**HYUNDAI AUTOEVER** 

**AUTOSAR Crc User Manual** 

DOC. NO

SCOPE OF APPLICATION All Project/Engineering Responsibility: Classic AUTOSAR Team

File Name Crc\_UM

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# **CRC** Documentation



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## 1. Overview

This document provides references and guidance for users on parameter configuration and system design during using the AUTOSAR platform for CRC. See reference documents for more details.

Each configuration category is defined as follows.

- Changeable (C): Items that can be configured by users
- Fixed (F): Items that cannot be changed by users
- NotSupported (N): Unavailable items

## 2. Reference

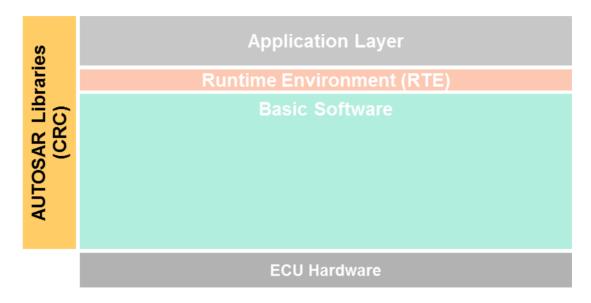
| SI. No. | Title                             | Version        |
|---------|-----------------------------------|----------------|
| 1.      | AUTOSAR_SWS_CRCLibrary.pdf        | 4.2.0          |
| 2.      | AUTOSAR BSW Service API Guide.doc | 1.0.0 or later |
|         |                                   |                |
|         |                                   |                |



## 3. AUTOSAR System

## 3.1 Overview of Software Layers

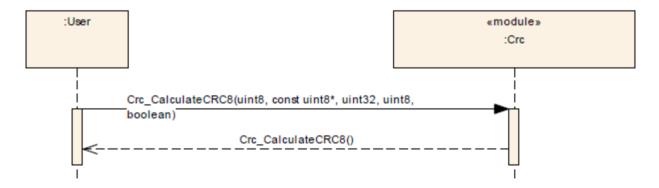
The layered architecture of the AUTOSAR platform related with CRC is illustrated below.



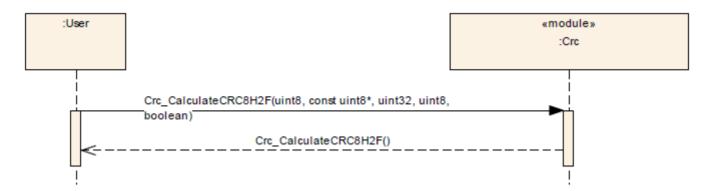
## 3.2 AUTOSAR CRC Library

### 3.2.1 Sequence Diagrams

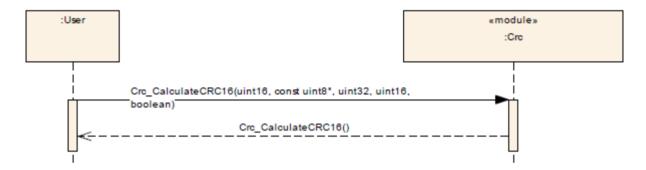
### 3.2.1.1 CRC\_CalculateCRC8()



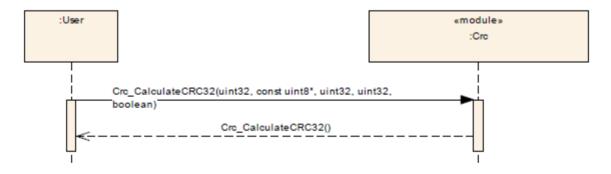
### 3.2.1.2 Crc\_CalculateCRC8H2F ()



### 3.2.1.3 Crc\_CalculateCRC16()



### 3.2.1.4 Crc\_CalculateCRC32()



### 3.2.2 Architecture (Library)

- 3.2.2.1 Library can be called by BSW modules(that including the RTE), SW-Cs, libraries or integration code.
- 3.2.2.2 Library can be re-entrant.
- 3.2.2.3 Library does not require any initialization.
- 3.2.2.4 Library are synchronous (they do not have wait points)



### 4. Product Release Notes

### 4.1 Overview

The purpose of this chapter is to provide release information about AutoEver's CRC product. It describes restrictions and noteworthy details of the CRC product's release versions.

