





# Model-based Analysis & Engineering of Novel Architectures for Dependable Electric Vehicles

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## Revision chart and history log

Version	Date	Reason
1.0	2011-06-30	First release Reflecting Maenad Month 9
1.0.1	2011-08-30	Intermediate Version Reflecting Maenad Month 12
2.0	2012-06-30	Second release Reflecting Maenad Month 21
2.1	2012-08-31	Change list added.
3.0	2013-05-31	Third release Reflecting Maenad Month 33

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## 1 Summary

D4.1.1 is the EAST-ADL language specification which covers the elements of the language. The released version is annotated EAST-ADL M2.1.11, i.e. the MAENAD proposal for version 2.1.11. The actual specification of the language is delivered in a separate document, EAST-ADL-Specification\_M2.1.11.pdf. This document describes the structural changes in the different project internal releases of the language.

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## 2 Versions

The EAST-ADL specification from the previous ATESST2 project had the version number 2.1.8 and was released 2010-06-30, the specification has evolved during the MAENAD project as follows:

Date	Domain Model version	Note
2011-01-30	(M2.1.1) M2.1.9	
2011-06-30	M2.1.9.1	M9, should really be called 2.1.9.20110630
2011-08-30	M2.1.9.20110830	
2012-03-30	M2.1.10	Consolidation of descriptions
2012-06-15	M2.1.10.20120629	M21, no structural changes.
2013-05-31	M2.1.11	M33

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# 4 Changes in M2.1.9.1 as compared to ATESST2\_2.1.RC5

M2.1.9.1	ATESST2_2.1.RC5	Change	Metaclass
TraceableSpecification (from Elements)	EAPackageableElement (from Elements)	Changed generalization	FunctionClientServerInterface (from FunctionModeling) «atpType»
wire : HardwareConnector [*]	No additional associations	Changed dependency to association	LogicalBus (from HardwareModeling) «atpStructuredElement»
	Dependencies	ditto	
	wire : HardwareConnector [*]	ditto	
	«instanceRef»	ditto	
decisionModel : VehicleLevelBinding [*]	decisionModel : VehicleLevelConfigurationDecisionModel [*]	Changed name of associated class	Variability (from Variability)
VehicleLevelBinding (from Variability)	VehicleLevelConfigurationDecisionMode I (from Variability)	Changed class name	VehicleLevelBinding (from Variability)
	relationship: RequirementsRelationship [*] {composite}	Removed association	RequirementsModel (from Requirements)
TraceableSpecification (from Elements)	EAPackageableElement (from Elements)	Changed generalization	Item (from Dependability)
max : Float [01]	max : Float [1]	Changed attribute multiplicity	EAFloat (from Datatypes)
min : Float [01]	min : Float [1]	Changed attribute multiplicity	EAFloat (from Datatypes)
max : int [01]	max : int [1]	Changed attribute multiplicity	EAInteger (from Datatypes)
min : int [01]	min : int [1]	Changed attribute multiplicity	EAInteger (from Datatypes)
	UserAttributeableElement (from UserAttributes)	Removed generalization	EAElement (from Elements) {abstract}

M2.1.9.1	ATESST2_2.1.RC5	Change	Metaclass
The realizedBy elements shall be on a lower abstraction level than the realized relements.	No additional constraints	Added constraint	Realization (from Elements)
The realizedBy or realized elements shall be structural or behavioural		Added constraint	Realization (from Elements)
UserAttributeableElement (from UserAttributes)	UserAttributeableElement (from UserAttributes) {abstract}	Class made concrete	UserAttributeableElement (from UserAttributes)
attributedElement : Identifiable [1]		Removed association	UserAttributeableElement (from UserAttributes)

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## 5 Changes in M2.1.9.20110830 as compared to M2.1.9.1

M2.1.9.20110830	M2.1.9.1	Change	Metaclass
EAElement (from Elements)	None	Added generalization	AllocateableElement (from FunctionModeling) {abstract}
EAElement (from Elements)	None	Added generalization	AllocationTarget (from HardwareModeling) {abstract}
	HardwarePinDirectionKind (from HardwareModeling) «enumeration»	Removed class	HardwarePinDirectionKind (from HardwareModeling) «enumeration»
	Generalizations	ditto	
	None	ditto	
	Enumeration Literals	ditto	
	in	ditto	
	inout	ditto	
	out	ditto	
	Associations	ditto	
	No additional associations	ditto	
	Constraints	ditto	
	No additional constraints	ditto	
nonVolatileMemory : Integer [1]	nonVolatileMemory : int [1]	Changed integer type	Node (from HardwareModeling)
volatileMemory : Integer [01]	volatileMemory : int [01]	Changed integer type	Node (from HardwareModeling)
FormulaExpression (from FormulaLanguage)	FormulaExpression (from Elements)	Changed generalization	SelectionCriterion (from Variability)

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M2.1.9.20110830	M2.1.9.1	Change	Metaclass
EAElement (from Elements)	None	Added generalization	RedefinableElement (from UseCases) {abstract}
cseCodeFactor : Integer = 1 [1]	cseCodeFactor : int = 1 [1]	Changed integer type	TimeDuration (from Timing)
max : Integer [01]	max : int [01]	Changed integer type	EAInteger (from Datatypes)
min : Integer [01]	min : int [01]	Changed integer type	EAInteger (from Datatypes)
significantDigits : Integer [01]	significantDigits : int [01]	Changed integer type	RangeableValueType (from Datatypes)
	FormulaExpression (from Elements) {abstract} «atpMixedString»	Removed class	FormulaExpression (from Elements) {abstract}
	Generalizations	ditto	
	Identifiable (from Identifiable)	ditto	
	Attributes	ditto	
	No additional attributes	ditto	
	Associations	ditto	
	No additional associations	ditto	
	Constraints	ditto	
	No additional constraints	ditto	
The realizedBy or realized elements	The realizedBy or realized elements	Textual change	Realization (from Elements)
shall be structural or behavioral	shall be structural or behavioural		
ArchitecturalDescription (from Needs)	ArchitecturalDescription (from Needs) {abstract}	Class made concrete	ArchitecturalDescription (from Needs)

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M2.1.9.20110830	M2.1.9.1	Change	Metaclass
ArchitecturalModel (from Needs)	ArchitecturalModel (from Needs) {abstract}	Class made concrete	ArchitecturalModel (from Needs)
Architecture (from Needs)	Architecture (from Needs) {abstract}	Class made concrete	Architecture (from Needs)
EAElement (from Elements)	None	Added generalization	Concept (from Needs) {abstract}
Mission (from Needs)	Mission (from Needs) {abstract}	Class made concrete	Mission (from Needs)
priority : Integer [1]	priority : int [1]	Changed integer type	StakeholderNeed (from Needs)
VehicleSystem (from Needs)	VehicleSystem (from Needs) {abstract}	Class made concrete	VehicleSystem (from Needs)

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## 6 Changes in M2.1.10 as compared to M2.1.9.20110830

This release also included consolidated and updated documentation all over the language specification.

M2.1.10	M2.1.9.20110830	Change	Metaclass
technicalFeatureModel : FeatureModel [*] {composite}	technicalFeatureModel : FeatureModel [0*] {composite}	Editorial change of multiplicity	VehicleLevel (from SystemModeling) «atpStructureElement»
	EAElement (from Elements)	Removed generalization	Feature (from FeatureModeling) «atpStructureElement»
<pre>childNode : FeatureTreeNode [*] {composite}</pre>	childNode : FeatureTreeNode [0*] {composite}	Editorial change of multiplicity	Feature (from FeatureModeling) «atpStructureElement»
No additional attributes	complianceLevel : String [1]	Removed attribute	FeatureModel (from FeatureModeling) «atpStructureElement»
rootFeature : Feature [*] {composite}	rootFeature : Feature [0*] {composite}	Editorial change of multiplicity	FeatureModel (from FeatureModeling) «atpStructureElement»
featureLink : FeatureLink [*] {composite}	featureLink : FeatureLink [0*] {composite}	Editorial change of multiplicity	FeatureModel (from FeatureModeling) «atpStructureElement»
featureConstraint : FeatureConstraint [*] {composite}	featureConstraint : FeatureConstraint [0*] {composite}	Editorial change of multiplicity	FeatureModel (from FeatureModeling) «atpStructureElement»
	[2] A LocalDeviceManager may only interface either Sensors or Actuators.	Removed constraint	LocalDeviceManager (from FunctionModeling)
[2] A LocalDeviceManager shall interface BSWFunctions and DesignFunctions.	[3] A LocalDeviceManager shall interface BSWFunctions and DesignFunctions.	Changed index of constraint	LocalDeviceManager (from FunctionModeling)

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M2.1.10	M2.1.9.20110830	Change	Metaclass
	EAElement (from Elements)	Removed generalization	HardwareComponentPrototype (from HardwareModeling) «atpPrototype»
No additional attributes	resistance : Float [01]	Removed attribute	HardwareConnector (from HardwareModeling) «atpStructureElement»
	EAElement (from Elements)	Removed generalization	LogicalBus (from HardwareModeling) «atpStructuredElement»
SCILAB		Added enumeration literal	FunctionBehaviorKind (from Behavior) «enumeration»
variationGroup : VariationGroup [*] {composite}	variationGroup : VariationGroup [0*] {composite}	Editorial change of multiplicity	ConfigurableContainer (from Variability)
criterion : String [01]	criterion : String [1]	Changed multiplicity of attribute	ConfigurationDecision (from Variability)
[1] Attribute "criterion" or association "selectionCriterion" (or both) must be defined.	No additional constraints	Added constraint	ConfigurationDecision (from Variability)
childEntry: ConfigurationDecisionModelEntry[*] {composite}	childEntry: ConfigurationDecisionModelEntry [0*] {composite}	Editorial change of multiplicity	ConfigurationDecisionFolder (from Variability)
rootEntry: ConfigurationDecisionModelEntry [*] {composite}	rootEntry: ConfigurationDecisionModelEntry [0*] {composite}	Editorial change of multiplicity	ConfigurationDecisionModel (from Variability) {abstract}
sourceVehicleFeatureModel : FeatureModel [*] {ordered}	sourceVehicleFeatureModel : FeatureModel [0*] {ordered}	Editorial change of multiplicity	VehicleLevelBinding (from Variability)
<pre>targetFeatureModel : FeatureModel [*] {ordered}</pre>	targetFeatureModel : FeatureModel [0*] {ordered}	Editorial change of multiplicity	VehicleLevelBinding (from Variability)

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M2.1.10	M2.1.9.20110830	Change	Metaclass
concreteVVCase : VVCase [*]	concreteVVCase : VVCase [0*]	Editorial change of multiplicity	VVCase (from VerificationValidation)
concreteVVProcedure : VVProcedure [*]	concreteVVProcedure : VVProcedure [0*]	Editorial change of multiplicity	VVProcedure (from VerificationValidation)
element : Identifiable [*]	element : Identifiable [0*]	Editorial change of multiplicity	VVTarget (from VerificationValidation)
rootRequirementContainer : RequirementsContainer [*] {ordered} {composite}	rootRequirementContainer : RequirementsContainer [0*] {ordered} {composite}	Editorial change of multiplicity	RIFArea (from Interchange) {abstract}
[1] The direction of the nominal port must be 'out'.	[1] The direction of the nominal port must be out.	Editorial change	FailureOutPort (from ErrorModel)
[1] The direction of the nominal port must be 'in'.	[1] The direction of the nominal port must be in.	Editorial change	FaultInPort (from ErrorModel)
goalDecompositionStrategy : Warrant [*]	goalDecompositionStrategy : Warrant [0*]	Editorial change of multiplicity	Claim (from SafetyCase)
supportedArgument : Warrant [*]	supportedArgument : Warrant [0*]	Editorial change of multiplicity	Claim (from SafetyCase)
safetyRequirement : TraceableSpecification [*]	safetyRequirement : TraceableSpecification [0*]	Editorial change of multiplicity	Claim (from SafetyCase)
safetyEvidence : Identifiable [*]	safetyEvidence : Identifiable [0*]	Editorial change of multiplicity	Ground (from SafetyCase)
safetyCase : SafetyCase [*] {composite}	safetyCase : SafetyCase [0*] {composite}	Editorial change of multiplicity	SafetyCase (from SafetyCase)
evidence : Ground [*]	evidence : Ground [0*]	Editorial change of multiplicity	Warrant (from SafetyCase)
decomposedGoal : Claim [*]	decomposedGoal : Claim [0*]	Editorial change of multiplicity	Warrant (from SafetyCase)
	description : String [01]	Removed attribute	ValueType (from Datatypes) {abstract}

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M2.1.10	M2.1.9.20110830	Change	Metaclass
semantics : String [1]		Added attribute	ValueType (from Datatypes) {abstract}
EAElement (from Elements)	Identifiable (from Identifiable)	Changed generalization	EAPackage (from Elements)
subPackage : EAPackage [*] {composite}	subPackage : EAPackage [0*] {composite}	Editorial change of multiplicity	EAPackage (from Elements)
topLevelPackage : EAPackage [*] {composite}	topLevelPackage : EAPackage [0*] {composite}	Editorial change of multiplicity	EAXML (from Elements)
uaType : UserAttributeElementType [*]	uaType : UserAttributeElementType [0*]	Editorial change of multiplicity	UserAttributeableElement (from UserAttributes)
	description : String [01]	Removed attribute	UserAttributeDefinition (from UserAttributes)
	key : String [1]	Removed attribute	UserAttributeDefinition (from UserAttributes)
	key: String [1]	Removed attribute	UserAttributeValue (from UserAttributes)
semantics : String [01]		Added attribute	UserAttributeValue (from UserAttributes)
definition: UserAttributeDefinition [01]	No additional associations	Added association	UserAttributeValue (from UserAttributes)
isConceptFor : SystemModel [*]	isConceptFor : SystemModel [0*]	Editorial change of multiplicity	ArchitecturalModel (from Needs)
problemStatement : ProblemStatement [*]	problemStatement : ProblemStatement [0*]	Editorial change of multiplicity	BusinessOpportunity (from Needs)
productPositioning : ProductPositioning [*]	productPositioning : ProductPositioning [0*]	Editorial change of multiplicity	BusinessOpportunity (from Needs)
constrainedMode : Mode [*]	constrainedMode : Mode [0*]	Editorial change of multiplicity	BehaviorConstraint (from BehaviorConstraints) {abstract}
constrainedFunctionBehavior : FunctionBehavior [*]	constrainedFunctionBehavior : FunctionBehavior [0*]	Editorial change of multiplicity	BehaviorConstraint (from BehaviorConstraints) {abstract}

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M2.1.10	M2.1.9.20110830	Change	Metaclass
constrainedFunctionTrigger:	constrainedFunctionTrigger:	Editorial change of	BehaviorConstraint (from
FunctionTrigger [*]	FunctionTrigger [0*]	multiplicity	BehaviorConstraints) {abstract}

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## 7 Changes in M2.1.10.20120629 as compared to M2.1.10

Layout adapted and introductory texts explaining the document clarified. No structural changes in the metamodel.

