Release Notes for RENESAS RH850/P1x:

RENESAS_SW-AUTOSAR-P1x: MCAL Ver4.02.01.D

MP Quality

1.1 Purpose:

To deliver AUTOSAR R4.0.3 MCAL software for P1x Ver4.02.01.D release using the following inputs.

Device Manual: r01uh0436ej0130-rh850p1x.pdf

Device File: DF-RH850P1M-EE_V120.zip

Operating Precautions: R01TU0069ED0300_RH850.pdf

Modules supported: DIO, FLS, MCU, PORT, SPI and WDG.

Note: In case of integration of this product into safety related applications please contact Renesas for additional safety related work products.

1.2   Package information

Product	RH850/P1x
Variant	P1M
Product Release Version	Ver4.02.01.D
AUTOSAR Specification Version	4.0.3
Device tested on	P1M - R7F701318
	P1M - R7F701310
Devices supported	RH850/P1M
	R7F701310
	R7F701311
	R7F701314
	R7F701315
	R7F701318
	R7F701319
	R7F701322
	R7F701323
Release Date	24-Feb-2017

Additional to the above list, the following derivatives (with ICU-S units) are also supported:

ICU-S Devices supported	R7F701362
	R7F701363
	R7F701366
	R7F701367

As there was no impact on MCAL identified due to the ICU-S unit, Renesas recommends to use the below equivalent devices part number without ICU-S unit, during MCAL configuration, instead of the actual device part number with ICU-S unit:

Device (with ICU-S Support)	Equivalent device(w/o ICU-S support)
R7F701362	R7F701318
R7F701363	R7F701319
R7F701366	R7F701322
R7F701367	R7F701323

1.3 Tools

1.3.1 GHS

Tool	Version	Options
GreenHills Multi IDE – compiler	Green Hills Multi V6.1.6 Compiler Version 2015.1.7	-c -Osize -g -cpu=rh850g3m -gsize -prepare_dispose -inline_prologue -sda=all -Wundef -no_callt -reserve_r2 --short_enum --prototype_errors --diag_error 193 -dual_debug -large_sda --no_commons -shorten_loads -shorten_moves -Wshadow -nofloatio -ignore_callt_state_in_interrupts -delete

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

Processor	P1M - R7F701318
Module	Generic
Module Overview User Manual	R20UT3752EJ0101-AUTOSAR.pdf – V1.0.10
Getting Started for P1x MCAL User Manual	R20UT3753EJ0101-AUTOSAR.pdf – V1.0.8
Date	24-Feb-2017

1.4.2 Release Items

Filename	Version	Change Description
Generator Files		
P1x_translation.h	1.0.8	Following changes are made in Ver4.02.01.D: 1. Updated supported devices list in 'Environment'. 2. Updated copyright information.
Common Files		
ComStack_Types.h	1.0.1	No changes for release Ver4.02.01.D
Std_Types.h	1.0.1	No changes for release Ver4.02.01.D

rh850_Types.h	1.0.4	No changes for release Ver4.02.01.D
Platform_Types.h	1.0.1	No changes for release Ver4.02.01.D
Compiler Files		
Compiler.h	1.0.5	No changes for release Ver4.02.01.D
Compiler_Cfg.h	1.0.5	No changes for release Ver4.02.01.D
MemMap.h	1.0.10	Following changes are made in Ver4.02.01.D:- 1. Copyright information is updated. 2. Memory section FLS_START_SEC_PRIVATERAM_CODE and FLS_STOP_SEC_PRIVATERAM_CODE added for FLS module.
Os.h	1.0.1	No changes for release Ver4.02.01.D
Os.c	1.0.2	No changes for release Ver4.02.01.D
RUCG Tool		
RUCG.exe	1.1	No changes for release Ver4.02.01.D

Getting Started for P1x MCAL User Manual		
R20UT3753EJ0101-AUTOSAR.pdf	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Added R-number. 2. Updated Notice and copyright information.
Module Overview User Manual		
R20UT3752EJ0101-AUTOSAR.pdf	1.0.10	Following changes are made in Ver4.02.01.D:- 1. New section 3.4 added for Deviation List. 2. Updated section 3.2 'RH850 Macros Definition' for adding explanation regarding usage and modification of macros. 3. Updated R-Number. 4. Updated notice and copyright information. 5. Removed 3.2.2 related information from Chapter 2 'Reference Documents' and 'Definitions'. 6. Corrected page numbers
RUCG Tool User Manual		
R20UT3754EJ0101-AUTOSAR.pdf	1.1.3	Following change is made in Ver4.02.01.D:- 1. Updated notice and copyright information. 2. Updated R Number.

1.4.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

1.4.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

1.5 Module Index

DIO

FLS

MCU

PORT

SPI

WDG

2 DIO

2.1 Target Info

Processor	P1M - R7F701318
Module	DIO
Software Version	1.0.12
Embedded User Manual	R20UT3708EJ0101-AUTOSAR.pdf – V1.0.10
Tool User Manual	R20UT3709EJ0101-AUTOSAR.pdf – V1.0.6
Date	24-Feb-2017

