

Document Title	Predefined Names in AUTOSAR
Document Owner	AUTOSAR
Document Responsibility	AUTOSAR
Document Identification No	600
Document Classification	Auxillary

Document Status	Final
Part of AUTOSAR Release	4.2.2

Document Change History		
Release	Changed by	Description
4.2.2	AUTOSAR Release Management	<ul style="list-style-type: none"> • Include abbreviations for Acceptance Tests
4.2.1	AUTOSAR Release Management	<ul style="list-style-type: none"> • Complete list of Module Abbreviation for each AUTOSAR document • Include additional keywords
4.1.3	AUTOSAR Release Management	<ul style="list-style-type: none"> • editorial changes
4.1.2	AUTOSAR Release Management	<ul style="list-style-type: none"> • harmonization of keywords with List of Basic Software Modules
4.1.1	AUTOSAR Administration	<ul style="list-style-type: none"> • editorial changes • harmonization of keywords with other documents
4.0.3	AUTOSAR Administration	Initial release

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Bibliography

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AUTOSAR_TR_InteroperabilityOfAutosarTools

1 Introduction

This document describes various predefined names used in AUTOSAR models and documents. The main purpose of this document is to serve as an entry point to find names which are predefined in AUTOSAR beyond the following documents:

- [1] Basic software module list
- [2] Application interfaces
- [3] Ecu configuration parameters

Note that the definitions in this document are also available as AUTOSAR XML model. In this model, the predefined names are represented as `Keywords` according to [4]. They are represented as tables with the following columns:

shortName: a unique name for the abbreviation, taken from `shortName` of `Keyword`

abbrName: This is the reserved name itself according to [4]. Note that the name might be rendered with line breaks in order to fit into the table cell. The reserved name in this column never has a white space, so the line breaks shall be ignored.

longName: This is the `longName` for the reserved name (see [5] for details about `longName`).

Classification, Description : This is the list of keyword `classifications` as referenced e.g. by [TPS_STDT_00042] respectively [TPS_GST_0017]. In addition to this, `desc` of the keyword is shown as well in order to understand the purpose of the reserved name.

2 [VirtualModules] Virtual Modules

This keyword set defines virtual modules which take the role of module designators in naming conventions but do not exist as e.g. C-implementations.

[TR_PDN_00001] Definition of Virtual Modules [This keyword set contains two keyword classifications:

- **ModuleDesignator:** The `abbrName` represents a valid module designator defined by AUTOSAR (see [TPS_GST_00017] in [5]).
- **AUTOSAR-Document:** The `shortName` represents a module name for the implementation of a specification provided by AUTOSAR (see [TR_IOAT_00069] in [6]).

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<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
AISpecification	AISpecification	XML Specification of Application Interfaces	AUTOSAR-Document, Module Designator This represents the Application Interfaces.
EcuC	EcuC	Ecu Configuration	ModuleDesignator EcuC is a pseudo module which defines parameters applicable to all other BSW modules.
GeneralBlueprints	GenBlpr	General Blueprints	ModuleDesignator Collection of blueprints for AUTOSAR M1 models.
GeneralDefinitions	GenDef	General Definitions	ModuleDesignator This represents general elements that can be applied for both, basic (BSW) and application software (ASW), but for which no explicit AUTOSAR Document is maintained. Example for objects in this virtual module are elements such as life cycle definitions, role definitions etc.

Table 2.1: Virtual Modules

3 [InformationCategories] AUTOSAR Information Categories

This keyword set denotes abbreviations used e.g. in filenames respectively in trace tags.

[TR_PDN_00002] Definition of AUTOSAR Information Categories [This keyword set contains the following keyword classifications:

- **DocumentCategory:** The keyword (*abbrName*) represents a valid category of a document provided by AUTOSAR (see [TPS_STDT_00050] in [4]).
- **TraceCategory:** The keyword (*abbrName*) represents a valid category of a traceable text within a document provided by AUTOSAR (see [TPS_STDT_00042] in [4]).
- **InternalDocumentCategory:** The keyword (*abbrName*) represents a valid category of a document internal to AUTOSAR which is not published but still follows the conventions.

