EB tresos® AutoCore Generic 8

Base documentation

release notes update for the SvcAs module

product release 8.5.1

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Table of Contents

1. Overview

This document provides you with the release notes to accompany an update to the `SvcAs` module. Refer to the changelog [Section 2.1, "Change log"](#) for details of changes made for this update.

2. SvcAs module release notes

▶ Module version: 1.2.9.B214148

▶ Supplier: Elektrobit Automotive GmbH

2.1. Change log

This chapter lists the changes between different versions.

Module version 1.2.9

2018-09-13

▶ ASCSVCAS-306 Fixed OsAppScheduleTableRef references that were not cleaned up correctly

▶ ASCSVCAS-311 Fixed os AccessingApplication references that were not cleaned up correctly.

▶ ASCSVCAS-310 Fixed known issue: Service Needs wizard deletes manually edited and imported Com-Notification.

▶ Changed SvcAs to not delete com containers anymore.

Module version 1.2.8

2018-06-22

▶ Included in the PushOperation the TP callback functions for LdCom. Now, the names for these functions will be set by SvcAs if they are requested.

▶ Added NvMUserHeader name to the Svc calculation.

▶ ASCSVCAS-296 Fixed known issue: Service Needs wizard deletes manually edited EcuMFlexModule-ConfigurationRef references.

Module version 1.2.7

2018-02-16

▶ ASCSVCAS-245 Fixed known issue: XfrmVariableDataPrototypeInstanceRef for XfrmMappings is enabled but with no values set.

► Improved run time execution for service needs assistant. The process of writing the status for service needs assistant was slowed down by an implementation of Tresos itself. The problem was solved by using another aproach for adding the status.

► Changed the value set for DemOperationCycleRef in order to take the same name as DemOperationCycle. Until now, Service Needs calculated a default value (hardoded) for this param every time, no matter what.

► ASCSVCAS-260 Fixed known issue: Service Needs wizard toggles between enable/disable and doesn't correctly clean upt obsolete elements.

Module version 1.2.6

2017-08-09

► Added osSpinlockMethod to OsSpinlock configuration.

► ASCSVCAS-234 Fixed known issue: The extra data from Importer Info is missing when calculating Service Needs.

Module version 1.2.5

2017-03-03

► RTE schedule tables are created only if the received requests contain less than 5000 distinct expiry points. The threshold value of 5000 is sometimes exceeded because of duplicate expiry points and therefore the schedule tables were not created. Now any two expiry points are considered distinct only if they have different names, otherwise one of them is ignored

► Updated the NvM push operation so that the value of `blockUseSyncMechanism` decides if `readRamBlockFromNvCallback` and `writeRamBlockToNvCallback` are enabled. Also, if `blockUseSyncMechanism` is missing, it is set to true if the other two are available, and false if at least one is missing

► Disabled the `OsIoc` container if there are no `OsIocDataTypeIncludeHeader` and `OsIocCommunication`

► The SvcAs shall push init/invalid values for ComGroupSignals and ComRxDataTimeoutAction for Com-GroupSignals/ComSignals

Module version 1.2.4

2016-05-01

Module version 1.2.3

2016-11-04

▶ RTE schedule tables are created only if the received requests contain less than 5000 distinct expiry points. The threshold value of 5000 is sometimes exceeded because of duplicate expiry points and therefore the schedule tables were not created. Now any two expiry points are considered distinct only if they have different names, otherwise one of them is ignored

▶ Updated the NvM push operation so that the value of `blockUseSyncMechanism` decides if `readRamBlockFromNvCallback` and `writeRamBlockToNvCallback` are enabled. Also, if `blockUseSyncMechanism` is missing, it is set to true if the other two are available, and false if at least one is missing

▶ Disabled the `OsIoc` container if there are no `OsIocDataTypeIncludeHeader` and `OsIocCommunication`

Module version 1.2.2

2016-04-29

▶ Updated the Os IOC channel request (`os.iocChannels_1.xsd`) so that it contains new configuration parameters: `senderApiIsTrapping`, `dataTypeType/variableLength`, `intraCoreLockType`, `useInterCoreLock` which allow to set the respective parameters for each `OsIoc`

Module version 1.2.1

2016-04-01

▶ Added support to configure parameter `XfrmOsApplicationRef` for each Xfrm implementation mapping to the Service Needs Calculator

