

BECKHOFF

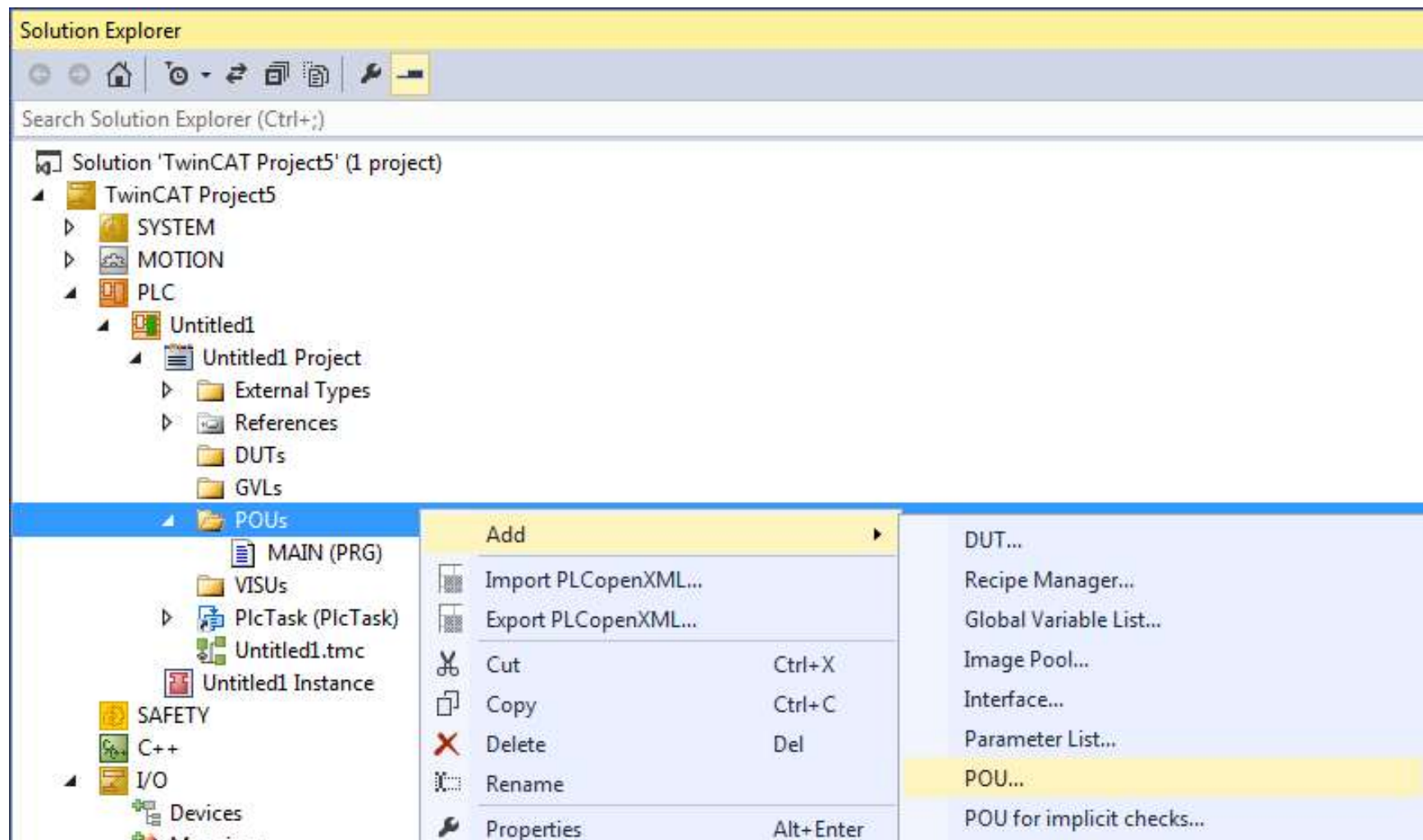


Multiple PLC Tasks

Multiple PLC Tasks

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