

MICROSAR BswM



Document Information

History

Author	Date	Version	Remarks
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Reference Documents

No.	Source	Title	Version
[1]			
[2]			
[3]			
[4]			
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[9]			
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Caution



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1 Component History

Component Version	New Features
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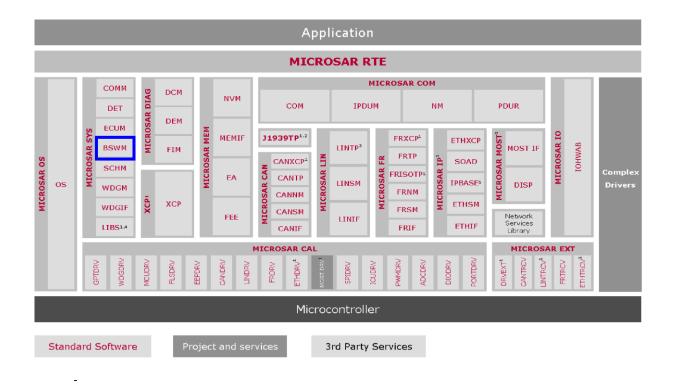
2 Introduction

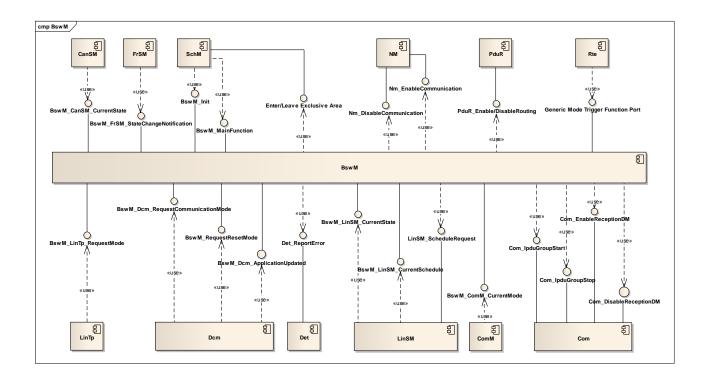
<u> </u>	Cross reference
\longrightarrow	

Supported AUTOSAR Release*:	
Supported Configuration Variants:	
Vendor ID:	-
Module ID:	



2.1 Architecture Overview









3 Functional Description
3.1 Features
> -
> -
> -
Supported AUTOSAR Standard Conform Features
-
Not Supported AUTOSAR Standard Conform Features
Features Provided Beyond The AUTOSAR Standard -
-



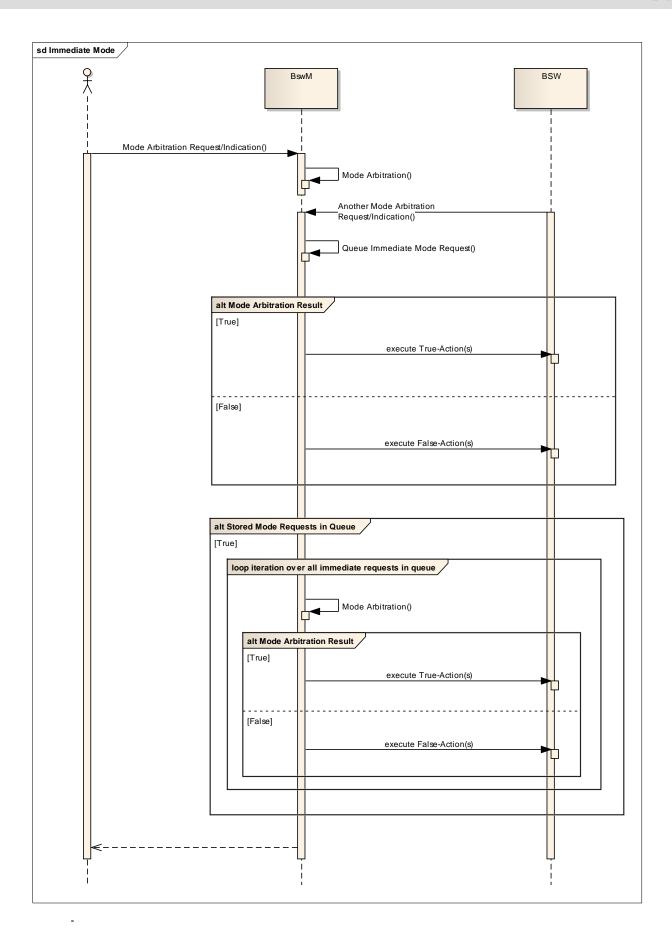
3.3 Mode Management

- > Mode Source
- > Mode Arbitration
- > Mode Rule

_

- > Mode Actions
- 3.3.1 Immediate Mode Handling



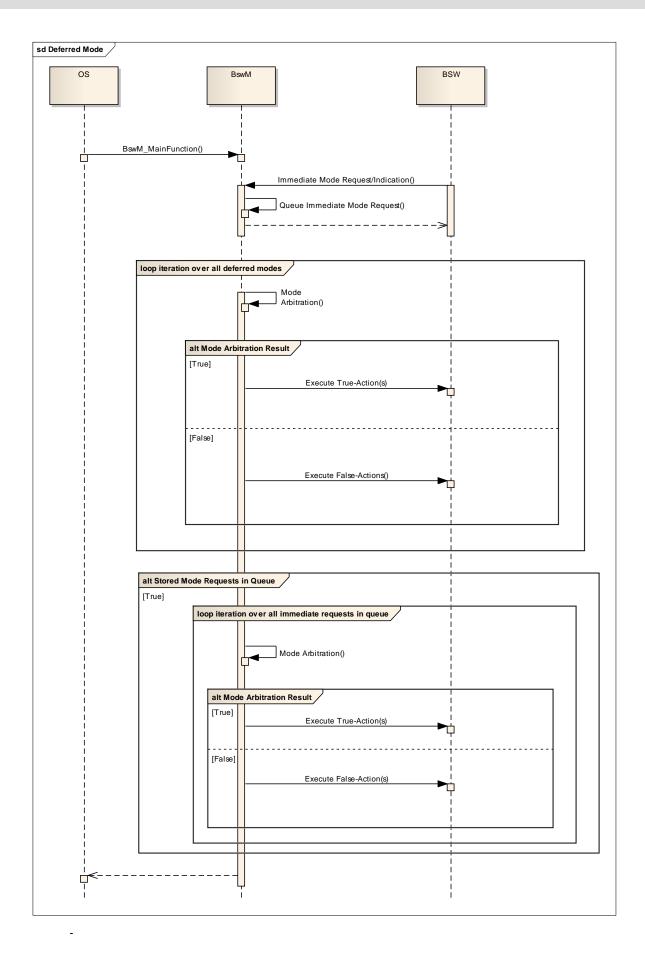


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3.3.2 Deferred Mode Handling