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## 8 Changes in M2.1.11 as compared to M2.1.10

#### M2.1.11 as of 2013-04-02

M2.1.11	M2.1.10	Change	Metaclass/Package
featureParameter : EADatatype [01]	featureParameter : EADatatypePrototype [01] {composite}	Changed association type and containment	Feature (from FeatureModeling) «atpStructureElement»
No additional associations	feature : VehicleFeature [1]	Removed association role name	DeviationAttributeSet (from VehicleFeatureModeling)
None	EAElement (from Elements)	Removed inheritance	AllocateableElement (from FunctionModeling) {abstract}
kind : ClientServerKind [1]	clientServerType : ClientServerKind [1]	Changed attribute name	FunctionClientServerPort (from FunctionModeling)
EAConnector (from Elements)		Added inheritance	FunctionConnector (from FunctionModeling) «atpStructureElement»
defaultValue : EAValue [01] {composite}		Added association	FunctionFlowPort (from FunctionModeling)
EAPort (from Elements)		Added inheritance	FunctionPort (from FunctionModeling) {abstract} «atpPrototype»
EAPrototype (from Elements)		Added inheritance	FunctionPrototype (from FunctionModeling) {abstract} «atpPrototype»
EAType (from Elements)		Added inheritance	FunctionType (from FunctionModeling) {abstract} «atpType»
[2] A DesignFunctionPrototype		Added constraint	HardwareFunctionType (from
typed by a			FunctionModeling)
HardwareFunctionType may only			
contain prototypes typed by			
HardwareFunctionType.			

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M2.1.11	M2.1.10	Change	Metaclass/Package
ElectricalComponent (from HardwareModeling) «atpType»	PowerSupply (from HardwareModeling)	Changed metaclass name	PowerSupply (from HardwareModeling)
HardwareBusKind (from HardwareModeling) «enumeration»		Added metaclass	HardwareBusKind (from HardwareModeling) «enumeration»
Generalizations		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
None		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
Enumeration Literals		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
EventTriggered		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
other		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
TimeAndEventTriggered		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
TimeTriggered		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
Associations		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
No additional associations		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
Constraints		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
No additional constraints		ditto	HardwareBusKind (from HardwareModeling) «enumeration»
EAPrototype (from Elements)		Added inheritance	HardwareComponentPrototype (from HardwareModeling) «atpPrototype»

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M2.1.11	M2.1.10	Change	Metaclass/Package
EAType (from Elements)		Added inheritance	HardwareComponentType (from HardwareModeling) «atpType»
portConnector : HardwarePortConnector [*] {composite}		Added association	HardwareComponentType (from HardwareModeling) «atpType»
	<pre>portGroup : HardwarePinGroup [*] {composite}</pre>	Removed association	HardwareComponentType (from HardwareModeling) «atpType»
pin : HardwarePin [*] {composite}	port : HardwarePin [*] {composite}	Changed association role name	HardwareComponentType (from HardwareModeling) «atpType»
port : HardwarePort [*] {composite}		Added association	HardwareComponentType (from HardwareModeling) «atpType»
	bus : LogicalBus [*] {composite}	Removed association	HardwareComponentType (from HardwareModeling) «atpType»
EAConnector (from Elements)		Added inheritance	HardwareConnector (from HardwareModeling) «atpStructureElement»
pin : HardwarePin [2]	port : HardwarePin [2]	Changed association role name	HardwareConnector (from HardwareModeling) «atpStructureElement»
EAPort (from Elements)		Added inheritance	HardwarePin (from HardwareModeling) {abstract} «atpStructureElement»
	impedance : Float [01]	Removed attribute	HardwarePin (from HardwareModeling) {abstract} «atpStructureElement»
	power : Float [01]	Removed attribute	HardwarePin (from HardwareModeling) {abstract} «atpStructureElement»
	voltage : Float [01]	Removed attribute	HardwarePin (from HardwareModeling) {abstract} «atpStructureElement»
	HardwarePinGroup (from HardwareModeling)	Removed metaclass	HardwarePinGroup (from HardwareModeling)
	Generalizations	ditto	HardwarePinGroup (from HardwareModeling)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	EAElement (from Elements)	ditto	HardwarePinGroup (from
			HardwareModeling)
	Attributes	ditto	HardwarePinGroup (from
			HardwareModeling)
	No additional attributes	ditto	HardwarePinGroup (from
			HardwareModeling)
	Associations	ditto	HardwarePinGroup (from
			HardwareModeling)
	portGroup : HardwarePinGroup [*]	ditto	HardwarePinGroup (from
	{composite}		HardwareModeling)
	port : HardwarePin [*]	ditto	HardwarePinGroup (from
			HardwareModeling)
	Constraints	ditto	HardwarePinGroup (from
			HardwareModeling)
	No additional constraints	ditto	HardwarePinGroup (from
			HardwareModeling)
HardwarePort (from		Added metaclass	HardwarePort (from HardwareModeling)
HardwareModeling)			«atpStructureElement»
«atpStructureElement»			
Generalizations		ditto	HardwarePort (from HardwareModeling)
			«atpStructureElement»
AllocationTarget (from		ditto	HardwarePort (from HardwareModeling)
HardwareModeling)			«atpStructureElement»
EAPort (from Elements)		ditto	HardwarePort (from HardwareModeling)
			«atpStructureElement»
Attributes		ditto	HardwarePort (from HardwareModeling)
Attributes		uitto	«atpStructureElement»
to Chitable Develope (41)		Pri	· ·
isShield : Boolean [1]		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
Associations		ditto	HardwarePort (from HardwareModeling)
			«atpStructureElement»

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M2.1.11	M2.1.10	Change	Metaclass/Package
containedPin : HardwarePin [*] {composite}		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
referencedPin : HardwarePin [*]		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
containedPort : HardwarePort [*] {composite}		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
Constraints		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
No additional constraints		ditto	HardwarePort (from HardwareModeling) «atpStructureElement»
HardwarePortConnector (from HardwareModeling) «atpStructureElement»		Added metaclass	HardwarePortConnector (from HardwareModeling) «atpStructureElement»
Generalizations		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»
AllocationTarget (from HardwareModeling)		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»
EAConnector (from Elements)		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»
Attributes		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»
busSpeed : Float [1]		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»
busType : HardwareBusKind [1]		ditto	HardwarePortConnector (from HardwareModeling)  «atpStructureElement»

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M2.1.11	M2.1.10	Change	Metaclass/Package
Associations		ditto	HardwarePortConnector (from
			HardwareModeling)
			«atpStructureElement»
connector : HardwareConnector [*]		ditto	HardwarePortConnector (from
{composite}			HardwareModeling)
			«atpStructureElement»
Dependencies		ditto	HardwarePortConnector (from
			HardwareModeling)
			«atpStructureElement»
oort : HardwarePort [2]		ditto	HardwarePortConnector (from
			HardwareModeling)
			«atpStructureElement»
«instanceRef»		ditto	HardwarePortConnector (from
who can bot to!"			HardwareModeling)
			«atpStructureElement»
Constraints		ditto	HardwarePortConnector (from
			HardwareModeling)
			«atpStructureElement»
No additional constraints		ditto	HardwarePortConnector (from
			HardwareModeling)
			«atpStructureElement»
	LogicalBus (from	Removed metaclass	LogicalBus (from HardwareModeling)
	HardwareModeling)		«atpStructuredElement»
	«atpStructuredElement»		
	Generalizations	ditto	LogicalBus (from HardwareModeling)
			«atpStructuredElement»
	AllocationTarget (from	ditto	LogicalBus (from HardwareModeling)
	HardwareModeling)		«atpStructuredElement»
	Attributes	ditto	LogicalBus (from HardwareModeling)
			«atpStructuredElement»
	busSpeed : Float [1]	ditto	LogicalBus (from HardwareModeling)
			«atpStructuredElement»

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M2.1.11	M2.1.10	Change	Metaclass/Package
	busType : LogicalBusKind [1]	ditto	LogicalBus (from HardwareModeling) «atpStructuredElement»
	Associations	ditto	LogicalBus (from HardwareModeling) «atpStructuredElement»
	wire : HardwareConnector [*]	ditto	LogicalBus (from HardwareModeling) «atpStructuredElement»
	Constraints	ditto	LogicalBus (from HardwareModeling) «atpStructuredElement»
	No additional constraints	ditto	LogicalBus (from HardwareModeling) «atpStructuredElement»
	LogicalBusKind (from HardwareModeling) «enumeration»	Removed metaclass	LogicalBusKind (from HardwareModeling) «enumeration»
	Generalizations	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	None	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	Enumeration Literals	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	EventTriggered	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	other	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	TimeandEventTriggered	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	TimeTriggered	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	Associations	ditto	LogicalBusKind (from HardwareModeling) «enumeration»

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M2.1.11	M2.1.10	Change	Metaclass/Package
	No additional associations	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	Constraints	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	No additional constraints	ditto	LogicalBusKind (from HardwareModeling) «enumeration»
	nonVolatileMemory : Integer [1]	Removed attribute	Node (from HardwareModeling)
	volatileMemory : Integer [01]	Removed attribute	Node (from HardwareModeling)
[2] Can connect two	[2] Can connect two	Changed constraint	ClampConnector (from Environment)
FunctionClientServerPorts of	ClientServerPorts of different kind.		«atpStructureElement»
different clientServerType.			
EAExpression (from Values)		Added inheritance	FunctionTrigger (from Behavior)
	triggerCondition : String [1]	Removed attribute	FunctionTrigger (from Behavior)
[4] Only FunctionFlowPort of	[4] Only FunctionFlowPort of	Changed constraint	FunctionTrigger (from Behavior)
FlowDirection=in shall be referred	FlowDirection=in shall be referred		
to in the association port.	to in the association port and at		
	least one of them shall trigger the		
	function		
<pre>privateContent : PrivateContent [*] {composite}</pre>		Added association	ConfigurableContainer (from Variability)
EAExpression (from Values)	FormulaExpression (from FormulaLanguage)	Changed inheritance	SelectionCriterion (from Variability)
<pre>decisionModel : VehicleLevelBinding [*] {composite}</pre>	decisionModel : VehicleLevelBinding [*]	Doc generation changed	Variability (from Variability)
[1] Identifies either one	[1] Identifies either one	Changed constraint	VariableElement (from Variability)
FunctionPrototype or one	FunctionPrototype or one		
FunctionPort or one	FunctionPort or one		

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M2.1.11	M2.1.10	Change	Metaclass/Package
FunctionConnector or one	FunctionConnector or one		
HardwareComponentPrototype or	HardwareComponentPrototype or		
one HardwarePin or one	one HardwarePort or one		
ClampConnector.	ClampConnector.		
[2] The	[2] The	Minor editorial change	VehicleLevelBinding (from Variability)
sourceVehicleFeatureModels	sourceVehicleFeatureModels shall		
shall be different from the	be different from the		
targetFeatureModels.	targetFeatureModels		
kind : QualityRequirementKind [1]	qualityRequirementType : QualityRequirementKind [1]	Changed attribute name	QualityRequirement (from Requirements)
TraceableSpecification (from	RequirementSpecificationObject	Changed inheritance	Requirement (from Requirements)
Elements)  RequirementsHierarchy (from	(from Requirements)  RequirementsContainer (from	Changed metaclass name	RequirementsContainer (from
Requirements)	Requirements)	Changea metaciass name	Requirements)
containedRequirement :	containedReqSpecObject :	Changed association role name	RequirementsContainer (from
Requirement [01]	RequirementSpecificationObject [01]	and type	Requirements)
childHierarchy :	childContainer :	Changed association role name	RequirementsContainer (from
RequirementsHierarchy [*] {ordered} {composite}	RequirementsContainer [*] {ordered} {composite}	and type name	Requirements)
	parentContainer : RequirementsContainer [01]	Removed association	RequirementsContainer (from Requirements)
[1] Only non-root	[1] Only non-root	Changed constraint	RequirementsContainer (from
RequirementsHierarchy which is	RequirementContainers		Requirements)
contained in another	(parentContainer must be set)		
RequirementHierarchy are	which have a parentContainer are		
allowed to reference a	allowed to reference a		

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M2.1.11	M2.1.10	Change	Metaclass/Package
Requirement.	RequirementSpecificationObject.		
requirementsRelationshipGroup: RequirementsRelationshipGroup[*] {composite}		Added association	RequirementsModel (from Requirements)
requirement : Requirement [*] {composite}	requirement : RequirementSpecificationObject [*] {composite}	Changed association type	RequirementsModel (from Requirements)
requirementsHierarchy: RequirementsHierarchy[*] {ordered} {composite}	requirementContainer: RequirementsContainer[*] {composite}	Changed association role name and type name	RequirementsModel (from Requirements)
requirementType : UserElementType [*] {composite}		Added association	RequirementsModel (from Requirements)
[1] The validFor attribute of the	No additional constraints	Added constraint	RequirementsModel (from Requirements)
UserElementType shall be			
"Requirement".			
	RequirementSpecificationObject (from Requirements) {abstract}	Removed metaclass	RequirementSpecificationObject (from Requirements) {abstract}
	Generalizations	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	TraceableSpecification (from Elements)	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	Attributes	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	No additional attributes	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	Associations	ditto	RequirementSpecificationObject (from Requirements) {abstract}

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M2.1.11	M2.1.10	Change	Metaclass/Package
	referencingContainer: RequirementsContainer [1*]	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	Constraints	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	No additional constraints	ditto	RequirementSpecificationObject (from Requirements) {abstract}
	RequirementsRelatedInformation (from Requirements)	Removed metaclass	RequirementsRelatedInformation (from Requirements)
	Generalizations	ditto	RequirementsRelatedInformation (from Requirements)
	RequirementSpecificationObject (from Requirements)	ditto	RequirementsRelatedInformation (from Requirements)
	Attributes	ditto	RequirementsRelatedInformation (from Requirements)
	No additional attributes	ditto	RequirementsRelatedInformation (from Requirements)
	Associations	ditto	RequirementsRelatedInformation (from Requirements)
	No additional associations	ditto	RequirementsRelatedInformation (from Requirements)
	Constraints	ditto	RequirementsRelatedInformation (from Requirements)
	No additional constraints	ditto	RequirementsRelatedInformation (from Requirements)
RequirementsRelationshipGroup (from Requirements)	RequirementsRelationGroup (from Requirements)	Changed metaclass name	RequirementsRelationGroup (from Requirements)
requirementsRelationship: RequirementsRelationship[1*]	relation : RequirementsLink [1*]	Changed association role name and type name	RequirementsRelationGroup (from Requirements)
	extension : UseCase [1]	Removed association role	Extend (from UseCases)

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M2.1.11	M2.1.10	Change	Metaclass/Package
		name	
No additional associations	useCase : UseCase [1]	Removed association role name	ExtensionPoint (from UseCases)
	includingCase : UseCase [1]	Removed association role name	Include (from UseCases)
vvTarget : VVTarget [*]	vvTarget : VVTarget [1*]	Changed association multiplicity	VVCase (from VerificationValidation)
	vvSubject : Identifiable [1*]	Changed association to dependency	VVCase (from VerificationValidation)
	concreteVVCase : VVCase [*]	Removed association	VVCase (from VerificationValidation)
Dependencies		Added dependency	VVCase (from VerificationValidation)
vvSubject : Identifiable [*]		Added dependency	VVCase (from VerificationValidation)
«instanceRef»		Added dependency	VVCase (from VerificationValidation)
[1] Only a concrete VVCase can	No additional constraints	Added constraint	VVCase (from VerificationValidation)
have vvLog.			
[2] Only a concrete VVCase can		Added constraint	VVCase (from VerificationValidation)
have vvTarget.			
[3] Only a concrete VVCase can		Added constraint	VVCase (from VerificationValidation)
have an abstractVVCase.			
	concreteVVProcedure : VVProcedure [*]	Removed association	VVProcedure (from VerificationValidation)
[1] Only a concrete VVProcedure	No additional constraints	Added constraint	VVProcedure (from VerificationValidation)
can have vvStimuli.			
[2] Only a concrete VVProcedure		Added constraint	VVProcedure (from VerificationValidation)
can have vvIntendedOutcome.			
[3] Only a concrete VVProcedure		Added constraint	VVProcedure (from VerificationValidation)
can have an			

