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# Introduction and functional overview

## Objective

## Context Diagram

## Acronyms and abbreviations

Acronyms and abbreviations that have a local scope.

|  |  |
| --- | --- |
| ***Abbreviation / Acronym:*** | ***Description:*** |
|  |  |
|  |  |

# External interfaces

## Std\_Types.h

### Types

### Interfaces

### Constants

### Variables

# Static Design

## File structure

### Used Files

|  |  |
| --- | --- |
| ***File*** | ***Description*** |
|  |  |
|  |  |
|  |  |
|  |  |

### File inclusion

## Types

### Imported types

|  |  |
| --- | --- |
| ***Module*** | ***Imported Type*** |
|  |  |
|  |

### Types Definitions

#### 

|  |  |  |  |
| --- | --- | --- | --- |
| ***Name:*** |  | | |
| ***Type:*** |  | | |
| ***Range:*** |  |  |  |
| ***Description:*** |  | | |

## Symbol Definition

|  |  |
| --- | --- |
| ***Name:*** |  |
| ***Type:*** |  |
| ***Value:*** |  |
| ***Description:*** |  |

## Function definitions

This is a list of functions provided for upper layer modules.

### 

|  |  |  |
| --- | --- | --- |
| ***Service name:*** |  | |
| ***Syntax:*** |  | |
| ***Service ID[hex]:*** |  | |
| ***Sync/Async:*** |  | |
| ***Reentrancy:*** |  | |
| ***Parameters (in):*** |  |  |
| ***Parameters***  ***(in/out):*** |  | |
| ***Parameters (out):*** |  | |
| ***Return value:*** |  |  |
| ***Description:*** |  | |

## Call-back notifications

This chapter lists all functions provided by the DIO module to lower layers.

The DIO module does not provide any callback notifications.

## Scheduled functions

This chapter lists all functions called directly by the Basic Software Module Scheduler.

The DIO module has no scheduled functions.

# Dynamic Design

## Mode Management

## Sequence Diagram

# Shared Resources

# Configuration specification

This chapter defines configuration parameters and their clustering into containers.

## Containers and configuration parameters

The following chapters summarize all configuration parameters.

### Variants

Configuration variants describe sets of configuration parameters:

* VARIANT-PRE-COMPILE (PC)

Only parameters with "Pre-compile time" configuration are allowed in this variant.

* VARIANT-LINK-TIME (LT)

Only parameters with "Pre-compile time" and "Link time" are allowed in this variant.

* VARIANT-POST-BUILD (PB)

Parameters with "Pre-compile time", "Link time" and "Post-build time" are allowed in this variant.

Parameters

### 

### Parameters

#### 

|  |  |  |  |
| --- | --- | --- | --- |
| ***Name*** |  | | |
| ***Description*** |  | | |
| ***Multiplicity*** | 1 | | |
| ***Type*** | Scaler | | |
| ***Default value*** | -- | | |
| ***Configuration Class*** | ***Pre-compile time*** | | |
| ***Configuration Class***  ***Scope / Dependency*** | ***Link time*** | X | All Variants |
| ***Post-build time*** | -- |  |
| scope: local | -- |  |
|  |  | | |

# Configuration Constraints

# Integration Constraints