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How to disable external watchdog via the DXCPL Debug Port on TriCore™ AURIX™?

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In a typical development environment, there are several options to disable an external watchdog:

- Using a jumper configuration
- Using a dedicated pin controlled by the debugger
 - **WDTDIS pin:** SYStem.CONFIG.EXTWDTDIS <option>
 - **User pin:** SYStem.CONFIG.DAP.USERn

However, in scenarios where the ECU is **deeply integrated into the vehicle**, physical access to the board is not possible. In such cases, access over the **CAN Physical Layer (DXCPL)** is often the only available option.

This setup has several limitations:

- No direct physical access to the ECU.
- No dedicated pin available to disable the external watchdog.
- No **VTREF pin** for power detection – the debugger can only determine the power state *after* establishing a target connection.
- No **PORST- pin** for reset triggering and detection.

Under these conditions, the external watchdog must be disabled **within a short time window** by sending a data sequence via e.g., the SPI controller.

Attempting to provide this data sequence with a `Data.Set PRACTICE` script typically leads to **unreliable behavior**.

Recommended Solution

Use the following approach:

1. Configure the debugger in **Standby Mode**: SYStem.Mode StandBy
2. Define the watchdog disable sequence with `Data.STANDBY`.

Once the debugger establishes communication with the target, the PowerDebug module automatically executes the sequence defined in `Data.STANDBY`.

This ensures that the **time-critical sequence** is transmitted immediately and reliably after the debugger/target connection is established.

For more details and example on how to use the `Data.STANDBY` command group, refer to the [General](#)

