

## Release Notes for RENESAS RH850/P1x:

### RENESAS\_SW-AUTOSAR-P1x: MCAL Ver4.00.04

#### QM Beta Quality

#### 1.1 Purpose:

To deliver AUTOSAR R4.0.3 MCAL software for P1x V4.00.04 release using the following inputs.

Device Manual: r01uh0436ej0070\_rh850p1x.pdf

Device File: DF-RH850P1M-EE\_V100.zip

Operating Precautions: R01TU0069ED0200\_RH850.pdf

Flash Libraries: RENESAS\_FCL\_RH850\_T01E\_V2.00.exe

RENESAS\_FDL\_RH850\_T01E\_V2.00.exe

Modules supported: ADC, CAN, DIO, FLS, FLSTST, FR, GPT, ICU, MCU, PORT, PWM, RAMTST, SPI, WDG.

## 1.2 Package information

<b>Product</b>	RH850/P1x
<b>Variant</b>	P1M
<b>Product Release Version</b>	Ver4.00.04
<b>AUTOSAR Specification Version</b>	4.0.3
<b>Device tested on</b>	P1M - R7F701310
<b>Devices supported</b>	R7F701304 R7F701305 R7F701310 R7F701311 R7F701312 R7F701313 R7F701314 R7F701315 R7F701318 R7F701319 R7F701320 R7F701321 R7F701322 R7F701323
<b>Release Date</b>	08-June-2015

## 1.3 Tools

### 1.3.1 GHS

Tool	Version	Options
GreenHills Multi IDE – compiler	Green Hills Multi V6.1.4 Compiler Version 2013.5.5 + Patches : P2, P9, P12, P13, P14	-Ospace -g -cpu=rh850g3k -gsize -prepare_dispose -sda=all -passsource -Wundef -no_callt -reserve_r2 --short_enum -fsoft --prototype_errors --diag_error 193 -dual_debug -large_sda --no_commons -shorten_loads -shorten_moves -Wshadow -nofloatio -ignore_callt_state_in_interrupts -delete -inline_prologue

### 1.3.2 Configuration code generator

Tool	Version	Options
ECU Spectrum	4.0.14	-

### 1.3.3 Additional software

Tool	Version	Options
NA	-	-

## 1.4 Generic Information

### 1.4.1 Release Target

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	Generic
<b>Date</b>	08-June-2015

### 1.4.2 Release Items

Filename	Version	Change Description
P1x_translation.h	1.0.6	File updated for FLS and CAN macros.
ComStack_Types.h	1.0.1	No change
Std_Types.h	1.0.1	No change
rh850_Types.h	1.0.4	No change
Platform_Types.h	1.0.1	No change
Compiler.h	1.0.3	No change
Compiler_Cfg.h	1.0.5	No change
MemMap.h	1.0.6	No change
NvM_Types.h	1.0.1	No change
Os.h	1.0.1	No change
Os.c	1.0.2	No change
GettingStarted_MCAL_Drivers_X1x.pdf	1.0.5	No change
AUTOSAR_Modules_Overview.pdf	1.0.7	No change

### 1.4.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 1.5 Module Index

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## 2 ADC

### 2.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	ADC
<b>Date</b>	08-June-2015

### 2.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_ADC_P1M_04_05_12_13_20_21.arxml	1.0.5	As part of Px4 V4.00.04 Release, following changes are made 1. As per mantis #24237, Parameter AdcUseHwContiScanMode is added in AdcGroup container. 2. As per mantis #27411, PDF name is modified. 3. Copyright information is updated.
R403_ADC_P1M_10_11_14_15_18_19_22_23.arxml	1.0.6	As part of Px4 V4.00.04 Release, following changes are made 1. As per mantis #24237, Parameter AdcUseHwContiScanMode is added in AdcGroup container. 2. As per mantis #27411, PDF name is modified. 3. Copyright information is updated.
<b>BSWMDT</b>		
R403_ADC_P1x_BSWMDT.arxml	1.0.4	As part of P1x V4.00.04 Release, following changes are made: 1. Software version is updated. 2. As per mantis #26305, critical section name 'RAMDATA_PROTECTION' is changed to 'ADC_RAMDATA_PROTECTION'. 3. Copyright information is updated.
<b>Source Code</b>		
Adc.c	1.7.7	As part of P1x V4.00.04 Release, following changes are made: 1. NULL check is added for 'PtrToSamplePtr' in Adc_GetStreamLastPointer() API. 2. As per mantis #26305, critical section name 'RAMDATA_PROTECTION' is changed to 'ADC_RAMDATA_PROTECTION'. 3. MISRA violation is updated.
Adc_Irq.c	1.3.4	No change

Adc_Private_ADCD_ADCB.c	1.0.7	<p>As part of P1x V4.00.04 Release, following changes are made:</p> <ol style="list-style-type: none"> <li>1. As per mantis #24936 Redundant compilation switches are corrected in Adc_GroupCompleteMode() API.</li> <li>2. As per mantis #25801, 'Track and Hold' implementation is corrected to match with the flow diagram in the HW User manual.</li> <li>3. As per mantis #26305, critical section name 'RAMDATA_PROTECTION' is changed to 'ADC_RAMDATA_PROTECTION'.</li> <li>4. As per mantis #25842, position of critical section exit is corrected in Adc_GroupCompleteMode API.</li> <li>5. As per mantis #24237, software re-triggering is implemented for continuous conversion for software triggered groups.</li> <li>6. As per mantis #27488, HW triggered One-shot conversion is corrected to avoid conversion of more than one stream in one HW trigger.</li> <li>7. As per mantis #26324, volatile declaration is added for variables storing register values.</li> <li>8. MISRA violation is updated.</li> <li>9. As per mantis #27334, redundant variables and double assignments are removed.</li> <li>10. As per mantis #27186, index calculation of the array 'Adc_GpRunTimeData' is corrected to avoid out of bound access.</li> </ol>
Adc_Ram.c	1.5.3	No change
Adc_Version.c	1.1.3	No change
Adc.h	1.5.5	No change
Adc_Debug.h	1.0.2	No change
Adc_Irq.h	1.0.9	No change
Adc_PBTypes_ADCD_ADCB.h	1.0.5	<p>As part of P1x V4.00.04 Release, following changes are made:</p> <ol style="list-style-type: none"> <li>1. As per mantis #25801, 'Track and Hold' implementation is corrected to match with the flow diagram in the HW Usermanual.</li> <li>2. As per mantis #26331, element names are corrected in union 'UInt'.</li> <li>3. As per mantis #26324, volatile declaration is added for variables storing register values.</li> </ol>
Adc_Private.h	1.4.6	<p>As part of P1x V4.00.04 Release, following changes are made:</p> <ol style="list-style-type: none"> <li>1. Compiler switches are corrected for the API Adc_SearchnDelete().</li> </ol>

