## INTECRIO: CAN messages

? Question

- o   I want to send CAN messages
- o   How do I implement this in INTECRIO?
- o   The CAN messages will be used to activate sensors
- o   These sensors will receive the measurement signals via CAN
- o   How to send CAN message in order to activate a sensor
- o   The sensors receive the measurement signals via CAN
- o   Is it possible to configure CAN message in INTECRIO to communicate with sensors?

💡 Answer

- o   In INTECRIO it is possible to create a CAN device for an ES910 under **Hardware Systems**
- o   This CAN device allows to create any CAN messages (frames and signals)
- o   Finally, configure the OS accordingly

- o   In **INTECRIO → Workspace → Hardware → Hardware Systems**: Right mouse button click → **Add Hardware System ...**
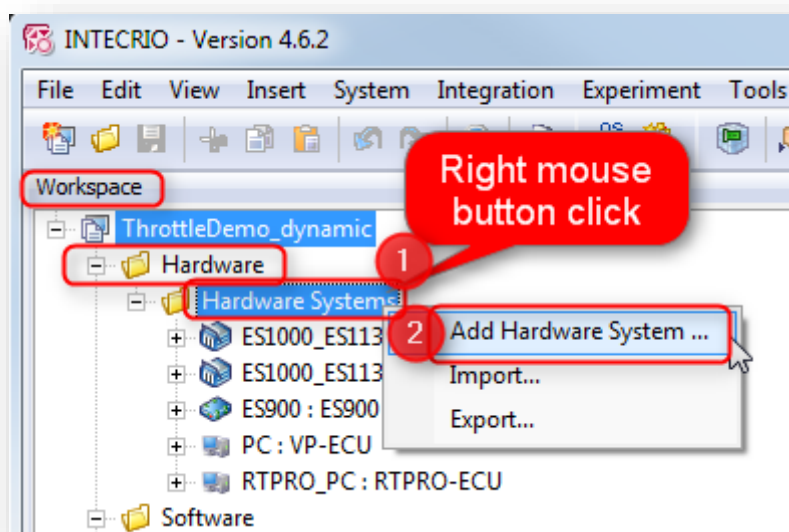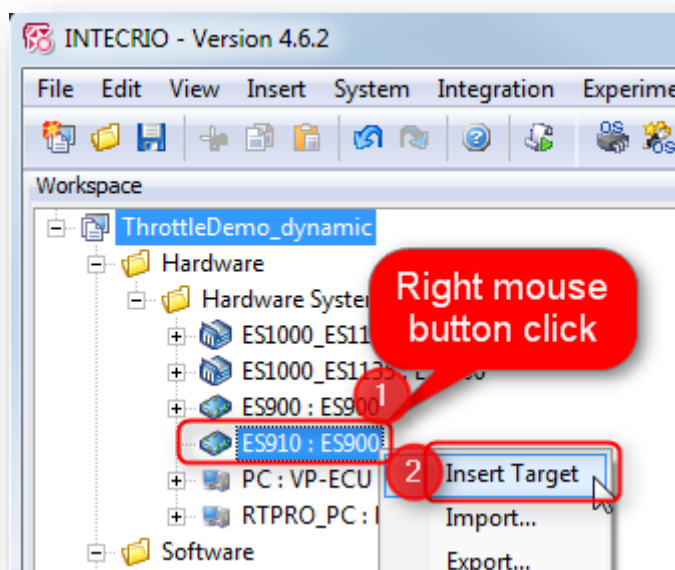
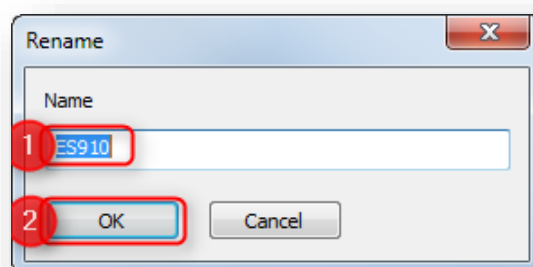o In dialog **Insert Hardware System** → **ES900 System** → Click **Insert** button
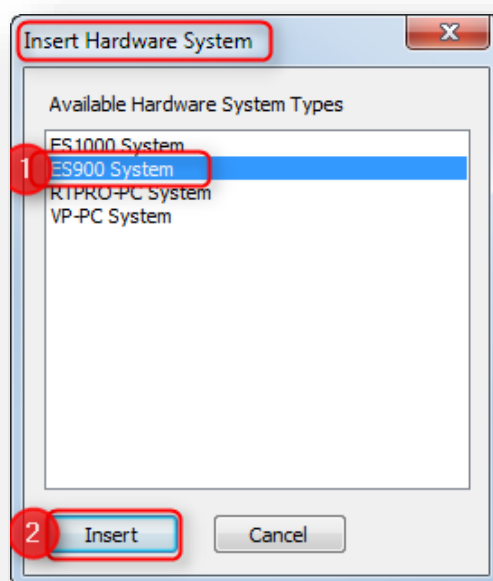
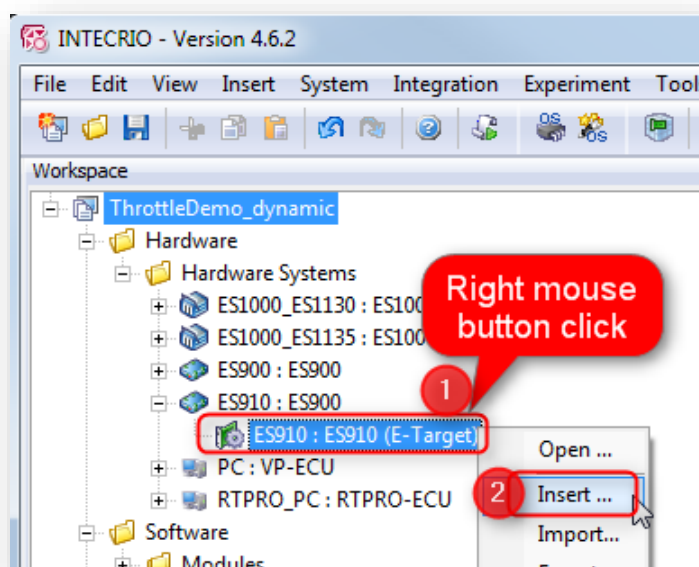o In dialog **Rename** → Field **Name**: Type a name → Click **OK** button
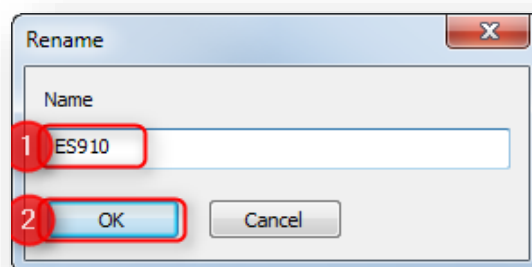
o On newly created hardware system "**ES910 : ES900**" → Right mouse button click → **Insert Target**
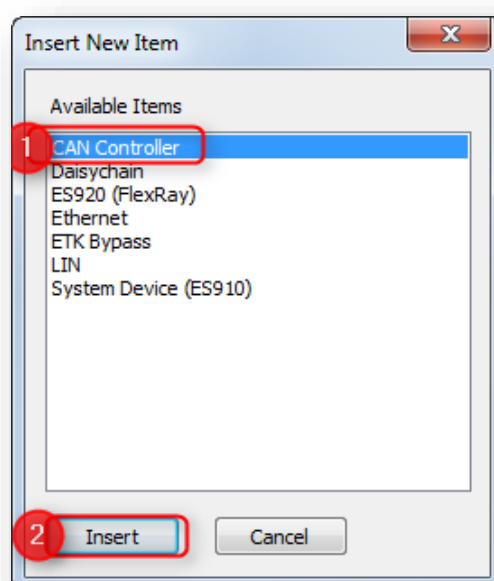
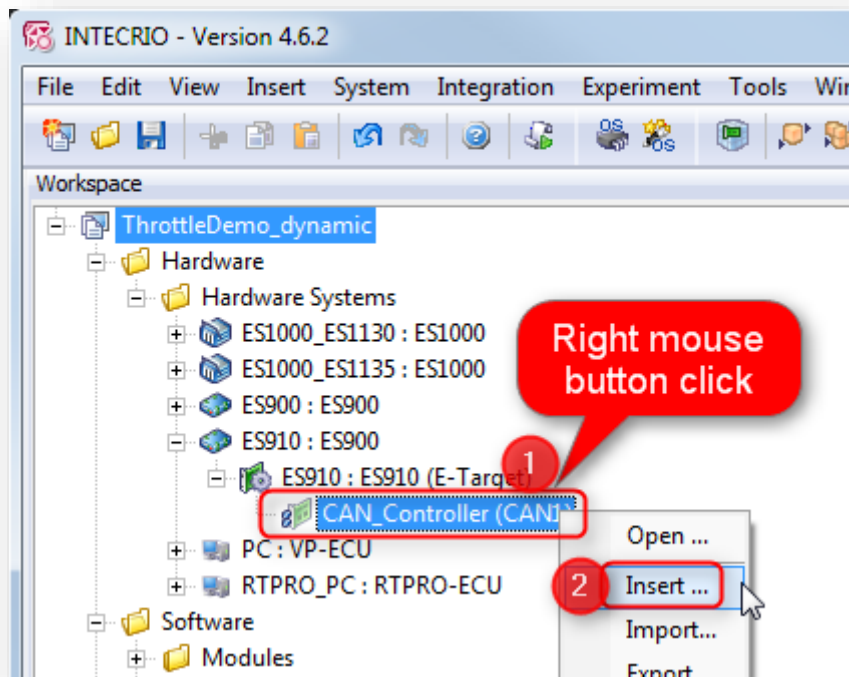o   In dialog **Rename** → Field **Name**: Type a name → Click **OK** button