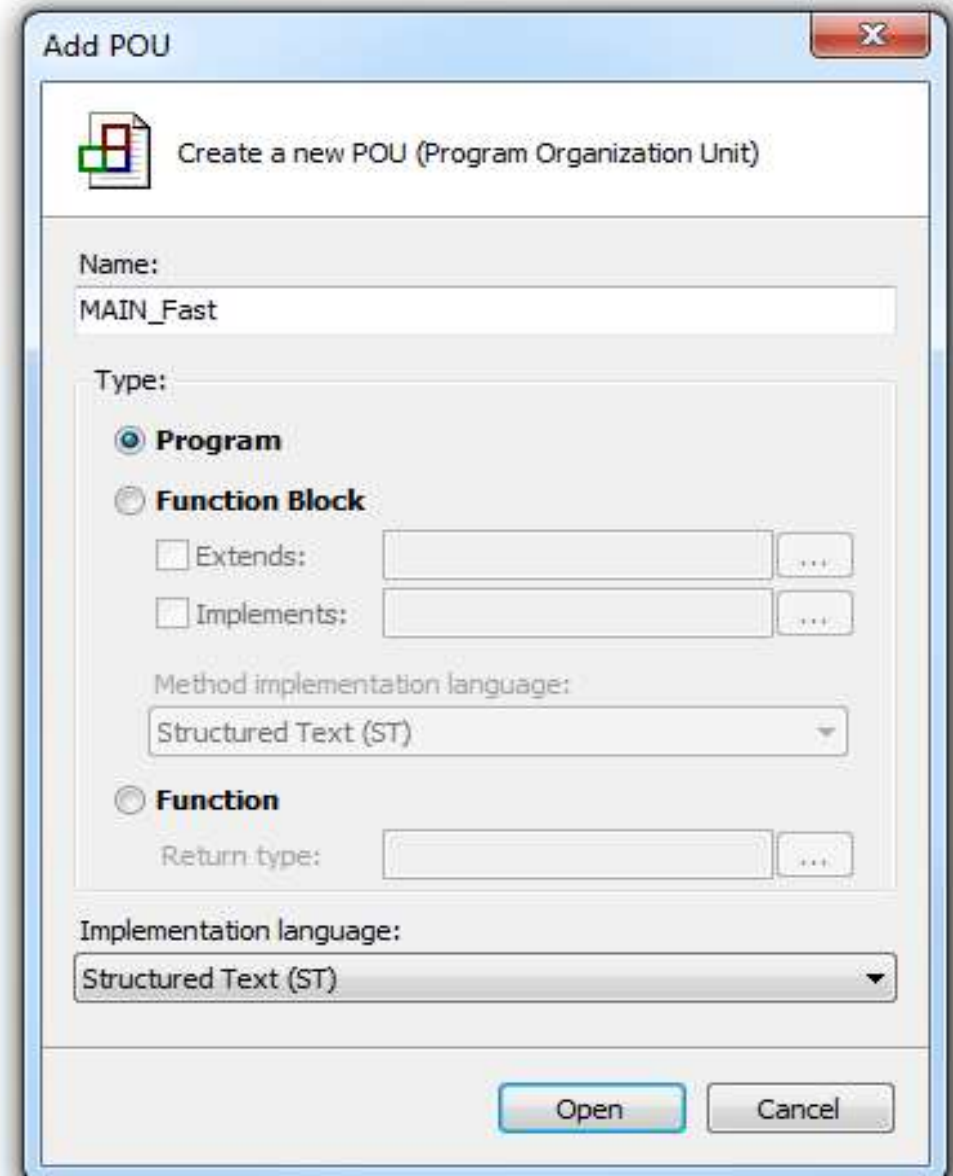
- Right-Click on POU, select 'Add', then select 'POU...'