Adc_Ram.h	1.5.3	No change
Adc_Types.h	1.7.4	No change
Adc_Version.h	1.1.1	No change
<b>Tool Executable</b>		
Adc_ADCD_ADCB.exe	1.3.2	Tool exe updated for tool code changes.
Adc_ADCD_ADCB.cfgxml	1.0.1	No change
<b>X1x Common Sample Application Source file</b>		
App_ADC_Common_Sample.c	1.1.9	No change for P1x V4.00.04 release.
<b>X1x Common Sample Application Header file</b>		
App_ADC_Common_Sample.h	1.0.4	No change for P1x V4.00.04 release.
<b>P1x Sample Application P1M Source file</b>		
App_ADC_P1M_Sample.c	1.0.1	No change for P1x V4.00.04 release.
<b>P1x Sample Application P1M Header file</b>		
App_ADC_Device_Sample.h	1.0.2	No change for P1x V4.00.04 release.
<b>P1x User Manual</b>		
AUTOSAR_ADC_Component_Use rManual.pdf	1.0.4	<p>The following changes are done.</p> <ol style="list-style-type: none"> <li>Chapter 2 is updated for reference document.</li> <li>Section 3.1 is updated for folder section.</li> <li>Section 4.1 is updated for usage guidelines.</li> <li>In chapter 13, P1M supported devices are added.</li> <li>Section 13.1 is updated for translation header file and parameter definition files.</li> <li>Section 13.2 is updated for sample application structure and building sample application.</li> <li>Section 13.3 is updated for memory and throughput details.</li> <li>Chapter 14 is updated for version of ADC Driver component.</li> <li>Range of ChannelId is corrected in sections 10.3.1 and 10.3.2.</li> <li>Channel Mapping is corrected in section 10.3.3.</li> <li>Table 13-2 is updated for CAT-2 ERROR ISR.</li> </ol>
AUTOSAR_ADC_Tool_UserManu al.pdf	1.0.4	<ol style="list-style-type: none"> <li>Error message ERR123140 is added.</li> <li>Section 2.1 Reference Documents are updated to add PDF reference.</li> <li>List of mandatory parameters is updated in section 8.1.</li> </ol>

## 2.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf



## 3 CAN

### 3.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	CAN
<b>Date</b>	08-June-2015

### 3.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_CAN_P1M_04_05_10_to_15.arxml	1.0.4	As part of P1x V4.00.04 release, following changes are made. 1. As per mantis #27411, renamed file. 2. Updated File version and copyright information. 3. As per mantis #24428, added a parameter 'CanWakeupFunctionalityAPI' under CanGeneral container.
R403_CAN_P1M_18_to_23.arxml	1.0.2	As part of P1x V4.00.04 release, following changes are made. 1. As per mantis #27411, renamed file. 2. Updated File version and copyright information. 3. As per mantis #24428, added a parameter 'CanWakeupFunctionalityAPI' under CanGeneral container.
<b>BSWMDT</b>		
R403_CAN_P1x_BSWMDT.arxml	1.0.4	As part of V4.00.04 P1x release, following changes are made 1. Device Support Added for R7F701304, R7F701305, R7F701313, R7F701318, R7F701319, R7F701320, R7F701321, R7F701322, and R7F701323. 2. Software version information is updated. 3. Copyright information is updated.
<b>Source Code</b>		
Can.c	1.2.12	As part of P1x V4.00.04 release, following changes are made, 1. As per mantis #27644, RH850_SV_MODE_IMR_WRITE_ONLY (16, LpWupIntMaskReg, (LpPCController->usWupIntMask)); is changed to RH850_SV_MODE_IMR_AND (16,

		LpWupIntMaskReg, (LpPCController->usWupIntMask)); for the proper masking of IMR register.
Can_Int.c	1.1.6	No change
Can_Irq.c	1.1.8	No change
Can_MainServ.c	1.2.8	No change
Can_ModeCntrl.c	1.2.9	No change
Can_Ram.c	1.1.2	No change
Can_RamTest.c	1.0.4	No change
Can_Version.c	1.0.6	No change
Can_Wakeup.c	1.0.14	As part of P1x V4.00.04 release, Following change is made  1. Access to Can_CheckWakeup() API is made under the compiler switch condition #if(CAN_CHECKWAKEUP_API == STD_ON).
Can_Write.c	1.0.17	No change
Can_Wakeup_Int.c	1.0.1	As part of P1x V4.00.04 release, following changes are made,  1. As per mantis #27642, removed unused parameter 'LucController' from 'CanEnableWakeUp' function definition.  2. As per mantis #27641, 'DNFA2EN' register handling modified.
Can.h	1.0.11	No change
Can_Debug.h	1.0.3	No change
Can_Init.h	1.0.2	No change
Can_Int.h	1.0.2	No change
Can_Irq.h	1.0.8	No change
Can_MainServ.h	1.0.3	No change
Can_ModeCntrl.h	1.0.5	No change
Can_PBTypes.h	1.0.9	No change
Can_PCTypes.h	1.0.11	No change
Can_Ram.h	1.0.6	No change
Can_RamTest.h	1.0.3	No change
Can_RegStruct.h	1.0.3	No change
Can_Tgt.h	1.0.12	No change
Can_Types.h	1.0.9	No change
Can_Version.h	1.0.7	No change
Can_Wakeup.h	1.0.5	As part of P1x V4.00.04 release, Following change is made

		1. Can_CheckWakeup() API is made under the compiler switch condition #if(CAN_CHECKWAKEUP_API == STD_ON).
Can_Write.h	1.0.3	No change
<b>Tool Executable</b>		
Can_X1x.exe	1.2.11	As per mantis #24579 and #24428 BswConfigValidate.pm, BswIm.pm, BswHdr.pm, BswConfig.pm are updated.
Can_X1x.cfgxml	1.0.0	No Change
<b>X1x Sample Application Source file</b>		
App_CAN_Common_Sample.c	1.0.11	As part of P1x V4.00.04 release, Following change is made 1. Can_CheckWakeup() call is made under pre compiler switch #if(CAN_CHECKWAKEUP_API == STD_ON).
<b>X1x Sample Application header file</b>		
App_CAN_Common_Sample.h	1.0.2	No change
<b>P1x Sample Application P1M Source file</b>		
App_CAN_P1M_Sample.c	1.0.1	No change
<b>P1x Sample Application P1M header file</b>		
App_CAN_Device_Sample.h	1.0.0	No change
<b>P1x User Manual</b>		
AUTOSAR_CAN_Component_UserManual.pdf	1.0.3	Following changes are made. 1. Updated 'Chapter 2 Reference Documents'. 2. Added a 'Note' in Chapter 4 , Forethoughts. 3. Chapter 13 is updated for adding new devices support. 4. Chapter 14 is updated for Release Details. 5. Section 13.3 is updated with Memory, Stack Usage and Throughput details for 144 pin device 701310. 6. Added ISR Throughput details in section 13.3. 7. Chapter 13, section 13.2 compiler, linker, and assembler options removed.
AUTOSAR_CAN_Tool_UserManual.pdf	1.0.2	Following change is made 1. Updated 'Section 2.1 Reference documents'. 2. In Section 8.1, ERR080075 to ERR080080 are added. 3. In Section 8.3, INF080007 to INF080010 are added.