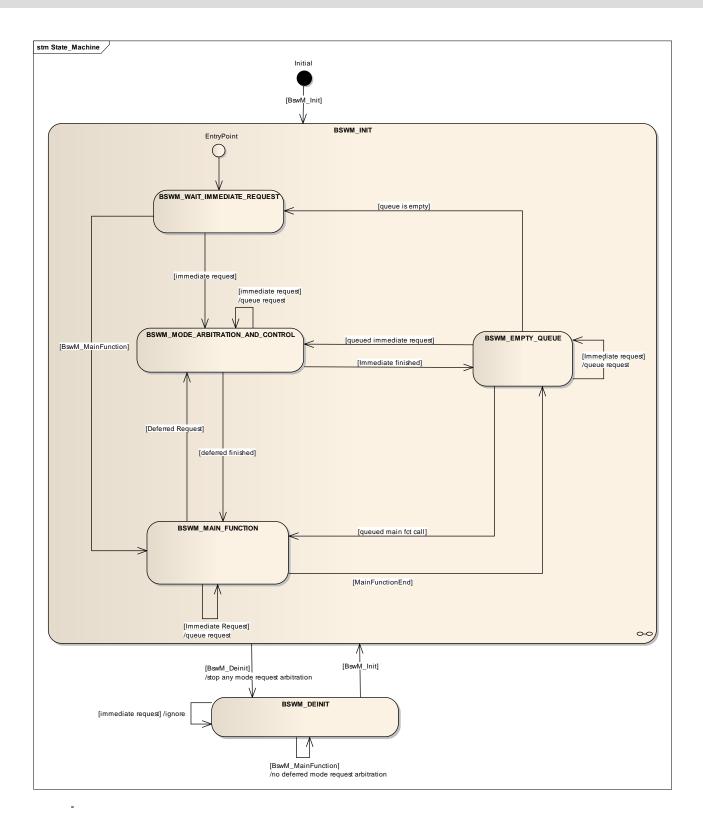
©



3.4 Execution of action lists

3.5 States







> BSWM_INIT	
> BSWM_WAIT_IMMEDIATE_REQUEST	
> BSWM_MAIN_FUNCTION	
> BSWM_MODE_ARBITRATION_AND_CONT	ROL
> BSWM_EMPTY_QUEUE	
> BSWM_DEINIT	
3.6 Error Handling 3.6.1 Development Error Reporting -	
Service ID	Service



Service ID	Service

Error Code		Description	



3.6.1.1 Parameter Checking

Service	Check				
			=		
		-			
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3.6.2 Production Code Error Reporting



4 Integration

4.1 Scope of Delivery

4.1.1 Static Files

File Name	Source Code Delivery	Object Code Delivery	Description
	-		
	•		
	•		

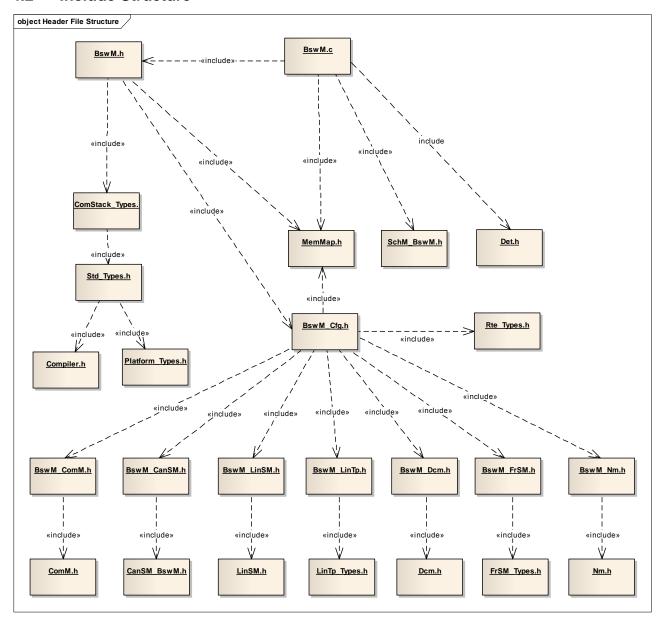
4.1.2 Dynamic Files

File Name	Description

c



4.2 Include Structure



4.3 Critical Sections



4.4 Cyclic Task



5 API Description

5.1 Type Definitions

Type Name	C-Type	Description	Value Range

©



5.2 Services provided by BswM

5.2.1 BswM_RequestMode

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limit	ations	
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>		
>		
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5.2.2 BswM_Init

Prototype	
Parameter	
Return code	
Functional Description	
Particularities and Limit	ations
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> -	
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Example



5.2.3 BswM_InitMemory

Prototype	
Parameter	
Return code	
Functional Description	
Particularities and Limit	ations
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5.2.4 BswM_Deinit

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limitations		
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5.2.5 BswM_GetVersionInfo

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limitations		
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5.2.6 BswM_ComM_CurrentMode

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limitations		
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5.2.7 BswM_ComM_CurrentPNCMode

Prototype		
Parameter		
Return code		
Functional Description		



articularities and Limitations	

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5.2.8 BswM_CanSM_CurrentState

Prototype		
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Parameter		
Return code		
Functional Description		
Particularities and Limitations		
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5.2.9 BswM_FrSM_StateChangeNotification

Prototype				
Parameter				
Return code				
Functional Description				
Particularities and Limitations				
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5.2.10 BswM_LinSM_CurrentState

Prototype			
Parameter			
Return code			
Functional Description			
Particularities and Limitations			
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5.2.11 BswM_LinSM_CurrentSchedule

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limitations		
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5.2.12 BswM_LinSM_ScheduleEnd_Notification

Prototype			
Parameter			
Return code			
Functional Description			
Particularities and Limitations			
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5.2.13 BswM_LinTp_RequestMode

Prototype			
Parameter Parameter			
Parameter			
Return code			
Functional Description			
Particularities and Limitations			
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5.2.14 BswM_Nm_StateChangeNotification