2.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_DIO_P1M_04_05_12_13_20_21.arxml	1.0.6	Following changes are made in Ver4.02.01.D:- 1. For Requirement TPS_ECUC_06004, ADMIN-DATA section is updated. 2. Updated Copyright information.
R403_DIO_P1M_10_11_14_15_18_19_22_23.arxml	1.0.7	Following changes are made in Ver4.02.01.D:- 1. For Requirement TPS_ECUC_06004, ADMIN-DATA section is updated. 2. Updated Copyright information.
BSWMDT		
R403_DIO_P1x_BSWMDT.arxml	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Corrected Service ID of API Dio_Init to decimal value. 2. Copyright information is updated. 3. Software patch version is updated.
Source Code		
Dio.c	1.0.24	Following changes are made in Ver4.02.01.D:- 1. Removed unnecessary Requirement tag 'EAAR_PN0034_FR_0017' and corrected requirement 'DIO140' in Dio_WritePort. 2. Copyright information is updated. 3. Added inclusion of "Dio_RegWrite.h".
Dio_Ram.c	1.0.9	No changes for release Ver4.02.01.D
Dio_Version.c	1.0.7	No changes for release Ver4.02.01.D
Dio.h	1.0.14	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Inclusion of "Dio_RegWrite.h" is removed and numeric

		values are appended with 'U' for macro definitions.
		3. Copyright information is updated.
Dio_Debug.h	1.0.5	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Copyright information is updated.
Dio_PBTypes.h	1.0.15	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Numeric values are appended with 'U' for macro definitions. 3. Copyright information is updated.
Dio_Ram.h	1.0.13	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Copyright information is updated
Dio_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Copyright information 'Copyright(c) 2017' corrected to 'Copyright(c) 2016-2017'. 3. Removed macro 'DIO_DEM_TYPE'
Dio_Version.h	1.0.10	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to 'DIO_H_00x :'. 2. Included "Dem.h" file. 3. Copyright information is updated.
DLL executable code for DIO configuration generation		
Dio_X1x.dll	1.0.19	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Dio_X1x.cfgxml	1.0.2	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances 2. Copyright information updated
P1x Sample Application P1M Source file		
App_DIO_P1M_Sample.c	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Sample application is updated as per requirement EAAR_PN0061_NR_0006. 2. Copyright Information updated. 3. Updated Sample application for checking all ports, channels and channel groups.
P1x Sample Application P1M Header file		
App_DIO_P1M_Sample.h	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Sample application is updated as per requirement

		EAAR_PN0061_NR_0006.
		2. Copyright Information updated.
		3. Updated Sample application for checking all ports, channels and channel groups.
P1x User Manual		
R20UT3708EJ0101-AUTOSAR.pdf	1.0.10	Following changes are made in Ver4.02.01.D:- 1. Section 10.3 Function Definitions updated. 2. Updated Chapter 11 Development and Production Errors. 3. Abbreviations and Acronyms updated. 4. Chapter 2 'Reference section' updated. 5. R Number updated. 6. Updated Driver Version Details in Chapter 14 'Release Details'. 7. Updated section 13.3 'Memory and Throughput'. 8. Updated chapter 4 'Forethoughts'. 9. Updated notice and copyright information. 10. Modified Figure 5-2 in chapter 5.
R20UT3709EJ0101-AUTOSAR.pdf	1.0.6	Following changes are made in Ver4.02.01.D:- 1. R Number updated. 2. Updated notice and copyright information 3. Updated Abbreviations and Acronyms 4. Page numbers corrected. 5. Updated chapter 2 References.

2.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

2.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

3 FLS

3.1 Target Info

Processor	P1M - R7F701318
	P1M - R7F701310
Module	FLS
Software Version	V1.0.4
Embedded User Manual	R20UT3710EJ0101-AUTOSAR.pdf – V1.0.4
Tool User Manual	R20UT3711EJ0101-AUTOSAR.pdf – V1.0.8
Date	24-Feb-2017

3.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_FLS_P1M_04_05_10_to_15.arxml	1.1.6	Following changes are made in Ver4.02.01.D:- 1. For Requirement TPS_ECUC_06004, ADMIN-DATA section is updated. 2. Updated Copyright information.
R403_FLS_P1M_18_to_23.arxml	1.0.6	Following changes are made in Ver4.02.01.D:- 1. For Requirement TPS_ECUC_06004, ADMIN-DATA section is updated. 2. Updated Copyright information.
BSWMDT		
R403_FLS_P1x_BSWMDT.arxml	1.0.9	Following changes are made in Ver4.02.01.D:- 1. Updated software patch version. 2. Updated Copyright information. 3. The tag IMPLEMENTED-ENTRY-REF is moved after MINIMUM-START-INTERVAL tag in scheduled function Fls_Mainfunction.Also multiple EXCLUSIVE-AREAS tags are removed from inside BSW-INTERNAL-BEHAVIOR section. 4. Decimal values are given to the Service ID's of the API's Fls_ReadImmediate,Fls_BlankCheck,Fls_Suspend, Fls_Resume and Fls_GetVersionInfo.
Source Code		
Fls.c	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Elements of structure "Fls_GstVarProperties" are renamed. 2. Copyright information is updated. 3. Call of Fls_TimeOutCheckAndProcessing() is moved into

