

Special Import

User Manual

Version 1.0

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1 History

Author	Date	Version	Remarks
Wk	2009-08-27	1.0	Initial version

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2 About this Document

This document describes the “special import” function of DaVinci DEV.

Abbreviations and Items used in this Document:

SWC	Software Component
PIM	Per-Instance Memory

3 Introduction

Besides the generic import functionality for AUTOSAR XML files, DaVinci DEV provides a special import function. This special import function has a predefined behavior in terms of the imported content and in terms of how to react in case of conflicts.

4 Update Diagnostic Configuration

You may use this function to update those parts of the application SWCs in the workspace, which are related to diagnostic functionality. The function is called via the menu **File | Special Import | Update Diagnostic Configuration**. You may select the AUTOSAR XML files to be imported via the **Import from XML Dialog**. Please refer to the DaVinci DEV online help for details about this dialog.

This function ensures that the SWCs in the workspace match to the imported XML file, while preserving the modifications you made at the SWCs. This is reached by the following behavior:

If the objects in the imported XML file not yet exist in the workspace, they are created by the special import function. If an object already exists, the following update approach is performed:

- Constant are overwritten
- Data Types are overwritten
- Port Interfaces are overwritten
 - Exception: the Init Value of the Calibration Element Prototypes of Calibration Port Interfaces are not changed.
- Component Types
 - The Properties of the Component Type are overwritten, except for the Implementation Code Type and Supports Multiple Instantiation Flag
- Port Prototypes
 - Existing Port Prototypes are overwritten, except for the Port API Options and the Communication Specification
 - Missing Port Prototypes are created
 - Obsolete Diagnostic Port Prototypes* are deleted
- Runnable Entities
 - Existing Runnable Entities are merged as follows: the Symbol and Can Be Invoked Concurrently is not changed, the Trigger list and Port Access lists are merged.
 - Missing Runnable Entities are created

- Exclusive Areas, Inter-Runnable Variables and Calibration Parameters
 - Existing objects are overwritten
 - Missing objects are added
- Per-Instance Memory
 - Existing PIMs are overwritten
 - Missing PIMs are added
 - Obsolete Diagnostic PIMs** are deleted

*) Diagnostic Port Prototypes are Port Prototypes, which contain an attribute with a value other than the default for an attribute definition, which contains "PDM_ID" in its name

**) Diagnostic PIMs are PIMs, which contain an attribute with a value other than the default for an attribute definition, which contains "PDM_ID" in its name

5 Contact

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