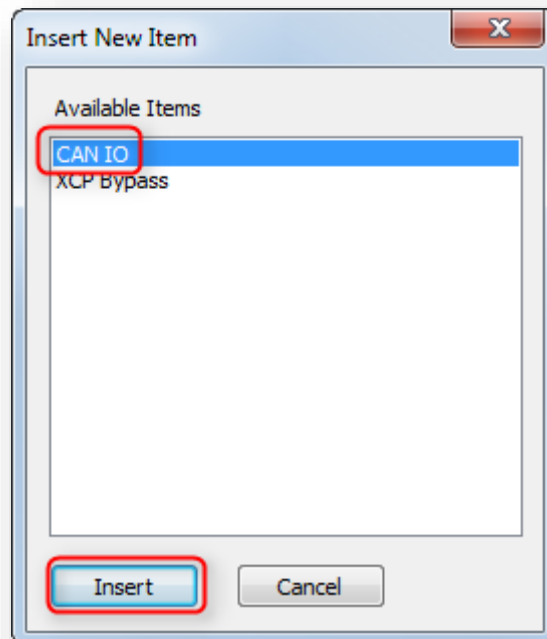o   On newly created target "**ES910 : ES910 (E-Target)**" → Right mouse button click → **Insert …**

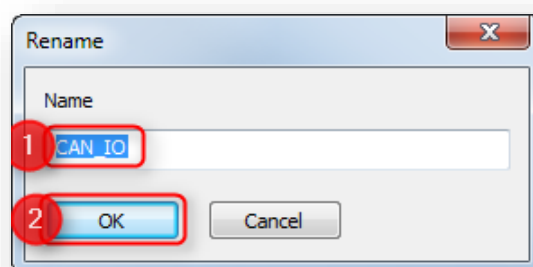o   In dialog **Insert New Item** → Select **CAN Controller** → Click **Insert** button

o   On newly created **CAN_controller (CAN1)** → Right mouse button click → **Insert ...**
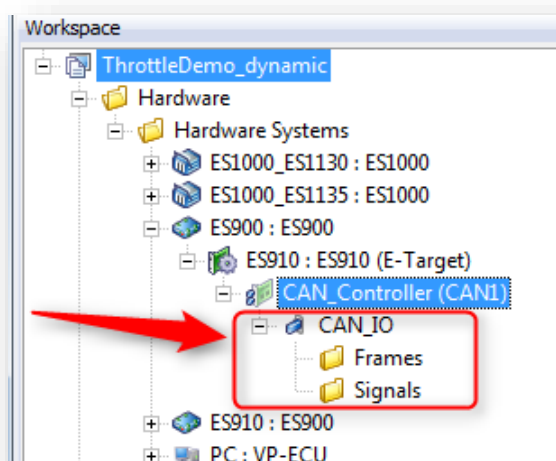

o   In dialog **Insert New Item** → Select **CAN IO** → Click **Insert** button
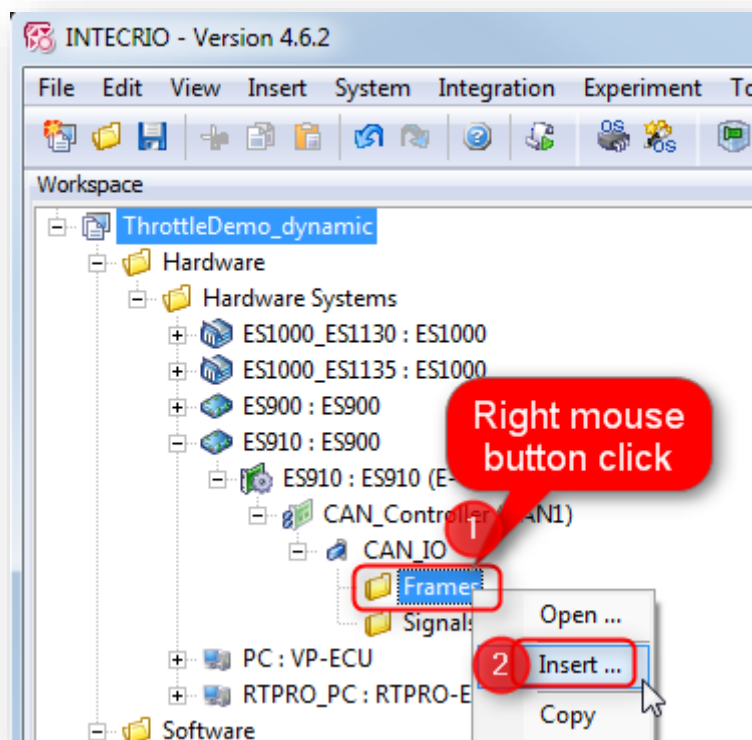
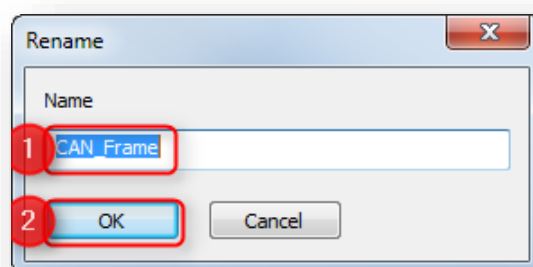o   In dialog **Rename** → Field **Name**: Type a name → Click **OK** button