### 3.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 4 DIO

### 4.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	DIO
<b>Date</b>	08-June-2015

### 4.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_DIO_P1M_04_05_12_13_20_21.arxml	1.0.3	Following changes are made : 1. File renamed from R403_DIO_P1M_701304_701305_701312_701313_701320_701321.arxml to R403_DIO_P1M_04_05_12_13_20_21.arxml as per mantis #27411. 2. Parameter DioPortName is updated with portgroups pin information
R403_DIO_P1M_10_11_14_15_18_19_22_23.arxml	1.0.4	Following changes are made: 1. File is renamed from R403_DIO_P1M_701310_701311_701314_701315_701318_701319_701322_701323.arxml to R403_DIO_P1M_10_11_14_15_18_19_22_23.arxml as per mantis #27411.
<b>BSWMDT</b>		
R403_DIO_P1x_BSWMDT.arxml	1.0.4	Following changes are made: 1. Environment section is updated for new devices. 2. Copyright information is updated.
<b>Source Code</b>		
Dio.c	1.0.21	No change
Dio_Ram.c	1.0.7	No change
Dio_Version.c	1.0.6	No change
Dio.h	1.0.11	No change
Dio_Debug.h	1.0.3	No change
Dio_LTypes.h	1.0.14	No change
Dio_PBTypes.h	1.0.12	No change
Dio_Ram.h	1.0.10	No change
Dio_Version.h	1.0.8	No change
<b>Tool Executable</b>		
Dio_X1x.exe	1.0.16	No change
Dio_X1x.cfgxml	1.0.1	No change

<b>P1x Sample Application P1M Source file</b>		
App_DIO_P1M_Sample.c	1.0.4	No change
<b>P1x Sample Application P1M header file</b>		
App_DIO_Device_Sample.h	1.0.4	Following changes are made: 1. Updated to support new devices 701318, 701319, 701320, 701321, 701322, 701323 2. Copyright information is updated.
<b>P1x User Manual</b>		
AUTOSAR_DIO_Component_User Manual.pdf	1.0.6	Following changes are made: 1. Chapter 2 reference documents section is updated. 2. Chapter 3 section 3.1.1 is updated for new devices. 3. Chapter 4 section 4.1 General is updated and a note is added regarding interrupt vector (.c) file 4. Chapter 13 13.1.1 Translation header files section is updated as per new devices. 13.1.2 PDF section is updated as per new devices. 13.3.1 Sample application structure is updated for new devices 13.3.2 Building sample application section is updated 13.4 Memory and throughput details are updated for 144 pin devices.
AUTOSAR_DIO_Tool_UserManual .pdf	1.0.2	Section 2.1 Reference documents section is updated with the parameter definition file names.

### 4.3 Known Issues

<b>ID</b>	<b>Description</b>
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 5 FLS

### 5.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	FLS
<b>Date</b>	08-June-2015

### 5.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_FLS_P1M_04_05.arxml	1.1.1	<p>As part of P1x V4.00.04 Release,</p> <ol style="list-style-type: none"> <li>1. As per mantis #24538, parameter 'FlsCancelTime' is added in FlsPublishedInformation container.</li> <li>2. As per mantis #24538, parameter 'FlsCFCancelTime' is added in FlsCodeFlash container.</li> <li>3. As per mantis #23970, description of parameters 'FlsEraseTime', 'FlsWriteTime', 'FlsBlankCheckTime' and 'FlsReadTime' are updated.</li> <li>4. As per mantis #27411, filename is updated.</li> <li>5. Updated file version and copyright information.</li> </ol>
R403_FLS_P1M_10_to_15.arxml	1.1.1	<p>As part of P1x V4.00.04 Release,</p> <ol style="list-style-type: none"> <li>1. As per mantis #24538, parameter 'FlsCancelTime' is added in FlsPublishedInformation container.</li> <li>2. As per mantis #24538, parameter 'FlsCFCancelTime' is added in FlsCodeFlash container.</li> <li>3. As per mantis #23970, description of parameters 'FlsEraseTime', 'FlsWriteTime', 'FlsBlankCheckTime' and 'FlsReadTime' are updated.</li> <li>4. As per mantis #27411, filename is updated.</li> <li>5. Updated file version and copyright information.</li> </ol>
R403_FLS_P1M_18_to_23.arxml	1.0.1	<p>As part of P1x V4.00.04 Release,</p> <ol style="list-style-type: none"> <li>1. As per mantis #24538, parameter 'FlsCancelTime' is added in FlsPublishedInformation container.</li> <li>2. As per mantis #24538, parameter 'FlsCFCancelTime' is added in FlsCodeFlash container.</li> <li>3. As per mantis #23970, description of parameters 'FlsEraseTime', 'FlsWriteTime', 'FlsBlankCheckTime' and 'FlsReadTime' are updated.</li> </ol>

		4. As per mantis #27411, filename is updated. 5. Updated file version and copyright information.
<b>BSWMDT</b>		
R403_FLS_P1x_BSWMDT.arxml	1.0.4	As part of P1x V4.00.04 release, following changes are made: 1. Updated software version. 2. Updated file version and copyright information.
<b>Source Code</b>		
Fls.c	1.3.9	As part of P1x V4.00.04 release, following changes are made: 1. As per mantis #28186, section DRIVERSTATE_DATA_PROTECTION is renamed to FLS_DRIVERSTATE_DATA_PROTECTION. 2. Updated file version.
Fls_Irq.c	1.0.2	No change
Fls_Internal.c	1.3.6	No change
Fls_Ram.c	1.2.5	No change
Fls_Version.c	1.1.0	No change
Fls.h	1.3.5	No change
Fls_Debug.h	1.0.1	No change
Fls_Internal.h	1.3.2	No change
Fls_Irq.h	1.0.1	No change
Fls_PBTypes.h	1.5.3	No change
Fls_Ram.h	1.2.5	No change
Fls_Types.h	1.3.5	No change
Fls_Version.h	1.1.1	No change
<b>Tool Executable</b>		
Fls_X1x.exe	1.3.6	No change
Fls_X1x.cfgxml	1.0.0	No change
<b>X1x Sample Application source file</b>		
App_FLS_Common_Sample.c	1.1.9	No change
<b>X1x Sample Application header file</b>		
App_FLS_Common_Sample.h	1.0.2	No change
<b>P1x Sample Application P1M Source file</b>		
App_FLS_P1M_Sample.c	1.0.0	No change
<b>P1x Sample Application P1M header file</b>		
App_FLS_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_FLS_Component_User Manual.pdf	1.0.5	The following changes are made: 1. Chapter 2: Reference document is updated

		<p>2. As part of device support activity for R7F701304, R7F701305, R7F701313, R7F701315, R7F701318 to R7F701323 updated sections 3.1.1, 13.1.1, 13.1.2, 13.3.1.</p> <p>3. Updated version number and copyright year.</p> <p>4. Updated section 13.4 for memory and throughput.</p> <p>5. Removed section Compiler, Linker and Assembler in Chapter13.</p> <p>6. Removed Test_Application_P1x.trxml path from Section 3.1.1.</p> <p>7. Section 4.1 is updated for adding note in Forethoughts.</p> <p>8. Chapter 12 is updated.</p> <p>9. Section 4.2. Preconditions is updated.</p> <p>10. Updated Tables 4-2 and 4-3 in Section 4.5.</p> <p>11. Chapter 14: Release Detail is updated for FLS Driver Version</p>
AUTOSAR_FLS_Tool_UserManual.pdf	1.0.3	<p>The following changes are made:</p> <ul style="list-style-type: none"> <li>• Pdf name and version are updated in Section 2.1</li> <li>• Added parameters FlsCancelTime and FlsCFCancelTime in the list of mandatory parameters in Section 8.1.</li> <li>• The description of error ERR092029 is updated in Section 8.1.</li> <li>• Updated version number and copyright year.</li> </ul>