Prototype			
Parameter			
Return code			
Functional Description			
Particularities and Limit	ations		
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5.2.15 BswM_Dcm_RequestCommunicationMode

Prototype			
Parameter			
Return code			
Functional Description			
Particularities and Limitations			
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5.2.16 BswM_Dcm_RequestResetMode

Prototype			
Parameter			
Return code			
Functional Description			
Particularities and Limitations			
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5.2.17 BswM_Dcm_SetPassiveMode

Prototype		
Parameter		
Return code		
Functional Description		
Particularities and Limit	ations	
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5.2.18 BswM_Dcm_ApplicationUpdated

Particularities and Limitations			



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5.3 Services used by BswM

Component	API

5.4 Callback Functions

5.4.1 Appl_BswM_ApplicationUpdated

Prototype	
Parameter	
Return code	
Functional Description	
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Particularities and Limitations	
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5.5 Configurable Interfaces

5.5.1 Callout Functions

Prototype	
Parameter	
T drameter	-
Return code	
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Functional Description	
Particularities and Limit	ations
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5.5.2 Mode Trigger Functions

Prototype		



Parameter				
Return code				
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Functional Description				
Particularities and Limitations				
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5.5.3 User Condition Functions

Prototype				
Parameter				
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Return code				
Functional Description				
Particularities and Limit	ations			
> -				
>				



5.	6	Serv	/ica	Po	rte
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5.6.1 Client Server Interface

5.6.1.1 Provide Ports on BswM Side

5.6.1.1.1 BswM_ModeIndication_<GenericModeName>

Operation	API Function	Port Defined Argument Values
		-

5.6.1.1.2 BswM_DcmAppUpdate

Operation	API Function	Port Defined Argument Values
		-

5.6.1.2 Require Ports

5.6.1.2.1 Mode Switch Port

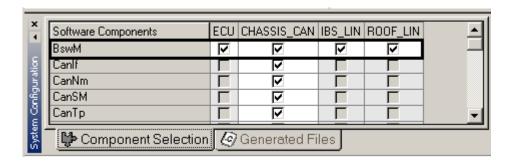
Operation	Rte Interface	Mode Declaration Group



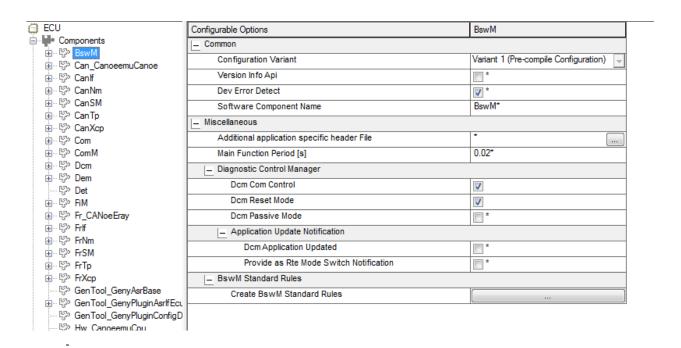
6 Configuration

6.1 Configuration Variants

6.2 Configuration with GENy



6.2.1 General Configuration Options



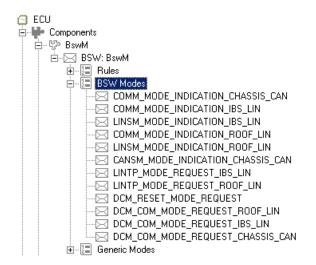


Attribute Name	Value Type	Values	Description
		Variant 1 (Pre-compile Configuration)	-
		False	-
		False	Dev Error Detect
		BswM	
		-	
		0.02	
		False	-
		False	



Attribute Name	Value Type	Values	Description
	-	-	_
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6.2.2 BSW Mode Configuration



	Mode Request Processing Type
COMM_MODE_INDICATION_CHASSIS_CAN	BSWM_IMMEDIATE 🔻
COMM_MODE_INDICATION_IBS_LIN	BSWM_IMMEDIATE 🔻
LINSM_MODE_INDICATION_IBS_LIN	BSWM_IMMEDIATE 🔻
COMM_MODE_INDICATION_ROOF_LIN	BSWM_IMMEDIATE 🔻
LINSM_MODE_INDICATION_ROOF_LIN	BSWM_IMMEDIATE 🔻
CANSM_MODE_INDICATION_CHASSIS_CAN	BSWM_IMMEDIATE 🔻
LINTP_MODE_REQUEST_IBS_LIN	BSWM_IMMEDIATE 🔻
LINTP_MODE_REQUEST_ROOF_LIN	BSWM_IMMEDIATE 🔻
DCM_RESET_MODE_REQUEST	BSWM_IMMEDIATE 🔻
DCM_COM_MODE_REQUEST_ROOF_LIN	BSWM_IMMEDIATE 🔻
DCM_COM_MODE_REQUEST_IBS_LIN	BSWM_IMMEDIATE 🔻
DCM_COM_MODE_REQUEST_CHASSIS_CAN	BSWM_IMMEDIATE 🔻

BSW Mode Indication	Possible Modes	Description
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BSW Mode Indication	Possible Modes	Description
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BSW Mode Indication	Possible Modes	Description
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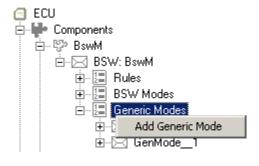
Attribute Name	Value Type	Values	Description
		BSWM_IMMEDIATE	

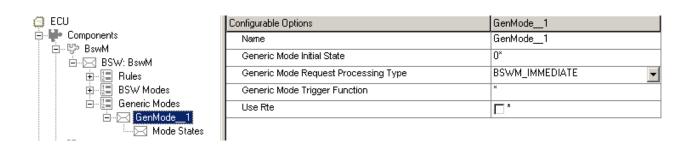


Attribute Name	Value Type	Values	Description

6.2.3 Generic Mode Configuration

Add Generic Mode





Attribute Name	Value Type	Values	Description
		GenMode <index></index>	
		0	
		BSWM_IMMEDIATE	



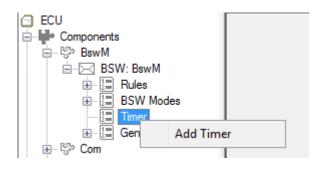
Attribute Name	Value Type	Values	Description
		*	
		FALSE	Use Rte

6.2.4 Timer Configuration

>

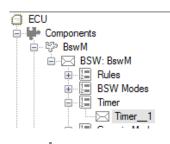
>

>



Timer_<number>





Configurable Options	Timer1	
Name	Timer1	
Generic Mode Request Processing Type	BSWM_DEFERRED	-
Timer Value [ms]	20	