		the command switch case for erase, write and blank check. 4. Removed unnecessary mapping of requirements AR_PN0040_FR_0017 and EAAR_PN0034_FR_0017. 5. Message tag for Msg(4:0857) added in AUTOSAR release version information and Fls_Init API.
Fls_Irq.c	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Elements of structure "Fls_GstVarProperties" are renamed. 2. Copyright information is updated. 3. Justification for Misra warning 4:0857 is added.
Fls_Internal.c	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Copyright information is updated. 2. Elements of structure "Fls_GstVarProperties" are renamed. 3. Message tag for Msg (4:0857) added in Fls_InitiateWriteJob API. 4. Fls_ProcessCancel, Fls_TimeOutCheckAndProcessing, Fls_ProcessRead and Fls_ProcessJobResult APIs are improved to report FLS_FCU_ERR_INTERNAL in case of malfunctioning of Fls_FcuSwitchMode API. 5. Global variable Fls_GblTimeOutMonitor is cleared in functions Fls_ProcessJobResult,Fls_ProcessSuspend and Fls_CancelInternal APIs. Also Fls_TimeOutCheckAndProcessing is modified regarding DET report in case of timeout error. 6. Message tag for Msg (4:0857) added in AUTOSAR release version information and Fls_PreFcuInitCheck API.
Fls_Private_Fcu.c	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Fls_FcuSwitchMode API is updated for Write-Verify implementation of FENTRYR register. 2. Copyright information is updated. 3. Fls_FcuSwitchMode is improved to handle mode switch to USER and mode switch to P/E separately and Fls_FcuCheckSequencerStatus is added to check FENTRYR register to identify command lock state. 4. Fls_FcuForcedStop is updated to check for CMDLK bit. 5. Fls_FcuCopytoRam Fls_FcuSwitchBFlash,Fls_FcuClearCache and Fls_FcuGetFWParam APIs are moved to new memory section FLS_START_SEC_PRIVATERAM_CODE. 6. Elements of structure "Fls_GstVarProperties" are renamed. 7. Message tags for Msg (4:0303) added in

		Fls_FcuSwitchBFlash API and Msg (4:1290) in Fls_FcuSwitchMode API. Justification for Msg(4:0857) added and message tags added for Fls_FcuPrepareEnvironment and Fls_FcuForcedStop APIs. 8. Removed unnecessary mapping of requirement AR_PN0072_FR_0017. 9. Fls_FcuClearStatus API is updated to remove error bit checking. 10. Added unit design ID in the API Fls_FcuCheckSequencerStatus. 11. Fls_FcuForcedStop API is updated to check for FRDY bit using FLS_FCU_FRDY_POOL_COUNT value. 12. UT ID Tag FLS_UT_002 added for the uncovered parts of the code during Unit Testing.
Fls_Ram.c	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Fls_GbIntrRqstFlag changed to Fls_GblIntrRqstFlag. 2. Copyright information is updated. 3. Comments added to justify usage of Global variables.
Fls_Version.c	1.0.1	No changes for release Ver4.02.01.D
Fls.h	1.0.3	No changes for release Ver4.02.01.D
Fls_Debug.h	1.0.1	No changes for release Ver4.02.01.D
Fls_Internal.h	1.0.2	No changes for release Ver4.02.01.D
Fls_Private_Fcu.h	1.0.3	Following changes are made in Ver4.02.01.D:- 1. Added Fls_FcuCheckSequencerStatus API declaration. 2. Copyright information is updated. 3. Fls_FcuCopytoRam Fls_FcuSwitchBFlash,Fls_FcuClearCache and Fls_FcuGetFWParam APIs are moved to new memory section FLS_START_SEC_PRIVATERAM_CODE.
Fls_Irq.h	1.0.2	Following changes are made in Ver4.02.01.D:- 1. Switch FLS_INTERRUPT_MODE is added for declaration of Interrupt FLS_FLENDNM_ISR. 2. Copyright information is updated.
Fls_PBTypes.h	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Added FLS_FCU_FRDY_POOL_COUNT macro. 2. Copyright information is updated. 3. Updated memclass of Fls_GulTempBuffer.Fls_GblSuspendStatus is removed as there is no usage.

		4. Value of the macro FLS_FCU_REGBIT_FASTAT_CMDLK is typecasted to uint8
Fls_Ram.h	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Fls_GbIntrRqstFlag changed to Fls_GblIntrRqstFlag. 2. Copyright information is updated. 3. Comments added to justify usage of Global variables.
Fls_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. Copyright information is updated. 2. Macro banner for FLS_REG_WRITE_VERIFY_INIT is updated.
Fls_Types.h	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Elements of structure "Fls_GstVarProperties" are renamed. 2. Copyright information is updated.
Fls_Version.h	1.0.1	No changes for release Ver4.02.01.D
DLL executable code for FLS configuration generation		
Fls_X1x.dll	1.3.11	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Fls_X1x.cfgxml	1.0.1	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances. 2. Copyright information is updated.
X1x Common Sample Application Source file		
App_FLS_Common_Sample.c	1.1.14	Following changes are made in Ver4.02.01.D:- 1. Ghs section FLS_SAMPLE_CODE_RAM changed to FLS_SAMPLE_CODE_ROM 2. Copyright information is updated. 3. Test script is updated for Delay function
X1x Common Sample Application header file		
App_FLS_Common_Sample.h	1.0.3	Following changes are made in Ver4.02.01.D:- 1. Copyright information is updated. 2. Macro FLS_TEN is added to optimize testing
P1x Sample Application P1M Source file		
App_FLS_P1M_Sample.c	1.0.1	No changes for release Ver4.02.01.D
P1x Sample Application P1M header file		
App_FLS_P1M_Sample.h	1.0.2	No changes for release Ver4.02.01.D
P1x User Manual		
R20UT3710EJ0101-AUTOSAR.pdf	1.0.4	Following changes are made in Ver4.02.01.D:- 1. Updated Table for Abbreviations and Acronyms to remove

		unused Abbreviations/ Acronyms.
		2. Updated Chapter 2 Reference Documents.
		3. 3. Updated section 4.1 'General' to add information about Read, Read Immediate, Suspend and Resume operations.
		4. Updated section 4.2 'Preconditions' to add information about BlankCheck operation.
		5. Updated Chapter 3 and Chapter 9 to rename the FLS Driver Generation Tool reference document.
		6. Updated Section 13.3.1 with ROM/RAM usage values.
		7. Updated Section 13.3.3 'Throughput Details' to add Note under Table 13-6 Throughput Details of the APIs and updated the Throughput details.
		8. Updated section 12 'Memory Organization' to remove unused memory segments and their descriptions.
		9. Updated Chapter 14 for FLS Driver Software version.
		10. Updated notice, address and copyright information's.
		11. Version of R-number is updated at the end of document.
		12. Updated Section 7.1 to add Cautions.
		13. Updated Section 10.3 with the details of Fls_Resume API.
R20UT3711EJ0101-AUTOSAR.pdf	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Abbreviation and Acronyms list is updated. 2. Updated Section 2.1 for Document versions. 3. Table headers are updated in section 8.1 to specify correct ERR Ids. 4. Updated R Number. 5. Updated notice, address and copyright information's. 6. Error message ERR092033 is added in section 8.1.