### 5.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf



## 6 FLSTST

### 6.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	FLSTST
<b>Date</b>	08-June-2015

### 6.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_FLSTST_P1M_04_05.arxml	1.0.3	As part of P1x V4.00.04 development activity the following changes are made: 1. As per mantis #27411, file name changed to R403_FLSTST_P1M_04_05.arxml 2. Copyright information updated. 3. ADMIN-DATA updated.
R403_FLSTST_P1M_10_to_15.arxml	1.0.3	As part of P1x V4.00.04 development activity the following changes are made: 1. As per mantis #27411, file name changed to R403_FLSTST_P1M_10_to_15.arxml 2. Copyright information updated. 3. ADMIN-DATA updated.
R403_FLSTST_P1M_18_to_23.arxml	1.0.1	As part of P1x V4.00.04 development activity the following changes are made: 1. As per mantis #27411, file name changed to R403_FLSTST_P1M_18_to_23.arxml 2. Copyright information updated. 3. ADMIN-DATA updated.
<b>BSWMDT</b>		
R403_FLSTST_P1x_BSWMDT.arxml	1.0.3	As part of P1x V4.00.04 development activity the following changes are made: 1. Environment section updated to add device support 2. Copyright information updated.
<b>Source Code</b>		
FlsTst.c	1.0.6	No change
FlsTst_Ram.c	1.0.3	No change
FlsTst_Version.c	1.0.1	No change

FlsTst.h	1.0.4	No change
FlsTst_Debug.h	1.0.0	No change
FlsTst_PBTypes.h	1.0.3	No change
FlsTst_Ram.h	1.0.4	No change
FlsTst_Types.h	1.0.2	No change
FlsTst_Version.h	1.0.0	No change
<b>Tool Executable</b>		
FlsTst_X1x.exe	1.0.4	No change
FlsTst_X1x.cfxml	1.0.0	No change
<b>X1x Sample Application source file</b>		
App_FLSTST_Common_Sample.c	1.0.1	No change
<b>X1x Common Sample Application header file</b>		
App_FLSTST_Common_Sample.h	1.0.0	No change
<b>P1x Sample Application P1M Source file</b>		
App_FLSTST_P1M_Sample.c	1.0.0	No change
<b>P1x Sample Application P1M header file</b>		
App_FLSTST_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_FLSTST_Component_UserManual.pdf	1.0.5	As part of P1x V4.00.04 following changes are made:  1. Section 4.1 is updated by adding forethought 2. Section 13.2 for compiler, linker and assembler options is removed 3. Sections 13.3.1, Section 13.3.2, Section 13.3.3 are updated with RAM/ROM details and throughput details 4. Section 13 and Section 13.1.1 are updated by adding the new devices supported by the translation header 5. Section 13.1.2 is updated with the renamed pdf files used 6. Section 13.2.1 is updated by adding the sample applications added for the new devices 7. Section 13.2.2 is updated by adding the new devices supported.
AUTOSAR_FLSTST_SA_Test_Procedure.pdf	1.0.1	No change.
AUTOSAR_FLSTST_Tool_UserManual.pdf	1.0.3	As part of P1x 4.00.04 the following changes are made:

		Reference documents section is updated.
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## 6.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 7 FR

### 7.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	FR
<b>Date</b>	08-June-2015

### 7.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_FR_P1M_04_05_10_to_15_18_to_23.arxml	1.0.4	As per the PRD, 1. Devices R7F701318, R7F701319, R7F701320, R7F701321, R7F701322 and R7F701323 are added in 'FrDeviceName' parameter and in environment section and devices which are not in scope is removed. 2. As per Mantis #27411, The file name has been changed to R403_FR_P1M_04_05_10_to_15_18_to_23 from R403_FR_P1M_701300_701301_701304_701305_701308_to_701323 3. As per Mantis #27728, Max, Min and default value of following parameters FrOutputPtrTableAddress, FrFifoPtrTableAddress and FrInputPtrTableAddress are modified.
<b>BSWMDT</b>		
R403_Fr_P1x_BSWMDT.arxml	1.0.2	As part of P1x V4.00.04 Maintenance activity, 1. Software version information is updated. 2. Module ID is Changed to 81 3. Environment Section is updated to add all Supported devices of P1M.
<b>Source Code</b>		
Fr_59.c	1.0.4	No change
Fr_59_Internal.c	1.0.4	No change
Fr_59_Version.c	1.0.1	No change
Fr_59_Ram.c	1.0.2	No change
Fr_59_Debug.h	1.0.1	No change
Fr_59_GeneralTypes.h	1.0.1	No change
Fr_59_Internal.h	1.0.3	As part of P1x_V4.00.04 maintenance activity, As per mantis #27460, following API's are declared as extern. 1. Fr_Input_Queue_Halt(), Fr_User_Request_Input_Transfer(), Fr_User_Request_Output_Transfer.

Fr_59_PBTypes.h	1.0.3	No change
Fr_59_Ram.h	1.0.2	No change
Fr_59_Types.h	1.0.1	No change
Fr_59_Version.h	1.0.1	No change
Fr_59.h	1.0.3	No change
<b>Tool Executable</b>		
Fr_X1x.exe	1.0.4	No change
Fr_X1x.cfgxml	1.0.0	Initial Version.
<b>X1x Common Sample Application Source file for node1</b>		
App_FR_Common_Sample.c	1.0.1	No change
<b>X1x Common Sample Application Source file for node2</b>		
App_FR_Common_Sample.c	1.0.1	No change
<b>X1x Common Sample Application header file for node1</b>		
App_FR_Common_Sample.h	1.0.1	No change
<b>X1x Common Sample Application header file for node2</b>		
App_FR_Common_Sample.h	1.0.1	No change
<b>P1x Sample Application P1M Source file for node1</b>		
App_FR_P1M_Sample.c	1.0.2	No change
<b>P1x Sample Application P1M Source file for node2</b>		
App_FR_P1M_Sample.c	1.0.2	No change
<b>P1x Sample Application P1M header file for node1</b>		
App_FR_Device_Sample.h	1.0.2	No change
<b>P1x Sample Application P1M header file for node2</b>		
App_FR_Device_Sample.h	1.0.2	No change
<b>P1x User Manual</b>		
AUTOSAR_FR_Component_User Manual.pdf	1.0.3	<p>Following changes are made:</p> <ol style="list-style-type: none"> <li>Chapter 2 Reference Documents updated.</li> <li>Chapter 1, 8, 12 and Sections 3.1.1, 4.2, 4.5, 10.3, 13.2.1, 13.3.3 Updated the file names by adding vender id.</li> <li>Section 13.2.1. Sample Application Structure updated by adding the sample application configuration for supported devices.</li> <li>Memory and Throughput details updated in section 13.2.</li> <li>Chapter 14 Release Details updated.</li> <li>Copyright information updated.</li> <li>Removed Compiler and Linker options.</li> </ol>
AUTOSAR_FR_Tool_UserManual.pdf	1.0.4	<p>Following changes are made:</p> <ol style="list-style-type: none"> <li>File names of Fr_PBcfg.c and Fr_Cfg.h renamed to Fr_59_PBcfg.c and Fr_59_Cfg.h.</li> </ol>

		2. Copyright information updated
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### 7.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 8 GPT