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M2.1.11	M2.1.10	Change	Metaclass/Package	
abstractVVProcedure .				
No additional associations	element : Identifiable [*]	Changed association to dependency	VVTarget (from VerificationValidation)	
Dependencies		Added dependency	VVTarget (from VerificationValidation)	
element : Identifiable [*]		Added dependency	VVTarget (from VerificationValidation)	
«instanceRef»		Added dependency	VVTarget (from VerificationValidation)	
	Interchange	Removed package	Interchange	
	RIFArea (from Interchange) {abstract}	Removed metaclass	RIFArea (from Interchange) {abstract}	
	Generalizations	ditto	RIFArea (from Interchange) {abstract}	
	Context (from Elements)	ditto	RIFArea (from Interchange) {abstract}	
	Attributes	ditto	RIFArea (from Interchange) {abstract}	
	No additional attributes	ditto	RIFArea (from Interchange) {abstract}	
	Associations	ditto	RIFArea (from Interchange) {abstract}	
	rootRequirementContainer: RequirementsContainer[*] {ordered} {composite}	ditto	RIFArea (from Interchange) {abstract}	
	<pre>interchangeReqSpecObject :    RequirementSpecificationObject [*] {composite}</pre>	ditto	RIFArea (from Interchange) {abstract}	
	userDefinedType: UserAttributeElementType[*] {composite}	ditto	RIFArea (from Interchange) {abstract}	
	Constraints	ditto	RIFArea (from Interchange) {abstract}	
	No additional constraints	ditto	RIFArea (from Interchange) {abstract}	
	RIFExportArea (from Interchange)	Removed metaclass	RIFExportArea (from Interchange)	
	Generalizations	ditto	RIFExportArea (from Interchange)	
	RIFArea (from Interchange)	ditto	RIFExportArea (from Interchange)	

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M2.1.11	M2.1.10	Change	Metaclass/Package
	Attributes	ditto	RIFExportArea (from Interchange)
	No additional attributes	ditto	RIFExportArea (from Interchange)
	Associations	ditto	RIFExportArea (from Interchange)
	No additional associations	ditto	RIFExportArea (from Interchange)
	Constraints	ditto	RIFExportArea (from Interchange)
	No additional constraints	ditto	RIFExportArea (from Interchange)
	RIFImportArea (from Interchange)	Removed metaclass	RIFImportArea (from Interchange)
	Generalizations	ditto	RIFImportArea (from Interchange)
	RIFArea (from Interchange)	ditto	RIFImportArea (from Interchange)
	Attributes	ditto	RIFImportArea (from Interchange)
	No additional attributes	ditto	RIFImportArea (from Interchange)
	Associations	ditto	RIFImportArea (from Interchange)
	No additional associations		RIFImportArea (from Interchange)
	Constraints	ditto	RIFImportArea (from Interchange)
	No additional constraints	ditto	RIFImportArea (from Interchange)
No additional attributes	isStateChange : Boolean = true [1]	Removed attribute	Event (from Timing) {abstract}
No additional constraints	[1] In the case that the event	Removed constraint	Event (from Timing) {abstract}
	reports a [current] state		
	(isStateChange is FALSE), the		
	event must have a periodic event		
	model [or a pattern model].		
	Rationale: The [current] state shall		
	be reported consistently and		
	periodically.		5 (0) (6 7)
stimulus : Event [1]	stimulus : Event [1*]	Changed association multiplicity	EventChain (from Timing)

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M2.1.11	M2.1.10	Change	Metaclass/Package
response : Event [1]	response : Event [1*]	Changed association multiplicity	EventChain (from Timing)
	strand : EventChain [*]	Removed association	EventChain (from Timing)
No additional constraints	[1] The cardinality of strand shall be either 0 or greater than 1.	Removed constraint	EventChain (from Timing)
	Rationale: Only values > 1 express true parallelism.		
	ExecutionTimeConstraint (from Timing)	Removed metaclass	ExecutionTimeConstraint (from Timing)
	Generalizations	ditto	ExecutionTimeConstraint (from Timing)
	TimingConstraint (from Timing)	ditto	ExecutionTimeConstraint (from Timing)
	Attributes	ditto	ExecutionTimeConstraint (from Timing)
	No additional attributes	ditto	ExecutionTimeConstraint (from Timing)
	Associations	ditto	ExecutionTimeConstraint (from Timing)
	targetDesignFunction : DesignFunctionType [01]	ditto	ExecutionTimeConstraint (from Timing)
	targetDesignFunctionPrototype : DesignFunctionPrototype [01]	ditto	ExecutionTimeConstraint (from Timing)
	variation : TimeDuration [1] {composite}	ditto	ExecutionTimeConstraint (from Timing)
	Constraints	ditto	ExecutionTimeConstraint (from Timing)
	[1] An ExecutionTimeConstraint	ditto	ExecutionTimeConstraint (from Timing)
	either identifies a FunctionType or		
	a FunctionPrototype as its target		
	function.		
	[2] variation shall be a value	ditto	ExecutionTimeConstraint (from Timing)
	between 0 and upper-lower.		

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M2.1.11	M2.1.10	Change	Metaclass/Package
	TimeDuration (from Timing)	Removed metaclass	TimeDuration (from Timing)
	Generalizations	ditto	TimeDuration (from Timing)
	EAElement (from Elements)	ditto	TimeDuration (from Timing)
	Attributes	ditto	TimeDuration (from Timing)
	cseCode : CseCodeType = Time [1]	ditto	TimeDuration (from Timing)
	cseCodeFactor : Integer = 1 [1]	ditto	TimeDuration (from Timing)
	value : Float = 0.0 [1]	ditto	TimeDuration (from Timing)
	Associations	ditto	TimeDuration (from Timing)
	No additional associations	ditto	TimeDuration (from Timing)
	Constraints	ditto	TimeDuration (from Timing)
	No additional constraints	ditto	TimeDuration (from Timing)
<pre>constraint : TimingConstraint [*] {composite}</pre>	timingConstraint : TimingConstraint [*] {composite}	Changed association role name	Timing (from Timing)
<pre>description : TimingDescription [*] {composite}</pre>	timingDescription : TimingDescription [*] {composite}	Changed association role name	Timing (from Timing)
mode : Mode [01]	mode : Mode [*]	Changed association multiplicity	TimingConstraint (from Timing) {abstract}
	upper: TimeDuration [01] {composite}	Removed association	TimingConstraint (from Timing) {abstract}
	lower : TimeDuration [01] {composite}	Removed association	TimingConstraint (from Timing) {abstract}
No additional constraints	[1] upper shall be greater or equal to lower.	Removed constraint	TimingConstraint (from Timing) {abstract}
TimingExpression (from Timing)		Added metaclass	TimingExpression (from Timing) {abstract}
Generalizations		ditto	TimingExpression (from Timing) {abstract}
EAExpression (from Values)		ditto	TimingExpression (from Timing) {abstract}
Attributes		ditto	TimingExpression (from Timing) {abstract}
No additional attributes		ditto	TimingExpression (from Timing) {abstract}
Associations		ditto	TimingExpression (from Timing) {abstract}
			•

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M2.1.11	M2.1.10	Change	Metaclass/Package
No additional associations		ditto	TimingExpression (from Timing) {abstract}
Constraints		ditto	TimingExpression (from Timing) {abstract}
No additional constraints		ditto	TimingExpression (from Timing) {abstract}
AgeConstraint (from TimingConstraints)	AgeTimingConstraint (from TimingConstraints)	Renamed metaclass	AgeTimingConstraint (from TimingConstraints)
TimingConstraint (from Timing)	DelayConstraint (from TimingConstraints)	Changed inheritance	AgeTimingConstraint (from TimingConstraints)
scope : EventChain [1]	No additional associations	Added association	AgeTimingConstraint (from TimingConstraints)
maximum : TimingExpression [01] {composite}		Added association	AgeTimingConstraint (from TimingConstraints)
minimum : TimingExpression [01] {composite}		Added association	AgeTimingConstraint (from TimingConstraints)
ArbitraryConstraint (from TimingConstraints)	ArbitraryEventConstraint (from TimingConstraints)	Renamed metaclass	ArbitraryEventConstraint (from TimingConstraints)
TimingConstraint (from Timing)	EventConstraint (from TimingConstraints)	Changed inheritance	ArbitraryEventConstraint (from TimingConstraints)
event : Event [1]		Added association	ArbitraryEventConstraint (from TimingConstraints)
maximum : TimingExpression [1*] {composite}	maximumInterArrivalTime: TimeDuration [1*] {composite}	Changed association role name and type	ArbitraryEventConstraint (from TimingConstraints)
minimum: TimingExpression [1*] {composite}	minimumInterArrivalTime : TimeDuration [1*] {composite}	Changed association role name and type	ArbitraryEventConstraint (from TimingConstraints)
[1] The number of elements in minimum and maximum must be	[1] The number of elements in the sets minimum inter-arrival time	Changed constraint	ArbitraryEventConstraint (from TimingConstraints)
equal.	and maximum inter-arrival time must be the same. Rationale:		
	Consistent specification of arrival times.		

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M2.1.11	M2.1.10	Change	Metaclass/Package
BurstConstraint (from		Added metaclass	BurstConstraint (from TimingConstraints)
TimingConstraints)			
Generalizations		ditto	BurstConstraint (from TimingConstraints)
TimingConstraint (from Timing)		ditto	BurstConstraint (from TimingConstraints)
Attributes		ditto	BurstConstraint (from TimingConstraints)
maxOccurences : Integer [1]		ditto	BurstConstraint (from TimingConstraints)
Associations		ditto	BurstConstraint (from TimingConstraints)
event : Event [1]		ditto	BurstConstraint (from TimingConstraints)
length: TimingExpression [1] {composite}		ditto	BurstConstraint (from TimingConstraints)
minimum: TimingExpression [01] {composite}		ditto	BurstConstraint (from TimingConstraints)
Constraints		ditto	BurstConstraint (from TimingConstraints)
No additional constraints		ditto	BurstConstraint (from TimingConstraints)
ComparisonConstraint (from TimingConstraints)		Added metaclass	ComparisonConstraint (from TimingConstraints)
Generalizations		ditto	ComparisonConstraint (from TimingConstraints)
None		ditto	ComparisonConstraint (from TimingConstraints)
Attributes		ditto	ComparisonConstraint (from TimingConstraints)
operator : ComparisonKind [1]		ditto	ComparisonConstraint (from TimingConstraints)
Associations		ditto	ComparisonConstraint (from TimingConstraints)
rightOperand : TimingExpression [1] {composite}		ditto	ComparisonConstraint (from TimingConstraints)
leftOperand : TimingExpression [1] {composite}		ditto	ComparisonConstraint (from TimingConstraints)
Constraints		ditto	ComparisonConstraint (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
			TimingConstraints)
No additional constraints		ditto	ComparisonConstraint (from TimingConstraints)
ComparisonKind (from TimingConstraints) «enumeration»		Added metaclass	ComparisonKind (from TimingConstraints) «enumeration»
Generalizations		ditto	ComparisonKind (from TimingConstraints) «enumeration»
None		ditto	ComparisonKind (from TimingConstraints) «enumeration»
Enumeration Literals		ditto	ComparisonKind (from TimingConstraints) «enumeration»
equal		ditto	ComparisonKind (from TimingConstraints) «enumeration»
greaterThan		ditto	ComparisonKind (from TimingConstraints) «enumeration»
greaterThanOrEqual		ditto	ComparisonKind (from TimingConstraints) «enumeration»
lessThan		ditto	ComparisonKind (from TimingConstraints) «enumeration»
lessThanOrEqual		ditto	ComparisonKind (from TimingConstraints) «enumeration»
Associations		ditto	ComparisonKind (from TimingConstraints) «enumeration»
No additional associations		ditto	ComparisonKind (from TimingConstraints) «enumeration»
Constraints		ditto	ComparisonKind (from TimingConstraints) «enumeration»
No additional constraints		ditto	ComparisonKind (from TimingConstraints) «enumeration»

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M2.1.11	M2.1.10	Change	Metaclass/Package
DelayConstraint (from TimingConstraints)	DelayConstraint (from TimingConstraints) {abstract}	Changed metaclass to concrete	DelayConstraint (from TimingConstraints) {abstract}
target : Event [1]		Added association	DelayConstraint (from TimingConstraints) {abstract}
source : Event [1]		Added association	DelayConstraint (from TimingConstraints) {abstract}
lower: TimingExpression [01] {composite}		Added association	DelayConstraint (from TimingConstraints) {abstract}
upper: TimingExpression [01] {composite}		Added association	DelayConstraint (from TimingConstraints) {abstract}
	jitter : TimeDuration [01] {composite}	Removed association	DelayConstraint (from TimingConstraints) {abstract}
	nominal: TimeDuration [01] {composite}	Removed association	DelayConstraint (from TimingConstraints) {abstract}
	scope : EventChain [01]	Removed association	DelayConstraint (from TimingConstraints) {abstract}
No additional constraints	[1] Exactly one of the following combinations of upper, lower, jitter, and nominal shall be specified: {upper, lower}, {upper, lower, jitter}, {upper}, {lower}, {nominal, jitter}.	Removed constraint	DelayConstraint (from TimingConstraints) {abstract}
	Any combination may in addition have a nominal parameter. If nominal is defined, it shall be in the range [lower upper].	ditto	DelayConstraint (from TimingConstraints) {abstract}

