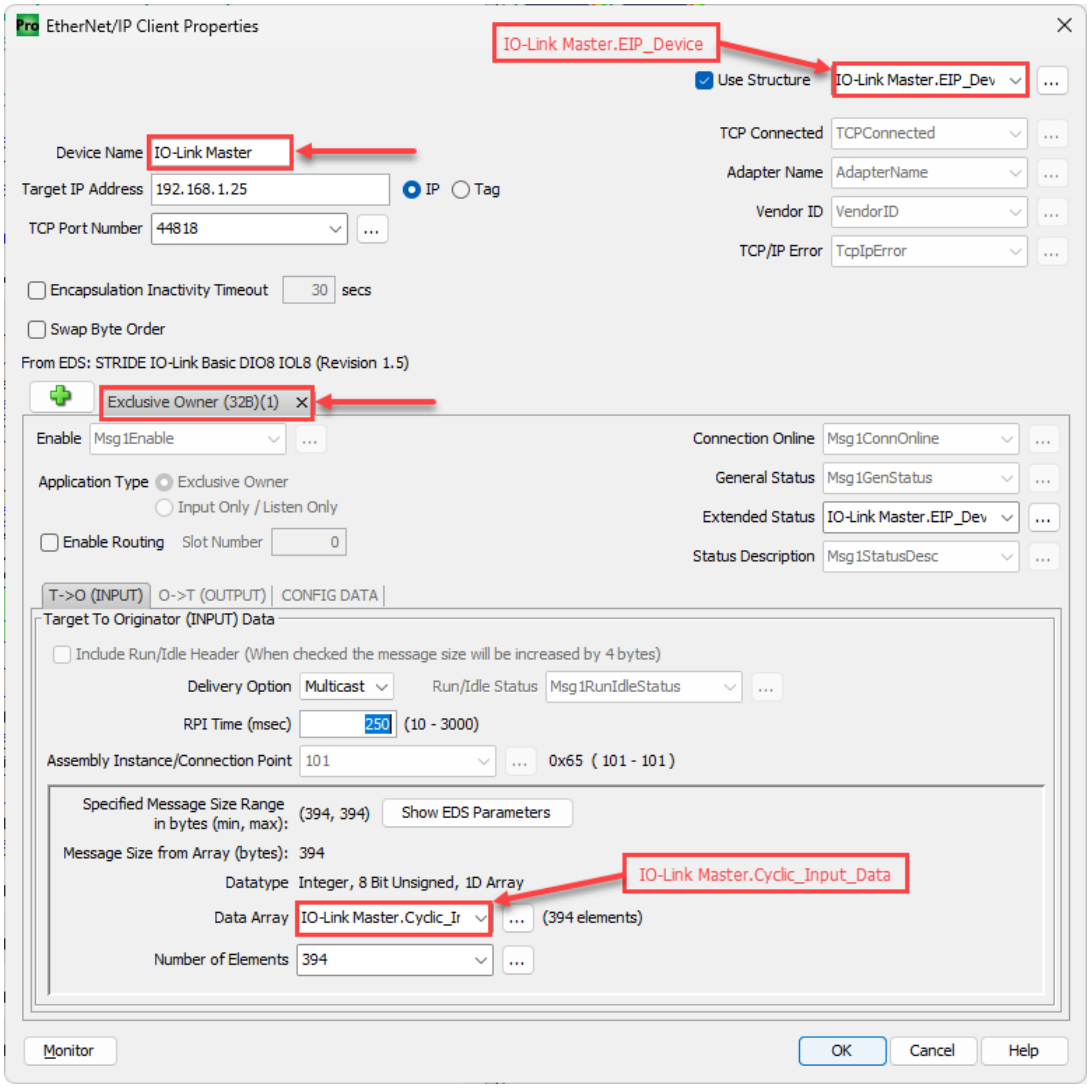
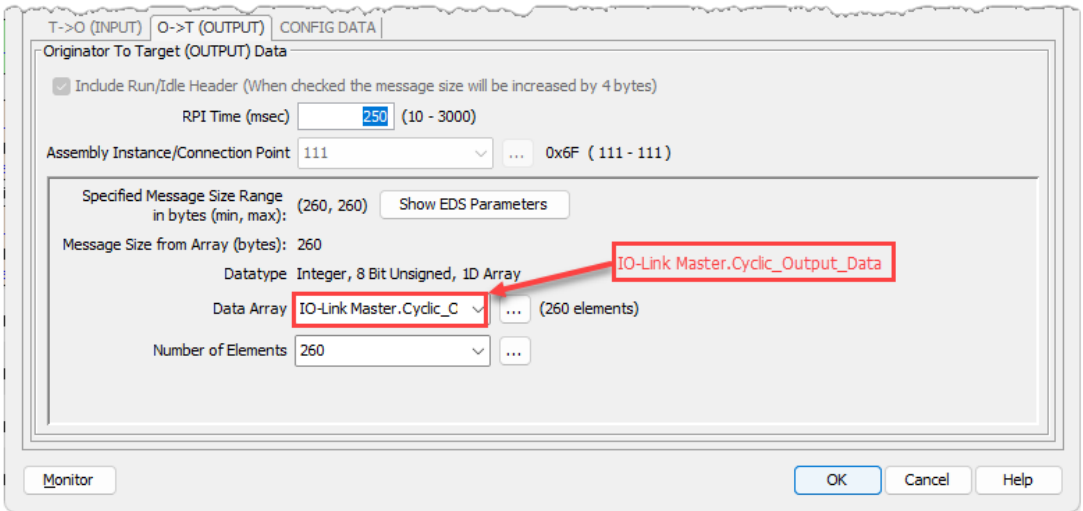
Using the Productivity Suite Integration Library with IO-Link devices