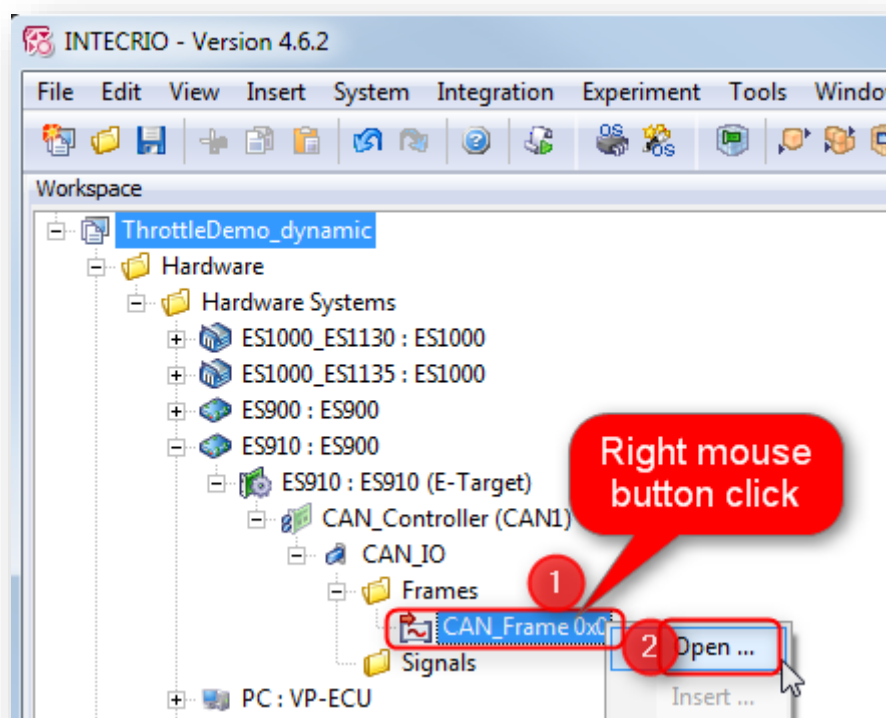o   Expand newly created **CAN_IO**

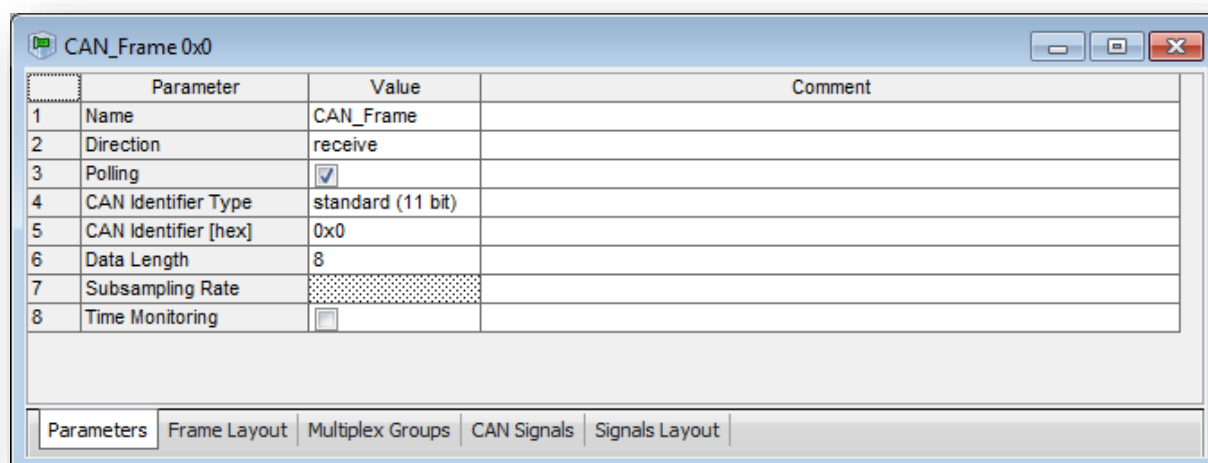o   On **Frames** → Right mouse button click → **Insert …**