### 4.2 Scope of the release

All content in this document is limited to the following CRC module.

| Module | Autosar version | SWS version | Module version |
|--------|-----------------|-------------|----------------|
| CRC    | 4.0.3           | 4.2.0       | 1.3.9          |

### 4.3 Module release notes

#### 4.3.1 CRC

### 4.3.1.1 Change Log

### > Version 1.3.9.1 (2023-04-14)

- Improvements
- Add the user manual

| Cause            | Add the user manual English version |
|------------------|-------------------------------------|
| Operation effect | None                                |
| Setting effect   | None                                |
| ASW action       | None                                |

### > Version 1.3.9.0 (2022-08-20)

- Improvements
  - Applied UNECE Rule

| Cause            | Security coding improved to comply with the UNECE Cyber Security regulations |
|------------------|------------------------------------------------------------------------------|
| Operation effect | None                                                                         |
| Setting effect   | None                                                                         |
| ASW action       | None                                                                         |

### > Version 1,3,8,0 (2021-12-31)

- Improvements
  - Applied MISRA Rule

| Cause            | Made code improvements to comply with the UNECE Cyber Security regulations |
|------------------|----------------------------------------------------------------------------|
| Operation effect | None                                                                       |
| Setting effect   | None                                                                       |
| ASW action       | None                                                                       |



### > Version 1.3.7.0 (2021-01-20)

- Improvements
  - Applied MISRA Rule

| Cause            | Applied MISRA Rule |
|------------------|--------------------|
| Operation effect | None               |
| Setting effect   | None               |
| ASW action       | None               |

### > Version 1.3.6.0 (2020-12-31)

- Improvements
  - Applied MISRA Rule

| Cause            | Applied MISRA Rule |
|------------------|--------------------|
| Operation effect | None               |
| Setting effect   | None               |
| ASW action       | None               |

### > Version 1.3.5.0 (2019-10-17)

- Improvements
  - Modified the directory structure of source files

|  | Cause            | Source code made available to partners |
|--|------------------|----------------------------------------|
|  | Operation effect | None                                   |
|  | Setting effect   | None                                   |
|  | ASW action       | None                                   |

### > Version 1.3.5 (2019-05-07)

- Improvements
  - Applied MISRA 2012

|  | Cause            | Applied MISRA Rule 2012 |
|--|------------------|-------------------------|
|  | Operation effect | None                    |
|  | Setting effect   | None                    |
|  | ASW action       | None                    |

### > Version 1.3.4 (2016-06-27)

- Improvements
  - User Manual updated

| Cause | User Manual updated |
|-------|---------------------|
|-------|---------------------|



| Operation effect | None |
|------------------|------|
| Setting effect   | None |
| ASW action       | None |

### > Version 1.3.3 (2016-04-05)

- Added User Manuals to DeliveryBox

#### 4.3.1.2 Limitations

4.3.1.3 Among configuration items, CRC\_16\_HARDWARE, CRC\_32\_HARDWARE, CRC\_8\_HARDWARE, and CRC\_8H2F\_HARDWARE should be supported by the hardware and not supported by the current CRC module.