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M2.1.11	M2.1.10	Change	Metaclass/Package
	Rationale: At least one value is necessary to describe a	ditto	DelayConstraint (from TimingConstraints) {abstract}
	reasonable DelayConstraint, and		
	the given combinations are		
	sufficient to describe all possible		
	variations.		
ExecutionTimeConstraint (from TimingConstraints)		Added metaclass	ExecutionTimeConstraint (from TimingConstraints)
Generalizations		ditto	ExecutionTimeConstraint (from TimingConstraints)
TimingConstraint (from Timing)		ditto	ExecutionTimeConstraint (from TimingConstraints)
Attributes		ditto	ExecutionTimeConstraint (from TimingConstraints)
No additional attributes		ditto	ExecutionTimeConstraint (from TimingConstraints)
Associations		ditto	ExecutionTimeConstraint (from TimingConstraints)
preemption : Event [0*] {ordered}		ditto	ExecutionTimeConstraint (from TimingConstraints)
stop : Event [1]		ditto	ExecutionTimeConstraint (from TimingConstraints)
start : Event [1]		ditto	ExecutionTimeConstraint (from TimingConstraints)
resume : Event [0*] {ordered}		ditto	ExecutionTimeConstraint (from TimingConstraints)
upper: TimingExpression [01] {composite}		ditto	ExecutionTimeConstraint (from TimingConstraints)
lower: TimingExpression [01] {composite}		ditto	ExecutionTimeConstraint (from TimingConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	ExecutionTimeConstraint (from
			TimingConstraints)
No additional constraints		ditto	ExecutionTimeConstraint (from
			TimingConstraints)
	EventConstraint (from	Removed metaclass	EventConstraint (from TimingConstraints)
	TimingConstraints) {abstract}		{abstract}
	Generalizations	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	TimingConstraint (from Timing)	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	Attributes	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	No additional attributes	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	Associations	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	offset: TimeDuration [01]	ditto	EventConstraint (from TimingConstraints)
	{composite}		{abstract}
	event : Event [01]	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	Constraints	ditto	EventConstraint (from TimingConstraints)
			{abstract}
	No additional constraints	ditto	EventConstraint (from TimingConstraints)
			{abstract}
TimingConstraint (from Timing)	AgeTimingConstraint (from	Changed inheritance	InputSynchronizationConstraint (from
	TimingConstraints)		TimingConstraints)
scope : EventChain [2*]		Added association	InputSynchronizationConstraint (from
<u> </u>			TimingConstraints)
tolerance : TimingExpression [01]	width : TimeDuration [1] {composite}	Changed association role	InputSynchronizationConstraint (from
{composite}		name, type and multiplicity	TimingConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
[1] All scopes must reference one	[1] The set of FunctionFlowPorts	Changed constraint	InputSynchronizationConstraint (from
common response event.	referenced by the events should		TimingConstraints)
	contain only FlowPorts with		
	direction = in. The rationale for this		
	is that the events shall relate to		
	data on FunctionFlowPorts which		
	is considered (or shall be)		
	temporally consistent.		
	[2] The semantics of this	Removed constraint	InputSynchronizationConstraint (from
	constraint requires that there is		TimingConstraints)
	more than one stimulus Event in		
	the scope EventChain (each		
	refering to a different FlowPort		
	with direction = in).		
	[3] The parameters 'nominal' and	Removed constraint	InputSynchronizationConstraint (from
	'jitter' (from DelayConstraint) are		TimingConstraints)
	not relevant for		
	InputSynchronizationConstraint.		
OrderConstraint (from		Added metaclass	OrderConstraint (from TimingConstraints)
TimingConstraints)			
Generalizations		ditto	OrderConstraint (from TimingConstraints)
TimingConstraint (from Timing)		ditto	OrderConstraint (from TimingConstraints)
Attributes		ditto	OrderConstraint (from TimingConstraints)
No additional attributes		ditto	OrderConstraint (from TimingConstraints)
Associations		ditto	OrderConstraint (from TimingConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
source : Event [1]		ditto	OrderConstraint (from TimingConstraints)
target : Event [1]		ditto	OrderConstraint (from TimingConstraints)
Constraints		ditto	OrderConstraint (from TimingConstraints)
No additional constraints		ditto	OrderConstraint (from TimingConstraints)
TimingConstraint (from Timing)	ReactionConstraint (from TimingConstraints)	Changed inheritance	OutputSynchronizationConstraint (from TimingConstraints)
scope : EventChain [2*]		Added association	OutputSynchronizationConstraint (from TimingConstraints)
tolerance : TimingExpression [01] {composite}	width : TimeDuration [1] {composite}	Changed association role name, type and multiplicity	OutputSynchronizationConstraint (from TimingConstraints)
[1] All scopes must reference one	[1] The set of FunctionFlowPorts	Changed constraint	OutputSynchronizationConstraint (from
common stimulus event.	referenced by the events should		TimingConstraints)
	contain only OutFlowPorts. The		
	rationale for this is that the events		
	shall relate to data on		
	FunctionFlowPorts which is		
	considered (or shall be) temporally		
	consistent.		
	[2] The semantics of this	Removed constraint	OutputSynchronizationConstraint (from
	constraint require that there is		TimingConstraints)
	more than one response Events in		
	the scope EventChain.		
	[3] The parameters 'nominal' and	Removed constraint	OutputSynchronizationConstraint (from TimingConstraints)
	'jitter' (from DelayConstraint) are		TitilingConstraints)
	not relevant for		

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M2.1.11	M2.1.10	Change	Metaclass/Package
	OutputSynchronizationConstraint.		
PatternConstraint (from TimingConstraints)	PatternEventConstraint (from TimingConstraints)	Renamed metaclass	PatternEventConstraint (from TimingConstraints)
TimingConstraint (from Timing)	EventConstraint (from TimingConstraints)	Changed inheritance	PatternEventConstraint (from TimingConstraints)
event : Event [1]		Added association	PatternEventConstraint (from TimingConstraints)
<pre>period : TimingExpression [1] {composite}</pre>	period : TimeDuration [1] {composite}	Changed association type	PatternEventConstraint (from TimingConstraints)
<pre>jitter : TimingExpression [01] {composite}</pre>	jitter : TimeDuration [1] {composite}	Changed association type and multiplicity	PatternEventConstraint (from TimingConstraints)
minimum : TimingExpression [01] {composite}	minimumInterArrivalTime : TimeDuration [1] {composite}	Changed association role name, type and multiplicity	PatternEventConstraint (from TimingConstraints)
offset : TimingExpression [1*] {composite}	occurrence : TimeDuration [1*] {ordered} {composite}	Changed association role name, type and multiplicity	PatternEventConstraint (from TimingConstraints)
PeriodicConstraint (from TimingConstraints)	PeriodicEventConstraint (from TimingConstraints)	Renamed metaclass	PeriodicEventConstraint (from TimingConstraints)
TimingConstraint (from Timing)	EventConstraint (from TimingConstraints)	Changed inheritance	PeriodicEventConstraint (from TimingConstraints)
event : Event [1]		Added association	PeriodicEventConstraint (from TimingConstraints)
minimum : TimingExpression [01] {composite}	minimumInterArrivalTime : TimeDuration [1] {composite}	Changed association role name, type and multiplicity	PeriodicEventConstraint (from TimingConstraints)
period : TimingExpression [1] {composite}	period : TimeDuration [1] {composite}	Changed association type	PeriodicEventConstraint (from TimingConstraints)
jitter: TimingExpression [01] {composite}	jitter : TimeDuration [1] {composite}	Changed association type and multiplicity	PeriodicEventConstraint (from TimingConstraints)
TimingConstraint (from Timing)	DelayConstraint (from TimingConstraints)	Changed inheritance	ReactionConstraint (from TimingConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
scope : EventChain [1]	No additional associations	Added association	ReactionConstraint (from
			TimingConstraints)
maximum: TimingExpression [01]		Added association	ReactionConstraint (from
{composite}			TimingConstraints)
minimum: TimingExpression [01]		Added association	ReactionConstraint (from
{composite}			TimingConstraints)
RepetitionConstraint (from		Added metaclass	RepetitionConstraint (from
TimingConstraints)			TimingConstraints)
Generalizations		ditto	RepetitionConstraint (from
			TimingConstraints)
TimingConstraint (from Timing)		ditto	RepetitionConstraint (from
			TimingConstraints)
Attributes		ditto	RepetitionConstraint (from
			TimingConstraints)
span : Integer = 1 [1]		ditto	RepetitionConstraint (from
			TimingConstraints)
Associations		ditto	RepetitionConstraint (from
			TimingConstraints)
event : Event [1]		ditto	RepetitionConstraint (from
			TimingConstraints)
jitter: TimingExpression [01]		ditto	RepetitionConstraint (from
{composite}			TimingConstraints)
lower : TimingExpression [01]		ditto	RepetitionConstraint (from
{composite}			TimingConstraints)
upper: TimingExpression [01]		ditto	RepetitionConstraint (from
{composite}			TimingConstraints)
Constraints		ditto	RepetitionConstraint (from
			TimingConstraints)
No additional constraints		ditto	RepetitionConstraint (from
			TimingConstraints)
SporadicConstraint (from	SporadicEventConstraint (from	Renamed metaclass	SporadicEventConstraint (from
TimingConstraints)	TimingConstraints)		TimingConstraints)
TimingConstraint (from Timing)	EventConstraint (from	Changed inheritance	SporadicEventConstraint (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
	TimingConstraints)		TimingConstraints)
event : Event [1]		Added association	SporadicEventConstraint (from
			TimingConstraints)
lower: TimingExpression [01]		Added association	SporadicEventConstraint (from
{composite}			TimingConstraints)
minimum: TimingExpression [01]		Added association	SporadicEventConstraint (from
{composite}			TimingConstraints)
upper: TimingExpression [01]		Added association	SporadicEventConstraint (from
{composite}			TimingConstraints)
jitter: TimingExpression [01]	jitter : TimeDuration [01]	Changed association type	SporadicEventConstraint (from
{composite}	{composite}		TimingConstraints)
	period : TimeDuration [1]	Removed association	SporadicEventConstraint (from
	{composite}		TimingConstraints)
	maximumInterArrivalTime :	Removed association	SporadicEventConstraint (from
	TimeDuration [01] {composite}		TimingConstraints)
	minimumInterArrivalTime :	Removed association	SporadicEventConstraint (from
	TimeDuration [1] {composite}		TimingConstraints)
StrongDelayConstraint (from		Added metaclass	StrongDelayConstraint (from
TimingConstraints)			TimingConstraints)
Generalizations		ditto	StrongDelayConstraint (from
			TimingConstraints)
TimingConstraint (from Timing)		ditto	StrongDelayConstraint (from
			TimingConstraints)
Attributes		ditto	StrongDelayConstraint (from
			TimingConstraints)
No additional attributes		ditto	StrongDelayConstraint (from
			TimingConstraints)
Associations		ditto	StrongDelayConstraint (from
			TimingConstraints)
source : Event [1]		ditto	StrongDelayConstraint (from
			TimingConstraints)
target : Event [1]		ditto	StrongDelayConstraint (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
			TimingConstraints)
lower: TimingExpression [01]		ditto	StrongDelayConstraint (from
{composite}			TimingConstraints)
upper: TimingExpression [01]		ditto	StrongDelayConstraint (from
{composite}			TimingConstraints)
Constraints		ditto	StrongDelayConstraint (from
			TimingConstraints)
No additional constraints		ditto	StrongDelayConstraint (from
			TimingConstraints)
StrongSynchronizationConstraint		Added metaclass	StrongSynchronizationConstraint (from
(from TimingConstraints)			TimingConstraints)
Generalizations		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
TimingConstraint (from Timing)		ditto	StrongSynchronizationConstraint (from
-			TimingConstraints)
Attributes		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
No additional attributes		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
Associations		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
event : Event [2*]		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
tolerance : TimingExpression [01]		ditto	StrongSynchronizationConstraint (from
{composite}			TimingConstraints)
Constraints		ditto	StrongSynchronizationConstraint (from
			TimingConstraints)
No additional constraints		ditto	StrongSynchronizationConstraint (from
. 10 additional continue			TimingConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
SynchronizationConstraint (from		Added metaclass	SynchronizationConstraint (from
TimingConstraints)			TimingConstraints)
Generalizations		ditto	SynchronizationConstraint (from
			TimingConstraints)
TimingConstraint (from Timing)		ditto	SynchronizationConstraint (from
			TimingConstraints)
Attributes		ditto	SynchronizationConstraint (from
			TimingConstraints)
No additional attributes		ditto	SynchronizationConstraint (from
			TimingConstraints)
Associations		ditto	SynchronizationConstraint (from
			TimingConstraints)
event : Event [2*]		ditto	SynchronizationConstraint (from
			TimingConstraints)
tolerance : TimingExpression [01]		ditto	SynchronizationConstraint (from
{composite}			TimingConstraints)
Constraints		ditto	SynchronizationConstraint (from
			TimingConstraints)
No additional constraints		ditto	SynchronizationConstraint (from
			TimingConstraints)
AUTOSAREvent (from Events)		Added metaclass	AUTOSAREvent (from Events)
Generalizations		ditto	AUTOSAREvent (from Events)
Event (from Timing)		ditto	AUTOSAREvent (from Events)
Attributes		ditto	AUTOSAREvent (from Events)
No additional attributes		ditto	AUTOSAREvent (from Events)
Associations		ditto	AUTOSAREvent (from Events)
ref : TimingDescriptionEvent [1]		ditto	AUTOSAREvent (from Events)
Constraints		ditto	AUTOSAREvent (from Events)
No additional constraints		ditto	AUTOSAREvent (from Events)

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M2.1.11	M2.1.10	Change	Metaclass/Package
EventFaultFailure (from Events)		Added metaclass	EventFaultFailure (from Events)
Generalizations		ditto	EventFaultFailure (from Events)
Event (from Timing)		ditto	EventFaultFailure (from Events)
Attributes		ditto	EventFaultFailure (from Events)
No additional attributes		ditto	EventFaultFailure (from Events)
Associations		ditto	EventFaultFailure (from Events)
faultFailure : FaultFailure [1]		ditto	EventFaultFailure (from Events)
Constraints		ditto	EventFaultFailure (from Events)
No additional constraints		ditto	EventFaultFailure (from Events)
EventFeatureFlaw (from Events)		Added metaclass	EventFeatureFlaw (from Events)
Generalizations		ditto	EventFeatureFlaw (from Events)
Event (from Timing)		ditto	EventFeatureFlaw (from Events)
Attributes		ditto	EventFeatureFlaw (from Events)
No additional attributes		ditto	EventFeatureFlaw (from Events)
Associations		ditto	EventFeatureFlaw (from Events)
featureFlaw : FeatureFlaw [1]		ditto	EventFeatureFlaw (from Events)
Constraints		ditto	EventFeatureFlaw (from Events)
No additional constraints		ditto	EventFeatureFlaw (from Events)
EAExpression (from Values)		Added inheritance	EventFunctionClientServerPort (from Events)
EAExpression (from Values)		Added inheritance	EventFunctionFlowPort (from Events)
ExternalEvent (from Events)		Added metaclass	ExternalEvent (from Events)
Generalizations		ditto	ExternalEvent (from Events)
Event (from Timing)		ditto	ExternalEvent (from Events)
Attributes		ditto	ExternalEvent (from Events)
No additional attributes		Removed attribute	ExternalEvent (from Events)
Associations		ditto	ExternalEvent (from Events)

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M2.1.11	M2.1.10	Change	Metaclass/Package
No additional associations		ditto	ExternalEvent (from Events)
Constraints		ditto	ExternalEvent (from Events)
No additional constraints		ditto	ExternalEvent (from Events)
ModeEvent (from Events)		Added metaclass	ModeEvent (from Events)
Generalizations		ditto	ModeEvent (from Events)
Event (from Timing)		ditto	ModeEvent (from Events)
Attributes		ditto	ModeEvent (from Events)
No additional attributes		ditto	ModeEvent (from Events)
Associations		ditto	ModeEvent (from Events)
start : Mode [*]		ditto	ModeEvent (from Events)
end : Mode [*]		ditto	ModeEvent (from Events)
Constraints		ditto	ModeEvent (from Events)
No additional constraints		ditto	ModeEvent (from Events)
StateEvent (from Events)		NOTE refer to annex, Added metaclass	StateEvent (from Events)
Generalizations		ditto	StateEvent (from Events)
Event (from Timing)		ditto	StateEvent (from Events)
Attributes		ditto	StateEvent (from Events)
No additional attributes		ditto	StateEvent (from Events)
Associations		ditto	StateEvent (from Events)
end : State [01]		ditto	StateEvent (from Events)
start : State [01]		ditto	StateEvent (from Events)
Constraints		ditto	StateEvent (from Events)
No additional constraints		ditto	StateEvent (from Events)
No additional attributes	genericDescription : String [1]	Removed attribute	Anomaly (from ErrorModel) {abstract}
	owner : ErrorModelType [1]	Removed association role name	ErrorBehavior (from ErrorModel)