3.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

3.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

4 MCU

4.1 Target Info

Processor	P1M - R7F701318
Module	MCU
Software Version	V1.0.8
Embedded User Manual	R20UT3720EJ0101-AUTOSAR.pdf– V1.0.9
Tool User Manual	R20UT3721EJ0101-AUTOSAR.pdf– V1.0.8
Date	24-Feb-2017

4.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_MCU_P1M_04_05.arxml	1.1.9	Following change is made in Ver4.02.01.D:- 1. Description of McuLoopCount is updated
R403_MCU_P1M_10_to_15_18_to_23.arxml	1.0.6	Following change is made in Ver4.02.01.D:- 1. Description of McuLoopCount is updated
BSWMDT		
R403_MCU_P1x_BSWMDT.arxml	1.0.10	Following changes are made in Ver4.02.01.D:- 1. Software Version is updated. 2. Fixed all AMDC rule violations.
Source Code		
Mcu.c	1.0.10	Following changes are made in Ver4.02.01.D:- 1. Updated Mcu_Init for initialisation of Global variables. 2. Removed multiple declarations in same line from Mcu_HWInit. 3. Removed justification for MISRA Msg(4:0857) and Msg(4:3218) and updated Mcu_StartUPTest for fixing MISRA warnings. 4. Modified naming of local variable in function Mcu_GetResetRawValue. 5. Declaration of local variables are changed for using macros. 6. Updated macros MCU_PROTECTEDWRITE and MCU_PROTECTEDWRITERETNONE as per naming convention. 7. Values move to LHS during comparison and proper spacing provided as per coding guidelines.
Mcu_Irq.c	1.0.10	Following changes are made in Ver4.02.01.D:-

		1. Declaration of local variables are changed for using macros. 2. Updated macros MCU_PROTECTEDWRITE and MCU_PROTECTEDWRITERETNONE as per naming convention.
Mcu_Ram.c	1.0.6	No changes for release Ver4.02.01.D
Mcu_Version.c	1.0.4	No changes for release Ver4.02.01.D
Mcu.h	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x. 2. Corrected macros MCU_PROTECTEDWRITE and MCU_PROTECTEDWRITERETNONE as per naming convention.
Mcu_Debug.h	1.0.4	Following change is made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x.
Mcu_Irq.h	1.0.4	Following change is made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x.
Mcu_PBTypes.h	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x. 2. Removed macros MCU_CLMA0_DELAY_CNT, MCU_CLMA1_DELAY_CNT, MCU_CLMA2_DELAY_CNT and MCU_CLMA3_DELAY_CNT as these are not used.
Mcu_Ram.h	1.0.7	Following change is made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x.
Mcu_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. Added justification for MISRA Msg(4:0857). 2. Added subfix for macros.
Mcu_Types.h	1.0.8	Following change is made in Ver4.02.01.D:- 1. Rrequirement tag 'implements' changed to MCU_H_00x.
Mcu_Version.h	1.0.3	Following change is made in Ver4.02.01.D:- 1. Requirement tag 'implements' changed to MCU_H_00x.
DLL executable code for MCU configuration generation		
Mcu_P1x.dll	1.1.5	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Mcu_P1x.cfgxml	1.0.1	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances. 2. Copyright information updated.

P1x Sample Application P1M Source file		
App_MCU_P1M_Sample.c	1.0.6	Following change is made in Ver4.02.01.D:- 1. Corrected macros MCU_PROTECTEDWRITE as per naming convention.
P1x Sample Application P1M Header file		
App_MCU_P1M_Sample.h	1.0.3	No changes for release Ver4.02.01.D
P1x User Manual		
R20UT3720EJ0101-AUTOSAR.pdf	1.0.9	Following changes are made in Ver4.02.01.D:- 1. Abbreviations and Acronyms updated. 2. Chapter 14, Release Details updated. 3. Updated R number, Notice and Copyright information. 4. Section 13.3 Memory and Throughput Details updated.
R20UT3721EJ0101-AUTOSAR.pdf	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Updated Abbreviations and Acronyms. 2. Updated Error ERR101044. 3. Updated R number. 4. Updated Notice and Copyright information.