Multiple PLC Tasks

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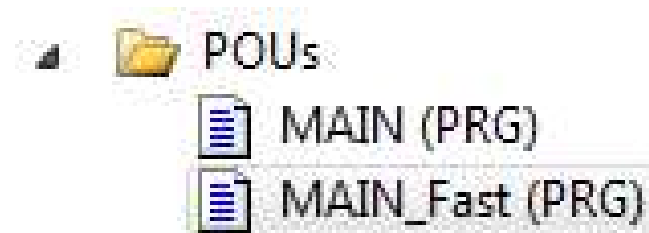
- Give the POU a name
- Set the 'Type' to 'Program'
- Click 'Open'



The screenshot shows the 'Add POU' dialog box with the following fields and options:

- Title Bar:** 'Add POU' with a close button (X).
- Icon:** A document icon with a grid.
- Description:** 'Create a new POU (Program Organization Unit)'.
- Name:** A text field containing 'MAIN_Fast'.
- Type:** A group box containing:
 - ☒ **Program**
 - ☐ **Function Block**
 - ☐ Extends: [text field] [...]
 - ☐ Implements: [text field] [...]
 - ☐ **Function**
 - Return type: [text field] [...]
- Method implementation language:** A dropdown menu showing 'Structured Text (ST)'.
- Implementation language:** A dropdown menu showing 'Structured Text (ST)'.
- Buttons:** 'Open' and 'Cancel' at the bottom right.

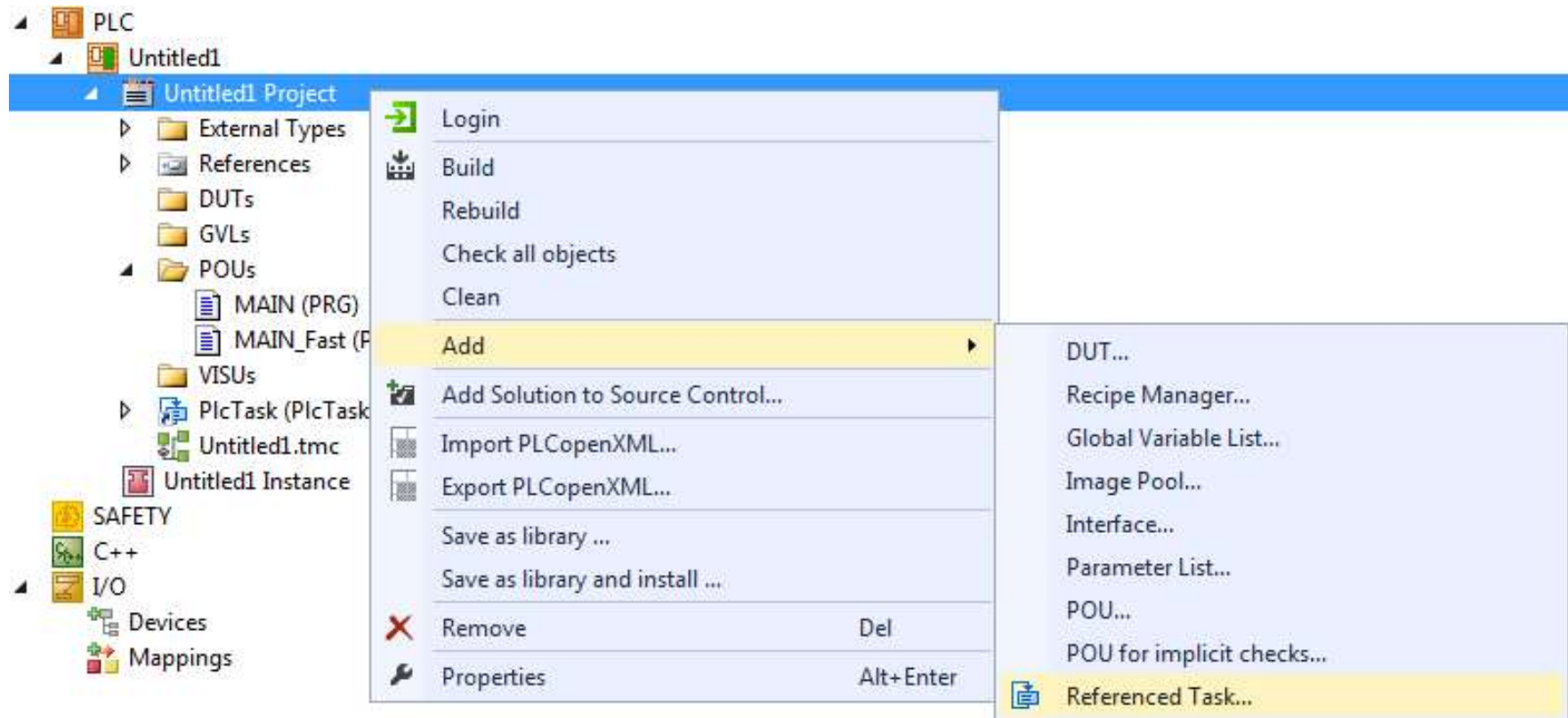
- The new Program has been added to the 'POU' list