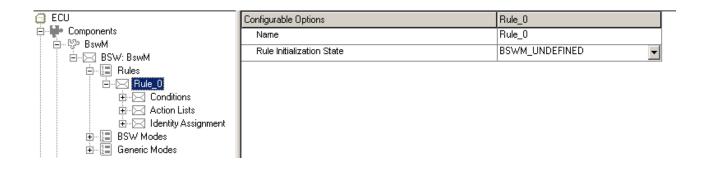
6.2.5 Rule Configuration





Rule_<number>







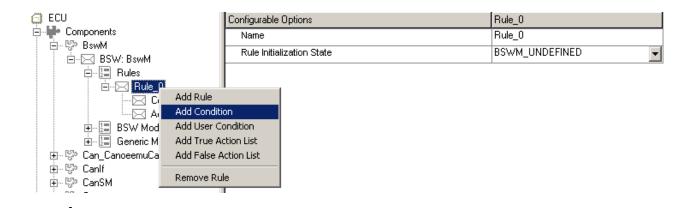
Note

Rule Initialization State ActionListExecution

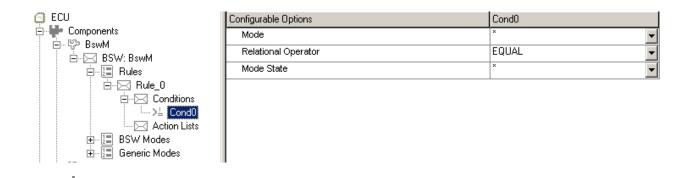
BSWM_TRIGGER

Attribute Name	Value Type	Values	Description
		Rule <number></number>	
		BSWM_UNDEFINED	-

6.2.5.1 Configuration of Rule Conditions





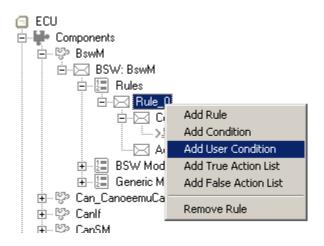


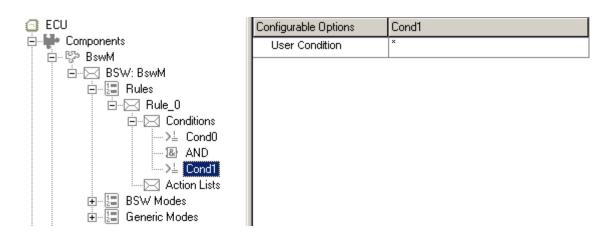
Attribute Name	Value Type	Values	Description
		*	
		EQUAL	
		*	
		<pre>< Possible Mode States the Mode can have ></pre>	



Caution

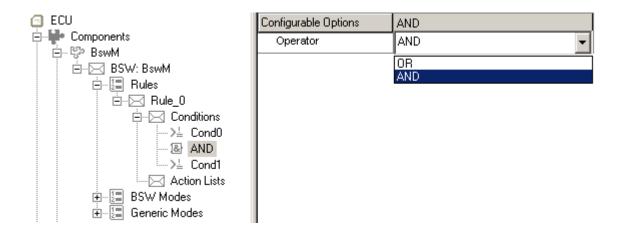






Attribute Name	Value Type	Values	Description
		*	





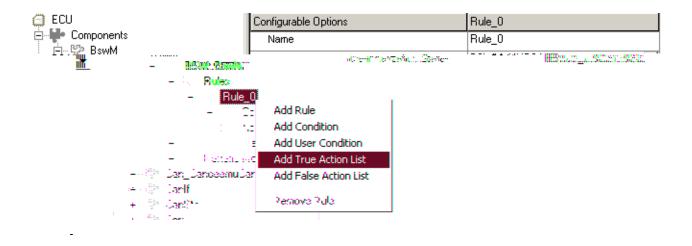
Attribute Name	Value Type	Values	Description
		AND	



6.2.5.2 Configuration of Rule Action Lists true false

Action List True

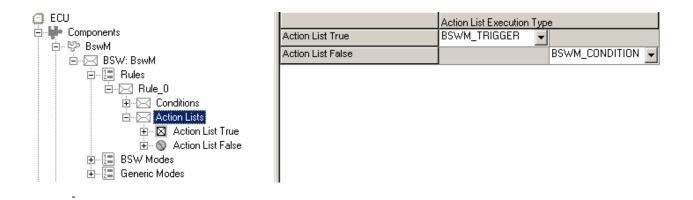
Action List False





6.2.5.2.1 Action List Execution Type

ActionListExecution

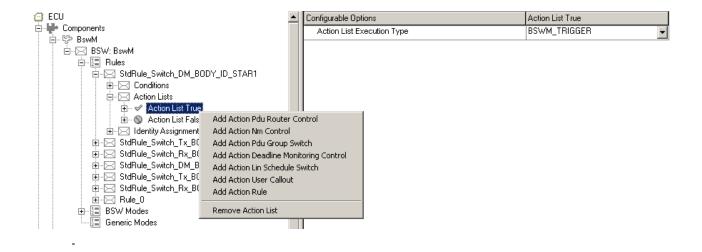


Attribute Name	Value Type	Values	Description
		BSWM_TRIGGER	

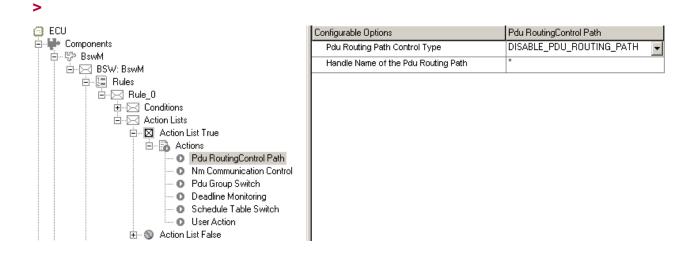
-



6.2.5.2.2 Adding Actions to an Action List

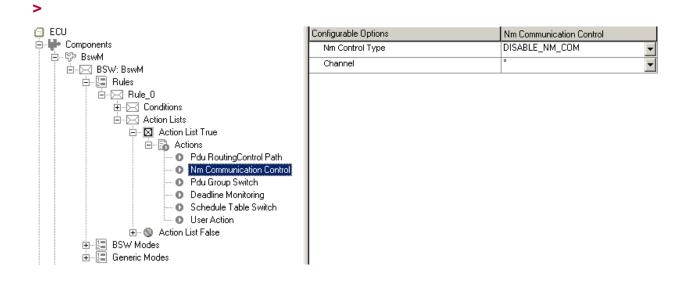






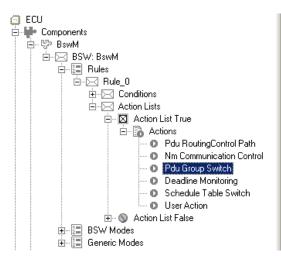
Attribute Name	Value Type	Values	Description
		DISABLE_PDU_ ROUTING_PATH	
		*	