o In dialog **Rename** → Field **Name**: Type a name → Click **OK** button

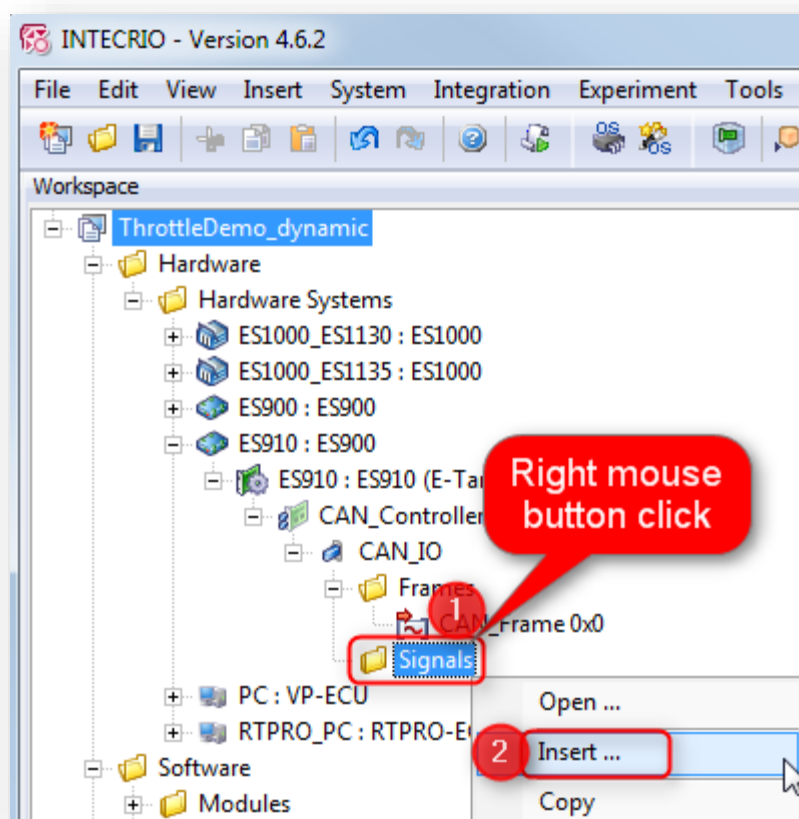o On newly created frame → Right mouse button click → **Open ...**
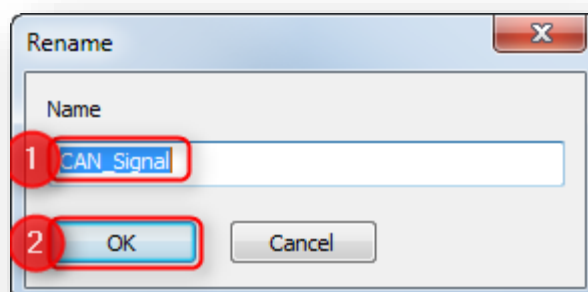

o Dialog **CAN_Frame** is displayed:

	Parameter	Value	Comment
1	Name	CAN_Frame	
2	Direction	receive	
3	Polling	☑	
4	CAN Identifier Type	standard (11 bit)	
5	CAN Identifier [hex]	0x0	
6	Data Length	8	
7	Subsampling Rate		
8	Time Monitoring	☐	

Parameters | Frame Layout | Multiplex Groups | CAN Signals | Signals Layout
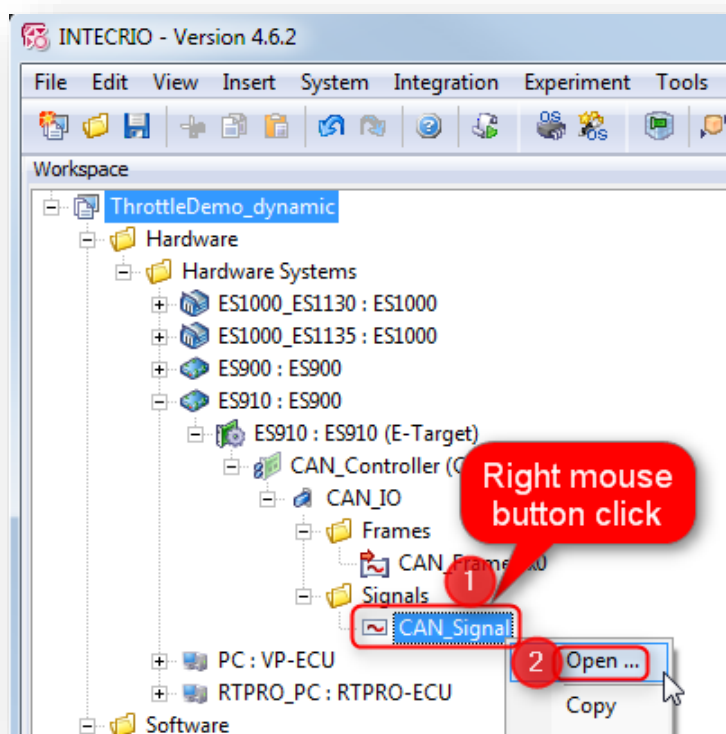
o Edit the values if required