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<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
ASWS	ASWS	Abstract SWS Software Specification	DocumentCategory, TraceCategory General Specification of AUTOSAR Basic Software Modules
ATR	ATR	Acceptance Test Requirement	DocumentCategory, TraceCategory Specification of requirements for acceptance tests
ATS	ATS	Acceptance Test Specification	DocumentCategory, TraceCategory Test specification and scripts for the execution of acceptance tests
CONC	CONC	Concept Document	DocumentCategory, TraceCategory Concept describing planned changes for the next minor or major release
CTCF	CTCF	Configuration Settings	DocumentCategory, TraceCategory Configuration settings for the execution of conformance Tests
CTSP	CTSP	Conformance Test Specification	DocumentCategory, TraceCategory Test specification and scripts for the execution of conformance tests
EXP	EXP	Explanation	DocumentCategory, TraceCategory Explanatory material discussing contents already shown in other documents
MMOD	MMOD	MetaModel	DocumentCategory, TraceCategory Modeled contents (a model or generated from a model) on meta level 2 (Meta-Model)
MOD	MOD	Model	DocumentCategory, TraceCategory Modeled contents (a model or generated from a model) on meta level 1 (Model)
PD	PD	Process Description	DocumentCategory, TraceCategory Description of process applied within AUTOSAR standardization activities
RS	RS	Requirement Specification	DocumentCategory, TraceCategory Specification of requirements other than for software specifications
SRS	SRS	Software Requirement Specification	DocumentCategory, TraceCategory Specification of requirements for software specifications

<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
SWS	SWS	Software Specification	DocumentCategory, TraceCategory Specification of AUTOSAR Software
TPS	TPS	Template Specification	DocumentCategory, TraceCategory Specification of AUTOSAR Templates, containing Meta model information, constraints etc.
TR	TR	Technical Report	DocumentCategory, TraceCategory A general technical report describing arbitrary AUTOSAR related topics
UC	UC	Use Case Specification	TraceCategory Specification of use cases from which requirements are derived. Note that there are documents which maintain the use cases in their requirement spec. So this documentCategory may exist, even if it is not an own artifact.
ZAUX	ZAUX	Auxiliary material	InternalDocumentCategory Auxiliary files used internally for the creation of the standard. May be merged with ZSUPP.
ZGEN	ZGEN	Generated intermediate material	InternalDocumentCategory Generated intermediate products which are maintained in the SCM system of AUTOSAR and used internally for the creation of the standard
ZSUPP	ZSUPP	Supplemental material	InternalDocumentCategory Supplementary material used internally for the creation of the standard

Table 3.1: AUTOSAR Information Categories

4 [DocumentAbbreviations] AUTOSAR Document Abbreviations for Trace Prefixes

These keywords represent the abbreviations to indicate documents e.g. in the requirements tags

[TR_PDN_00003] Document Abbreviations for Trace Prefixes [This keyword set contains the keyword classifications:

- **DocumentAbbreviation:** The *abbrName* represents a valid document abbreviation in tracing tags (see [TPS_STDT_00042] in [5]).

Note that there are cases where one document uses more than one abbreviation (e.g. [SWMC, SWNR], [MCM, MCG, MCA]). There are also cases where one abbreviation is used across multiple documents (e.g. [BSW]).