### 8.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	GPT
<b>Date</b>	08-June-2015

### 8.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_GPT_P1M_04_05_12_13_20_21.xml	1.0.1	As part of P1x V4.00.04 development activity the following changes are made: 1. As per mantis #27411, file name changed to R403_GPT_P1M_04_05_12_13_20_21.xml 2. Copyright information updated. 3. ADMIN-DATA updated.
R403_GPT_P1M_10_11_14_15_18_19_22_23.xml	1.0.6	As part of P1x V4.00.04 development activity the following changes are made: 1. As per mantis #27411, file name changed to R403_GPT_P1M_10_11_14_15_18_19_22_23.xml 2. Copyright information updated. 3. ADMIN-DATA updated.
<b>BSWMDT</b>		
R403_GPT_P1x_BSWMDT.xml	1.0.4	No change
<b>Source Code</b>		
Gpt.c	1.0.17	No change
Gpt_Irq.c	1.0.8	No change
Gpt_LLDriver.c	1.0.19	No change
Gpt_Ram.c	1.0.4	No change
Gpt_Version.c	1.0.3	No change
Gpt.h	1.0.5	No change
Gpt_Debug.h	1.0.3	No change
Gpt_Irq.h	1.0.7	No change
Gpt_LLDriver.h	1.0.5	No change

Gpt_PBTypes.h	1.0.14	No change
Gpt_Ram.h	1.0.4	No change
Gpt_RegReadBack.h	1.0.1	No change
Gpt_Types.h	1.0.5	No change
Gpt_Version.h	1.0.4	No change
<b>Tool Executable</b>		
Gpt_X1x.exe	1.1.6	No change
Gpt_X1x.cfgxml	1.0.0	No change
<b>X1x Common Sample Application Source file</b>		
App_GPT_Common_Sample.c	1.0.5	No change
<b>X1x Common Sample Application header file</b>		
App_GPT_Common_Sample.h	1.0.3	No change
<b>P1x Sample Application P1M Source file</b>		
App_GPT_P1M_Sample.c	1.0.1	No change
<b>P1x Sample Application P1M header file</b>		
App_GPT_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_GPT_Component_UserManual.pdf	1.0.5	Following changes are made: 1. Added note in chapter4 Forethoughts. 2. Removed Compiler Assembler and linker option. 3. Updated copyright information. 4. Updated chapter 13 to add additional device support. 5. Updated throughput and memory details.
AUTOSAR_GPT_Tool_UserManual.pdf	1.0.5	Following changes are made: • Updated copyright information. • Updated reference section with new PDF name.

### 8.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf



## 9 ICU

### 9.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	ICU
<b>Date</b>	08-June-2015

### 9.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_ICU_P1M_04_05_12_13_20_21.xml	1.0.1	As per mantis issue #27411, following changes has been made: 1. PDF renamed as R403_ICU_P1M_04_05_12_13_20_21.xml 2. Copyright information is updated.
R403_ICU_P1M_10_11_14_15_18_19_22_23.xml	1.1.2	As per mantis issue #27411, following changes has been made: 1. PDF renamed as R403_ICU_P1M_04_05_12_13_20_21.xml 2. Copyright information is updated.
<b>BSWMDT File</b>		
R403_ICU_P1x_BSWMDT.xml	1.0.2	No change
<b>Source Code</b>		
Icu.c	1.5.5	No change
Icu_Irq.c	1.2.0	No change
Icu_LLDriver.c	1.6.6	No change
Icu_Ram.c	1.1.4	No change
Icu_Version.c	1.0.4	No change
Icu.h	1.4.4	No change
Icu_Debug.h	1.0.1	No change
Icu_Irq.h	1.1.1	No change
Icu_LLDriver.h	1.3.4	No change
Icu_PBTypes.h	1.5.5	No change
Icu_Ram.h	1.1.4	No change
Icu_Types.h	1.1.2	No change
Icu_Version.h	1.0.3	No change
<b>Tool Executable</b>		
Icu_X1x.exe	1.4.6	No change

Icu_P1x.cfgxml	1.0.0	No change
<b>X1x Common Sample Application Source file</b>		
App_ICU_Common_Sample.c	1.3.4	No change
<b>P1x Sample Application Source file</b>		
App_ICU_P1M_Sample.c	1.0.4	As a part of P1x V4.00.04 release corrected Port_Init() for Device 701310.
<b>X1x Common Sample Application Header file</b>		
App_ICU_Common_Sample.h	1.0.2	No change
<b>P1x Sample Application Header file</b>		
App_ICU_Device_Sample.h	1.0.0	No change
<b>P1x User Manual</b>		
AUTOSAR_ICU_Component_User Manual.pdf	1.0.7	Following changes are made: 1. Chapter 2 Reference documents are updated for version change. 2. Chapter 4 is updated for information regarding Interrupt vector table. 3. Section 13.1.1 is updated for adding new devices. 4. Section 13.1.1 is updated for names of PDF. 5. Section 13.2 Compiler, Linker and Assembler section is removed. 6. Section 13.2 is updated for parameter definition file and sample application configuration files of all P1M devices. 7. Section 13.3 Memory and Throughput details are updated
AUTOSAR_ICU_Tool_UserManual .pdf	1.0.4	Following changes are made: Parameter definition file names and versions are updated in section 2.1.

### 9.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 10 MCU

### 10.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	MCU
<b>Date</b>	08-June-2015

### 10.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_MCU_P1M_04_05.arxml	1.1.4	<p>1. As per Mantis #26418, Description of "McuResetReason" parameter is to "The parameter represents the different type of reset that a Micro supports. This parameter is referenced by the parameter EcuMResetReason in the ECU State manager module, MCU_SW_RESET."</p> <p>2. As per Mantis #27411, The file name has been changed to R403_MCU_P1M_04_05 from R403_MCU_P1M_701304_701305</p> <p>3. Local RAM range corrected to 4273864704 to 4273995775</p>
R403_MCU_P1M_10_to_15_18_to_23.arxml	1.0.1	<p>1. As per Mantis #26418, Description of "McuResetReason" parameter is to "The parameter represents the different type of reset that a Micro supports. This parameter is referenced by the parameter EcuMResetReason in the ECU State manager module, MCU_SW_RESET."</p> <p>2. As per Mantis #27411, The file name has been changed to R403_MCU_P1M_10_to_15_18_to_23 from R403_MCU_P1M_701310_to_701315_7013018_to_7013023.</p>
<b>BSWMDT</b>		
R403_MCU_P1x_BSWMDT.arxml	1.0.5	Updated SW-VERSION for changes in Source code
<b>Source Code</b>		
Mcu.c	1.0.6	<p>1. As per mantis #26418 ,following change is made: MCU_SW_RST is corrected with name MCU_SW_RESET , MCU_WDT_RST is corrected with name MCU_WATCHDOG_RESET, MCU_POWER_ON_CLEAR_RST is corrected with name MCU_POWER_ON_RESET</p> <p>2. Added code comments as per MO Review in Mantis</p>