Multiple PLC Tasks

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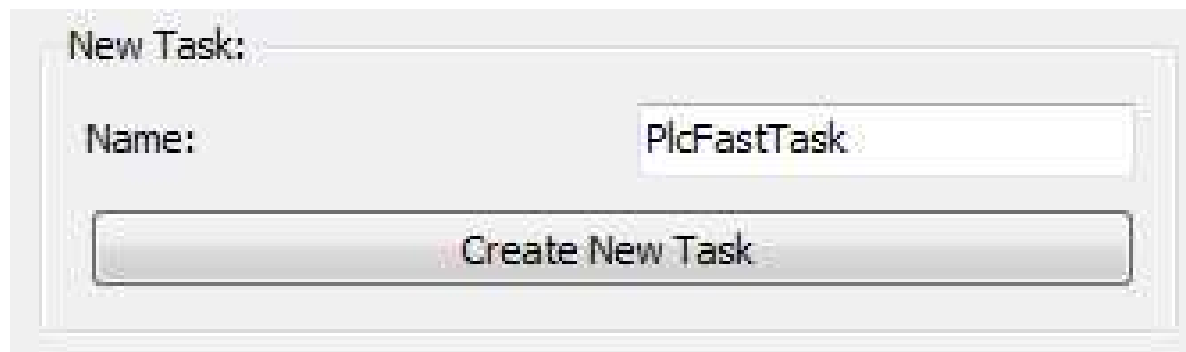
- Under 'PLC', Right-Click 'Untitled1 Project', select 'Add', select 'Referenced Task...'



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- In the 'New Task' section, provide a unique name for the 'Task'
- Click 'Create New Task'