Attribute Name	Value Type	Values	Description
		DISABLE_NM_COM	
		*	



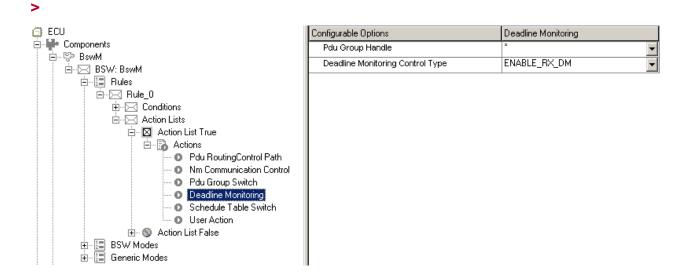


	Configurable Options	Pdu Group Switch
ı	Pdu Group Control Type	BSWM_PDU_GROUP_START
ı	Pdu Group Handle	*
ı	Pdu Group Reinitialization	□*
н		

Attribute Name	Value Type	Values	Description
		BSWM_PDU_ GROUP_START	
		*	
		Disabled	
			BSWM_PDU_GROUP_START

Caution





Attribute Name	Value Type	Values	Description
		*	
		ENABLE_RX_DM	



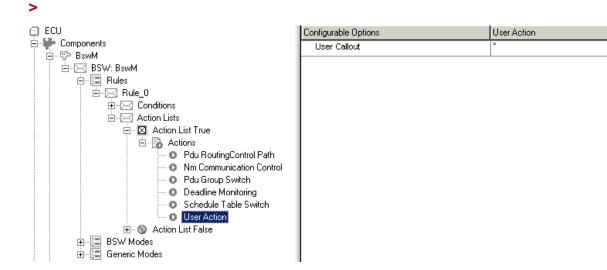
>

🗐 ECU
Components
Ē. ♥ BswM
⊟ 🖂 BSW: BswM
⊟
⊕ ⊠ Conditions
⊟ ⊠ Action Lists
⊟ < Action List True
⊟ 🚮 Actions
Schedule Table Switch

	_	
Configurable Options	Schedule Table Switch	
Channel	×	v
Schedule Table Handle	×	•
Abort Action List On Fail	□*	Т

Attribute Name	Value Type	Values	Description
		*	
		*	
		false	

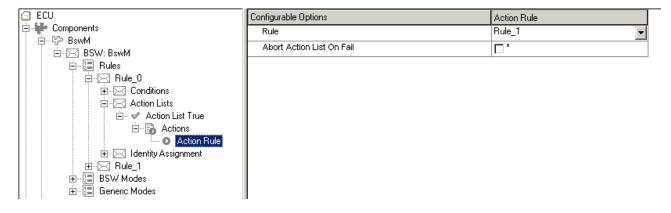




Attribute Name	Value Type	Values	Description
		*	

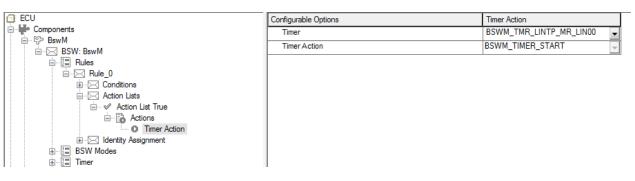


>



Attribute Name	Value Type	Values	Description
		*	
		false	

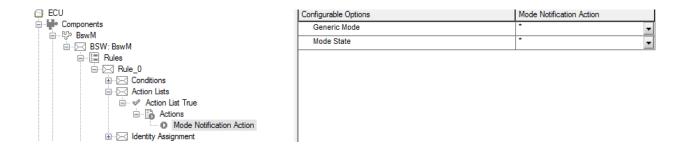
>



Attribute Name	Value Type	Values	Description
		*	
		BSWM_TIMER_STARTED	

>



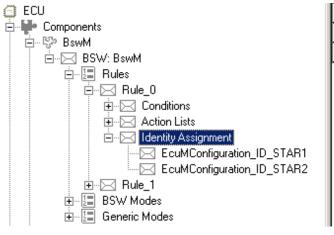


Attribute Name	Value Type	Values	Description
		*	
		*	

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6.2.5.3 Configuration of the Identity Assignment



	Rule relevant for identity
EcuMConfiguration_ID_STAR1	.
EcuMConfiguration_ID_STAR2	☑*





Example

>

>

>

Identity 0	Identity 1

_ _

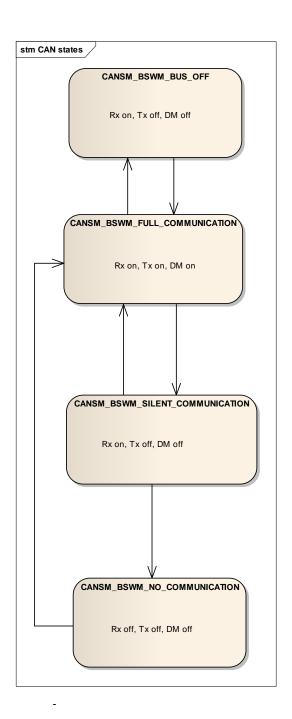


7 Use Cases of BSWM

		Note -
>	CAN	Communication Modes
>	DCM	Communication Control Modes
>	DCM	Reset Modes
>	LIN	Communication Modes
>	LIN 7	TP Modes
>	Flex	Ray Communication Modes
>	NmF	iatB Communication Modes
>	NmF	iatC Communication Modes
>	Parti	al Network Cluster Modes
7.1	C	AN Communication Modes