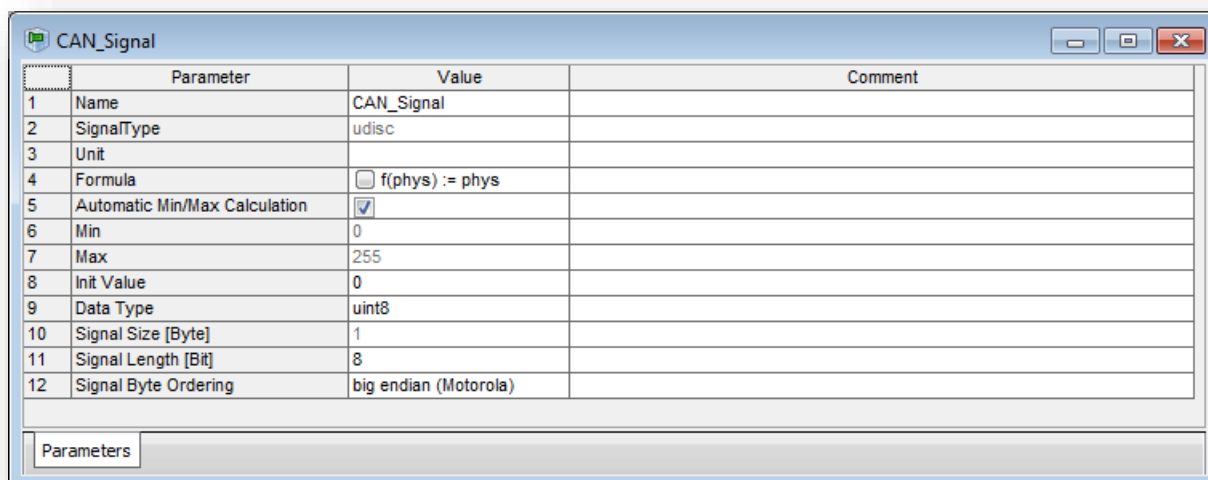o On **Signals** → Right mouse button click → **Insert …**

o In dialog **Rename** → Field **Name**: Type a name → Click **OK** button

o On newly created signal **CAN_Signal** → Right mouse button click → **Open ...**
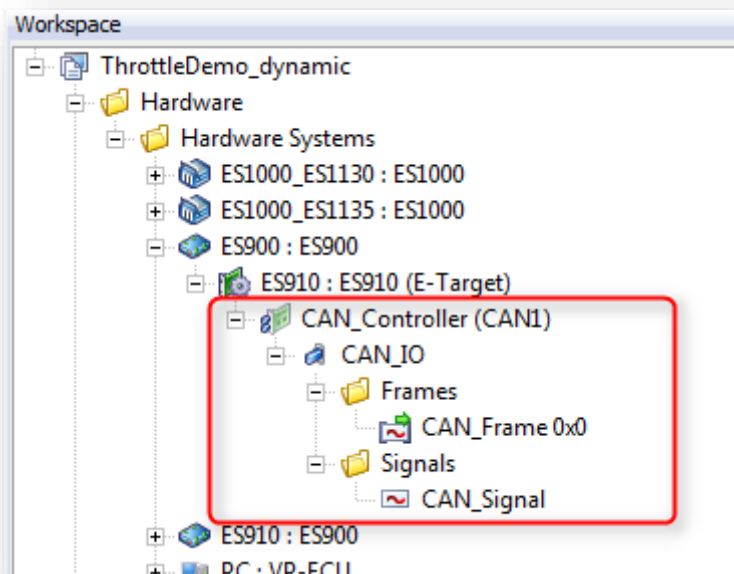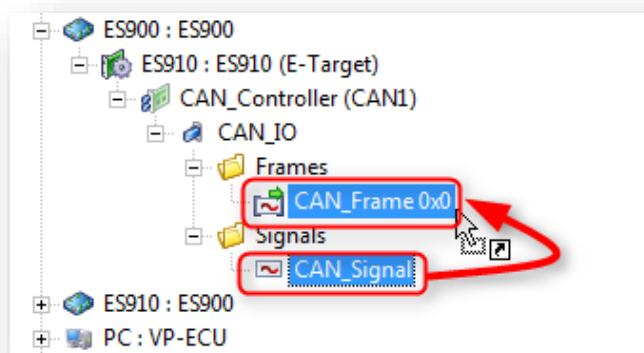

