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 **Werma eSIGN Stacklights** 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:

Source: the instance you want to control
Destination: the 'CALL' instance of the same device type

Copy sensor to 'working copy' for called task to read and modify
Enable — COPY DATA
Source   Destination
Stacklight   CALL Werma eSIGN
Type Copy Value

Source: the IO-Link Master and (port) where the device is attached
Destination: the IO-Link part of the same tag as above

Copy IO-Link port structure where the chosen device is attached to the working copy's IO-Link port structure
Enable — COPY DATA
Source   Destination
IO-Link Master.Port(1)   CALL Werma eSIGN.IO-Link
Type Copy Value

Select the task designed for this device type

Call the task that reads, translates, and modifies the working copy as needed
Enable — CALL TASK
Name Werma eSIGN Stacklights

Source: the IO-Link part of the 'CALL' instance from above
Destination: the IO-Link Master and (port) where the

Copy the working copy's IO-Link port structure back to the IO-Link master for output and feedback control
Enable — COPY DATA
Source   Destination
CALL Werma eSIGN.IO-Link   IO-Link Master.Port(1)
Type Copy Value

Source: the 'CALL' instance from above
Destination: the origional instance from the first CPD instruction

Copy the entire working copy back to the original sensor structure and the process is complete
Enable — COPY DATA
Source   Destination
CALL Werma eSIGN   Stacklight
Type Copy Value