4.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

4.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

5 PORT

5.1 Target Info

Processor	P1M - R7F701318
Module	PORT
Software Version	V1.5.4
Embedded User Manual	R20UT3722EJ0101-AUTOSAR.pdf – V1.0.9
Tool User Manual	R20UT3723EJ0101-AUTOSAR.pdf – V1.0.9
Date	24-Feb-2017

5.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_PORT_P1M_04_05.arxml	1.0.5	Following changes are made in Ver4.02.01.D: 1. Parameter PortPinLevelValue is removed from PortGroupJtag0:Pin2 and PortPinLevelValue, PortPullUpOption,PortPullDownOption, PortInputBufferControl,PortBiDirectionControl are removed from PortGroupJtag0:Pin4 2. Copyright information is updated 3. ADMIN-DATA section updated as per the requirement TPS_ECUC_06004
R403_PORT_P1M_12_13.arxml	1.0.6	Following changes are made in Ver4.02.01.D: 1. Parameter PortPinLevelValue is removed and PortInputBufferControl, PortPullUpOption, PortPullDownOption are added in PortGroupJtag0:Pin2 and PortPinLevelValue, PortPullUpOption, PortPullDownOption, PortInputBufferControl,PortBiDirectionControl are removed from PortGroupJtag0:Pin4. 2. Copyright information is updated 3. ADMIN-DATA section updated as per the requirement TPS_ECUC_06004
R403_PORT_P1M_18_19_22_23.arxml	1.0.5	Following changes are made in Ver4.02.01.D:- 1. Literal of the parameter PortPinInitialMode is corrected for PortGroup5:Pin7 2. Parameter PortPullUpOption is added to Portgroup3:Pin5 3. Parameters PortPinLevelValue, PortPullUpOption,

		PortPullDownOption, PortInputBufferControl, PortBiDirectionControl are removed fromPortGroupJtag0:Pin4 and PortPinLevelValue is removed from PortGroupJtag0:Pin2. 4. Corrected the Range of the parameter PortNumberOfPortPins 5. Copyright information is updated 6. ADMIN-DATA section updated as per the requirement TPS_ECUC_06004
R403_PORT_P1M_20_21.arxml	1.0.5	Following changes are made in Ver4.02.01.D:- 1. Parameters PortPinLevelValue, PortPullUpOption, PortPullDownOption, PortInputBufferControl, PortBiDirectionControl are removed from, PortGroupJtag0:Pin4 and PortPinLevelValue is removed from PortGroupJtag0:Pin2. 2. Copyright information is updated 3. ADMIN-DATA section updated as per the requirement TPS_ECUC_06004
R403_PORT_P1M_10_11_14_15.arxml	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Parameter PortPullUpOption is added to PortGroup2:Pin15 and Portgroup3:Pin5. 2. Parameters PortPinLevelValue, PortPullUpOption, PortPullDownOption, PortInputBufferControl, PortBiDirectionControl are removed from PortGroupJtag0:Pin4 and the parameters PortPullUpOption,PortPullDownOption are added in PortGroupJtag0:Pin2. 3. Corrected the Range of the parameter PortNumberOfPortPins 4. Copyright information is updated 5. ADMIN-DATA section updated as per the requirement TPS_ECUC_06004
BSWMDT		
R403_PORT_P1x_BSWMDT.arxml	1.0.7	Following changes are made in Ver4.02.01.D: 1. SW-VERSION is updated 2. Copyright information is updated.
Source Code		
Port.c	1.5.13	Following changes are made in Ver4.02.01.D:- 1. Write verify check on PSR register is updated in the

		function Port_PinModeHWRegSet.
		2. Missing UD IDs are added
		3. Macro Port_ProtectedWrite is changed to upper case
		4. Typecasting to PORT_DEM_TYPE is removed in the Dem_ReportErrorStatus call
		5. Port_SetToDioOrAltMode() is updated
		6. Multiplication operator is replaced with AND in the functions Port_DriveUnivCtrlRegInit Port_SetPinDirection and Port_OpenDrainCtrlRegInit
		7. Unwanted MISRA violations (4:2962) and (4:1891) are removed.
Port_Ram.c	1.0.5	No changes for release Ver4.02.01.D
Port_Version.c	1.0.5	No changes for release Ver4.02.01.D
Port.h	1.5.7	Following changes are made in Ver4.02.01.D:- 1. Updated the format of requirement tags 2. Macro Port_ProtectedWrite is changed to upper case and added suffix "U" to all macros 3. Variable Port_GstConfiguration is made dimensional to remove the QAC warning Msg (4:3684)
Port_Debug.h	1.0.3	Following change is made in Ver4.02.01.D:- 1. Updated the format of requirement tags.
Port_PBTypes.h	1.4.10	Following changes are made in Ver4.02.01.D:- 1. Updated the format of requirement tags 2. Macro PORT_DEM_TYPE is removed. Added suffix "U" to all the macros. Global arrays are made dimensional. Structure name is updated in the union Port_Pin_DioOrAltMode to make it unique. Macro PORT_LONG_WORD_ZERO is added. Tag name is added for the structure inside the union Port_Pin_DioOrAltMode and Port_Pin_Direction
Port_Ram.h	1.0.4	Following change is made in Ver4.02.01.D:- 1. Updated the format of requirement tags.
Port_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. Updated the format of requirement tags 2. PORT_DEM_TYPE is removed from the macro PORT_WV_REPORT_ERROR and added suffix "U" to write verify macros
Port_Types.h	1.3.4	Following change is made in Ver4.02.01.D:- 1. Updated the format of requirement tags.