		#27515 3. Justifications for QAC warnings Msg(4:0857), Msg(4:2983), Msg(4:4499), Msg(4:2991), Msg(4:2982), Msg(4:2992), Msg(4:2996), Msg(4:0400).
Mcu_Irq.c	1.0.6	1. Added code comments as per MO Review in Mantis #27515 2. Added justification for MISRA warning Msg(4:3138) 3. Added compiler switch, #ifndef Os_MCU_FEINT_CAT2_ISR and #ifndef MCU_FEINT_CAT2_ISR for MCU_FENMI_ENTRY and MCU_FENMI_LEAVE as per mantis #27723
Mcu_Ram.c	1.0.4	Added code comments as per MO Review in Mantis #27515
Mcu_Version.c	1.0.2	No changes
Mcu.h	1.0.3	1. Added code comments as per MO Review in Mantis #27515 2. Added Justification for MISRA Violation: START Msg(4:3412)
Mcu_Debug.h	1.0.2	Added code comments as per MO Review in Mantis #27515
Mcu_Irq.h	1.0.2	1.Added code comments as per MO Review in Mantis #27515 2.Removed _Interrupt_ from MCU_FEINT_ISR
Mcu_PBTypes.h	1.0.4	Added code comments as per MO Review in Mantis #27515
Mcu_Ram.h	1.0.4	Added code comments as per MO Review in Mantis #27515
Mcu_Types.h	1.0.4	1.As per mantis #26418 ,following change is made: MCU_SW_RST is corrected with name MCU_SW_RESET , MCU_WDT_RST is corrected with name MCU_WATCHDOG_RESET , MCU_POWER_ON_CLEAR_RST is corrected with name MCU_POWER_ON_RESET 2. Added code comments as per MO Review in Mantis #27515
Mcu_Version.h	1.0.1	Added code comments as per MO Review in Mantis #27515
<b>Tool Executable</b>		
Mcu_P1x.exe	1.1.1	Updated for Ver4.0004 release
Mcu_P1x.cfgxml	1.0.0	No change
<b>P1x Sample Application P1M Source file</b>		
App_MCU_P1M_Sample.c	1.0.3	As per mantis #27723, the following change is made, 1. Removed #pragma intvect MCU_FEINT_ISR 0x000000E0.
<b>P1x Sample Application P1M header file</b>		
App_MCU_Device_Sample.h	1.0.2	No change

<b>P1x User Manual</b>		
AUTOSAR_MCU_Component_Use rManual.pdf	1.0.5	<p>Following changes are made:</p> <ol style="list-style-type: none"> <li>1. New section, “4.7 Callout API” added to chapter 4.</li> <li>2. Information regarding Interrupt vector table is added to “Section 4.1 General”.</li> <li>3. As part of device support activity for R7F701304, R7F701305, R7F701313, R7F701315, R7F701318 to R7F701323 updated sections 3.1.1, 13.1, 13.2.</li> <li>4. Removed section Compiler, Linker and Assembler in Chapter 13.</li> <li>5. Updated section 13.3 for memory and throughput</li> <li>6. Copyright information has been changed to 2015</li> </ol>
AUTOSAR_MCU_Tool_UserManual.pdf	1.0.3	<p>The following changes are made:</p> <ul style="list-style-type: none"> <li>• Pdf name and version are updated in Section 2.1</li> <li>• Updated version and copyright year.</li> </ul>

### 10.3 Known Issues

<b>ID</b>	<b>Description</b>
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

# 11 PORT

## 11.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	PORT
<b>Date</b>	08-June-2015

## 11.2 Release Items

Filename	Version	Change Description
<b>P1x- Parameter Definition files</b>		
R403_PORT_P1M_04_05.arxml	1.0.1	As per mantis 27411,27777,26630 following changes are made 1. File name changed to R403_PORT_P1M_04_05.arxml from R403_PORT_P1M_701304_701305.arxml 2. Copyright information is updated. 3. Parameter 'PortIpControl' is removed from PortGroup0,PortGroup2 PortPin4,PortGroup3 PortPin11,14,PortGroup4 PortPin2-4 and PortGroup5 PortPin5-14 4. Parameters 'PortInputSelection', 'PortUnlimitedCurrentControl', 'PortDriveStrengthControl' and 'PortOpenDrainControl_Expansion' are removed from PortPin4 of PortGroupJtag0.
R403_PORT_P1M_10_11_14_15.arxml	1.0.4	As per mantis 27411,27777,26630 following changes are made: 1. File name changed from R403_PORT_P1M_701310_701311_701314_701315.arxml to R403_PORT_P1M_10_11_14_15.arxml. 2. Copyright information is updated. 3. Parameter 'PortInputSelection' is removed from PortPin0 of PortGroup0 and PortPin4 of PortGroupJtag0. 4. Parameters 'PortInputSelection', 'PortUnlimitedCurrentControl', 'PortDriveStrengthControl' and 'PortOpenDrainControl_Expansion' are removed from PortPin4 of PortGroupJtag0 5. Parameter 'PortIpControl' is removed from PortGroup0,PortGroup3 PortPin11,14, PortGroup4 PortPin2-4 and PortGroup5 PortPin5-15.
R403_PORT_P1M_12_13.arxml	1.0.2	As per mantis 27411,27777,26630 following changes are made: 1. File name changed from

		<p>R403_PORT_P1M_701312_701313.arxml to R403_PORT_P1M_12_13.arxml</p> <p>2. Copyright information is updated.</p> <p>3. Parameter 'PortIpControl' is removed from PortGroup0,PortGroup1 PortPin1,PortGroup3 PortPin11,14,PortGroup4 PortPin2-4 and PortGroup5 PortPin0,5-14.</p> <p>4. Parameter 'PortInputSelection' is removed from PortGroup2 PortPin3,6,8,PortGroup3 PortPin3</p> <p>5. Parameters 'PortInputSelection', 'PortUnlimitedCurrentControl', 'PortDriveStrengthControl' and 'PortOpenDrainControl_Expansion' are removed from PortPin4 of PortGroupJtag0.</p>
R403_PORT_P1M_18_19_22_23.arxml	1.0.1	<p>As per mantis 27411,27777,26630 following changes are made:</p> <p>1. File name changed from R403_PORT_P1M_701318_701319_701322_701323.arxml to R403_PORT_P1M_18_19_22_23.arxml.</p> <p>2. Copyright information is updated.</p> <p>3. Parameters 'PortInputSelection', 'PortUnlimitedCurrentControl', 'PortDriveStrengthControl' and 'PortOpenDrainControl_Expansion' are removed from PortPin4 of PortGroupJtag0</p> <p>4. Parameter 'PortIpControl' is removed from PortGroup0,PortGroup3 PortPin5,11,14, PortGroup4 PortPin2-4 and PortGroup5 PortPin5-14</p>
R403_PORT_P1M_20_21.arxml	1.0.1	<p>As per mantis 27411,27777,26630 following changes are made:</p> <p>1. File name changed from R403_PORT_P1M_701320_701321.arxml to R403_PORT_P1M_20_21.arxml.</p> <p>2. Copyright information is updated.</p> <p>3. Parameter 'PortIpControl' is removed from PortGroup0,PortGroup2 PortPin0,PortGroup3 PortPin11,14,PortGroup4 PortPin2-4 and PortGroup5 PortPin5-14</p> <p>4. Parameter 'PortInputSelection' is removed from PortGroup0 PortPin10,PortGroup3 PortPin13.</p> <p>5. Parameters 'PortInputSelection', 'PortUnlimitedCurrentControl', 'PortDriveStrengthControl' and 'PortOpenDrainControl_Expansion' are removed from PortPin4 of PortGroupJtag0.</p>

