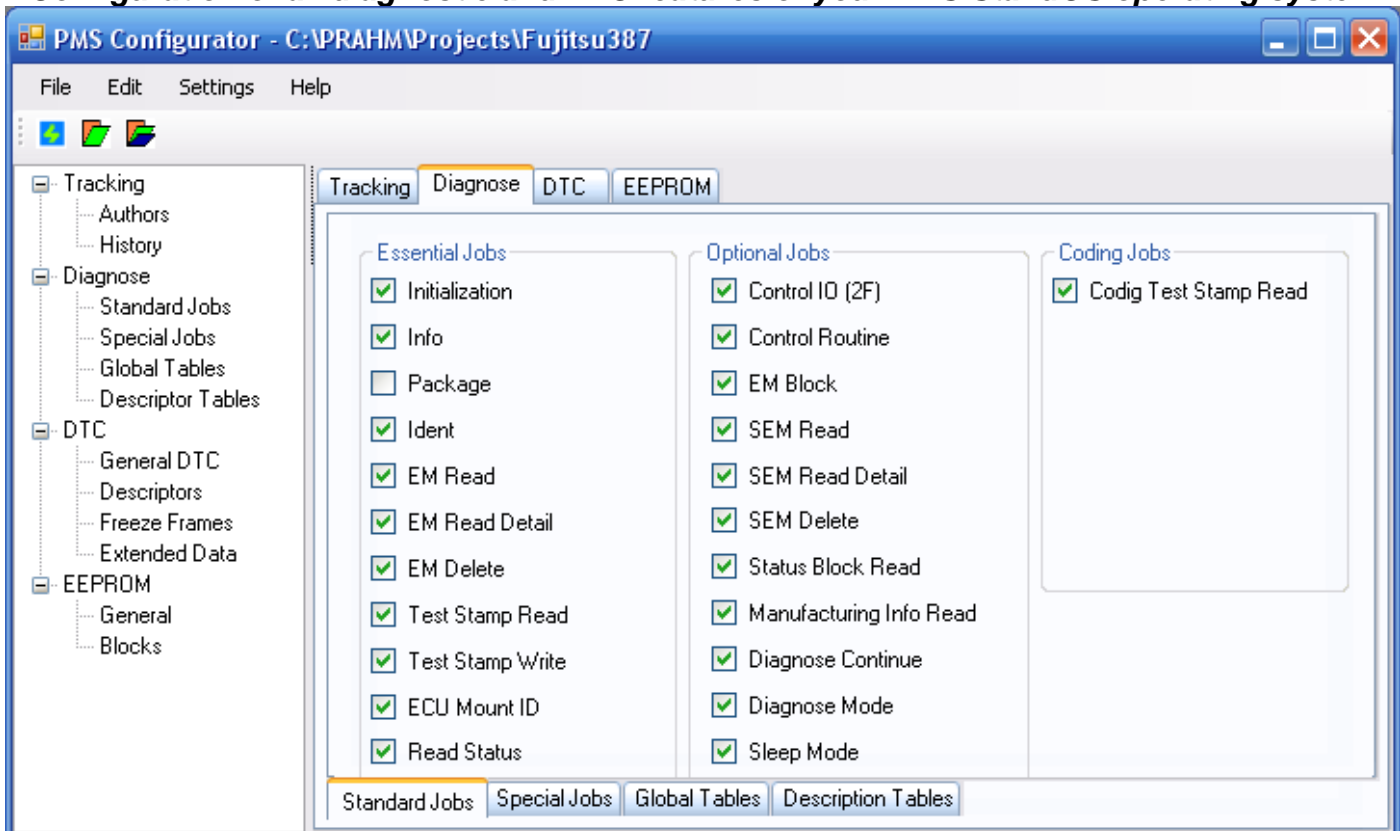


# The PMS Diagnostic Configurator

Universal Programming Studio – your complete system solution for the embedded software development

**Configuration of all diagnostic and DTC features of your PMS StandOS operating system**



1 - The user interface of the PMS Diagnostic Configurator tool

## **The PMS Diagnostic Configurator**

With PMS Diagnostic Configurator you can interactively configure and generate real time code for all diagnostic and error memory tasks as defined in the automotive standard AutoSAR. PMS Diagnostic Configurator can be applied for all popular microcontrollers.

## **Controlling the remote Standos**

PMS Diagnostic Configurator configures and generates code for all diagnostic and DTC settings for a specific remote project. When the menu or the button „Generate Code“ is activated, is the PMS Diagnostic Configurator generating C source and header files, which control the diagnostic and DTC settings in the respective remote StandOS operating system.

## **Determination of diagnostic properties**

The diagnostic properties for a special project are determined in four sub forms. In the form „Standard Jobs“ all standard UDS jobs can be enabled or disabled. The form „Special Jobs“ determine all extra jobs which do not belong to the standard jobs. In the „Global“ and „Description tables“ internal data are made accessible to the diagnosis.

## **Determination of DTC properties**

The Diagnostic Trouble Codes (DTC) are determined in the user friendly input forms. In the „General“ form are the number of primary and secondary DTCs determined, and also the bits of the event status mask and the number of DTCs in the nonvolatile memory. In the form „Descriptors“ all DTCs are configured, especially the group, the origin, the severity, the trigger events for the diagnostic master, the settings for healing and the number of freeze frames. In the forms „Freeze Frames“ and „Extended Frames“ the respective DTC data are configured.

## **Storing data in an EEPROM**

To save energy, controllers are regular going in a sleep state. Before the sleep state is entered and after a wake up, StandOS retains all important process data to/from a nonvolatile memory.

## **Tracking the development history**

To be able to track the development history the forms „Authors“ and „History“ are featured. Each new input and each modification are entered here.



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