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M2.1.11	M2.1.10	Change	Metaclass/Package
EAPrototype (from Elements)		Added inheritance	ErrorModelPrototype (from ErrorModel) «atpPrototype»
EAType (from Elements)		Added inheritance	ErrorModelType (from ErrorModel) «atpType»
No additional attributes	genericDescription : String = NA [1]	Removed attribute	ErrorModelType (from ErrorModel) «atpType»
externalFault : FaultInPort [*] {composite}	externalFault : FaultInPort [*]	Doc generation changed	ErrorModelType (from ErrorModel) «atpType»
[1] An ErrorModelType without part shall have one	An ErrorModelType without part shall have one	Minor editorial change	ErrorModelType (from ErrorModel) «atpType»
errorBehaviorDescription.	errorBehaviorDescription		
EAPort (from Elements)		Added inheritance	FaultFailurePort (from ErrorModel) {abstract} «atpPrototype»
EAConnector (from Elements)		Added inheritance	FaultFailurePropagationLink (from ErrorModel)
faultFailureValue : EAValue [1] {composite}	faultFailureValue : EADatatypePrototype [1] {composite}	Changed association type	FaultFailure (from SafetyConstraints)
anomaly : Anomaly [*]	anomaly : Anomaly [01]	Changed association multiplicity	FaultFailure (from SafetyConstraints)
[1] faultFailureValue shall have	No additional constraints	Added constraint	FaultFailure (from SafetyConstraints)
the same datatype as the			
referenced Anomal(ies) or be of			
type EABoolean.			
RequirementsHierarchy (from Requirements)	RequirementsContainer (from Requirements)	Changed inheritance	FunctionalSafetyConcept (from SafetyRequirement)
RequirementsHierarchy (from Requirements)	RequirementsContainer (from Requirements)	Changed inheritance	TechnicalSafetyConcept (from SafetyRequirement)
kind : GenericConstraintKind [1]	genericConstraintType : GenericConstraintKind [1]	Changed attribute name	GenericConstraint (from GenericConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	genericConstraintValue : String [1]	Removed attribute	GenericConstraint (from
			GenericConstraints)
value : EAValue [01] {composite}		Added association	GenericConstraint (from
			GenericConstraints)
current		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
functionAllocationDifferentHW	functionAllocationDifferentNodes	Changed enumeration literal	GenericConstraintKind (from
		name	GenericConstraints) «enumeration»
functionAllocationSameHW	functionAllocationSameNode	Changed enumeration literal	GenericConstraintKind (from
		name	GenericConstraints) «enumeration»
impedance		Added enumeration literal	GenericConstraintKind (from
·			GenericConstraints) «enumeration»
insulation		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
memory		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
nonVolatileMemory		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
realizationDifferent		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
realizationSame		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
utilization		Added enumeration literal	GenericConstraintKind (from
			GenericConstraints) «enumeration»
volatileMemory		Added enumeration literal	GenericConstraintKind (from
-			GenericConstraints) «enumeration»
voltage		Added enumeration literal	GenericConstraintKind (from
-			GenericConstraints) «enumeration»
ArrayDatatype (from Datatypes)		Added metaclass	ArrayDatatype (from Datatypes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
EADatatype (from Datatypes)		ditto	ArrayDatatype (from Datatypes)
Attributes		ditto	ArrayDatatype (from Datatypes)
maxLength : Integer [01]		ditto	ArrayDatatype (from Datatypes)
minLength : Integer [01]		ditto	ArrayDatatype (from Datatypes)
Associations		ditto	ArrayDatatype (from Datatypes)
elementType : EADatatype [1]		ditto	ArrayDatatype (from Datatypes)
		ditto	ArrayDatatype (from Datatypes)
Constraints		ditto	ArrayDatatype (from Datatypes)
No additional constraints		ditto	ArrayDatatype (from Datatypes)
EANumerical (from Datatypes)		Added metaclass	EANumerical (from Datatypes)
Generalizations		ditto	EANumerical (from Datatypes)
EADatatype (from Datatypes)		ditto	EANumerical (from Datatypes)
Attributes		ditto	EANumerical (from Datatypes)
max : Numerical [01]		ditto	EANumerical (from Datatypes)
min : Numerical [01]		ditto	EANumerical (from Datatypes)
Associations		ditto	EANumerical (from Datatypes)
unit : Unit [01]		ditto	EANumerical (from Datatypes)
Constraints		ditto	EANumerical (from Datatypes)
No additional constraints		ditto	EANumerical (from Datatypes)
	EAFloat (from Datatypes)	Removed metaclass	EAFloat (from Datatypes)
	Generalizations	ditto	EAFloat (from Datatypes)
	RangeableDatatype (from Datatypes)	ditto	EAFloat (from Datatypes)
	Attributes	ditto	EAFloat (from Datatypes)
	max : Float [01]	ditto	EAFloat (from Datatypes)
	min : Float [01]	ditto	EAFloat (from Datatypes)
	Associations	ditto	EAFloat (from Datatypes)
	No additional associations	ditto	EAFloat (from Datatypes)
	Constraints	ditto	EAFloat (from Datatypes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	No additional constraints	ditto	EAFloat (from Datatypes)
	EAInteger (from Datatypes)	Removed metaclass	EAInteger (from Datatypes)
	Generalizations	ditto	EAInteger (from Datatypes)
	RangeableDatatype (from Datatypes)	ditto	EAInteger (from Datatypes)
	Attributes	ditto	EAInteger (from Datatypes)
	max : Integer [01]	ditto	EAInteger (from Datatypes)
	min : Integer [01]	ditto	EAInteger (from Datatypes)
	Associations	ditto	EAInteger (from Datatypes)
	No additional associations	ditto	EAInteger (from Datatypes)
	Constraints	ditto	EAInteger (from Datatypes)
	No additional constraints	ditto	EAInteger (from Datatypes)
isMultiValued : Boolean [1]	No additional attributes	Added attribute	Enumeration (from Datatypes)
Quantity (from Datatypes)		Added metaclass	Quantity (from Datatypes)
Generalizations		ditto	Quantity (from Datatypes)
EAPackageableElement (from Elements)		ditto	Quantity (from Datatypes)
Attributes		ditto	Quantity (from Datatypes)
amountOfSubstanceExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
electricCurrentExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
lengthExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
luminousIntensityExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
massExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
thermodynamicTemperatureExp: Integer = 0 [1]		ditto	Quantity (from Datatypes)
timeExp : Integer = 0 [1]		ditto	Quantity (from Datatypes)
Associations		ditto	Quantity (from Datatypes)
No additional associations		ditto	Quantity (from Datatypes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	Quantity (from Datatypes)
No additional constraints		ditto	Quantity (from Datatypes)
	EnumerationValueType (from Datatypes)	Removed metaclass	EnumerationValueType (from Datatypes)
	Generalizations	ditto	EnumerationValueType (from Datatypes)
	ValueType (from Datatypes)	ditto	EnumerationValueType (from Datatypes)
	Attributes	ditto	EnumerationValueType (from Datatypes)
	isMultiValued : Boolean [1]	ditto	EnumerationValueType (from Datatypes)
	literalSemantics : String [2*]	ditto	EnumerationValueType (from Datatypes)
	Associations	ditto	EnumerationValueType (from Datatypes)
	baseEnumeration : Enumeration [1]	ditto	EnumerationValueType (from Datatypes)
	Constraints	ditto	EnumerationValueType (from Datatypes)
	No additional constraints	ditto	EnumerationValueType (from Datatypes)
	RangeableDatatype (from Datatypes) {abstract}	Removed metaclass	RangeableDatatype (from Datatypes) {abstract}
	Generalizations	ditto	RangeableDatatype (from Datatypes) {abstract}
	EADatatype (from Datatypes)	ditto	RangeableDatatype (from Datatypes) {abstract}
	Attributes	ditto	RangeableDatatype (from Datatypes) {abstract}
	No additional attributes	ditto	RangeableDatatype (from Datatypes) {abstract}
	Associations	ditto	RangeableDatatype (from Datatypes) {abstract}
	No additional associations	ditto	RangeableDatatype (from Datatypes) {abstract}
	Constraints	ditto	RangeableDatatype (from Datatypes) {abstract}
	No additional constraints	ditto	RangeableDatatype (from Datatypes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
			{abstract}
EADatatype (from Datatypes)	ValueType (from Datatypes)	Changed inheritance	RangeableValueType (from Datatypes)
baseRangeable : EANumerical [1]	baseRangeable : RangeableDatatype [1]	Changed association type	RangeableValueType (from Datatypes)
	ValueType (from Datatypes) {abstract}	Removed metaclass	ValueType (from Datatypes) {abstract}
	Generalizations	ditto	ValueType (from Datatypes) {abstract}
	EADatatype (from Datatypes)	ditto	ValueType (from Datatypes) {abstract}
	Attributes	ditto	ValueType (from Datatypes) {abstract}
	dimension : String [01]	ditto	ValueType (from Datatypes) {abstract}
	semantics : String [1]	ditto	ValueType (from Datatypes) {abstract}
	unit : String [01]	ditto	ValueType (from Datatypes) {abstract}
	Associations	ditto	ValueType (from Datatypes) {abstract}
	No additional associations	ditto	ValueType (from Datatypes) {abstract}
	Constraints	ditto	ValueType (from Datatypes) {abstract}
	No additional constraints	ditto	ValueType (from Datatypes) {abstract}
Unit (from Datatypes)		Added metaclass	Unit (from Datatypes)
Generalizations		ditto	Unit (from Datatypes)
EAPackageableElement (from Elements)		ditto	Unit (from Datatypes)
Attributes		ditto	Unit (from Datatypes)
factor : Float [1]		ditto	Unit (from Datatypes)
offset : Float [1]		ditto	Unit (from Datatypes)
symbol : String [1]		ditto	Unit (from Datatypes)
Associations		ditto	Unit (from Datatypes)
quantity : Quantity [01]		ditto	Unit (from Datatypes)
reference : Unit [01]		ditto	Unit (from Datatypes)
Constraints		ditto	Unit (from Datatypes)
No additional constraints		ditto	Unit (from Datatypes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Values		Added package	Values
EAArrayValue (from Values)		Added metaclass	EAArrayValue (from Values)
Generalizations		ditto	EAArrayValue (from Values)
EAValue (from Values)		ditto	EAArrayValue (from Values)
Attributes		ditto	EAArrayValue (from Values)
No additional attributes		ditto	EAArrayValue (from Values)
Associations		ditto	EAArrayValue (from Values)
value : EAValue [*] {ordered} {composite}		ditto	EAArrayValue (from Values)
Constraints		ditto	EAArrayValue (from Values)
[1] Shall be typed by an		ditto	EAArrayValue (from Values)
ArrayDatatype.			
EABooleanValue (from Values)		Added metaclass	EABooleanValue (from Values)
Generalizations		ditto	EABooleanValue (from Values)
EAValue (from Values)		ditto	EABooleanValue (from Values)
Attributes		ditto	EABooleanValue (from Values)
value : Boolean [1]		ditto	EABooleanValue (from Values)
Associations		ditto	EABooleanValue (from Values)
No additional associations		ditto	EABooleanValue (from Values)
Constraints		ditto	EABooleanValue (from Values)
[1] Shall be typed by an		ditto	EABooleanValue (from Values)
EABoolean.			
EACompositeValue (from Values)		Added metaclass	EACompositeValue (from Values)
Generalizations		ditto	EACompositeValue (from Values)
EAValue (from Values)		ditto	EACompositeValue (from Values)
Attributes		ditto	EACompositeValue (from Values)

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M2.1.11	M2.1.10	Change	Metaclass/Package
No additional attributes		ditto	EACompositeValue (from Values)
Associations		ditto	EACompositeValue (from Values)
value : EAValue [1*] {ordered} {composite}		ditto	EACompositeValue (from Values)
Constraints		ditto	EACompositeValue (from Values)
[1] Shall be typed by an		ditto	EACompositeValue (from Values)
CompositeDatatype.			
[2] The values in this		ditto	EACompositeValue (from Values)
EACompositeValue shall be typed			
and ordered in the same way as			
the EADatatypePrototypes in the			
typing CompositeDatatype.			
EAEnumerationValue (from Values)		Added metaclass	EAEnumerationValue (from Values)
Generalizations		ditto	EAEnumerationValue (from Values)
EAValue (from Values)		ditto	EAEnumerationValue (from Values)
Attributes		ditto	EAEnumerationValue (from Values)
No additional attributes		ditto	EAEnumerationValue (from Values)
Associations		ditto	EAEnumerationValue (from Values)
value : EnumerationLiteral [1*]		ditto	EAEnumerationValue (from Values)
Constraints		ditto	EAEnumerationValue (from Values)
[1] Shall be typed by an		ditto	EAEnumerationValue (from Values)
Enumeration or an			
EnumerationValueType.			
EAExpression (from Values) «atpMixedString»		Added metaclass	EAExpression (from Values) «atpMixedString»
Generalizations		ditto	EAExpression (from Values)
	•	•	·

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M2.1.11	M2.1.10	Change	Metaclass/Package
			«atpMixedString»
EAValue (from Values)		ditto	EAExpression (from Values)
			«atpMixedString»
Attributes		ditto	EAExpression (from Values)
			«atpMixedString»
No additional attributes		ditto	EAExpression (from Values)
Associations		ditto	«atpMixedString»  EAExpression (from Values)
Associations		ditto	«atpMixedString»
No additional associations		ditto	EAExpression (from Values)
INO additional associations			«atpMixedString»
Constraints		ditto	EAExpression (from Values)
			«atpMixedString»
No additional constraints		ditto	EAExpression (from Values)
			«atpMixedString»
EANumericalValue (from Values)		Added metaclass	EANumericalValue (from Values)
Generalizations		ditto	EANumericalValue (from Values)
EAValue (from Values)		ditto	EANumericalValue (from Values)
Attributes		ditto	EANumericalValue (from Values)
value : Numerical [1]		ditto	EANumericalValue (from Values)
Associations		ditto	EANumericalValue (from Values)
No additional associations		ditto	EANumericalValue (from Values)
Constraints		ditto	EANumericalValue (from Values)
[1] Shall be typed by an		ditto	EANumericalValue (from Values)
EANumerical or a			
RangeableValueType.			
EAStringValue (from Values)		Added metaclass	EAStringValue (from Values)
Generalizations		ditto	EAStringValue (from Values)
EAValue (from Values)		ditto	EAStringValue (from Values)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Attributes		ditto	EAStringValue (from Values)
value : String [1]		ditto	EAStringValue (from Values)
Associations		ditto	EAStringValue (from Values)
No additional associations		ditto	EAStringValue (from Values)
Constraints		ditto	EAStringValue (from Values)
[1] Shall be typed by an EAString.		ditto	EAStringValue (from Values)
EAValue (from Values) {abstract} «atpPrototype»		Added metaclass	EAValue (from Values) {abstract}
Generalizations		ditto	EAValue (from Values) {abstract}
None		ditto	EAValue (from Values) {abstract}
Attributes		ditto	EAValue (from Values) {abstract}
No additional attributes		ditto	EAValue (from Values) {abstract}
Associations		ditto	EAValue (from Values) {abstract}
type : EADatatype [1]		ditto	EAValue (from Values) {abstract}
«isOfType»		ditto	EAValue (from Values) {abstract}
Constraints		ditto	EAValue (from Values) {abstract}
No additional constraints		ditto	EAValue (from Values) {abstract}
EAConnector (from Elements) {abstract}		Added metaclass	EAConnector (from Elements) {abstract}
Generalizations		ditto	EAConnector (from Elements) {abstract}
None		ditto	EAConnector (from Elements) {abstract}
Attributes		ditto	EAConnector (from Elements) {abstract}
No additional attributes		ditto	EAConnector (from Elements) {abstract}
Associations		ditto	EAConnector (from Elements) {abstract}
No additional associations		ditto	EAConnector (from Elements) {abstract}
Constraints		ditto	EAConnector (from Elements) {abstract}
No additional constraints		ditto	EAConnector (from Elements) {abstract}