<b>BSWMDT</b>		
R403_PORT_P1x_BSWMDT.arxml	1.0.3	As per mantis #27419 following changes are made: 1. Environment section is updated to add P1x devices 2. Copyright information is updated.
<b>Source Code</b>		
Port.c	1.5.9	No change
Port_Ram.c	1.0.3	No change
Port_Version.c	1.0.2	No change
Port.h	1.5.3	No change
Port_Debug.h	1.0.1	No change
Port_Types.h	1.3.1	No change
Port_PBTtypes.h	1.4.7	No change
Port_Ram.h	1.0.1	No change
Port_Version.h	1.0.5	No change
<b>Tool Executable</b>		
Port_X1x.exe	1.3.12	Tool updated for P1x Ver4.00.04 release.
Port_X1x.cfgxml	1.0.0	No change
<b>P1x Sample Application P1M Source file</b>		
App_PORT_P1M_Sample.c	1.0.4	No change
<b>P1x Sample Application P1M header file</b>		
App_PORT_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_PORT_Component_UserManual.pdf	1.0.5	Following changes are made: 1. Section 1.1 Document Overview is updated. 2. Chapter 2 Reference documents are updated for version change. 3. Chapter 4 is updated for information regarding Interrupt vector table. 4. Chapter 6 Port_SetPinMode is updated. 5. Section 10.2.4 Port_PinModeType is updated. 6. Section 13.1.1 is updated for adding new devices. 7. Section 13.2 Compiler, Linker and Assembler section is removed. 8. Section 13.2 is updated for parameter definition file and sample application configuration files of all P1M devices. 9. Section 13.3 Memory and Throughput details are updated.
AUTOSAR_PORT_Tool_UserManual.pdf	1.0.5	Following changes are made: 1. Parameter Definition file names and versions are updated in section 2.1.



		2. Error message ERR124018 is added in section 8.1.
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### 11.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 12 PWM

### 12.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	PWM
<b>Date</b>	08-June-2015

### 12.2 Release Items

Filename	Version	Change Description
<b>P1x Parameter Definition file</b>		
R403_PWM_P1M_04_05_12_13_20_21.arxml	1.0.1	As part of P1x V4.00.04 Maintenance Activity, the following changes are done. 1. As per mantis #27411, the file names are changed and file version is updated. 2. Copyright information is updated. 3. Admin Data is updated.
R403_PWM_P1M_10_11_14_15_18_19_22_23.arxml	1.0.3	As part of P1x V4.00.04 Maintenance Activity, the following changes are done. 1. As per mantis #27411, the file names are changed and file version is updated. 2. Copyright information is updated. 3. Admin Data is updated.
<b>BSWMDT File</b>		
R403_PWM_P1x_BSWMDT.arxml	1.0.3	No change
<b>Source Code</b>		
Pwm.c	1.6.7	No change
Pwm_Irq.c	1.2.1	No change
Pwm_LLDriver.c	1.6.9	No change
Pwm_Ram.c	1.3.8	No change
Pwm_Version.c	1.0.4	No change
Pwm.h	1.4.6	No change
Pwm_Debug.h	1.0.1	No change
Pwm_Irq.h	1.2.0	No change
Pwm_LLDriver.h	1.4.4	No change
Pwm_PBTypes.h	1.4.9	No change
Pwm_Ram.h	1.3.8	No change
Pwm_Types.h	1.5.5	No change
Pwm_Version.h	1.0.5	No change

<b>Tool Executable</b>		
PWM_X1x.exe	1.6.5	No change
Pwm_X1x.cfxml	1.0.0	No change
<b>X1x Sample Application Source file</b>		
App_PWM_Common_Sample.c	1.4.4	No change
<b>X1x Sample Application header file</b>		
App_PWM_Common_Sample.h	1.0.3	No change
<b>P1x Sample Application P1M Source file</b>		
App_PWM_P1M_Sample.c	1.0.3	No change
<b>P1x Sample Application P1M Header file</b>		
App_PWM_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_PWM_Component_UserManual.pdf	1.0.3	As part of V4.00.04 P1x Maintenance Activity, Following changes are made. 1. Chapter 2 is updated for referenced documents version. 2. Updated Section 3.1.1 and section 13.1.1 for adding the device names. 3. Section 13.3.1 is updated for name of the parameter definition file and additional devices. 4. Section 13.4 is updated for ROM/RAM usage, Stack Depth and Throughput details. 5. Section 4.1 is updated to add notes for the file "Interrupt_VectorTable.c" and the API "Pwm_SetChannelOutput". 6. In Section 13, The Compiler, Linker and Assembler options are removed. 7. Section 4.6, Table 4-2, Remarks is updated for the Set_TriggerDealy API. 8. In Section 4.1, a note is updated for the 'The counter of master channel'.
AUTOSAR_PWM_Tool_UserManual.pdf	1.0.3	As part of V4.00.04 P1x Maintenance Activity, following changes are made: 1. Chapter 2 'Reference' is updated for the name and version of the parameter definition files. 2. Error message ERR000019 is added in section 8.1

## 12.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

## 13 RAMTST

### 13.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	RAMTST
<b>Date</b>	08-June-2015

### 13.2 Release Items

Filename	Version	Change Description
<b>P1x Parameter Definition file</b>		
R403_RAMTST_P1M_04_05.arxml	1.0.1	As per mantis 25915 following changes are made: 1. File name changed to R403_RAMTST_P1M_04_05.arxml from R403_RAMTST_P1M_701304_701305.arxml. 2. LOWER-MULTIPLICITY of RamTstDemEventParameterRefs container and RAMTST_E_RAM_FAILURE parameter is updated.
R403_RAMTST_P1M_10_to_15_18_to_23.arxml	1.0.3	As per mantis 25915 , following changes are made : 1. LOWER-MULTIPLICITY of RamTstDemEventParameterRefs container and RAMTST_E_RAM_FAILURE parameter is updated. 2. File name changed from R403_RAMTST_P1M_701310_to_701315_701318_to_701323.arxml to R403_RAMTST_P1M_10_to_15_18_to_23.arxml
<b>BSWMDT</b>		
R403_RAMTST_P1x_BSWMDT.arxml	1.0.4	No change
<b>Source Code</b>		
RamTst.c	1.1.4	No change
RamTst.h	1.1.3	No change
RamTst_RegReadBack.h	1.0.1	No change
RamTst_Types.h	1.1.2	No change
<b>Tool Executable</b>		
RamTst_X1x.exe	1.0.8	No change
RamTst_X1x.cfgxml	1.0.0	No change
<b>X1x Sample Application source file</b>		
App_RAMTST_Common_Sample.c	1.0.1	No change
<b>X1x Sample Application header file</b>		
App_RAMTST_Common_Sample.h	1.0.0	No change

<b>P1x Sample Application P1M Source file</b>		
App_RAMTST_P1M_Sample.c	1.0.2	No change
<b>P1x Sample Application P1M header file</b>		
App_RAMTST_Device_Sample.h	1.0.1	No change
<b>P1x User Manual</b>		
AUTOSAR_RAMTST_Component _UserManual.pdf	1.0.3	As part of P1x V4.00.04 activity following changes are made: 1. In chapter 2, Reference documents updated. 2. Chapter 3, section 3.3.1 Folder structure updated. 3. Chapter 13 supporting device name updated, also section 13.1.1 updated. 4. Chapter 13, section 13.2 compiler, linker, and assembler options removed. 5. Chapter 13, section 13.2 Sample Application updated. 6. Chapter 13, section 13.3 Memory And Throughput Details updated.
AUTOSAR_RAMTST_Tool_User Manual.pdf	1.0.3	Following changes are made: 1.Updated chapter 2 by adding new PDF reference.