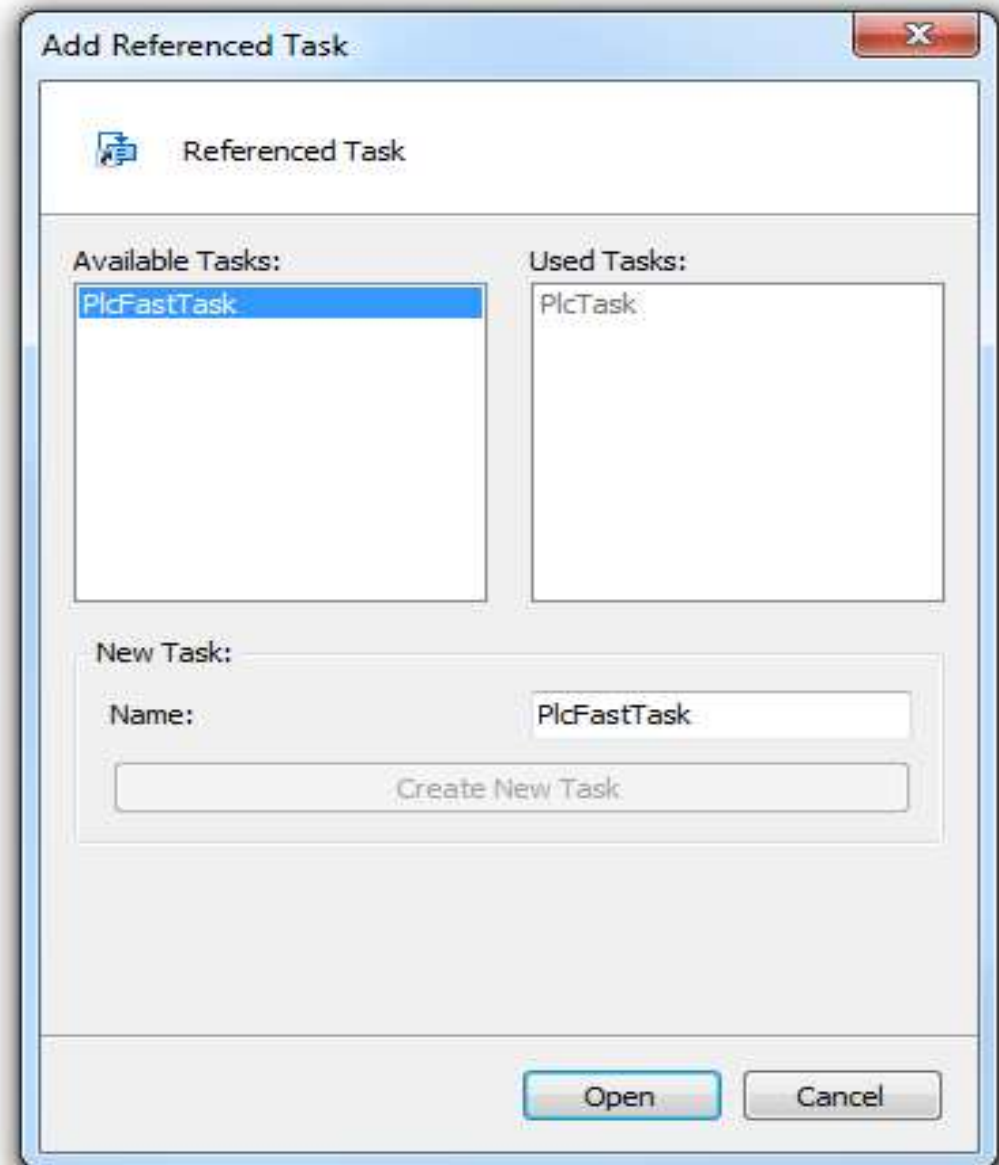


The image shows a 'New Task' dialog box. It has a title bar that says 'New Task:'. Below the title bar, there is a label 'Name:' followed by a text input field containing the text 'PlcFastTask'. At the bottom of the dialog box, there is a button labeled 'Create New Task'.

Multiple PLC Tasks

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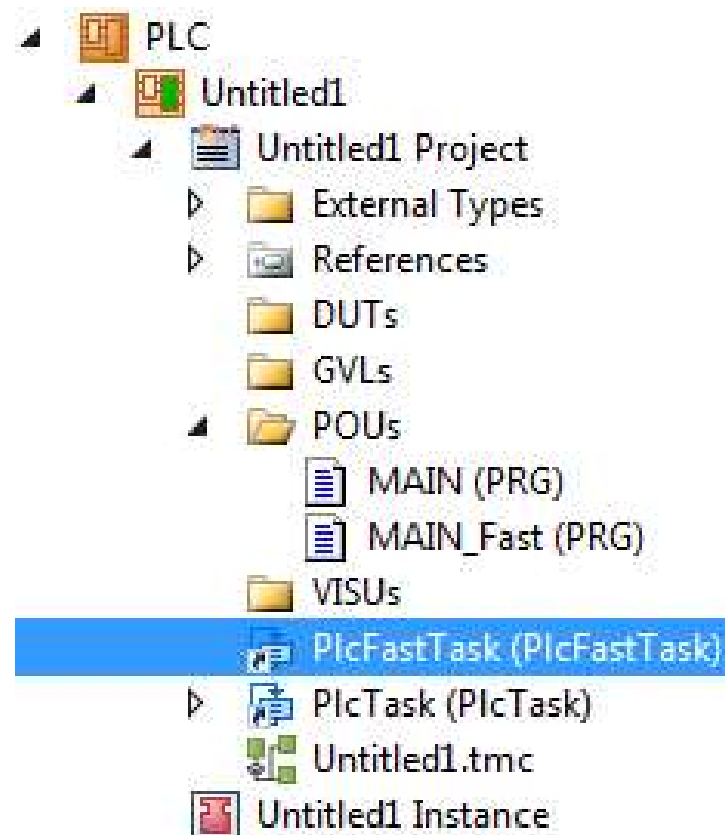
- Select the task under the 'Available Tasks:' column
- Click 'Open'