CANSM_MODE_INDICATION_<channel-name>





CANSM_MODE_INDICATION_<channel-name>

CANSM_PREVIOUS_MODE_<channel-name>

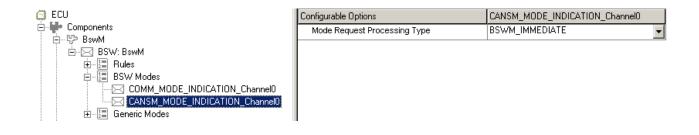


on

off

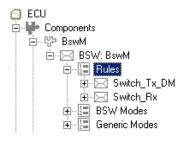
> STEP 1

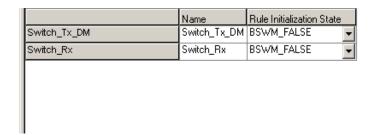
BSWM_IMMEDIATE



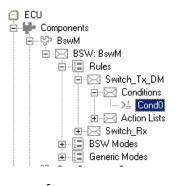
> STEP 2 BSWM FALSE

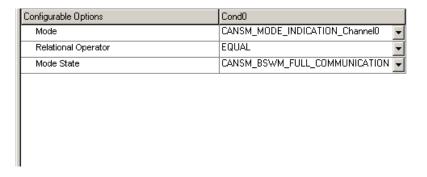
Switch_Tx_DM Switch_Rx Rule Initialization State



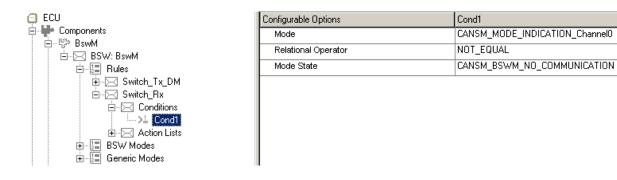


STEP 3









Switch_Tx_DM

CANSM_BSWM_FULL_COMMUNICATION

>

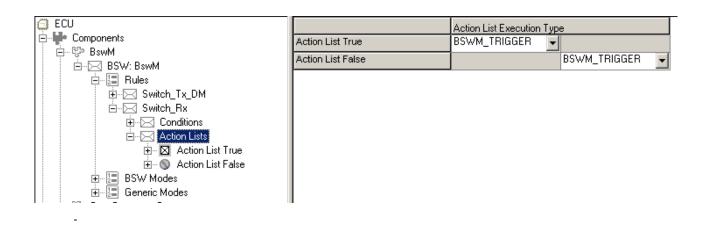
Switch_Rx

CANSM_BSWM_NO_COMMUNICATION

>

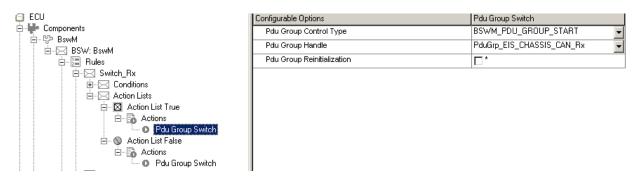
> STEP 4

BSWM_TRIGGER



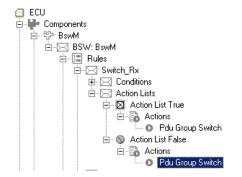


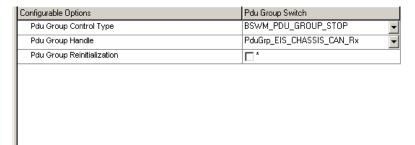
> STEP 5



- Switch_Rx
Group Switch BSWM_PDU_GROUP_START

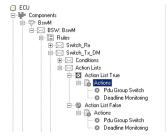
Pdu





- Switch_Rx
Group Switch BSWM_PDU_GROUP_STOP

Pdu



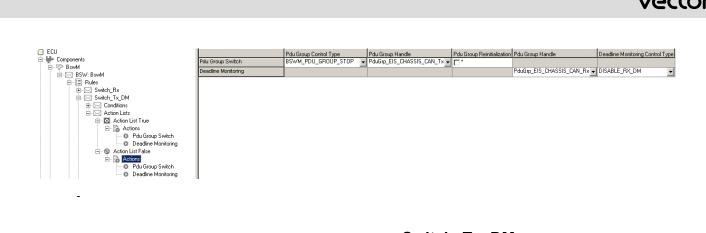
Pdu Group Control Type
Pdu Group Hande
Pdu Group Reinitialization
Pdu Group Hande

Group Switch

Switch_Tx_DM
BSWM_PDU_GROUP_START
Deadline Monitoring

Pdu





Switch_Tx_DM

7.1.1 Rule Switch_Tx_DM

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	



Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_TRIGGER
	Actions	BOWM_TRIOGER
	>	
	>	
	Action List Execution Type	BSWM_TRIGGER
	Actions	DOMM_INGGEN
	>	
	>	

-



7.1.2 Rule Switch_Rx

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Action List Execution Type	



Attribute Name	Values	Description
	Actions >	BSWM_TRIGGER
	Action List Execution Type Actions >	BSWM_TRIGGER

7.2 Dcm Communication Control Modes

DCM_COM_MODE_REQUEST_<channel-name>

Requested Mode	Actions
	-
	> -
	>
	_
	-
	> >
	-
	> -
	-
	>
	-
	> -
	> -
	-
	>
	>
	>
	>
	>
	> -



Requested Mode	Actions
	> -
	>
	-
	>
	> -
	> -
	>
	-
	>
	>
	> -
	>
	-



Caution

7.3 Dcm Reset Modes

DCM_RESET_MODE_REQUEST

>

>

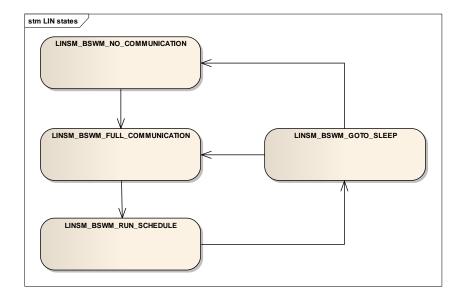
>

>

7.4 LIN Communication Modes

LINSM_MODE_INDICATION_<channel-name>





_

>

>

7.4.1 Generic Mode for clamp 15

Values	Description
	Values



Attribute Name	Values	Description
	-	



7.4.2 Rule clamp 15 on

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Mode	Clamp_15
	Relational Operator	
	Mode State	
	Action List Execution Type	
	Actions	
	>	