Port_Version.h	1.0.7	Following change is made in Ver4.02.01.D:- 1. Updated the format of requirement tags.
DLL executable code for PORT configuration generation		
Port_X1x.dll	1.3.15	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Port_X1x.cfgxml	1.0.1	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances. 2. Copyright information updated
P1x Sample Application P1M Source file		
App_PORT_P1M_Sample.c	1.0.7	Following changes are made in Ver4.02.01.D:- 1. WriteVerifyErrorNotify function added. 2. Copyright information updated
P1x Sample Application P1M Header file		
App_PORT_P1M_Sample.h	1.0.1	No changes for release Ver4.02.01.D
P1x User Manual		
R20UT3722EJ0101-AUTOSAR.pdf	1.0.9	Following changes are made in Ver4.02.01.D:- 1. Section 4.1.General is updated with the information on pin level of output pin. 2. Deviation regarding the parameter PortPinlevelValue of JTag PortPin is removed from the section 4.5.Deviation List 3. Abbreviation list is updated. 4. Section 10.3 Function Definitions is updated 5. Chapter 2 Reference documents is updated for device manual name and version change. 6. Chapter 14 Release Details is updated with Port Driver Software version. 7. Version of R-number is updated at the end of document 8. Notice is updated 9. Section 4.1.General is updated with the information on default value of PortLoopTimeout 10. Section 13.2.2.2 is updated with 701318 device information 11. Chapter 3 and 9 are updated with R-Numbered Tool User manual name. 12. Chapter 13.3. Memory and Throughput is updated 13. Known limitation added for user mode in the section 4.3 14. Macros PORT_MODE_DIO" and "PORT_MODE_ADJUST" added in Section 10.2.4. 15. Information on Port_SetPinDefaultDirection and

		Port_SetPinDefaultMode added in Chapter 5.
R20UT3723EJ0101-AUTOSAR.pdf	1.0.9	Following changes are made in Ver4.02.01.D:- 1. Abbreviation list is updated. 2. R number is updated at end of the document 3. Notice is updated 4. Version of Parameter definition files updated in the section 2.1.Reference Documents

5.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

5.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

6 SPI

6.1 Target Info

Processor	P1M - R7F701318
Module	SPI
Software Version	V1.6.5
Embedded User Manual	R20UT3726EJ0101-AUTOSAR.pdf – V1.0.11
Tool User Manual	R20UT3727EJ0101-AUTOSAR.pdf – V1.0.12
Date	24-Feb-2017

6.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_SPI_P1M_04_05_12_13_20_21.arxml	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Default value, MIN value and description of SpiTimeOut is updated. 2. Copyright information is updated 3. Spelling corrected in the description of SPI_E_ECC_SELFTEST_FAILURE updated.
R403_SPI_P1M_10_11_14_15_18_19_22_23.arxml	1.0.8	Following changes are made in Ver4.02.01.D:- 4. Default value, MIN value and description of SpiTimeOut is updated. 5. Copyright information is updated 6. Spelling corrected in the description of SPI_E_ECC_SELFTEST_FAILURE updated.
BSWMDT		
R403_SPI_P1x_BSWMDT.arxml	1.0.11	Following changes are made in Ver4.02.01.D:- 1. Copyright information is updated. 2. Order of IS-REENTRANT is corrected in BSW-MODULE-ENTRY 3. Spi_GetErrorInfo is mentioned in BSW-CALLED-ENTITY. 4. Software version information is updated.
Source Code		
Spi.c	1.5.11	Following changes are made in Ver4.02.01.D:- 1. QAC warning justification added at relevant places. 2. A new check is added in Spi_AsyncTransmit() to ensure the array element accessed from Spi_GaaSeqQueue[] is within the defined array size. 3. Constants are moved to left hand side for condition checks at

		all applicable places 4. 'U' is appended for MACRO definitions wherever applicable. 5. Declaration and initialization of LucNoOfErrorsCopied is separated in Spi_GetErrorInfo API. 6. Removed unwanted requirement mapping comments 7. Copyright information is updated.
Spi_Irq.c	1.2.12	Following changes are made in Ver4.02.01.D:- 1. QAC warning Msg(2:2814), Msg(2:3892) and MISRA Violation Msg(4:0303), Msg(4:0489),Msg(4:0488) are added at the respective places. 2. Copyright information is updated
Spi_Driver.c	1.4.9	Following changes are made in Ver4.02.01.D:- 1. Added condition check in the Spi_HWInit and Spi_HWDeInit to clear TIJC interrupts. 2. Spi_HWTransmitSyncJob() and Spi_InitiateSycTransmit() are updated to set the variable 'Spi_GblSyncTx' properly. 3. Spi_HWTransmitSyncJob() is updated by removing the setting of 'Spi_GblSyncTx'. 4. Spi_HWWriteIB() is updated to write CSIHMCTL0 in all possible combination of Tx-mode and dual buffer mode. 5. MISRA C RULE VIOLATION Msg(4:0303),Msg(4:0400) and QAC Warning Msg(2:3416), Msg(0:2755) are added at the relevant places. 6. Spi_ReceiveISR() is updated by removing the redundant code for 32 bit transmission in Tx-only mode. 7. Spi_ProcessSequence function call in Spi_ComErrorISRis removed. 8. In Spi_ProcessTransmission function, critical section is modified. 9. In Spi_ProcessTransmission function, LblInitiateTx is assigned with SPI_TRUE based on the comparison of queue status 10. Copyright information is updated. 11. Re-initialization of the "Spi_GpDmaUnitConfig" variable in Spi_HWDeInit() is removed. 12. Constants are moved to left hand side for condition checks at all applicable places. 13. Naming convention corrected from LucIndex to LusIndex 14. Job and sequence failed condition check is added in Spi_ProcessDualBufferData() for dual buffer mode..