#### 4.3.1.4 Deviation

None

## 5. Configuration Guide

### 5.1 Crc Module

#### 5.1.1 CrcGeneral Container

See the following configurations.

| Parameter Name | Value              | Category |
|----------------|--------------------|----------|
| Crc16Mode      | CRC_16_RUNTIME C   |          |
| Crc32Mode      | CRC_32_RUNTIME     | С        |
| Crc8H2FMode    | CRC_8H2F_RUNTIME C |          |
| Crc8Mode       | CRC_8_RUNTIME      | С        |

## 6. Application Programming Interface (API)

## **6.1** Type Definitions

None

### 6.2 Macro Constants

None



## 6.3 Functions

## 6.3.1 Initialization/Deinitialization Related Api

None

### 6.3.2 Calcutation of 8bit CRC

| Function Name            | Crc_CalculateCRC8                                                                                                                             |                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Syntax                   | FUNC(uint8, CRC_CODE) Crc_CalculateCRC8 (P2CONST(uint8,                                                                                       |                                                                                                                                                                                                                                                 |
|                          | CRC_CONST, CRC_APPL_CONST)Crc_DataPtr, uint32 Crc_Length, uint8                                                                               |                                                                                                                                                                                                                                                 |
|                          | Crc_StartValue8, boolean Crc_IsFirstC                                                                                                         | Call)                                                                                                                                                                                                                                           |
| Service ID               | 0x01                                                                                                                                          |                                                                                                                                                                                                                                                 |
| Sync/Async               | Synchronous                                                                                                                                   |                                                                                                                                                                                                                                                 |
| Reentrancy               | Reentrant                                                                                                                                     |                                                                                                                                                                                                                                                 |
|                          | Crc_DataPtr                                                                                                                                   | Pointer to the start address of the data block to be calculated.                                                                                                                                                                                |
|                          | Crc_Length                                                                                                                                    | Length of the data block to calculated in bytes.                                                                                                                                                                                                |
|                          | Crc_StartValue8                                                                                                                               | Initial value when algorithm starts.                                                                                                                                                                                                            |
| Parameters (In)          | Crc_lsFirstCall                                                                                                                               | TRUE: First call in a sequence or individual CRC calculation; start from initial value, ignore Crc_StartValue8. FALSE: Subsequent call in a call sequence; Crc_StartValue8 is interpreted to be the return value of the previous function call. |
| Parameters (Inout)       | None                                                                                                                                          |                                                                                                                                                                                                                                                 |
| Parameters (Out)         | None                                                                                                                                          |                                                                                                                                                                                                                                                 |
| Return Value             | uint8                                                                                                                                         | 8 bit result of CRC calculation.                                                                                                                                                                                                                |
| Description              | Calculates CRC (8 bit) using CRC-SAE-J1850 standards by runtime based method. This service makes a CRC8 calculation on Crc_Length data bytes. |                                                                                                                                                                                                                                                 |
| Preconditions            | None                                                                                                                                          |                                                                                                                                                                                                                                                 |
| Configuration Dependency | This function shall be configurable with any one of the available CRC8 calculation methods by the configuration parameter: CRC_8_MODE         |                                                                                                                                                                                                                                                 |

## 6.3.3 Calculation of 8bit CRC with 0X2F polynomial

| Function Name      | Crc_CalculateCRC8H2F           |                                                                  |
|--------------------|--------------------------------|------------------------------------------------------------------|
| 1 direction (value | _                              |                                                                  |
| Syntax             | FUNC(uint8, CRC_CODE) Cr       | c_CalculateCRC8H2F (P2CONST(uint8,                               |
|                    | CRC_CONST, CRC_APPL_CONST      | )Crc_DataPtr, uint32 Crc_Length, uint8                           |
|                    | Crc_StartValue8H2F, boolean Cr | c_lsFirstCall)                                                   |
| Service ID         | 0x05                           |                                                                  |
| Sync/Async         | Synchronous                    |                                                                  |
| Reentrancy         | Reentrant                      |                                                                  |
| Parameters (In)    | Crc_DataPtr                    | Pointer to the start address of the data block to be calculated. |