1) Extract the .adtkl file from this zip file
2) In Productivity Suite, in the Task Management window, right-click on the 'Task Library' folder and select 'Import Group'. Navigate to the folder where you extracted the .adtkl file above, select it, and click 'Import'.
3) You'll see a new folder in your **Task Library** labeled with either the device series you downloaded, or if you chose the all-in-one file, labeled "**AutomationDirect IO-Link**".
4) If you don't already have the "**IO-Link Data Mapping**" task in your Run Every Scan folder, drag it there from the new Task Library folder. Click 'OK' when the Tag Conversion window appears. This will create the necessary tags for this task. Repeat this for the "**Call Device Code**" task if you don't already have it loaded in your program.
5) Drag the task with the device series you want to use into the 'Run When Called' folder. Click 'OK' when the Tag Conversion window appears. This will create the necessary tags for this task. In this example, we used the **Wenglor OPT21xx** as our called task.
6) To use multiple devices of the same series, duplicate one rung in the **Call Device Code** task and modify using this as a reference:



7) Create an EtherNet/IP device in Hardware Configuration using the **SIOL-EI8B** or **54631** EDS file. **Note**: It is important that the EtherNet/IP device be setup to use the tags and device name that the integration code is using. In the EtherNet/IP Client Properties, select Use Structure and pick the **IO-Link Master.EIP_Device** tag. Use '**IO-Link Master**' for the Device Name. Use the **IO-Link Master.Cyclic_Input_Data** tag for the T->O (INPUT) Data Array and the **IO-Link Master.Cyclic_Output_Data** tag for the O->T (OUTPUT) Data Array.


EtherNet/IP Client Properties
IO-Link Master.EIP_Device
Use Structure
IO-Link Master.EIP_Dev
Device Name
IO-Link Master
Target IP Address
192.168.1.25
IP
Tag
TCP Port Number
44818
TCP Connected
TCPConnected
Adapter Name
AdapterName
Vendor ID
VendorID
TCP/IP Error
TcpIpError
Encapsulation Inactivity Timeout
30
secs
Swap Byte Order
From EDS: STRIDE IO-Link Basic DIO8 IOL8 (Revision 1.5)
Exclusive Owner (32B)(1)
Enable
Msg1Enable
Connection Online
Msg1ConnOnline
Application Type
Exclusive Owner
Input Only / Listen Only
General Status
Msg1GenStatus
Extended Status
IO-Link Master.EIP_Dev
Enable Routing
Slot Number
0
Status Description
Msg1StatusDesc
T->O (INPUT)
O->T (OUTPUT)
CONFIG DATA
Target To Originator (INPUT) Data
Include Run/Idle Header (When checked the message size will be increased by 4 bytes)
Delivery Option
Multicast
Run/Idle Status
Msg1RunIdleStatus
RPI Time (msec)
250
(10 - 3000)
Assembly Instance/Connection Point
101
0x65 (101 - 101)
Specified Message Size Range in bytes (min, max):
(394, 394)
Show EDS Parameters
Message Size from Array (bytes):
394
Datatype
Integer, 8 Bit Unsigned, 1D Array
IO-Link Master.Cyclic_Input_Data
Data Array
IO-Link Master.Cyclic_Ir
(394 elements)
Number of Elements
394
Monitor
OK
Cancel
Help


T->O (INPUT)
O->T (OUTPUT)
CONFIG DATA
Originator To Target (OUTPUT) Data
Include Run/Idle Header (When checked the message size will be increased by 4 bytes)
RPI Time (msec)
250
(10 - 3000)
Assembly Instance/Connection Point
111
0x6F (111 - 111)
Specified Message Size Range in bytes (min, max):
(260, 260)
Show EDS Parameters
Message Size from Array (bytes):
260
Datatype
Integer, 8 Bit Unsigned, 1D Array
IO-Link Master.Cyclic_Output_Data
Data Array
IO-Link Master.Cyclic_C
(260 elements)
Number of Elements
260
Monitor
OK
Cancel
Help