o Dialog **CAN_Signal** is displayed
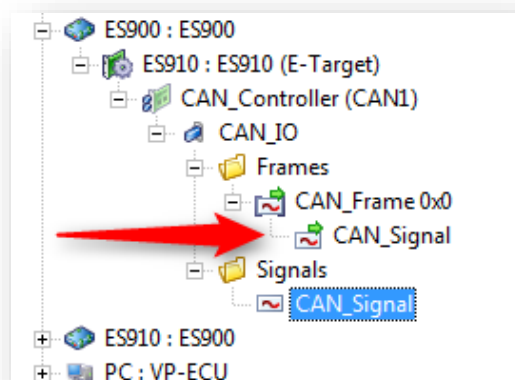

o Edit the values if required

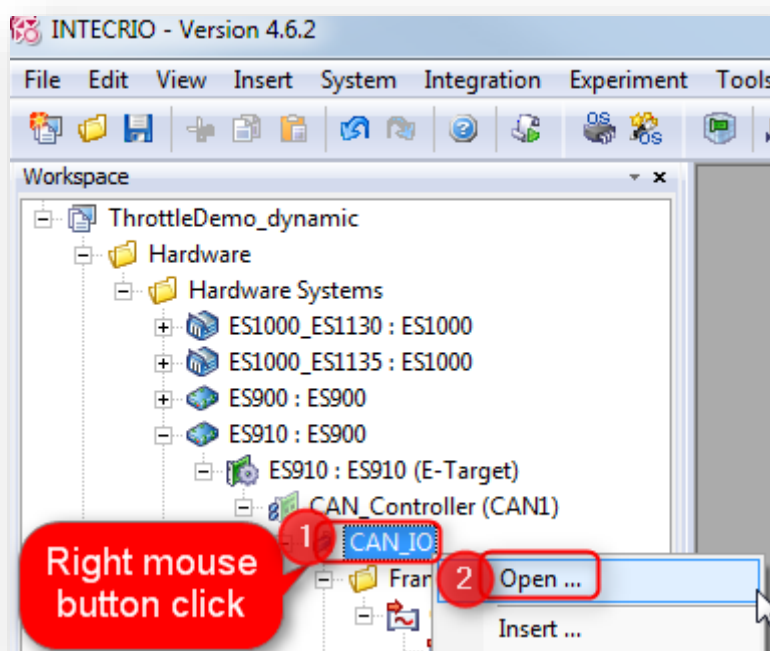o   Now, we have created a CAN frame and a CAN signal:

o   It is possible to associate CAN signals to CAN frames via drag and drop
o   On CAN **signal** → Click and hold left mouse button → Move mouse pointer to Can **frame** → Release left mouse button
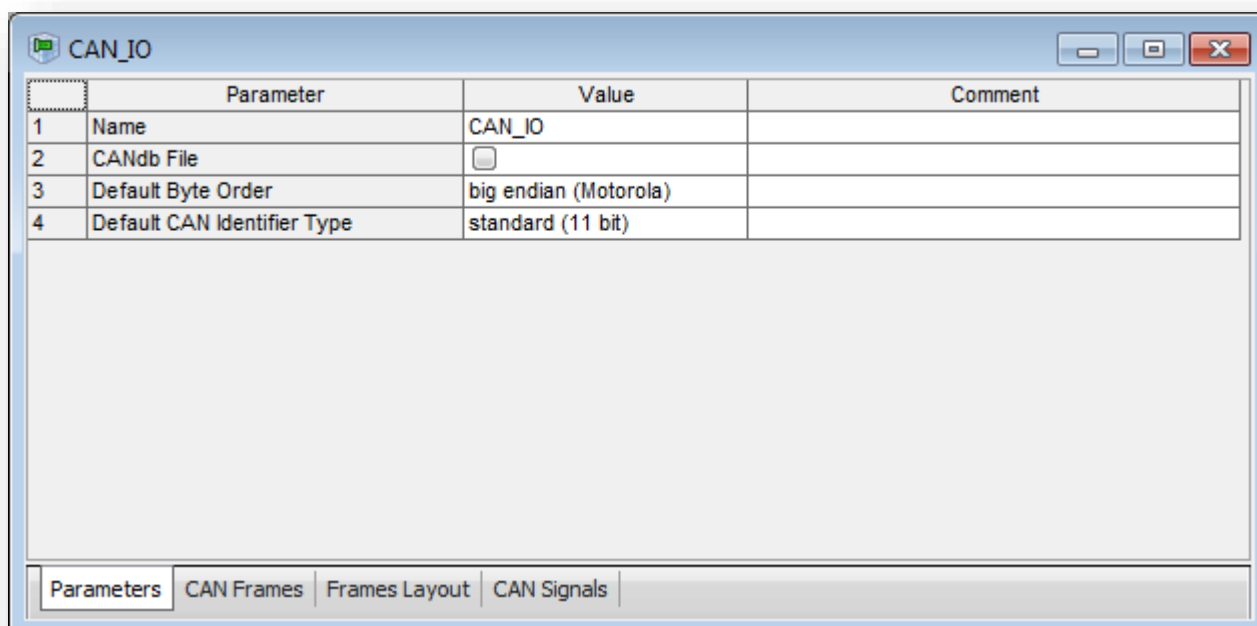