▶ Fixed the discovery mechanism for affected nodes of Calculate Service Needs wizard

Module version 1.2.0

2016-02-08

▶ Updated the Calculate Service Needs wizard to store the list of affected nodes in importer information. This information is used by cleanup for future runs

▶ Added support to configure LdCom PDUs to the Service Needs Calculator

Module version 1.1.7

2015-11-06

▶ Updated the NvM block request (`nvm.blocks_1.xsd`) to contain the optional parameters `initBlock-Callback`, `readRamBlockFromNvCallback`, and `writeRamBlockToNvCallback` which allow to set the parameters `NvMInitBlockCallback`, `NvMReadRamBlockFromNvCallback`, and `NvMWriteRam-BlockToNvCallback` respectively for each `NvMBlockDescriptor`

▶ Added support to configure Xfrm implementation mappings to the Service Needs Calculator

▶ Updated the NvM block request (`nvm.blocks_1.xsd`) so that all values are optional. Added parameter `blockUseSyncMechanism` to set `NvMBlockUseSyncMechanism`

Module version 1.1.6

2015-02-27

▶ Added support to configure Os spinlocks to the Service Needs Calculator

Module version 1.1.5

2014-04-25

▶ ASCSVCAS-135 Fixed known issue: The SvcAs calcuates the offset for expiry points in picoseconds $(1*10^{-12})$. Smaller values are truncated

Module version 1.1.4

2013-05-08

▶ Updated module to be ready for mass production

Module version 1.1.3

2013-02-08

▶ Extended the resolution of `OsSecondsPerTick` by the factor 1000

Module version 1.1.2

2012-10-12

▶ Updated the NvM block request (`nvm.blocks_1.xsd`) to contain the optional parameter `singleBlock-Callback` which allows to set the parameter `NvMSingleBlockCallback` for each `NvMBlockDescriptor`

Module version 1.1.1

2012-06-14

▶ Updated the Service Needs Calculator to properly handle the parameters `NvMBlockCrcType`, `NvMRamBlockDataAddress`, `NvMRomBlockDataAddress`, `NvMSelectBlockForReadAll` and `NvMSelectBlockForWriteAll` of module NvM as optional parameters

▶ Changed the Service Needs Calculator to not warn if the parameters `NvMUserProvidesSpaceForBlockAndCrc` and `NvMExtraBlockChecks` of module NvM are not existent

▶ Updated the Service Needs Calculator to set a configuration parameter properly if the parameter is optional and disabled

Module version 1.1.0

2012-03-16

▶ Changed the Service Needs Calculator to not override imported data

▶ Changed the Service Needs Calculator to no longer configure exclusive areas and main functions in the SchM module since the SchM module is now part of the Rte

Module version 1.0.1

2011-09-30

▶ Changed the Service Needs Calculator to not calculate the parameter `NvMNvBlockBaseNumber` since it is now independent of the `NvMNvramBlockIdentifier`

▶ Adapted NvM service provider to schema changes of the NvM module

Module version 1.0.0

2011-09-02

▶ Initial AUTOSAR 4.0 version

2.2. New features

► No new features have been added since the last release.

2.3. EB-specific enhancements

This module is not part of the AUTOSAR specification.

2.4. Deviations

This module is not part of the AUTOSAR specification.

2.5. Limitations

This chapter lists the limitations of the module. Refer to the module references chapter *Integration notes*, subsection *Integration requirements* for requirements on integrating this module.

► Not all init functions are automatically allocated

Description:

In AUTOSAR 4.0, only the modules Det, Mcu, Port, Dio, Gpt, Wdg, WdgM, Adc, Icu, and Pwm are initialized by the EcuMFlex. The other modules are initialized by the `BswM`. These init functions cannot be configured by the Service Needs Calculator.

Rationale:

The BswM does not support a configurable list of init functions. The init functions have to be called in C-callout functions.

► The Service Needs Calculator does not configure the right size for NvM blocks

Description:

When NvM blocks are allocated, the Service Needs Calculator is not able to determine the correct block size in all cases. During compilation, the NvM checks if the configured size equals the required size by using the `sizeof` operator. If the values do not match, there will be an error. Then you must manually update the block size in the NvM configuration.

Rationale:

The block size is configuration and compiler-dependent.