Multiple PLC Tasks

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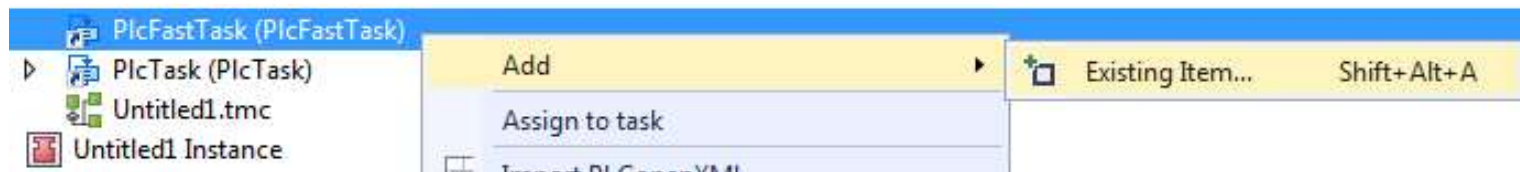
- The new task has been added



Multiple PLC Tasks

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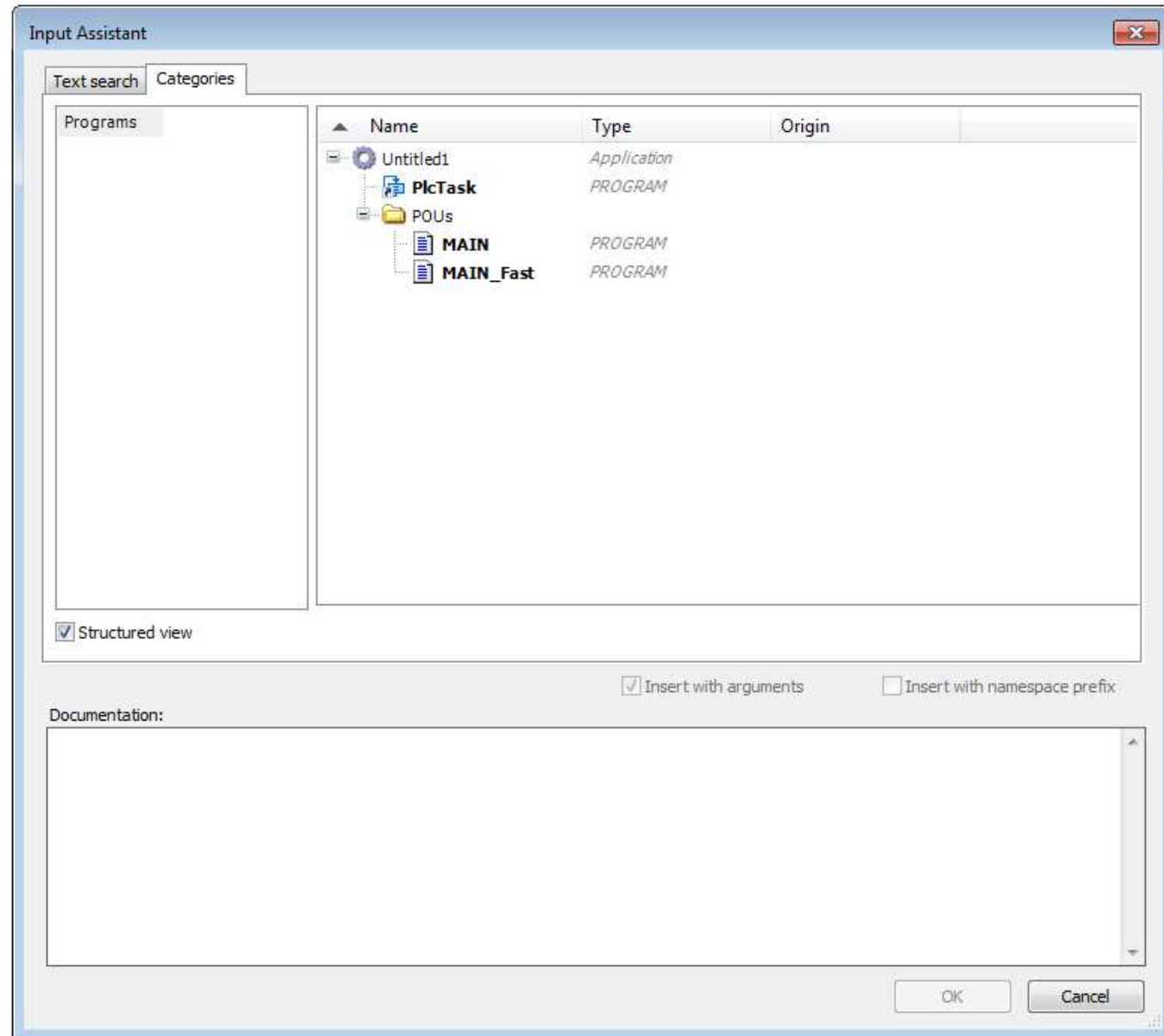
- Right-Click on the name of the new task
- Select 'Add', 'Existing Item...'



