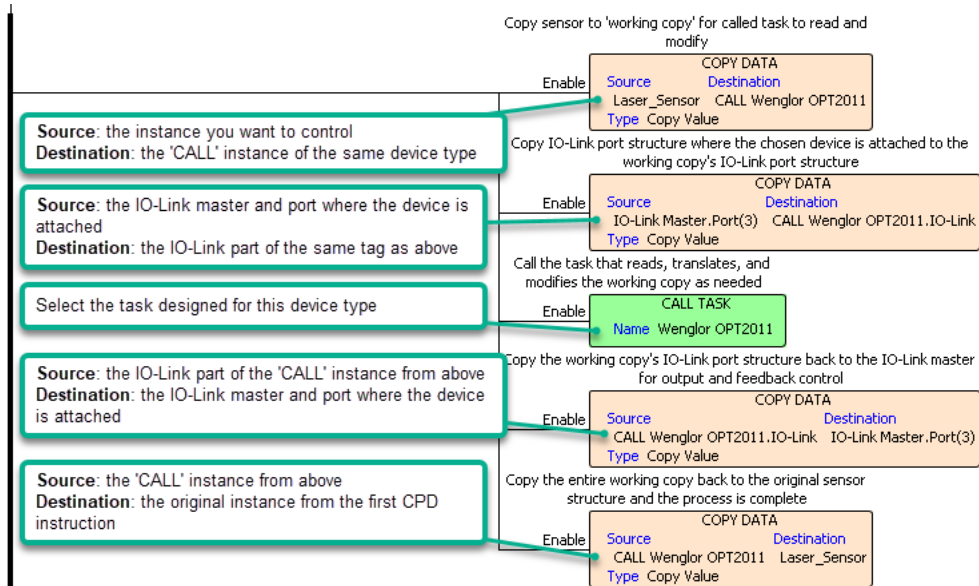


Using the Productivity Suite Integration Library with IO-Link devices

- 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 OPT2011** 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

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

Application Type ☒ Exclusive Owner ☐ Input Only / Listen Only

Enable Routing Slot Number 0

Connection Online Msg1ConnOnline

General Status Msg1GenStatus

Extended Status **IO-Link Master.EIP_Dev**

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

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

Data Array **IO-Link Master.Cyclic_Output_Data** (260 elements)

Number of Elements 260

Monitor OK Cancel Help