|                          | Crc_Length                                                               | Length of the data block to            |
|--------------------------|--------------------------------------------------------------------------|----------------------------------------|
|                          |                                                                          | calculated in bytes.                   |
|                          | Crc_StartValue8H2F                                                       | Initial value when algorithm starts.   |
|                          | Crc_lsFirstCall                                                          | TRUE: First call in a sequence or      |
|                          |                                                                          | individual CRC calculation; start from |
|                          |                                                                          | initial value, ignore                  |
|                          |                                                                          | Crc_StartValue8H2F.                    |
|                          |                                                                          | FALSE: Subsequent call in a call       |
|                          |                                                                          | sequence;                              |
|                          |                                                                          | Crc_StartValue8H2F is interpreted to   |
|                          |                                                                          | be the return value of the previous    |
|                          |                                                                          | function call.                         |
| Parameters (Inout)       | None                                                                     |                                        |
| Parameters (Out)         | None                                                                     |                                        |
| Return Value             | uint8 8 bit result of CRC calculation.                                   |                                        |
|                          | Calculates CRC (8 bit) using 0x2F polynomial by runtime based method.    |                                        |
| Description              | This service makes a CRC8 calculation with 0x2F polynomial on            |                                        |
|                          | Crc_Length data bytes.                                                   |                                        |
| Preconditions            | None                                                                     |                                        |
| Configuration Dependency | This function shall be configurable with any one of the available CRC8H2 |                                        |
| Configuration Dependency | calculation methods by the configuration parameter : CRC_8H2F_M          |                                        |

## 6.3.4 Calculation of 16bit CRC

| Function Name      | Crc_CalculateCRC16                                                                                                                                                    |                                                                                                                                                                                                                                                    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Syntax             | FUNC(uint16, CRC_CODE) Crc_CalculateCRC16 (P2CONST(uint8, CRC_CONST, CRC_APPL_CONST)Crc_DataPtr, uint32 Crc_Length, uint16 Crc_StartValue16, boolean Crc_IsFirstCall) |                                                                                                                                                                                                                                                    |
| Service ID         | 0x02                                                                                                                                                                  | ,                                                                                                                                                                                                                                                  |
| Sync/Async         | Synchronous                                                                                                                                                           |                                                                                                                                                                                                                                                    |
| Reentrancy         | Reentrant                                                                                                                                                             |                                                                                                                                                                                                                                                    |
|                    | Crc_DataPtr                                                                                                                                                           | Pointer to the start address of the data block to be calculated.                                                                                                                                                                                   |
|                    | Crc_Length                                                                                                                                                            | Length of the data block to calculated in bytes.                                                                                                                                                                                                   |
|                    | Crc_StartValue16                                                                                                                                                      | Initial value when algorithm starts.                                                                                                                                                                                                               |
| Parameters (In)    | _<br>Crc_lsFirstCall                                                                                                                                                  | TRUE: First call in a sequence or individual CRC calculation; start from initial value, ignore Crc_StartValue16.  FALSE: Subsequent call in a call sequence; Crc_StartValue16 is interpreted to be the return value of the previous function call. |
| Parameters (Inout) | None                                                                                                                                                                  |                                                                                                                                                                                                                                                    |
| Parameters (Out)   | None                                                                                                                                                                  |                                                                                                                                                                                                                                                    |
| Return Value       | uint16                                                                                                                                                                | 16 bit result of CRC calculation.                                                                                                                                                                                                                  |
| Description        | Calculates CRC (16 bit) using CRC-CCITT standards by runtime based method. This service makes a CRC16 calculation on Crc_Length data                                  |                                                                                                                                                                                                                                                    |

|                          | bytes.                                                                  |
|--------------------------|-------------------------------------------------------------------------|
| Preconditions            | None                                                                    |
| Configuration Dependency | This function shall be configurable with any one of the available CRC16 |
| Configuration Dependency | calculation methods by the configuration parameter : CRC_16_MODE        |