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M2.1.11	M2.1.10	Change	Metaclass/Package
EAPort (from Elements) {abstract}		Added metaclass	EAPort (from Elements) {abstract}
Generalizations		ditto	EAPort (from Elements) {abstract}
None		ditto	EAPort (from Elements) {abstract}
Attributes		ditto	EAPort (from Elements) {abstract}
No additional attributes		ditto	EAPort (from Elements) {abstract}
Associations		ditto	EAPort (from Elements) {abstract}
No additional associations		ditto	EAPort (from Elements) {abstract}
Constraints		ditto	EAPort (from Elements) {abstract}
No additional constraints		ditto	EAPort (from Elements) {abstract}
EAPrototype (from Elements) {abstract}		Added metaclass	EAPrototype (from Elements) {abstract}
Generalizations		ditto	EAPrototype (from Elements) {abstract}
None		ditto	EAPrototype (from Elements) {abstract}
Attributes		ditto	EAPrototype (from Elements) {abstract}
No additional attributes		ditto	EAPrototype (from Elements) {abstract}
Associations		ditto	EAPrototype (from Elements) {abstract}
No additional associations		ditto	EAPrototype (from Elements) {abstract}
Constraints		ditto	EAPrototype (from Elements) {abstract}
No additional constraints		ditto	EAPrototype (from Elements) {abstract}
EAType (from Elements) {abstract}		Added metaclass	EAType (from Elements) {abstract}
Generalizations		ditto	EAType (from Elements) {abstract}
None		ditto	EAType (from Elements) {abstract}
Attributes		ditto	EAType (from Elements) {abstract}
No additional attributes		ditto	EAType (from Elements) {abstract}
Associations		ditto	EAType (from Elements) {abstract}
No additional associations		ditto	EAType (from Elements) {abstract}

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	EAType (from Elements) {abstract}
No additional constraints		ditto	EAType (from Elements) {abstract}
	MultiLevelReference (from	Removed metaclass	MultiLevelReference (from Elements)
	Elements)		
	Generalizations	ditto	MultiLevelReference (from Elements)
	Relationship (from Elements)	ditto	MultiLevelReference (from Elements)
	Attributes	ditto	MultiLevelReference (from Elements)
	No additional attributes	ditto	MultiLevelReference (from Elements)
	Associations	ditto	MultiLevelReference (from Elements)
	referring : EAElement [1]	ditto	MultiLevelReference (from Elements)
	reference : EAElement [1]	ditto	MultiLevelReference (from Elements)
	Constraints	ditto	MultiLevelReference (from Elements)
	No additional constraints	ditto	MultiLevelReference (from Elements)
[1] The realizedBy elements shall	The realizedBy elements shall be	Minor editorial change	Realization (from Elements)
be on a lower abstraction level	on a lower abstraction level than		
than the realized relements.	the realized relements.		
[2] The realizedBy or realized	The realizedBy or realized	Minor editorial change	Realization (from Elements)
elements shall be structural or	elements shall be structural or		
behavioral.	behavioral		
EAPackageableElement (from Elements)	ement (from Elements) Changed inheritance	Changed inheritance	UserAttributeDefinition (from UserAttributes)
No additional attributes	defaultValue : String [01]	Removed attribute	UserAttributeDefinition (from UserAttributes)
defaultValue : EAValue [01] {composite}		Added association	UserAttributeDefinition (from UserAttributes)
UserAttributedElement (from UserAttributes)	UserAttributeableElement (from UserAttributes)	Changed metaclass name	UserAttributeableElement (from UserAttributes)

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M2.1.11	M2.1.10	Change	Metaclass/Package
EAPackageableElement (from	None	Added inheritance	UserAttributeableElement (from
Elements)			UserAttributes)
uaValue : EAValue [*] {ordered}	uaValue : UserAttributeValue [*]	Changed association type	UserAttributeableElement (from
{composite}	{composite}		UserAttributes)
uaType : UserElementType [*]	uaType : UserAttributeElementType	Changed association type name	UserAttributeableElement (from
{ordered}	[*]		UserAttributes)
[1] The associations "uaValue"	No additional constraints	Added constraint	UserAttributeableElement (from UserAttributes)
and the uaDefinitions of all			UserAttributes)
"uaType"s must refer to the same			
number of elements.			
[2] The order of associations		Added constraint	UserAttributeableElement (from
"uaValue" and "uaType" /			UserAttributes)
"uaDefinition" must be consistent,			
i.e. the n-th EAValue must			
correspond to the n-th			
UserAttributeDefinition when			
listing all UserElementTypes'			
definitions in depth-first order.			
UserElementType (from UserAttributes)	UserAttributeElementType (from UserAttributes)	Changed metaclass name	UserAttributeElementType (from UserAttributes)
key : String [1]		Added attribute	UserAttributeElementType (from UserAttributes)
uaDefinition : UserAttributeDefinition [*] {ordered} {composite}		Added association	UserAttributeElementType (from UserAttributes)
	extendedElementType : UserAttributeElementType [01]	Removed association	UserAttributeElementType (from UserAttributes)

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M2.1.11	M2.1.10	Change	Metaclass/Package	
	attribute : UserAttributeDefinition [*]	Removed association	UserAttributeElementType (from	
	{composite}		UserAttributes)	
[1] The short names of all	No additional constraints	Added constraint	UserAttributeElementType (from	
UserAttributeDefinitions (i.e. value			UserAttributes)	
of attribute "shortName" in				
UserAttributeDefinition, which is				
inherited from meta-class				
Referrable) referred to by				
association "uaDefinition" must be				
unique within this				
UserElementType. In other				
words, no two				
UserAttributeDefinitions referred				
to by association "uaDefinition"				
must have the same short name.				
	UserAttributeValue (from UserAttributes)	Removed metaclass	UserAttributeValue (from UserAttributes)	
	Generalizations	ditto	UserAttributeValue (from UserAttributes)	
	EAElement (from Elements)	ditto	UserAttributeValue (from UserAttributes)	
	Attributes	ditto	UserAttributeValue (from UserAttributes)	
	semantics : String [01]	ditto	UserAttributeValue (from UserAttributes)	
	value : String [1]	ditto	UserAttributeValue (from UserAttributes)	
	Associations	ditto	UserAttributeValue (from UserAttributes)	
	definition : UserAttributeDefinition [01]	ditto	UserAttributeValue (from UserAttributes)	
	Constraints	ditto	UserAttributeValue (from UserAttributes)	
	No additional constraints	ditto	UserAttributeValue (from UserAttributes)	

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M2.1.11	M2.1.10	Change	Metaclass/Package	
	BehaviorConstraints	Removed package	BehaviorConstraints	
	BehaviorAnnex (from	Removed metaclass	BehaviorAnnex (from BehaviorConstraints)	
	BehaviorConstraints) Generalizations	ditto	BehaviorAnnex (from BehaviorConstraints)	
	Context (from Elements)	ditto	BehaviorAnnex (from BehaviorConstraints)	
	Attributes	ditto	BehaviorAnnex (from BehaviorConstraints)	
	No additional attributes	ditto	BehaviorAnnex (from BehaviorConstraints)	
	Associations	ditto	BehaviorAnnex (from BehaviorConstraints)	
	behaviorConstraint : BehaviorConstraint [*] {composite}	ditto	BehaviorAnnex (from BehaviorConstraints)	
	Constraints	ditto	BehaviorAnnex (from BehaviorConstraints)	
	No additional constraints	ditto	BehaviorAnnex (from BehaviorConstraints)	
	BehaviorConstraint (from BehaviorConstraints) {abstract}	Removed metaclass	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	Generalizations	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	EAElement (from Elements)	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	Attributes	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	No additional attributes	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	Associations	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	relatedVehicleFeature :  VehicleFeature [*]	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	constrainedMode : Mode [*]	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	
	constrainedFunctionBehavior : FunctionBehavior [*]	ditto	BehaviorConstraint (from BehaviorConstraints) {abstract}	

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M2.1.11	M2.1.10	Change	Metaclass/Package
	constrainedFunctionTrigger:	ditto	BehaviorConstraint (from
	FunctionTrigger [*]		BehaviorConstraints) {abstract}
	constrainedErrorBehavior:	ditto	BehaviorConstraint (from
	ErrorBehavior [*]		BehaviorConstraints) {abstract}
	Constraints	ditto	BehaviorConstraint (from
			BehaviorConstraints) {abstract}
	A behavior constraint references	ditto	BehaviorConstraint (from
	at least one vehicle feature made		BehaviorConstraints) {abstract}
	at least one vehicle feature, mode,		
	function behavior, function trigger,		
	or error behavior definition.		
	ComputationConstraint (from	Removed metaclass	ComputationConstraint (from
	BehaviorConstraints)		BehaviorConstraints)
	Generalizations	ditto	ComputationConstraint (from
			BehaviorConstraints)
	BehaviorConstraint (from	ditto	ComputationConstraint (from
	BehaviorConstraints)		BehaviorConstraints)
	Attributes	ditto	ComputationConstraint (from
			BehaviorConstraints)
	No additional attributes	ditto	ComputationConstraint (from
			BehaviorConstraints)
	Associations	ditto	ComputationConstraint (from
			BehaviorConstraints)
	transformation: Transformation [*]	ditto	ComputationConstraint (from
	{composite}		BehaviorConstraints)
	flow : Flow [*] {composite}	ditto	ComputationConstraint (from
			BehaviorConstraints)
	Constraints	ditto	ComputationConstraint (from
			BehaviorConstraints)
	A computation constraint contains	ditto	ComputationConstraint (from
	·		BehaviorConstraints)
	at least one transformation or one		

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M2.1.11	M2.1.10	Change	Metaclass/Package
	flow definition.		
	Flow (from BehaviorConstraints)	Removed metaclass	Flow (from BehaviorConstraints)
	Generalizations	ditto	Flow (from BehaviorConstraints)
	EAElement (from Elements)	ditto	Flow (from BehaviorConstraints)
	Attributes	ditto	Flow (from BehaviorConstraints)
	No additional attributes	ditto	Flow (from BehaviorConstraints)
	Associations	ditto	Flow (from BehaviorConstraints)
	sourceParameter : Parameter [1*]	ditto	Flow (from BehaviorConstraints)
	orderedSegment : Flow [*]	ditto	Flow (from BehaviorConstraints)
	sinkParameter : Parameter [1*]	ditto	Flow (from BehaviorConstraints)
	Constraints	ditto	Flow (from BehaviorConstraints)
	A flow has at least one source and	ditto	Flow (from BehaviorConstraints)
	one sink parameter.		
	Parameter (from BehaviorConstraints)	Removed metaclass	Parameter (from BehaviorConstraints)
	Generalizations	ditto	Parameter (from BehaviorConstraints)
	EAElement (from Elements)	ditto	Parameter (from BehaviorConstraints)
	Attributes	ditto	Parameter (from BehaviorConstraints)
	No additional attributes	ditto	Parameter (from BehaviorConstraints)
	Associations	ditto	Parameter (from BehaviorConstraints)
	targetFunctionPort : FunctionPort [01]	ditto	Parameter (from BehaviorConstraints)
	targetFunction : FunctionType [01]	ditto	Parameter (from BehaviorConstraints)
	type : EADatatype [1]	ditto	Parameter (from BehaviorConstraints)
	Constraints	ditto	Parameter (from BehaviorConstraints)
	Each parameter in the parameter	ditto	Parameter (from BehaviorConstraints)
	constraints of function behaviors		
	references either one function type		

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M2.1.11	M2.1.10	Change	Metaclass/Package
	owning such function behaviors or		
	one function port of the same		
	•		
	function type.		
	ParameterCondition (from	Removed metaclass	ParameterCondition (from
	BehaviorConstraints)	10	BehaviorConstraints)
	Generalizations	ditto	ParameterCondition (from
			BehaviorConstraints)
	EAElement (from Elements)	ditto	ParameterCondition (from
			BehaviorConstraints)
	Attributes	ditto	ParameterCondition (from
			BehaviorConstraints)
	expression : String [1]	ditto	ParameterCondition (from
			BehaviorConstraints)
	Associations	ditto	ParameterCondition (from
			BehaviorConstraints)
	representAnomaly : Anomaly [*]	ditto	ParameterCondition (from
			BehaviorConstraints)
	appliedToParameter : Parameter [*]	ditto	ParameterCondition (from
			BehaviorConstraints)
	appliedToCondition :	ditto	ParameterCondition (from
	ParameterCondition [*]		BehaviorConstraints)
	Constraints	ditto	ParameterCondition (from
			BehaviorConstraints)
	A parameter condition is applied to	ditto	ParameterCondition (from
			BehaviorConstraints)
	at least one parameter or one		
	parameter condition.		
	ParameterConstraint (from	Removed metaclass	ParameterConstraint (from
	BehaviorConstraints)		BehaviorConstraints)
	Generalizations	ditto	ParameterConstraint (from
			BehaviorConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	BehaviorConstraint (from	ditto	ParameterConstraint (from
	BehaviorConstraints)		BehaviorConstraints)
	Attributes	ditto	ParameterConstraint (from
			BehaviorConstraints)
	No additional attributes	ditto	ParameterConstraint (from
			BehaviorConstraints)
	Associations	ditto	ParameterConstraint (from
			BehaviorConstraints)
	parameterCondition :	ditto	ParameterConstraint (from
	ParameterCondition [*] {composite}		BehaviorConstraints)
	parameter : Parameter [1*]	ditto	ParameterConstraint (from
	{composite}		BehaviorConstraints)
	Constraints	ditto	ParameterConstraint (from
			BehaviorConstraints)
	No additional constraints	ditto	ParameterConstraint (from
			BehaviorConstraints)
	State (from BehaviorConstraints)	Removed metaclass	State (from BehaviorConstraints)
	Generalizations	ditto	State (from BehaviorConstraints)
	EAElement (from Elements)	ditto	State (from BehaviorConstraints)
	Attributes	ditto	State (from BehaviorConstraints)
	initState : Boolean = false [1]	ditto	State (from BehaviorConstraints)
	Associations	ditto	State (from BehaviorConstraints)
	representMode : Mode [*]	ditto	State (from BehaviorConstraints)
	subStateMachineConstraint : StateMachineConstraint [*]	ditto	State (from BehaviorConstraints)
	denote : ParameterCondition [*]	ditto	State (from BehaviorConstraints)
	Constraints	ditto	State (from BehaviorConstraints)
	No additional constraints	ditto	State (from BehaviorConstraints)
	StateMachineConstraint (from BehaviorConstraints)	Removed metaclass	StateMachineConstraint (from BehaviorConstraints)
	Generalizations	ditto	StateMachineConstraint (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
			BehaviorConstraints)
	BehaviorConstraint (from	ditto	StateMachineConstraint (from
	BehaviorConstraints)		BehaviorConstraints)
	Attributes	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	No additional attributes	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	Associations	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	transition: Transition [*] {composite}	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	state: State [1*] {composite}	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	Constraints	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	No additional constraints	ditto	StateMachineConstraint (from
			BehaviorConstraints)
	Transformation (from	Removed metaclass	Transformation (from
	BehaviorConstraints)		BehaviorConstraints)
	Generalizations	ditto	Transformation (from
			BehaviorConstraints)
	EAElement (from Elements)	ditto	Transformation (from
			BehaviorConstraints)
	Attributes	ditto	Transformation (from
			BehaviorConstraints)
	No additional attributes	ditto	Transformation (from
			BehaviorConstraints)
	Associations	ditto	Transformation (from
			BehaviorConstraints)
	invariantCondition :	ditto	Transformation (from
	ParameterCondition [*]		BehaviorConstraints)
	subComputationConstraint :	ditto	Transformation (from
	ComputationConstraint [*]		BehaviorConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	inOut : Parameter [*]	ditto	Transformation (from
			BehaviorConstraints)
	outgoingFlow : Flow [*]	ditto	Transformation (from
			BehaviorConstraints)
	out : Parameter [*]	ditto	Transformation (from
			BehaviorConstraints)
	in : Parameter [*]	ditto	Transformation (from
			BehaviorConstraints)
	preCondition : ParameterCondition	ditto	Transformation (from
	[*]		BehaviorConstraints)
	postCondition : ParameterCondition	ditto	Transformation (from
	[*]		BehaviorConstraints)
	incomingFlow : Flow [*]	ditto	Transformation (from
			BehaviorConstraints)
	Constraints	ditto	Transformation (from
			BehaviorConstraints)
	[1] A transformation has at least	ditto	Transformation (from
	one out or one inOut parameter.		BehaviorConstraints)
	· · · · · · · · · · · · · · · · · · ·	Barrier de la contrada de	To a silica (for a Balania Constanta)
	Transition (from	Removed metaclass	Transition (from BehaviorConstraints)
	BehaviorConstraints) Generalizations	ditto	Transition (from Daharian Constraints)
			Transition (from BehaviorConstraints)
	EAElement (from Elements)	ditto	Transition (from BehaviorConstraints)
	Attributes	ditto	Transition (from BehaviorConstraints)
	No additional attributes	ditto	Transition (from BehaviorConstraints)
	Associations	ditto	Transition (from BehaviorConstraints)
	invoke : Transformation [*]	ditto	Transition (from BehaviorConstraints)
	to: State [1]	ditto	Transition (from BehaviorConstraints)
	conditionSpecification :	ditto	Transition (from BehaviorConstraints)
	ParameterCondition [01]		,
	write : Parameter [*]	ditto	Transition (from BehaviorConstraints)

