

Document Title	SWS_WatchdogDriver: Complete Change Documentation 4.3.0 - 4.3.1
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Part of AUTOSAR Standard	Classic Platform
Part of Standard Release	4.3.1

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1 SWS_WatchdogDriver

1.1 Specification Item ECUC_Wdg_00117

Trace References:

none

Content:

Name	WdgIndexWdgGeneral.WdgIndex		
Parent Container	WdgGeneral		
Description	Represents the watchdog driver's ID so that it can be referenced by the watchdog interface. Specifies the InstanceId of this module instance. If only one instance is present it shall have the Id 0.		
Multiplicity	1		
Type	EcucIntegerParamDef (Symbolic Name generated for this parameter)		
Range	0 .. 255		
Default value	-		
Post-Build Variant Value	false		
Value Configuration Class	Pre-compile time	X	All Variants
	Link time	-	
	Post-build time	-	
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77845: [diverse] Configuration of instance ID for instantiated modules

Problem description:

Some modules that can exist multiple times in an AUTOSAR BSW stack have configurable instance IDs that are used to e.g. call DET. Examples are the bus drivers. Others, like the CDD, Crypto driver, or DIO driver, lack such a configuration parameter.

—Last change on issue 77845 comment 2—

Agreed solution:

TPS EcuConfigurationSpecification (CDD):

Add container CddGeneral with one parameter CddInstanceId to Cdd Ecuc-ModuleDef

Description: Specifies the InstanceId of this module instance. If only one instance is present it shall have the Id 0.

Multiplicity: 1
Type: EcucIntegerParamDef
Range: 0 .. 255
Default value: -
Post-Build Variant Value: false
Value Configuration Class: Pre-compile time - All Variants

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Crypto:

Add new pre-compile integer parameter "CryptoInstancelId" (range 0..255) to the container CryptoGeneral,
Description: "Instance ID of the crypto driver. This ID is used to discern several crypto drivers in case more than one driver is used in the same ECU."

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Eep:

Change ECUC_Eep_00189 Description from : "Represents the Index of the driver, used by EA" to
"Specifies the InstancelId of this module instance. If only one instance is present it shall have the Id 0."

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FIs:

Add REQ:

SWS_FIs_xxx: If more than one instance of the flash driver is used in an ECU, the individual instances have to be given a unique instance ID. This instance ID shall be configured as the parameter FIsDriverIndex. If only one instance of the flash driver is used in an ECU, this instance shall have the parameter FIsDriverIndex configured as 0.

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Wdg:

Change ECUC_Wdg_00117 Description from : "Represents the watchdog driver's ID so that it can be referenced by the watchdog interface." to
"Specifies the InstancelId of this module instance. If only one instance is present it shall have the Id 0."

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Xfrm:

Add into the container XfrmGeneral a new parameter XfrmInstancelId to XfrmEcucModuleDef
Description: Specifies the InstancelId of this module instance. If only one instance is present it shall have the Id 0.

Multiplicity: 1
Type: EcucIntegerParamDef
Range: 0 .. 255
Default value: -
Post-Build Variant Value: false
Value Configuration Class: Pre-compile time - All Variants
–Last change on issue 77845 comment 32–

BW-C-Level:

Application	Specification	Bus
1	3	1