## 6.3.5 Calculation of 32bit CRC

| Function Name            | Crc_CalculateCRC32                                                                                                                                                    |                                                                 |  |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--|
| Syntax                   | FUNC(uint32, CRC_CODE) Crc_CalculateCRC32 (P2CONST(uint8, CRC_CONST, CRC_APPL_CONST)Crc_DataPtr, uint32 Crc_Length, uint32 Crc_StartValue32, boolean Crc_IsFirstCall) |                                                                 |  |
| Service ID               | 0x03                                                                                                                                                                  | isi ii seediiy                                                  |  |
| Sync/Async               | Synchronous                                                                                                                                                           |                                                                 |  |
| Reentrancy               | Reentrant                                                                                                                                                             |                                                                 |  |
|                          | Crc_DataPtr                                                                                                                                                           | Pointer to the start address of the data block to be calculated |  |
|                          | Crc_Length                                                                                                                                                            | Length of the data block to calculated in bytes.                |  |
|                          | Crc_StartValue32                                                                                                                                                      | Initial value when algorithm starts                             |  |
|                          | Crc_lsFirstCall                                                                                                                                                       | TRUE: First call in a sequence or                               |  |
| Parameters (In)          |                                                                                                                                                                       | individual CRC calculation; start                               |  |
| ,,                       |                                                                                                                                                                       | from initial value, ignore                                      |  |
|                          |                                                                                                                                                                       | Crc_StartValue32.                                               |  |
|                          |                                                                                                                                                                       | FALSE: Subsequent call in a call                                |  |
|                          |                                                                                                                                                                       | sequence;<br>Crc_StartValue32 is interpreted to                 |  |
|                          |                                                                                                                                                                       | be the return value of the previous                             |  |
|                          |                                                                                                                                                                       | function call.                                                  |  |
| Parameters (Inout)       | None                                                                                                                                                                  |                                                                 |  |
| Parameters (Out)         | None                                                                                                                                                                  |                                                                 |  |
| Return Value             | uint32                                                                                                                                                                | 32 bit result of CRC calculation.                               |  |
|                          | Calculates CRC (32 bit) using CRC-IEEE 802.3 standards by runtime                                                                                                     |                                                                 |  |
| Description              | based method. This service makes a CRC32 calculation on Crc_Length                                                                                                    |                                                                 |  |
|                          | data bytes.                                                                                                                                                           |                                                                 |  |
| Preconditions            | None                                                                                                                                                                  |                                                                 |  |
| Configuration Dependency | This function shall be configurable with any one of the available CRC32 calculation methods by the configuration parameter: CRC_32_MODE                               |                                                                 |  |

## 6.3.6 GetVersion Information

| Function Name      | Crc_GetVersionInfo                                              |                    |                           |     |
|--------------------|-----------------------------------------------------------------|--------------------|---------------------------|-----|
| Syntax             | FUNC(void, CRC_C<br>(P2VAR(Std_VersionInfoType,<br>Versioninfo) | ODE)<br>AUTOMATIC, | Crc_GetVersion CRC_APPL_D |     |
| Service ID         | 0x04                                                            |                    |                           |     |
| Sync/Async         | Synchronous                                                     |                    |                           |     |
| Reentrancy         | Reentrant                                                       |                    |                           |     |
| Parameters (In)    | None                                                            |                    |                           |     |
| Parameters (Inout) | None                                                            |                    |                           |     |
| Parameters (Out)   | Versioninfo                                                     | Pointer repr       | esents where              | the |

|                          | version information of this module needs to be stored                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Return Value             | None                                                                                                                                                                                                       |
| Description              | This function returns the version information of the module, which includes Vendorld, Moduleld and Vendor Specific Version numbers. If Versioninfo is a NULL pointer then this service will simply return. |
| Preconditions            | None                                                                                                                                                                                                       |
| Configuration Dependency | None                                                                                                                                                                                                       |