-



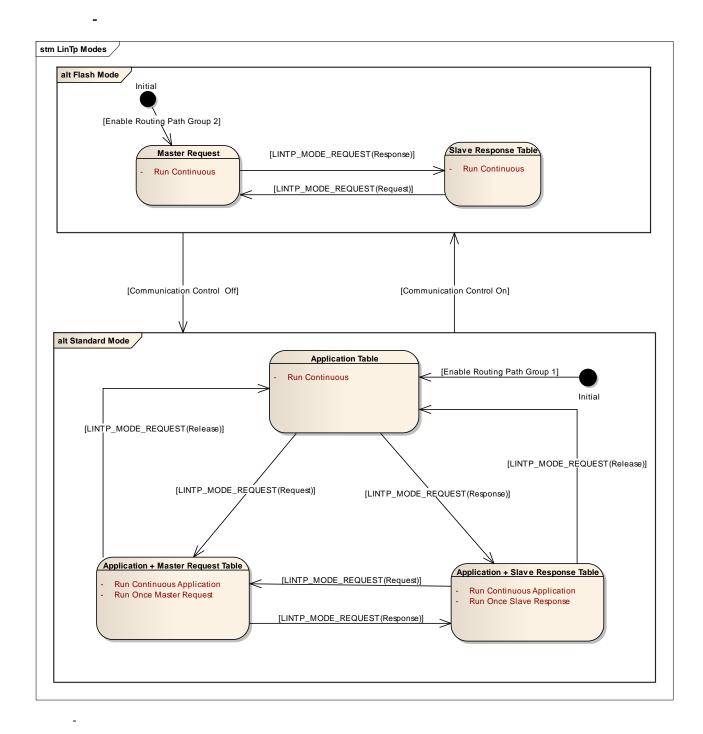
7.4.3 Rule clamp 15 off

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Mode	Clamp_15
	Relational Operator	
	Mode State	
	Action List Execution Type	
	Actions	
	>	

7.5 LIN TP Modes

- > LINTP_MODE_REQUEST
- > LINTP_MODE_RESPONSE
- > LINTP_MODE_RELEASE
- > LIN_STANDARD
- > LIN_FLASH





> Generic Mode LIN Diagnostic Mode



>	Rule Application Schedule in Standard Mode
>	Rule Master Request in Standard Mode
>	Slave Response in Standard Mode
>	Rule Master Request in Flash Mode
>	Rule Slave Response in Flash Mode
	-

> Rule Switch LIN Diagnostic Mode



7.5.1 Generic Mode Configuration

Attribute Name



7.5.2 Rule Configuration

7.5.2.1 Rule for application schedule

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	
	Actions	
	>	
	>	
	>	



7.5.2.2 Rule for switching the LIN Diagnostic Mode



Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
		OR-
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	
	Actions	
	> SetLinDiagFlashMode	
	>	
	>	
	>	
	Action List Execution Type	
	Actions	
	> SetLinDiagStandardMode	
	>	
	>	
	>	

7.5.2.3 Rule for master request in LIN_STANDARD Mode



Attribute Name	Values	Description
	Mode Relational Operator Mode State	
		AND-
	Mode Relational Operator Mode State	
	Action List Execution Type Actions >	BSWM_CONDITION



7.5.2.4 Rule for slave response in LIN_STANDARD Mode

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
		AND-
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_CONDITION
	Actions	DOMM_COMDITION
	-	



7.5.2.5 Rule for master request in LIN_FLASH Mode

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
		AND-
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_TRIGGER
	Actions	
	>	



7.5.2.6 Rule for slave response in LIN_FLASH Mode

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
		AND-
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_TRIGGER
	Actions	
	> -	



7.5.3 User Callouts

>

>

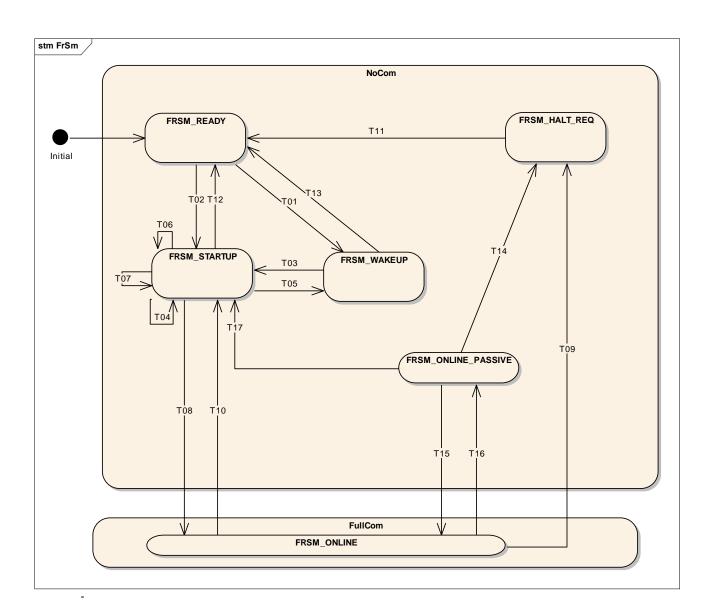
LinDiagMode



Example



7.6 FlexRay Communication Modes

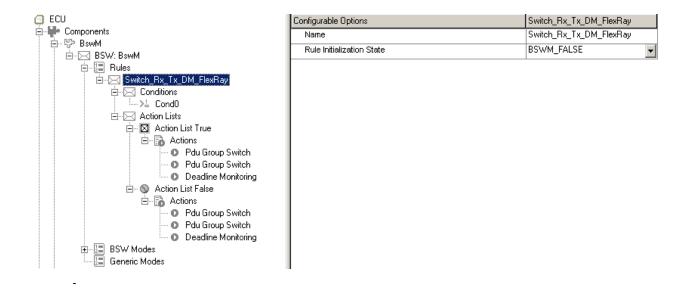


7.6.1 Rule Switch_Rx_Tx_DM_FlexRay



Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type Actions >	BSWM_TRIGGER
	> >	
	Action List Execution Type	BSWM_TRIGGER
	Actions >	
	>	
	>	





Switch_Rx_Tx_DM_Flexray

7.6.2 Rule Switch_Tx_FlexRay

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode	
	Relational Operator Mode State	
	Mode	
	Relational Operator	
	Mode State	



Attribute Name	Values	Description
	Mode Relational Operator Mode State	
	Mode Relational Operator	
	Mode State	
	Mode Relational Operator Mode State	
	Action List Execution Type Actions >	BSWM_TRIGGER
	Action List Execution Type Actions >	BSWM_TRIGGER