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<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
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<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
AIBodyAndComfort	AIBC	Application Interfaces "Body and Comfort"	DocumentAbbreviation This document explains Application Interfaces for "Body and Comfort".
AIChassis	AICS	Application Interfaces "Chassis"	DocumentAbbreviation This document explains Application Interfaces for "Chassis".
AIDesignPattern Catalogue	AIDPC	Application Interface Design Pattern Catalogue	DocumentAbbreviation This document contains Application Interface Design Pattern Catalogue.
AIHMIMultimediaAnd Telematics	AIHMI	Application Interfaces "HMI Multimedia and Telematics"	DocumentAbbreviation This document explains Application Interfaces for "HMI Multimedia And Telematics".
AIOccupantAnd PedestrianSafety	AIOPS	Application Interfaces "Occupant and pedestrian Safety"	DocumentAbbreviation This document explains Application Interfaces for "Application Interface Occupant and pedestrian Safety".
AIPowertrain	AIPT	Application Interfaces "Powertrain"	DocumentAbbreviation This document document explains Application Interfaces for "Powertrain".
AISpecification Examples	AISE	XML Examples of Application Interfaces	DocumentAbbreviation This represents XML Examples of Application Interfaces.
AIUserGuide	AIUG	Application Interfaces User Guide	DocumentAbbreviation This document aims at explaining all relevant details about the AI Table.
ApplicationLevelError Handling	ALEH	Application Level Error Handling	DocumentAbbreviation This document explains the Application Level Error Handling.
ARModelPersistence Rules	APRXML	Model Persistence Rules for XML	DocumentAbbreviation This document describes how a W3C XML schema specification compliant XML schema can be compiled out of the AUTOSAR meta-model or any other meta-model that is modeled according to the AUTOSAR modeling guidelines.
AutosarModel Constraints	ArModC	Autosar Model Constraints	DocumentAbbreviation This document explains Autosar Model Constraints.
ATBM	ATBM	Interaction with Behavioral Models	DocumentAbbreviation This document describes interaction with behavioral models.
BSWAndRTEFeatures	BRF	AUTOSAR BSW and RTE Features	DocumentAbbreviation This document specifies the features of the BSW Architecture and the RTE.
BSW	BSW	Basic Software	DocumentAbbreviation This abbreviation represents the superset of all BSW software requirement specifications. This means that this abbreviation is used throughout all Basic Software Specifications.
BSWModuleList	BSWML	Basic Software Module List	DocumentAbbreviation This document lists the BSW modules.

shortName	abbrName	longName	Classification, Description
BSWUMLModel ModelingGuide	BSWUMG	BSW UML Model Modeling Guide	DocumentAbbreviation This guideline describes the BSW UML Model modeling.
BSWUML	BSWUML	Basic Software UML model	DocumentAbbreviation This abbreviation represents the BSW UML model. This means that this abbreviation is used throughout all elements maintained in the BSW UML model.
BSWModuleDescription Template	BSWMDT	Basic Software Module Description Template	DocumentAbbreviation This document specifies how to describe a Basic Software
BWCStatement	BWC	BWC Statement	DocumentAbbreviation This document describes the backward compatibility statement.
CDDDesignAnd IntegrationGuideline	CDDG	CDD Design And Integration Guideline	DocumentAbbreviation This guideline describes the Design and the Integration of CDD.
CommunicationCan	COMCAN	Communication on Can	DocumentAbbreviation Relevant for communication on CAN.
CommunicationFlexray	COMFR	Communication on Flexray	DocumentAbbreviation Relevant for communication on Flexray.
CommunicationLin	COMLIN	Communication on Lin	DocumentAbbreviation Relevant for communication on LIN.
Communication Management	COMMGMT	Communication Management	DocumentAbbreviation Relevant for communication management.
CommunicationViaBus	COMVB	Communication via a bus	DocumentAbbreviation Relevant for communication via a bus.
Diagnostic	DIAG	Requirements on Diagnostic	DocumentAbbreviation The goal of AUTOSAR WP Diagnostics and this document is to define to what extent elements of the diagnostic basic software have to be configurable and what preliminaries they shall comply with to meet the tailoring requirements. The handling of the legislated OBD and enhanced Diagnostics shall also be achieved.
EcuModeManagement	ECUMGMT	ECU Mode Management	DocumentAbbreviation Relevant for ECU mode management.
ECUConfiguration	ECUC	Specification of ECU Configuration	DocumentAbbreviation This document specifies the technical details of the ECU configuration
ECUConfiguration Parameters	ECUCP	ECU Configuration Parameters	DocumentAbbreviation This document describes ECU Configuration Parameters.
ECUResourceTemplate	ECUR	Specification of ECU Resource Template	DocumentAbbreviation This specifies how to describe Resources of an ECU
ErrorDescription	ED	Error Description	DocumentAbbreviation This document explains the Error Description.