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M2.1.11	M2.1.10	Change	Metaclass/Package
	read : Parameter [*]	ditto	Transition (from BehaviorConstraints)
	from : State [1]	ditto	Transition (from BehaviorConstraints)
	Constraints	ditto	Transition (from BehaviorConstraints)
	No additional constraints	ditto	Transition (from BehaviorConstraints)
BehaviorDescription		Added package	BehaviorDescription
BehaviorConstraintBindingAttribute (from BehaviorDescription)		Added metaclass	BehaviorConstraintBindingAttribute (from BehaviorDescription)
Generalizations		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
BehaviorConstraintInternalBinding (from BehaviorDescription)		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
Attribute (from AttributeQuantificationConstraint)		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
Attributes		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
No additional attributes		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
Associations		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
No additional associations		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
Constraints		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
No additional constraints		ditto	BehaviorConstraintBindingAttribute (from BehaviorDescription)
BehaviorConstraintBindingEvent (from BehaviorDescription)		Added metaclass	BehaviorConstraintBindingEvent (from BehaviorDescription)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Generalizations		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
BehaviorConstraintInternalBinding (from BehaviorDescription)		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
TransitionEvent (from TemporalConstraint)		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
Attributes		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
No additional attributes		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
Associations		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
No additional associations		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
Constraints		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
No additional constraints		ditto	BehaviorConstraintBindingEvent (from BehaviorDescription)
BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}		Added metaclass	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
Generalizations		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
None		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
Attributes		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
No additional attributes		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}

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M2.1.11	M2.1.10	Change	Metaclass/Package
Associations		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
bindingThroughClampConnector : ClampConnector [*]		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
Dependencies		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
bindingThroughFunctionConnector: FunctionConnector[*]		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
«instanceRef»		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
bindingThroughHardwareConnector : HardwareConnector [*]		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
«instanceRef»		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
Constraints		ditto	BehaviorConstraintInternalBinding (from BehaviorDescription) {abstract}
When a binding of behavior		ditto	BehaviorConstraintInternalBinding (from
constraint prototypes go across			BehaviorDescription) {abstract}
different system functions or			
components, there should be at			
least one corresponding structural			
communication connector through			
which such bindings can take			
place (i.e.			
bindingThroughFunctionConnecto			
r,			
bindingThroughClampConnector,			

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M2.1.11	M2.1.10	Change	Metaclass/Package
bindingThrough-LogicalBus, or			
bindingThrough-			
HardwareConnector).			
BehaviorConstraintParameter (from		Added metaclass	BehaviorConstraintParameter (from
BehaviorDescription) {abstract}		Added Metaclass	BehaviorDescription) {abstract}
Generalizations		ditto	BehaviorConstraintParameter (from
			BehaviorDescription) {abstract}
None		ditto	BehaviorConstraintParameter (from BehaviorDescription) {abstract}
Attributes		ditto	BehaviorConstraintParameter (from
		a.reco	BehaviorDescription) {abstract}
No additional attributes		ditto	BehaviorConstraintParameter (from
			BehaviorDescription) {abstract}
Associations		ditto	BehaviorConstraintParameter (from
		l'u	BehaviorDescription) {abstract}
No additional associations		ditto	BehaviorConstraintParameter (from BehaviorDescription) {abstract}
Constraints		ditto	BehaviorConstraintParameter (from
			BehaviorDescription) {abstract}
See Attribute and		ditto	BehaviorConstraintParameter (from
TransitionEvent.			BehaviorDescription) {abstract}
BehaviorConstraintPrototype (from		Added metaclass	BehaviorConstraintPrototype (from
BehaviorDescription)			BehaviorDescription) «atpPrototype»
«atpPrototype»			

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M2.1.11	M2.1.10	Change	Metaclass/Package
Generalizations		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
TraceableSpecification (from Elements)		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Attributes		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
No additional attributes		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Associations		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
targetedVehicleFeatureElement : VehicleFeature [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
instantiationVariable: BehaviorConstraintInternalBinding [*] {ordered}		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
type : BehaviorConstraintType [1]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
«isOfType»		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Dependencies		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
functionTarget : FunctionPrototype [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
«instanceRef»		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
hardwareComponentTarget : HardwareComponentPrototype [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
«instanceRef»		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»

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M2.1.11	M2.1.10	Change	Metaclass/Package
errorModelTarget : ErrorModelPrototype [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
«instanceRef»		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Constraints		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
No additional constraints		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
BehaviorConstraintTargetBinding (from BehaviorDescription)		Added metaclass	BehaviorConstraintTargetBinding (from BehaviorDescription)
Generalizations		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Relationship (from Elements)		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Attributes		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
No additional attributes		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
Associations		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
targetedVehicleFeature : VehicleFeature [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
targetedFunctionType : FunctionType [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
targetedHardwareComponentType : HardwareComponentType [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»
constrainedModeBehavior : Mode [*]		ditto	BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»

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BehaviorDescription   «atpPrototype»	M2.1.11	M2.1.10	Change	Metaclass/Package
ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorDescription)   datpPrototype   ditto   BehaviorConstraintType (from BehaviorDescription)   datpPrototype   ditto   BehaviorConstraintType (from BehaviorDescription)   datpType   ditto   BehaviorConstraintType (from BehaviorD	constrainedFunctionBehavior :		ditto	BehaviorConstraintPrototype (from
BehaviorDescription   atpPrototype	FunctionBehavior [*]			BehaviorDescription) «atpPrototype»
ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType (I)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintPrototype (from BehaviorConstraintType)   ditto   BehaviorConstraintType (from BehaviorDescription)   datpType   ditto   BehaviorConstraintType (from BehaviorDescription)   datpType   ditto   BehaviorConstraintType (from B	constrainedFunctionTriggering:		ditto	BehaviorConstraintPrototype (from
BehaviorDescription   atpPrototype   BehaviorConstraintType   BehaviorConstraintType   BehaviorConstraintType   BehaviorConstraintType   BehaviorConstraintType   BehaviorConstraintType   BehaviorDescription   atpPrototype   BehaviorConstraintType   BehaviorDescription   atpPrototype   BehaviorDescription   atpType   BehaviorDesc	FunctionTrigger [*]			BehaviorDescription) «atpPrototype»
ditto   BehaviorConstraintPrototype (from BehaviorConstraintPrototype)   BehaviorConstraintPrototype   BehaviorConstraintType   BehaviorConstrai	constrainedErrorModel :		ditto	BehaviorConstraintPrototype (from
BehaviorConstraintType [1]   BehaviorDescription) «atpPrototype»	ErrorModelType [*]			BehaviorDescription) «atpPrototype»
ditto   BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»	behaviorConstraintType:		ditto	BehaviorConstraintPrototype (from
BehaviorDescription) «atpPrototype»  No additional constraints  ditto  BehaviorConstraintPrototype (from BehaviorDescription) «atpPrototype»  SenaviorConstraintType (from BehaviorDescription) «atpType»  Generalizations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Context (from Elements)  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Context (from Elements)  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»	BehaviorConstraintType [1]			BehaviorDescription) «atpPrototype»
Added metaclass   BehaviorConstraintTrype (from BehaviorDescription) watpTrype	Constraints		ditto	BehaviorConstraintPrototype (from
BehaviorDescription) «atpPrototype»  BehaviorConstraintType (from BehaviorDescription) watpType  BehaviorDescription) watpType  BehaviorDescription) watpType  BehaviorDescription) watpType  BehaviorDescription) watpType  BehaviorDescription) watpType  Context (from Elements)  Context (from Eleme				BehaviorDescription) «atpPrototype»
BehaviorDescription) «atpPrototype»  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  Context (from Elements)  Context (from Elements)  Description) «atpType»  Attributes  Description (atpType) (from BehaviorDescription) (atpType)  Attributes  Description (atpType) (from BehaviorDescription) (atpType)  Attributes  Description (atpType) (from BehaviorDescription) (atpType)  Associations  Description (atpType) (from BehaviorDescription) (atpType)	No additional constraints		ditto	BehaviorConstraintPrototype (from
BehaviorDescription) «atpType»  Generalizations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Context (from Elements)  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Altributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  TherefaceVariable:  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»				BehaviorDescription) «atpPrototype»
ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  No additional attributes ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Altributes ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations ditto BehaviorConstraintType (from BehaviorDescription) «atpType»  Altributes ditto BehaviorConstraintType (from BehaviorDescription) «atpType»	BehaviorConstraintType (from		Added metaclass	BehaviorConstraintType (from
BehaviorDescription) «atpType»  Context (from Elements)  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Context (from Elements)  BehaviorConstraintType (from BehaviorDescription) «atpType»  Context (from Elements)  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintInternalBinding  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»	BehaviorDescription) «atpType»			BehaviorDescription) «atpType»
Context (from Elements)  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»  anterfaceVariable:  BehaviorConstraintType (from BehaviorDescription) «atpType»	Generalizations		ditto	BehaviorConstraintType (from
Attributes  ditto  BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  CharedVariable:  BehaviorConstraintType (from BehaviorDescription) «atpType»  TherefaceVariable:  BehaviorConstraintType (from BehaviorDescription) «atpType»  ConstraintType (from BehaviorDescription) «atpType»  BehaviorConstraintType (from BehaviorDescription) «atpType»				BehaviorDescription) «atpType»
Attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Altributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  *  InterfaceVariable:  BehaviorConstraintType (from BehaviorDescription) «atpType»  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»	Context (from Elements)		ditto	BehaviorConstraintType (from
BehaviorDescription) «atpType»  No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  ConstraintType (from BehaviorDescription) «atpType»  ConstraintType (from BehaviorDescription) «atpType»  ConstraintInternalBinding  TherfaceVariable:  ConstraintType (from BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType)  ConstraintType (from BehaviorConstraintType)				BehaviorDescription) «atpType»
No additional attributes  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  CharedVariable: CharedVariable	Attributes		ditto	BehaviorConstraintType (from
BehaviorDescription) «atpType»  Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  CharedVariable: BehaviorConstraintType (from BehaviorConstraintType (from BehaviorDescription) «atpType»  *]  nterfaceVariable: BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType)  *]  sehaviorConstraintType (from BehaviorDescription) «atpType»				BehaviorDescription) «atpType»
Associations  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  ditto  BehaviorConstraintType (from BehaviorConstraintType (from BehaviorDescription) «atpType»  BehaviorDescription) «atpType»  ditto  BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType)  BehaviorDescription) «atpType»	No additional attributes		ditto	BehaviorConstraintType (from
BehaviorDescription) «atpType»  tharedVariable: BehaviorConstraintType (from BehaviorDescription) «atpType»  *  InterfaceVariable: BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType (from BehaviorConstraintType)  *  BehaviorDescription) «atpType»				BehaviorDescription) «atpType»
charedVariable:  SehaviorConstraintInternalBinding  *]  InterfaceVariable:  SehaviorConstraintParameter [*]  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»  ditto  BehaviorConstraintType (from BehaviorDescription) «atpType»	Associations		ditto	BehaviorConstraintType (from
BehaviorConstraintInternalBinding *  mterfaceVariable: BehaviorConstraintType (from BehaviorDescription) «atpType»  ditto BehaviorConstraintType (from BehaviorDescription) «atpType»				BehaviorDescription) «atpType»
*] nterfaceVariable: BehaviorConstraintType (from BehaviorDescription) «atpType»	sharedVariable :		ditto	BehaviorConstraintType (from
nterfaceVariable : ditto BehaviorConstraintType (from BehaviorConstraintType) (from BehaviorConstraintType) (from BehaviorDescription) (atpType)	BehaviorConstraintInternalBinding			BehaviorDescription) «atpType»
BehaviorConstraintParameter [*]  BehaviorDescription) «atpType»	[*]			
			ditto	
	BehaviorConstraintParameter [*] {ordered}			BehaviorDescription) «atpType»