7.6.3 Rule Switch_Rx_DM_FlexRay

Attribute Name	Values	Description
		BSWM_TRIGGER

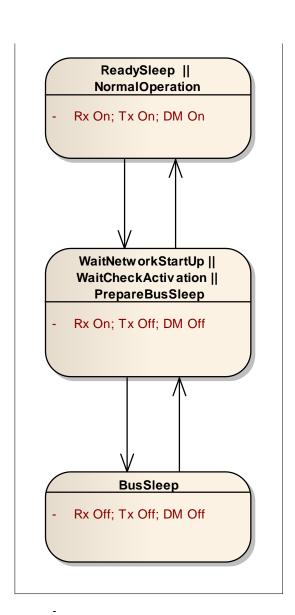


Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Mode Relational Operator	
	Mode State	
	Mode	
	Relational Operator:	
	Mode State	
	Mode Deletional Operator	
	Relational Operator Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_TRIGGER
	Actions >	
	>	
	Action List Execution Type	



Attribute Name	Values	Description
	Actions	BSWM_TRIGGER
	>	
	>	

7.7 NmFiatB and NmFiatC Communication Modes







Caution

7.7.1 Rule Switch_Tx_DM

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	
	OR	
	Mode Relational Operator Mode State	
	Action List Execution Type Actions >	BSWM_TRIGGER
	Action List Execution Type Actions	BSWM_TRIGGER



Attribute Name	Values	Description
	>	
	>	

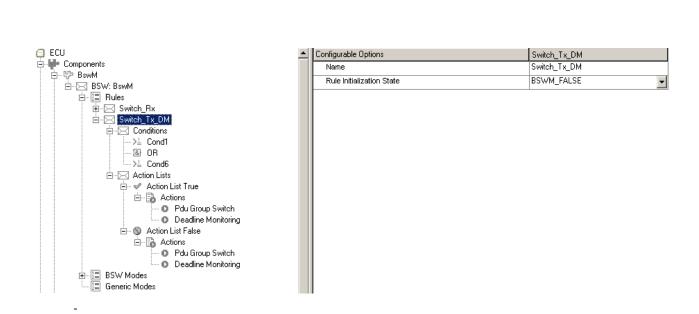
_

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	CANSM_BSWM_FULL_COMM UNICATION.
	AND	
	Mode Relational Operator Mode State	NM_STATE_BUS_SLEEP
	AND	
	Mode Relational Operator Mode State	NM_STATE_PREPARE_BUS_SLE EP
	AND	
	Mode Relational Operator	NM_STATE_WAIT_CHECK_ACTI VATION



Attribute Name	Values	Description
	Mode State	
	AND	
	Mode	
	Relational Operator	NM_STATE_WAIT_NETWORK_ STARTUP
	Mode State	517 11.11.01
	Action List Execution Type	BSWM_TRIGGER
	Actions	Bomm_mage_m
	>	
	>	
	Action List Execution Type	BSWM_TRIGGER
	Actions	_
	>	
	>	



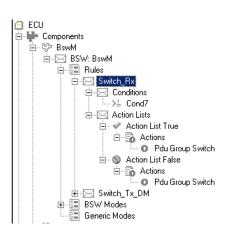


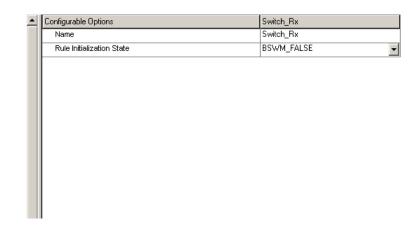
7.7.2 Rule Switch_Rx

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	
	Action List Execution Type Actions >	BSWM_TRIGGER
	Action List Execution Type Actions >	BSWM_TRIGGER

©









7.7.3 Rule Switch_Tx_DM with communication control

Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator Mode State	
	Mode Relational Operator	



Attribute Name	Values	Description
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	
	Actions	BSWM_TRIGGER
	>	
	>	
	Action List Execution Type	DOWN TRICOSS
	Actions	BSWM_TRIGGER
	>	
	>	

©



Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode	
	Relational Operator Mode State	ANSM_BSWM_FULL_COMM UNICATION
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator Mode State	



Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	DOWN TRICOER
	Actions	BSWM_TRIGGER
	>	
	> Action List Execution Type	
		BSWM_TRIGGER
	Actions >	
	>	

7.7.4 Rule Switch_Rx with communication control



Attribute Name	Values	Description
		BSWM_TRIGGER
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	RSWM TRIGGER
	Actions	BSWM_TRIGGER

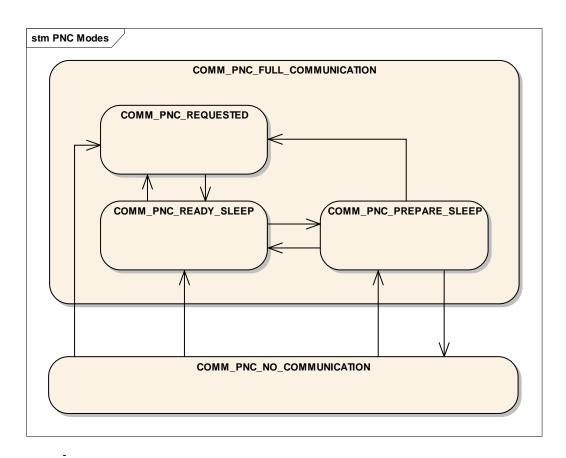


Attribute Name	Values	Description
	> >	
	Action List Execution Type Actions >	BSWM_TRIGGER

_



7.8 Partial Network Cluster Modes



- > COMM_PNC_FULL_COMMUNICATION
- > COMM_PNC_NO_COMMUNICATION



>



7.8.1 Rule Switch_On_PNC

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_TRIGGER
	Actions:	DOWN_I RIGGER
	>	

-



7.8.2 Rule Switch_Off_PNC

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type	BSWM_CONDITION
	Actions:	
	>	

ര



7.8.3 Extension for communication start

Attribute Name	Values	Description
	Mode	
	Relational Operator	
	Mode State	
	Action List Execution Type Actions:	BSWM_TRIGGER
	Actions: >	
	>	
	> >	
	Caution	
	<u>-</u>	



AND

8	AUTOSA	R Standard	Compliance
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8.1 Deviations

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- 8.2 Additions/ Extensions
- 8.3 Limitations
- 8.3.1 Mode arbitration and mode control

OR

8.3.2 BSW modes

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9 Glossary and Abbreviations

9.1 Glossary

Term	Description

9.2 Abbreviations

Abbreviation	Description

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10 Contact

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