**Module Design Document**

**For**

**Adcf1CfgAndUse**

**May 25, 2017**

**Prepared For:**

**Software Engineering**

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# Introduction

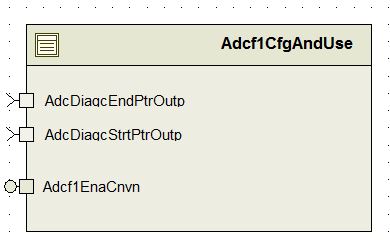
*None*

# CM321A\_Adcf1CfgAndUse & High-Level Description

*None*

# Design details of software module

## Graphical representation of CM301A\_Adcf0CfgAndUse

**

## Data Flow Diagram

### Component level DFD

### Function level DFD

# Constant Data Dictionary

## Program (fixed) Constants

### Embedded Constants

#### Local Constants

|  |  |  |  |
| --- | --- | --- | --- |
| Constant Name | Resolution | Units | Value |
| Refer to the DataDictionary of the design |  |  |  |

# Software Component Implementation

*Refer to FDD.*

## Sub-Module Functions

## Init: Adcf1CfgAndUse\_Init1

## Design Rationale

*None*

## Module Outputs

*Refer to FDD.*

## Per: Adcf1CfgAndUse\_Per1

## Design Rationale

*None*

## Store Module Inputs to Local copies

*Refer to FDD.*

## (Processing of function)………

*Refer to FDD.*

## Store Local copy of outputs into Module Outputs

*Refer to FDD.*

## Per: Adcf1CfgAndUse\_Per2

## Design Rationale

*None*

## Store Module Inputs to Local copies

*Refer to FDD.*

## (Processing of function)………

*Refer to FDD.*

## Store Local copy of outputs into Module Outputs

*Refer to FDD*

## Server Runables

## Per: Adcf1CfgAndUse\_EnaCvn

## Design Rationale

*None*

## Store Module Inputs to Local copies

*Refer to FDD.*

## (Processing of function)………

*Refer to FDD.*

## Store Local copy of outputs into Module Outputs

*Refer to FDD*

## Interrupt Functions

*None*

## Module Internal (Local) Functions

*None*

## GLOBAL Function/Macro Definitions

*None*

# Known Limitations with Design

*None*

# UNIT TEST CONSIDERATION

*None*

Abbreviations and Acronyms

|  |  |
| --- | --- |
|  |  |
|  |  |

Glossary

**Note**: Terms and definitions from the source “Nexteer Automotive” take precedence over all other definitions of the same term. Terms and definitions from the source “Nexteer Automotive” are formulated from multiple sources, including the following:

* ISO 9000
* ISO/IEC 12207
* ISO/IEC 15504
* Automotive SPICE® Process Reference Model (PRM)
* Automotive SPICE® Process Assessment Model (PAM)
* ISO/IEC 15288
* ISO 26262
* IEEE Standards
* SWEBOK
* PMBOK
* Existing Nexteer Automotive documentation

| **Term** | **Definition** | **Source** |
| --- | --- | --- |
| MDD | Module Design Document |  |
| DFD | Data Flow Diagram |  |

References

| **Ref. #** | **Title** | **Version** |
| --- | --- | --- |
| 1 | AUTOSAR Specification of Memory Mapping | v1.3.0 R4.0 Rev 2 |
| 2 | MDD Guideline | EA4 01.00.00 |
| 3 | EA4 [Software Naming Conventions.doc](http://misagweb01.nexteer.com/eRoomReq/Files/erooms8/NextGeneration/0_fc55f/Software%20Naming%20Conventions%2003x(In%20Work).doc) | 1.0.0 |
| 4 | Software Design and Coding Standards.doc | 2.1 |