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M2.1.11	M2.1.10	Change	Metaclass/Package
part : BehaviorConstraintPrototype		ditto	BehaviorConstraintType (from
[*] {composite}			BehaviorDescription) «atpType»
attributeQuantificationConstraint :		ditto	BehaviorConstraintType (from
$Attribute Quantification Constraint\ [*]$			BehaviorDescription) «atpType»
{composite}			
computationConstraint :		ditto	BehaviorConstraintType (from
ComputationConstraint [*]			BehaviorDescription) «atpType»
{composite}			
temporalConstraint :		ditto	BehaviorConstraintType (from
TemporalConstraint [*] {composite}			BehaviorDescription) «atpType»
Constraints		ditto	BehaviorConstraintType (from
			BehaviorDescription) «atpType»
[1] A behavior constraint		ditto	BehaviorConstraintType (from
references at least one			BehaviorDescription) «atpType»
requirement, vehicle feature,			
mode, function type, function			
behavior, function trigger, or error			
behavior definition.			
AttributeQuantificationConstraint		Added package	AttributeQuantificationConstraint
Attribute (from		Added metaclass	Attribute (from
AttributeQuantificationConstraint)			AttributeQuantificationConstraint)
«atpPrototype»			
Generalizations		ditto	Attribute (from
			AttributeQuantificationConstraint)
EAElement (from Elements)		ditto	Attribute (from
			AttributeQuantificationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
BehaviorConstraintParameter (from		ditto	Attribute (from
BehaviorDescription)			AttributeQuantificationConstraint)
Attributes		ditto	Attribute (from
			AttributeQuantificationConstraint)
isExternVisible : Boolean = false [1]		ditto	Attribute (from
			AttributeQuantificationConstraint)
Associations		ditto	Attribute (from
			AttributeQuantificationConstraint)
type : EADatatype [1]		ditto	Attribute (from
			AttributeQuantificationConstraint)
«isOfType»		ditto	Attribute (from
31			AttributeQuantificationConstraint)
Constraints		ditto	Attribute (from
			AttributeQuantificationConstraint)
No additional constraints		ditto	Attribute (from
			AttributeQuantificationConstraint)
AttributeQuantificationConstraint		Added metaclass	AttributeQuantificationConstraint (from
(from			AttributeQuantificationConstraint)
AttributeQuantificationConstraint)			
Generalizations		ditto	AttributeQuantificationConstraint (from
			AttributeQuantificationConstraint)
EAElement (from Elements)		ditto	AttributeQuantificationConstraint (from
			AttributeQuantificationConstraint)
Attributes		ditto	AttributeQuantificationConstraint (from
			AttributeQuantificationConstraint)
No additional attributes		ditto	AttributeQuantificationConstraint (from
no additional attributes		unito	AttributeQuantificationConstraint)
Associations		ditto	AttributeQuantificationConstraint (from
Associations		ditto	AttributeQuantificationConstraint(Ironi
quantification : Quantification [*]		ditto	AttributeQuantificationConstraint (from
{composite}			AttributeQuantificationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
attribute : Attribute [*] {composite}		ditto	AttributeQuantificationConstraint (from AttributeQuantificationConstraint)
Constraints		ditto	AttributeQuantificationConstraint (from AttributeQuantificationConstraint)
No additional constraints		ditto	AttributeQuantificationConstraint (from AttributeQuantificationConstraint)
BehaviorAttributeBinding (from AttributeQuantificationConstraint)		Added metaclass	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
Generalizations		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
Relationship (from Elements)		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
Attributes		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
No additional attributes		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
Associations		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
visibleThroughFunctionPort : FunctionPort [*]		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
visibleThroughHardwarePin : HardwarePin [*]		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
visibleThroughHardwarePort : HardwarePort [*]		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
visibleThroughAnomaly : Anomaly [*]		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)
attribute : Attribute [1*]		ditto	BehaviorAttributeBinding (from AttributeQuantificationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	BehaviorAttributeBinding (from
			AttributeQuantificationConstraint)
No additional constraints		ditto	BehaviorAttributeBinding (from
			AttributeQuantificationConstraint)
LogicalEvent (from		Added metaclass	LogicalEvent (from
AttributeQuantificationConstraint)			AttributeQuantificationConstraint)
Generalizations		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
Quantification (from		ditto	LogicalEvent (from
Attribute Quantification Constraint)			AttributeQuantificationConstraint)
Attributes		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
isExternVisible : Boolean = false [1]		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
Associations		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
visibleThroughFunctionPort:		ditto	LogicalEvent (from
FunctionPort [*]			AttributeQuantificationConstraint)
Constraints		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
No additional constraints		ditto	LogicalEvent (from
			AttributeQuantificationConstraint)
Quantification (from		Added metaclass	Quantification (from
AttributeQuantificationConstraint)			AttributeQuantificationConstraint)
Generalizations		ditto	Quantification (from
			AttributeQuantificationConstraint)
EAElement (from Elements)		ditto	Quantification (from
			AttributeQuantificationConstraint)
EAExpression (from Values)		ditto	Quantification (from
			AttributeQuantificationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Attributes		ditto	Quantification (from
			AttributeQuantificationConstraint)
No additional attributes		ditto	Quantification (from
			AttributeQuantificationConstraint)
Associations		ditto	Quantification (from
			AttributeQuantificationConstraint)
operand : Attribute [1*] {ordered}		ditto	Quantification (from
			AttributeQuantificationConstraint)
timeCondition :		ditto	Quantification (from
LogicalTimeCondition [01]			AttributeQuantificationConstraint)
Constraints		ditto	Quantification (from
			AttributeQuantificationConstraint)
[1] A quantification is applied to at		ditto	Quantification (from
least one attribute.			AttributeQuantificationConstraint)
ComputationConstraint		Added package	ComputationConstraint
ComputationConstraint		Added package	ComputationConstraint
ComputationConstraint (from		Added metaclass	ComputationConstraint (from
ComputationConstraint)			ComputationConstraint)
Generalizations		ditto	ComputationConstraint (from
			ComputationConstraint)
EAElement (from Elements)		ditto	ComputationConstraint (from
			ComputationConstraint)
Attributes		ditto	ComputationConstraint (from
			ComputationConstraint)
No additional attributes		ditto	ComputationConstraint (from
		1	ComputationConstraint)
Associations		ditto	ComputationConstraint (from
logicalTransformation :		ditto	ComputationConstraint) ComputationConstraint (from
LogicalTransformation [*]		ditto	ComputationConstraint (from
rogical italisioi iliation [*]			ComputationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
{composite}			
logicalPath : LogicalPath [*]		ditto	ComputationConstraint (from
{composite}			ComputationConstraint)
Constraints		ditto	ComputationConstraint (from
			ComputationConstraint)
[1] A computation constraint		ditto	ComputationConstraint (from ComputationConstraint)
contains at least one			ComputationConstraint)
transformation or one flow			
definition.			
LogicalPath (from		Added metaclass	LogicalPath (from ComputationConstraint)
ComputationConstraint)			
Generalizations		ditto	LogicalPath (from ComputationConstraint)
EAElement (from Elements)		ditto	LogicalPath (from ComputationConstraint)
Attributes		ditto	LogicalPath (from ComputationConstraint)
No additional attributes		ditto	LogicalPath (from ComputationConstraint)
Associations		ditto	LogicalPath (from ComputationConstraint)
<pre>precedingExecutionEventChain :     EventChain [*]</pre>		ditto	LogicalPath (from ComputationConstraint)
succeedingExecutionEventChain: EventChain [*]		ditto	LogicalPath (from ComputationConstraint)
correspondingExecutionEventChain: EventChain [*]		ditto	LogicalPath (from ComputationConstraint)
logicalResponse : LogicalEvent [*]		ditto	LogicalPath (from ComputationConstraint)
logicalStimulus : LogicalEvent [*]		ditto	LogicalPath (from ComputationConstraint)
transformationOccurrence:		ditto	LogicalPath (from ComputationConstraint)
TransformationOccurrence [01]			
{composite}			
strand : LogicalPath [*]		ditto	LogicalPath (from ComputationConstraint)
segment : LogicalPath [*] {ordered}		ditto	LogicalPath (from ComputationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	LogicalPath (from ComputationConstraint)
No additional constraints		ditto	LogicalPath (from ComputationConstraint)
LogicalTransformation (from ComputationConstraint)		Added metaclass	LogicalTransformation (from ComputationConstraint)
Generalizations		ditto	LogicalTransformation (from ComputationConstraint)
EAElement (from Elements)		ditto	LogicalTransformation (from ComputationConstraint)
Attributes		ditto	LogicalTransformation (from ComputationConstraint)
<pre>isClientServerInterface : Boolean = false [1]</pre>		ditto	LogicalTransformation (from ComputationConstraint)
Associations		ditto	LogicalTransformation (from ComputationConstraint)
clientServerInterfaceOperation : Operation [*]		ditto	LogicalTransformation (from ComputationConstraint)
expression: EAExpression [01] {composite}		ditto	LogicalTransformation (from ComputationConstraint)
contained : Attribute [*] {ordered}		ditto	LogicalTransformation (from ComputationConstraint)
out : Attribute [*] {ordered}		ditto	LogicalTransformation (from ComputationConstraint)
in : Attribute [*] {ordered}		ditto	LogicalTransformation (from ComputationConstraint)
quantificationInvariant : Quantification [*]		ditto	LogicalTransformation (from ComputationConstraint)
preCondition : Quantification [*]		ditto	LogicalTransformation (from ComputationConstraint)
postCondition : Quantification [*]		ditto	LogicalTransformation (from ComputationConstraint)
timeInvariant : LogicalTimeCondition [01]		ditto	LogicalTransformation (from ComputationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Constraints		ditto	LogicalTransformation (from
			ComputationConstraint)
[1] If a logical transformation		ditto	LogicalTransformation (from
description is applied to a client-			ComputationConstraint)
server interface			
(isClientServerInterface=true), it			
has at least one corresponding			
operation specified in a client-			
server interface definition			
(FunctionModelling::Operation).			
TransformationOccurrence (from ComputationConstraint)		Added metaclass	TransformationOccurrence (from ComputationConstraint)
Generalizations		ditto	TransformationOccurrence (from ComputationConstraint)
EAElement (from Elements)		ditto	TransformationOccurrence (from ComputationConstraint)
Attributes		ditto	TransformationOccurrence (from ComputationConstraint)
No additional attributes		ditto	TransformationOccurrence (from ComputationConstraint)
Associations		ditto	TransformationOccurrence (from ComputationConstraint)
inQuantification : Quantification [*] {ordered}		ditto	TransformationOccurrence (from ComputationConstraint)
outQuantification : Quantification [*] {ordered}		ditto	TransformationOccurrence (from ComputationConstraint)
invokedLogicalTransformation: LogicalTransformation[1]		ditto	TransformationOccurrence (from ComputationConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
timeCondition:		ditto	TransformationOccurrence (from
LogicalTimeCondition [01]			ComputationConstraint)
Constraints		ditto	TransformationOccurrence (from
			ComputationConstraint)
No additional constraints		ditto	TransformationOccurrence (from
			ComputationConstraint)
TemporalConstraint		Added package	TemporalConstraint
LogicalTimeCondition (from		Added metaclass	LogicalTimeCondition (from
TemporalConstraint)			TemporalConstraint)
Generalizations		ditto	LogicalTimeCondition (from
			TemporalConstraint)
EAElement (from Elements)		ditto	LogicalTimeCondition (from
			TemporalConstraint)
Attributes		ditto	LogicalTimeCondition (from
			TemporalConstraint)
is Logical Time Suspended: Boolean =		ditto	LogicalTimeCondition (from
false [1]			TemporalConstraint)
Associations		ditto	LogicalTimeCondition (from
			TemporalConstraint)
width : EAValue [01] {composite}		ditto	LogicalTimeCondition (from
			TemporalConstraint)
lower : EAValue [01] {composite}		ditto	LogicalTimeCondition (from
			TemporalConstraint)
upper: EAValue [01] {composite}		ditto	LogicalTimeCondition (from
			TemporalConstraint)
end Point Reference: Transition Event		ditto	LogicalTimeCondition (from
[01]			TemporalConstraint)
startPointReference :		ditto	LogicalTimeCondition (from
TransitionEvent [01]			TemporalConstraint)
Constraints		ditto	LogicalTimeCondition (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
			TemporalConstraint)
No additional constraints		ditto	LogicalTimeCondition (from
			TemporalConstraint)
State (from TemporalConstraint)		Added metaclass	State (from TemporalConstraint)
Generalizations		ditto	State (from TemporalConstraint)
EAElement (from Elements)		ditto	State (from TemporalConstraint)
Attributes		ditto	State (from TemporalConstraint)
isErrorState : Boolean = false [1]		ditto	State (from TemporalConstraint)
isHazard : Boolean = false [1]		ditto	State (from TemporalConstraint)
isInitState : Boolean = false [1]		ditto	State (from TemporalConstraint)
isMode : Boolean = false [1]		ditto	State (from TemporalConstraint)
Associations		ditto	State (from TemporalConstraint)
modeDeclaration : Mode [*]		ditto	State (from TemporalConstraint)
hazardDeclaration : Hazard [*]		ditto	State (from TemporalConstraint)
quantificationInvariant :		ditto	State (from TemporalConstraint)
Quantification [*]			
timeInvariant : LogicalTimeCondition		ditto	State (from TemporalConstraint)
[*]			
Constraints		ditto	State (from TemporalConstraint)
No additional constraints		ditto	State (from TemporalConstraint)
SynchronousTransition (from		Added metaclass	SynchronousTransition (from
TemporalConstraint)			TemporalConstraint)
Generalizations		ditto	SynchronousTransition (from
			TemporalConstraint)
Transition (from		ditto	SynchronousTransition (from
TemporalConstraint)			TemporalConstraint)
Attributes		ditto	SynchronousTransition (from
			TemporalConstraint)
No additional attributes		ditto	SynchronousTransition (from
			TemporalConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
Associations		ditto	SynchronousTransition (from
			TemporalConstraint)
writeTransitionEvent:		ditto	SynchronousTransition (from
TransitionEvent [01]			TemporalConstraint)
readTransitionEvent :		ditto	SynchronousTransition (from
TransitionEvent [01]			TemporalConstraint)
Constraints		ditto	SynchronousTransition (from
			TemporalConstraint)
No additional constraints		ditto	SynchronousTransition (from
			TemporalConstraint)
TemporalConstraint (from		Added metaclass	TemporalConstraint (from
TemporalConstraint)			TemporalConstraint)
Generalizations		ditto	TemporalConstraint (from
			TemporalConstraint)
EAElement (from Elements)		ditto	TemporalConstraint (from
			TemporalConstraint)
Attributes		ditto	TemporalConstraint (from
			TemporalConstraint)
No additional attributes		ditto	TemporalConstraint (from
			TemporalConstraint)
Associations		ditto	TemporalConstraint (from
			TemporalConstraint)
assertion: EAExpression [01]		ditto	TemporalConstraint (from
{composite}			TemporalConstraint)
transitionEvent : TransitionEvent [*]		ditto	TemporalConstraint (from
{composite}			TemporalConstraint)
timeCondition:		ditto	TemporalConstraint (from
LogicalTimeCondition [*]			TemporalConstraint)
{composite}			
transition: Transition[*]		ditto	TemporalConstraint (from
{composite}			TemporalConstraint)
initState : State [1]		ditto	TemporalConstraint (from

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M2.1.11	M2.1.10	Change	Metaclass/Package
			TemporalConstraint)
state : State [*] {composite}		ditto	TemporalConstraint (from
			TemporalConstraint)
Constraints		ditto	TemporalConstraint (from
			TemporalConstraint)
No additional constraints		ditto	TemporalConstraint (from
			TemporalConstraint)
Transition (from		Added metaclass	Transition (from TemporalConstraint)
TemporalConstraint)			
Generalizations		ditto	Transition (from TemporalConstraint)
EAElement (from Elements)		ditto	Transition (from TemporalConstraint)
Attributes		ditto	Transition (from TemporalConstraint)
No additional attributes		ditto	Transition (from TemporalConstraint)
Associations		ditto	Transition (from TemporalConstraint)
quantificationGuard : Quantification [*]		ditto	Transition (from TemporalConstraint)
effect : TransformationOccurrence [01]		ditto	Transition (from TemporalConstraint)
timeGuard : LogicalTimeCondition [*]		ditto	Transition (from TemporalConstraint)
to : State [1]		ditto	Transition (from TemporalConstraint)
from : State [1]		ditto	Transition (from TemporalConstraint)
Constraints		ditto	Transition (from TemporalConstraint)
No additional constraints		ditto	Transition (from TemporalConstraint)
TransitionEvent (from		Added metaclass	TransitionEvent (from
Temporal Constraint)			TemporalConstraint)
Generalizations		ditto	TransitionEvent (from
			TemporalConstraint)
EAElement (from Elements)		ditto	TransitionEvent (from
			TemporalConstraint)

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M2.1.11	M2.1.10	Change	Metaclass/Package
BehaviorConstraintParameter (from		ditto	TransitionEvent (from
BehaviorDescription)			TemporalConstraint)
Attributes		ditto	TransitionEvent (from
			TemporalConstraint)
No additional attributes		ditto	TransitionEvent (from
			TemporalConstraint)
Associations		ditto	TransitionEvent (from
			TemporalConstraint)
occurredExecutionEvent : Event [*]		ditto	TransitionEvent (from
			TemporalConstraint)
occurredFeatureFlaw : FeatureFlaw		ditto	TransitionEvent (from
[*]			TemporalConstraint)
occurredHazardousEvent :		ditto	TransitionEvent (from
HazardousEvent [*]			TemporalConstraint)
occurredFaultFailure : FaultFailure		ditto	TransitionEvent (from
[*]			TemporalConstraint)
occurredLogicalEvent : LogicalEvent		ditto	TransitionEvent (from
[*]			TemporalConstraint)
Constraints		ditto	TransitionEvent (from
			TemporalConstraint)
No additional constraints		ditto	TransitionEvent (from
			TemporalConstraint)

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