o   The CAN signal will be displayed under the associated CAN frame

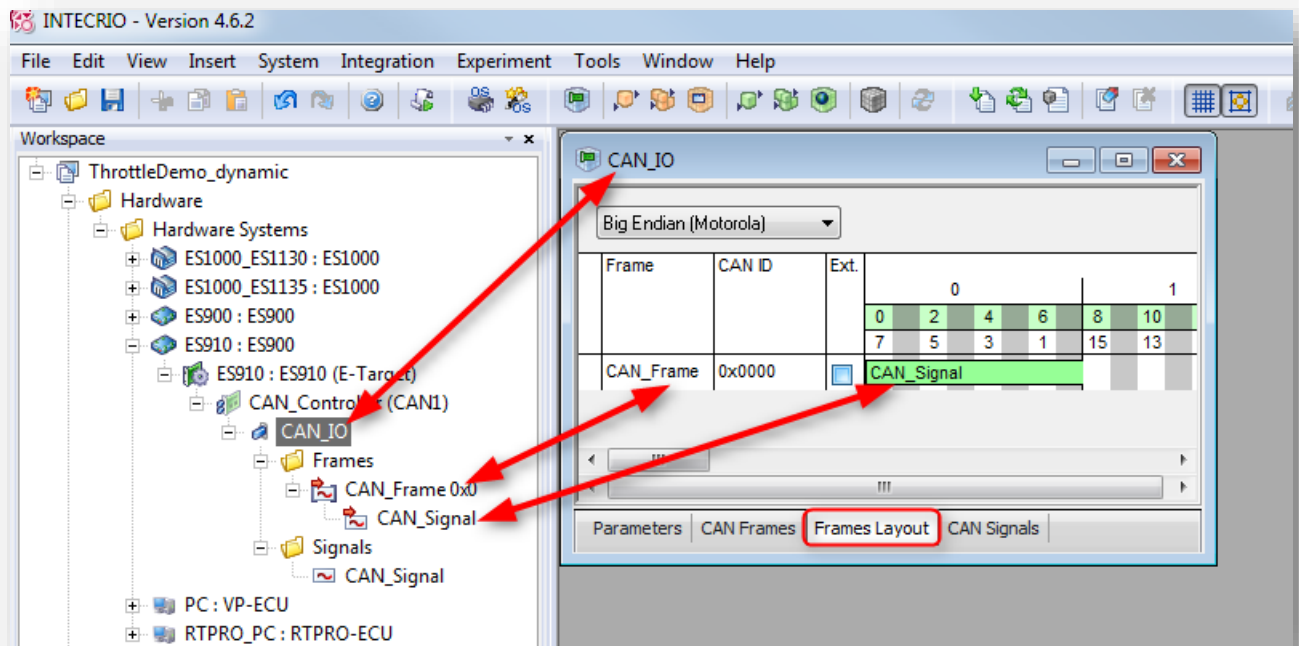o On **CAN_IO** → Right mouse button click → **Open ...**


o Dialog **CAN_IO** is displayed:

o Edit the values if required

o   Click on tabs to investigate the configuration, for example tab **Frames Layout**:

Finally, configure the OS

o   Navigate to **Systems → System_ES900 → ES900 → ES910 → OS Configuration**
o   Left mouse button double click
o   In dialog **System_ES900 - ES900 - ES910 - OS Configuration** → Tab **Hardware** →
    Drag and drop **CAN_Frame** to **auto_10msTask**
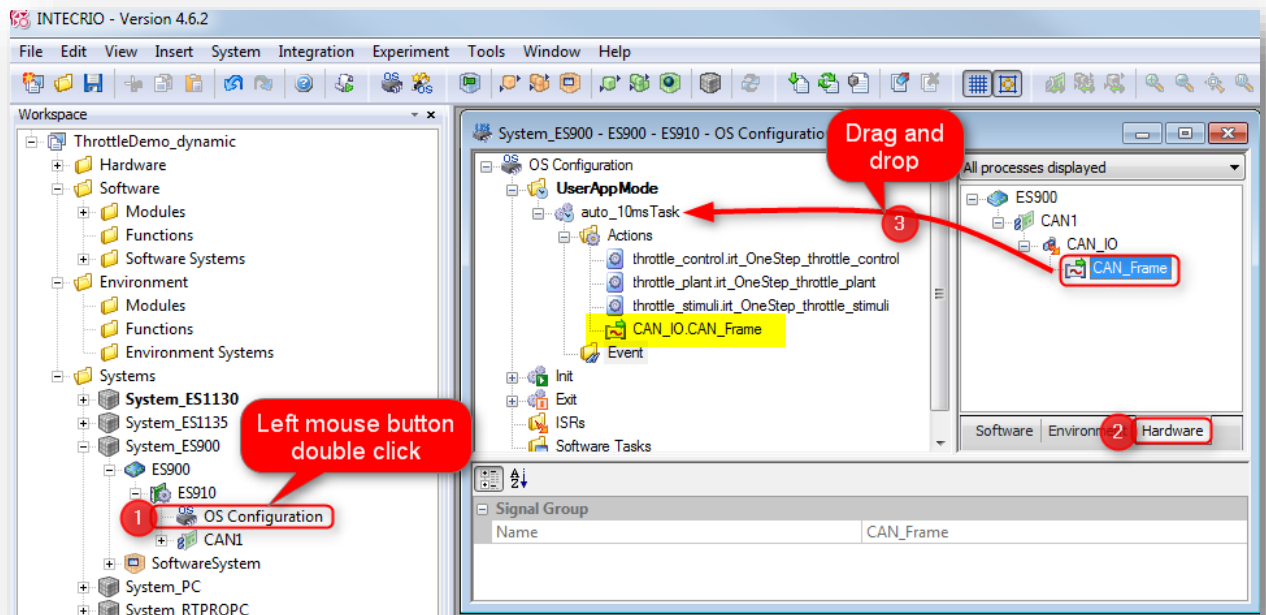
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