### 7. Generator

### 7.1 Generator Option

None

### 7.2 Generator Error Message

#### 7.2.1 Crc

#### 7.2.1.1 Error Messages

- 1) ERR201003: 'Component Name' Component is not present in the input file(s).
  - This error occurs, if 'Crc' component is not present in any of the input ECU Configuration Description File(s).
- 2) ERR201005: The parameter 'Parameter Name' in the container 'Container Name' should be configured.
  - This error occurs, if any of the mandatory configuration parameters mentioned below are not configured in ECU Configuration Description File.

| Container Name         | Parameter Name     |
|------------------------|--------------------|
|                        | AR-RELEASE-VERSION |
| BSW-IMPLEMENTATION     | VENDOR-ID          |
|                        | SW-VERSION         |
| BSW-MODULE-DESCRIPTION | MODULE-ID          |

- 3) ERR201006: The value configured for the parameter 'Parameter Name' in the container 'Container Name' should follow the pattern: <Pattern>.
  - This error occurs, when the parameter 'Parameter Name' is not configured as per the pattern.

| Parameter Name     | Container Name     | Pattern           | Example |
|--------------------|--------------------|-------------------|---------|
| AR-RELEASE-VERSION | BSW-IMPLEMENTATION | <4.[0-9]+.[0-9]+> | 4.0.3   |
| SW-VERSION         |                    |                   |         |



### 7.2.1.2 Warning Messages

None

#### 7.2.1.3 Information Messages

- 1) INF201015: AUTOSAR Release version (value of the element AR-RELEASE-VERSION) configured for the parameter 'AR-RELEASE-VERSION' in provided MDT file is not correct. AUTOSAR Release version should be one of the following: 4.0.3.
  - This information occurs, if the value of the element AR-RELEASE-VERSION present in the BSW Module Description template is configured other than 4.0.3.
- 2) INF201051: Value of the parameter 'Parameter Name' of the container 'CrcGeneral' is configured as 'Enumeration Literal', hence Generation Tool resets the value of the parameter to 'Reset Value'.
  - This information occurs, if the below mentioned parameters are configured as 'Enumeration Literal'.

| Parameter Name | Enumeration Literal | Reset Value      |  |
|----------------|---------------------|------------------|--|
| Crc16Mode      | CRC_16_HARDWARE     | CRC_16_RUNTIME   |  |
| Crc32Mode      | CRC_32_HARDWARE     | CRC_32_RUNTIME   |  |
| Crc8H2FMode    | CRC_8H2F_HARDWARE   | CRC_8H2F_RUNTIME |  |
| Crc8Mode       | CRC_8_HARDWARE      | CRC_8_RUNTIME    |  |



## 8. Appendix

### 8.1 Bswmd (Bsw Module Description)

### 8.1.1 Bsw Module Version Setting

When compiling each module, incorrect version information triggers a compile error.

This requires version information revision in BswImplementation Container as the following Bswmd.



### 8.2 Exclusive Areas

None

### 8.3 Example

- 8.3.1 calculation of CRC8
- 8.3.1.1 Data bytes 01h 02h 03h 04h 05h 06h 07h 08h: start value FFh:

Result = Crc\_CalculateCRC8(&Array12345678[0], 8, 0xFF, TRUE);

- 8.3.2 calculation of CRC8H2F()
- 8.3.2.1 Data bytes 01h 02h 03h 04h 05h 06h 07h 08h: start value FFh:

Result = Crc\_CalculateCRC8H2F(&Array12345678[0], 8, 0xFF, TRUE);

- 8.3.3 calculation of CRC16()
- 8.3.3.1 Data bytes 01h 02h 03h 04h 05h 06h 07h 08h: start value FFFFh:

Result = Crc\_CalculateCRC16(&Array12345678[0], 8, 0xFFFF, TRUE);

- 8.3.4 calculation of CRC32()
- 8.3.4.1 Data bytes 01h 02h 03h 04h 05h 06h 07h 08h: start value FFFFFFFh:

Result = Crc\_CalculateCRC32(&Array12345678[0], 8, 0xFFFFFFFF, TRUE);