### 13.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf

# 14 SPI

## 14.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	SPI
<b>Date</b>	08-June-2015

## 14.2 Release Items

Filename	Version	Change Description
<b>P1x Parameter Definition file</b>		
R403_SPI_P1M_04_05_12_13_20_21.xml	1.0.5	As per mantis #27411, following changes are made 1. File has been renamed to reduce file name length. 2. Updated Copyright information.
R403_SPI_P1M_10_11_14_15_18_19_22_23.xml	1.0.5	As per mantis #27411, following changes are made 1. File has been renamed to reduce file name length. 2. Updated Copyright information.
<b>BSWMDT File</b>		
R403_SPI_P1x_BSWMDT.xml	1.0.6	Following changes are made: 1. Software version information is updated. 2. Updated copyright information.
<b>Source Code</b>		
Spi.c	1.5.6	No change
Spi_Driver.c	1.4.4	Following changes are made 1. As per mantis #27771, Spi_ReceiveISR API is updated to remove compilation warning. 2. As per mantis #27772, Spi_HwInit API is updated for 32 bit DMA settings.
Spi_Irq.c	1.2.8	No change
Spi_Ram.c	1.2.8	No change
Spi_Scheduler.c	1.2.12	No change
Spi_Version.c	1.0.6	No change
Spi.h	1.1.5	No change
Spi_Driver.h	1.2.9	No change
Spi_Irq.h	1.2.3	No change
Spi_LTypes.h	1.2.11	As per mantis #27772, definition for SPI_DMA_32BIT_RX_SETTINGS and SPI_DMA_32BIT_TX_SETTINGS are added.
Spi_PBTypes.h	1.2.11	No change
Spi_Ram.h	1.2.8	No change

Spi_Scheduler.h	1.2.4	No change
Spi_Types.h	1.2.7	No change
Spi_Version.h	1.0.6	No change
<b>Tool Executable</b>		
Spi_X1x.exe	1.2.12	No change
Spi_X1x.cfgxml	1.0.0	No change
<b>X1x Common Sample Application Source file</b>		
App_SPI_Common_Sample.c	1.0.7	As part of P1x V4.00.04 Release activity, 1. Removed all device specific macros. 2. Test Application is updated to make it common across all family
<b>X1x Common Sample Application header file</b>		
App_SPI_Common_Sample.h	1.0.5	As part of P1x V4.00.04 Release activity, 1. Removed all device specific macros. 2. Test Application is updated to make it common across all family
<b>P1x Sample Application P1M Source file</b>		
App_SPI_P1M_Sample.c	1.0.3	As part of P1x V4.00.04 development activity, following changes are made: 1. Corrected port settings and chip select settings for master for 701310 external loopback testing. 2. Updated slave register settings. 3. Updated Copyright information.
<b>P1x Sample Application P1M header file</b>		
App_SPI_Device_Sample.h	1.0.2	As part of P1x V4.00.04 development activity, following changes are made: 1. Modified for 701310 external loopback testing. 2. Updated slave register settings. 3. Updated Copyright information
<b>P1x User Manual</b>		
AUTOSAR_SPI_Component_User Manual.pdf	1.0.6	Following changes are made : 1. Updated Chapter 2 'Reference Documents' to correct the name and version of device manual. 2. Information regarding Interrupt vector table has been provided in section 4.1 'General'. 3. In Chapter 13, 'P1M Specific Information' P1M 4.0.3 supported devices are updated. 4. Table 13-1 PDF information updated for P1M 4.0.3 supported devices. 5. Section 13.1.1 has been updated to include the translation header file for all P1M 4.0.3 supporting devices.

		<p>6. Updated section 13.3.1 'Sample Application Structure' to add all the supported devices for P1M 4.0.3.</p> <p>7. Updated section 13.3.2 'Building the Sample Application' to add configuration details for the device 701310.</p> <p>8. Updated section 13.4 'Memory and Throughput' for the device R7F701310.</p> <p>9. Updated chapter 14 'Release Details' to correct the SPI driver version.</p> <p>10. Removed section 'Compiler, Linker and Assembler' from chapter 13.</p> <p>11. Added macros SPI_DMA_32BIT_TX_SETTINGS and SPI_DMA_32BIT_RX_SETTINGS in Chapter 6 'Registers Details'.</p>
AUTOSAR_SPI_Tool_UserManual.pdf	1.0.7	<p>Following changes are made:</p> <p>1. Updated section 2.1 'Reference Documents' to correct the name and version of Parameter Definition Files.</p> <p>2. Section 8.1 and Section 8.2 is modified for removing warning and adding error message (WRN083001 to ERR083122).</p>

### 14.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf



# 15 WDG

## 15.1 Target Info

<b>Processor</b>	P1M - R7F701310
<b>Module</b>	WDG
<b>Date</b>	08-June-2015

## 15.2 Release Items

Filename	Version	Change Description
<b>P1x - Parameter Definition files</b>		
R403_WDG_P1M_04_05_10_to_15_18_to_23.arxml	1.0.3	As part of P1x V4.00.04 development activity the following changes are made:  1. As per mantis #27411, file name changed to R403_WDG_P1M_04_05_10_to_15_18_to_23.arxml  2. Copyright information updated.  3. ADMIN-DATA updated.
<b>BSWMDT</b>		
R403_WDG_P1x_BSWMDT.arxml	1.0.3	No change
<b>Source Code</b>		
Wdg_59_DriverA.c	1.0.12	No change
Wdg_59_DriverA_Irq.c	1.0.8	No change
Wdg_59_DriverA_Private.c	1.0.5	No change
Wdg_59_DriverA_Ram.c	1.0.5	No change
Wdg_59_DriverA_Version.c	1.0.4	No change
Wdg_59_DriverA.h	1.0.6	No change
Wdg_59_DriverA_Debug.h	1.0.1	No change
Wdg_59_DriverA_Irq.h	1.0.5	No change
Wdg_59_DriverA_PBTypes.h	1.0.8	No change
Wdg_59_DriverA_Private.h	1.0.3	No change
Wdg_59_DriverA_Ram.h	1.0.5	No change
Wdg_59_DriverA_RegReadBack.h	1.0.0	No change
Wdg_59_DriverA_Types.h	1.0.4	No change
Wdg_59_DriverA_Version.h	1.0.5	No change
<b>Tool Executable</b>		
Wdg_X1x.exe	1.0.17	No change
Wdg_X1x.cfxml	1.0.0	No change
<b>X1x Common Sample Application Source file</b>		
App_WDG_Common_Sample.c	1.0.10	No change

<b>X1x Common Sample Application header file</b>		
App_WDG_Common_Sample.h	1.0.4	No change
<b>P1x Sample Application P1M Source file</b>		
App_WDG_P1M_Sample.c	1.0.3	No change
<b>P1x Sample Application P1M header file</b>		
App_WDG_Device_Sample.h	1.0.2	No change
<b>P1x User Manual</b>		
AUTOSAR_WDG_Component_UserManual.pdf	1.0.4	Following changes are made: <ol style="list-style-type: none"> <li>1. Updated Chapter 4.1 to add notes.</li> <li>2. Updated Chapter 13 to add new device support.</li> <li>3. Removed sections for Compiler, Linker and Assembler.</li> <li>4. Updated Chapter 13.3 with memory and throughput details.</li> <li>5. Updated copyright information.</li> </ol>
AUTOSAR_WDG_Tool_UserManual.pdf	1.0.2	Following changes are made: <ol style="list-style-type: none"> <li>1. Updated Chapter 2 to add PDF reference.</li> <li>2. Updated copyright information.</li> </ol>

### 15.3 Known Issues

ID	Description
1.	Please refer KnownIssues_P1x_R403_2015_CW23.pdf