Spi_Ram.c	1.2.11	No changes for release Ver4.02.01.D
Spi_Scheduler.c	1.2.16	Following changes are made in Ver4.02.01.D:- 1. Copy right information is updated. 2. QAC warning Msg(2:3416), MISRA Violation Msg(4:0400) are added at the respective places. 3. Spi_GblQueueStatus is updated as SPI_QUEUE_FILLED in Spi_PushRemainingJobsToQueue() and Spi_PushInterruptableSeqJobs () when jobs are queued.Also Spi_GusAllQueueSts is updated in Spi_PushRemainingJobsToQueue() and Spi_PushInterruptableSeqJobs(). 4. Constants are moved to left hand side for condition checks at all applicable places.
Spi_Version.c	1.0.7	No changes for release Ver4.02.01.D
Spi.h	1.1.9	Following changes are made in Ver4.02.01.D:- 1. 'U' is appended for MACRO definitions wherever applicable. 2. Copyright information is updated
Spi_Driver.h	1.2.12	No changes for release Ver4.02.01.D
Spi_Irq.h	1.2.6	Following changes are made in Ver4.02.01.D:- 1. Hexadecimal constants are updated with upper case. 2. Copyright information is updated.
Spi_LTTypes.h	1.2.15	Following changes are made in Ver4.02.01.D:- 1. Structure tag is added for Tst_DmaAddr and Tst_ByteAccess. 2. 'U' is appended for MACRO definitions wherever applicable. 3. Naming convention corrected from usReserved1 to ulReserved1 4. Copyright information is updated.
Spi_PBTypes.h	1.2.14	No changes for release Ver4.02.01.D
Spi_Ram.h	1.2.12	Following changes are made in Ver4.02.01.D:- 1. QAC warning, 4:0857 is justified. 2. Copyright information is updated
Spi_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. SPI_DEM_TYPE is removed. 2. 'U' is appended for MACRO definitions wherever applicable. 3. Copyright information is updated.
Spi_Scheduler.h	1.2.6	No changes for release Ver4.02.01.D
Spi_Types.h	1.2.11	Following changes are made in Ver4.02.01.D:- 1. 'U' is appended at relevant places.

		2. Copyright information updated.
Spi_Version.h	1.0.7	No changes for release Ver4.02.01.D
DLL executable code for ICU configuration generation		
Spi_X1x.dll	1.2.17	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Spi_X1x.cfgxml	1.0.1	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances. 2. Copyright information updated
X1x Common Sample Application Source file		
App_SPI_Common_Sample.c	1.0.8	No changes for release Ver4.02.01.D
X1x Common Sample Application header file		
App_SPI_Common_Sample.h	1.0.5	No changes for release Ver4.02.01.D
P1x Sample Application P1M Source file		
App_SPI_P1M_Sample.c	1.0.4	No changes for release Ver4.02.01.D
P1x Sample Application P1M header file		
App_SPI_P1M_Sample.h	1.0.3	No changes for release Ver4.02.01.D
P1x User Manual		
R20UT3726EJ0101-AUTOSAR.pdf	1.0.11	Following changes are made in Ver4.02.01.D:- 1. Section 11.2 is updated and 11.3 is added with the hardware errors description details 2. Section 10.3 is updated with the detailed description of the functions 3. Section 3.1.1 is updated with the deletion of the redundant mentioned Driver.h file name 4. Throughput details, RAM/ROM Usage and stack depth values are updated in the section 13.3 5. Section 4.1 is updated with the SpiTimeOut configuring details. 6. The unused segment SPI_CFG_DBTOC_UNSPECIFIED details are removed from the chapter 12. 7. Abbreviations and Acronyms section is updated 8. Chapter 14 is updated with the release details. 9. R-number is updated 10. Notice and Company addresses are updated 11. Copyright information is updated
R20UT3727EJ0101-AUTOSAR.pdf	1.0.12	Following changes are made in Ver4.02.01.D:- 1. Updated Pdf versions in section 2.1 'Reference Documents' 2. Error messages ERR083005, ERR083018 and ERR083037

		are rephrased in the section 8.1
		3. Error Message, ERR083095 is added in the section 8.1
		4. R-number is updated.
		5. Notice and Company addresses are updated
		6. Copyright information is updated.

6.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

6.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.

7 WDG

7.1 Target Info

Processor	P1M - R7F701318
Module	WDG
Software Version	V1.0.12
Embedded User Manual	R20UT3728EJ0101-AUTOSAR.pdf – V1.0.8
Tool User Manual	R20UT3729EJ0101-AUTOSAR.pdf – V1.0.6
Date	24-Feb-2017

7.2 Release Items

Filename	Version	Change Description
P1x- Parameter Definition files		
R403_WDG_P1M_04_05_10_to_15_18_to_23.arxml	1.0.5	Following changes are made in Ver4.02.01.D:- 1. For Requirement TPS_ECUC_06004, ADMIN-DATA section is updated. 2. Updated Copyright information.
BSWMDT		
R403_WDG_P1x_BSWMDT.arxml	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Software patch version is updated 2. Copyright information is updated 3. The placement of Service Id's are corrected for Autosar API's.
Source Code		
Wdg_59_DriverA.c	1.0.15	Following changes are made in Ver4.02.01.D:- 1. Tag Message Msg(2:3416) in Wdg_59_DriverA_SetTriggerCondition is added. 2. Copyright information is updated. 3. Followed naming conventions are changed, usInitTimerCountValue to ulInitTimerCountValue usSlowTimeValue to ulSlowTimeValue usFastTimeValue to ulFastTimeValue Wdg_59_DriverA_GusTiggerCounter to Wdg_59_DriverA_GulTiggerCounter. 4. Wdg_59_DriverA_SetMode is updated to intialize the return value when requested mode and current mode are same. 5. Redundant assignment is deleted. The value of this object is never used before being modified. To avoid QAC warning Msg(4:2982).