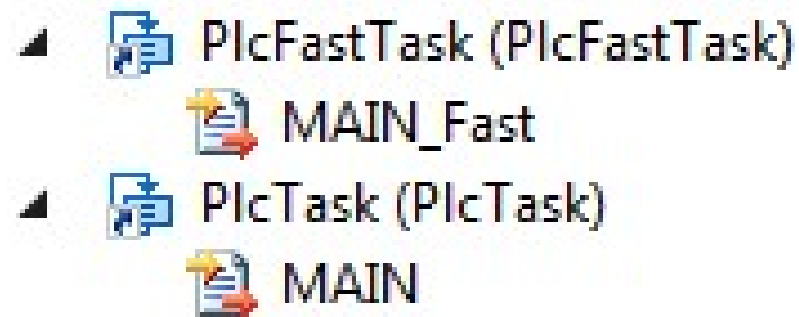
Multiple PLC Tasks

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- Select the desired POU name from the 'Items' section
- Click 'OK'



- The 'POU' is now called by the 'Task'



- Double-Click on the Task to view its properties

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- The first Task is at Port 350 with a Priority of 20
- The second Task is at Port 351 with a Priority of 21

Task: **Online** | **Parameter (Online)**

Name:

Port:

Object Id:

☒ Auto start

☐ Auto Priority Management

Priority:

Cycle ticks: ms

Start tick (modulo):

☐ Separate input update

Pre ticks:

☐ Warning by exceeding

☐ Message box

Watchdog Cycles:

Options

☐ Disable

☐ Create symbols

☐ Include external symbols

...

Comment:

Multiple PLC Tasks

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- Adjust the 'Cycle Ticks' to change how often the task starts its execution.
- The lower the priority (closer to 0), the lower the ticks.

TwinCAT Project5

Task Online Parameter (Online)

Name: PlcFastTask

Port: 351

Object Id: 0x02010050

☒ Auto start

☐ Auto Priority Management

Priority: 19

Cycle ticks: 2 2.000 ms

Start tick (modulo): 0

☐ Separate input update

Pre ticks: 0

☐ Warning by exceeding

☐ Message box

Watchdog Cycles: 0

Options

☐ Disable

☐ Create symbols

☐ Include external symbols

☒ Floating point exceptions

Comment:

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