Wdg_59_DriverA_Irq.c	1.0.11	Following changes are made in Ver4.02.01.D:- 1. Added QAC warning justification for Msg(2:3416) and Msg tags in WDG_59_DRIVERA_TRIGGERFUNCTION_ISR API. 2. Copyright information is updated. 3. Macro WDG_59_DRIVERA_INTWDT_EIC_ADDR replaced by WDG_59_DRIVERA_INTWDTEIC_ADDR in interrupt consistency check. 4. The naming convention has changed from Wdg_59_DriverA_GusTiggerCounter to Wdg_59_DriverA_GulTiggerCounter
Wdg_59_DriverA_Private.c	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Added QAC warning justification for Msg(2:3416) and Msg tags in Wdg_59_DriverA_SetModeDetCheck API. 2. Copyright information is updated. 3. The naming convention has changed from uiApiId to ucApiId 4. The value of function parameter is declared with the 'const' type Qualifier. To avoid QAC warning Msg(2:3227). 5. For Wdg_59_DriverA_TriggerFunc Re-entrancy is corrected.
Wdg_59_DriverA_Ram.c	1.0.8	Following changes are made in Ver4.02.01.D:- 1. The naming conventions are changed from Wdg_59_DriverA_GusTiggerCounter to Wdg_59_DriverA_GulTiggerCounter 2. Copyright information is updated.
Wdg_59_DriverA_Version.c	1.0.7	Following changes are made in Ver4.02.01.D:- 1. For QAC Warning Rule has been changed to NA. 2. Copyright information is updated.
Wdg_59_DriverA.h	1.0.9	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated 3. Suffix 'U' is added for AutoSAR Macros
Wdg_59_DriverA_Debug.h	1.0.1	No changes for release Ver4.02.01.D
Wdg_59_DriverA_Irq.h	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Macro WDG_59_DRIVERA_INTWDT_EIC_ADDR is removed. 2. Copyright information is updated.

		3. Requirements tag, 'Implements' is replaced with WDG_H_XXX.
Wdg_59_DriverA_PBTypes.h	1.0.11	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 3. Dead code is removed 'WDG_59_DRIVERA_NMI_MASKVALUE, WDG_59_DRIVERA_NMI_MODE,WDG_59_DRIVERA_RAM, WDG_59_DRIVERA_ROM 4. The naming convention has changed from Wdg_59_DriverA_GusTiggerCounter to Wdg_59_DriverA_GulTiggerCounter 5. Suffix 'U' is added for WDG_59_DRIVERA_WINDOW
Wdg_59_DriverA_Private.h	1.0.6	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 3. The naming convention has changed from uiApiId to ucApiId 4. The value of function parameter is declared with the 'const' type Qualifier,to avoid QAC warning Msg(2:3227).
Wdg_59_DriverA_Ram.h	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 3. The naming convention has changed from Wdg_59_DriverA_GusTiggerCounter to Wdg_59_DriverA_GulTiggerCounter
Wdg_59_DriverA_RegWrite.h	1.0.1	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 5. The naming convention has changed from uiApiId to ucApiId

Wdg_59_DriverA_Types.h	1.0.6	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 3. The naming convention are changed, usInitTimerCountValue to ulInitTimerCountValue, usSlowTimeValue to ulSlowTimeValue, usFastTimeValue to ulFastTimeValue
Wdg_59_DriverA_Version.h	1.0.7	Following changes are made in Ver4.02.01.D:- 1. Requirements tag, 'Implements' is replaced with WDG_H_XXX. 2. Copyright information is updated. 3. Suffix 'U' is added for AutoSAR Macros
DLL executable code for WDG configuration generation		
Wdg_X1x.dll	1.0.21	Following change is made in Ver4.02.01.D:- 1. Tool .dll updated for tool code changes.
Wdg_X1x.cfgxml	1.0.1	Following changes are made in Ver4.02.01.D:- 1. A new filter option, <FILTER-RENESAS> is added to handle multiple module instances. 2. Copyright information updated
X1x Common Sample Application Source file		
App_WDG_Common_Sample.c	1.0.11	No changes for release Ver4.02.01.D
X1x Common Sample Application header file		
App_WDG_Common_Sample.h	1.0.5	No changes for release Ver4.02.01.D
P1x Sample Application P1M Source file		
App_WDG_P1M_Sample.c	1.0.5	No changes for release Ver4.02.01.D
P1x Sample Application P1M header file		
App_WDG_P1M_Sample.h	1.0.3	No changes for release Ver4.02.01.D
P1x User Manual		
R20UT3728EJ0101-AUTOSAR.pdf	1.0.8	Following changes are made in Ver4.02.01.D:- 1. Abbreviation list is updated. 2. Section 10.3 Function Definitions is updated. 3. Chapter 14 release details version is updated. 4. Chapter 3 and 9 are updated with R-Numbered Tool User manual name. 5. Version of R-number is updated at the end of document. 6. Notice and copyright information is updated. 7. Table of contents updated. 8. Table 4.1 WDG Driver Deviation List is updated to add

		not implemented requirement 'WDG163'. 9. Chapter 10.2.1 Wdg_59_DriverA_ConfigType is updated. 10. Chapter 12 Memory Organization is updated.
R20UT3729EJ0101-AUTOSAR.pdf	1.0.6	Following changes are made in Ver4.02.01.D:- 1. Abbreviation list is updated. 2. Chapter 3 and 9 are updated with R-Numbered Tool User manual name. 3. Version of R-number is updated at the end of document. 4. Notice and copyright information is updated. 5. R403_WDG_P1M_04_05_10_to_15_18_to_23.arxml version is updated

7.3 Fixed Issues

ID	Description
NA	Please refer to the fixed issues list as shared from Renesas Ref. P1M_FixedIssues_Ver4.02.01.D.xlsx.

7.4 Known Issues

ID	Description
NA	Please refer to the known issues list as shared from Renesas Ref. P1M_KnownIssues_QM_CW08_2017.xlsx.