shortName	abbrName	longName	Classification, Description
ErrataSheet	ERSH	Errata Sheet	DocumentAbbreviation This document explains the Errata Sheet.
FrancaIntegration	FCAINT	Franca Integration	DocumentAbbreviation This document describes the Franca Integration.
Features	Feature	Feature Specification Acceptance Tests	DocumentAbbreviation Feature Specification of the acceptance tests.
FeatureModelExchangeFormat	FMDT	Specification of Feature Model Exchange Format	DocumentAbbreviation This specifies how to describe the Feature Model Exchange Format.
FreeRunningTimer	FRT	Free Running Timer	DocumentAbbreviation This document describes the Free Running Timer.
Glossary	GLOS	Glossary	DocumentAbbreviation This document lists all Glossary items.
GenericStructureTemplate	GST	Generic Structure Template	DocumentAbbreviation This specifies common aspects applicable to all templates.
Gateway	GTW	Gateway	DocumentAbbreviation This document explains the Gateway.
InteroperabilityOfAutosarTools	IOAT	Interoperability of AUTOSAR Tools	DocumentAbbreviation This document describes various aspects of interoperability of AUTOSAR tools.
IOHWAbstraction	IOHWAB	IO Hardware Abstraction	DocumentAbbreviation This document describes the IO Hardware Abstraction.
InterruptHandlingExplanation	IRH	Interrupt Handling Explanation	DocumentAbbreviation This document explains the Interrupt Handling.
SRSLibraries	LIBS	Requirements on Libraries	DocumentAbbreviation This document specifies requirements on the AUTOSAR Libraries.
LayeredSoftwareArchitecture	LSA	Layered Software Architecture	DocumentAbbreviation This document describes the Layered Software Architecture.
MainRequirements	Main	AUTOSAR Main Requirements	DocumentAbbreviation This document specifies the AUTOSAR main requirements.
AIMeasurementCalibrationDiagnostics	MCAI	Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	DocumentAbbreviation This document discusses how to automatically generate display names for measurement, calibration and diagnostic tools (MCD).
AIMeasurementCalibrationDiagnostics_Assumptions	MCA	Assumptions in Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	DocumentAbbreviation This keyword reflects the assumptions how to automatically generate display names for measurement, calibration and diagnostic tools (MCD). The keyword is used for document internal tracing

shortName	abbrName	longName	Classification, Description
AIMeasurement CalibrationDiagnostics_ GenerationRules	MCG	Generation Rules in Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	DocumentAbbreviation This keyword reflects the generation rules how to automatically generate display names for measurement, calibration and diagnostic tools (MCD). The keyword is used for document internal tracing.
AIMeasurement CalibrationDiagnostics_ ModelingRules	MCM	Modeling Rules in Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	DocumentAbbreviation This keyword reflects the modeling rules of how to automatically generate display names for measurement, calibration and diagnostic tools (MCD). The keyword is used for document internal tracing.
AIMeasurement CalibrationDiagnostics_ Requirements	MCR	Requirements in Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	DocumentAbbreviation This keyword reflects the requirements of how to automatically generate display names for measurement, calibration and diagnostic tools (MCD). The keyword is used for document internal tracing.
MemoryServices	MEM	Requirements on Memory Services	DocumentAbbreviation This document specifies requirements on Basic Software Modules of the memory services.
Methodology	METH	AUTOSAR Methodology	DocumentAbbreviation This describes the AUTOSAR Methodology.
MethodologyModel Rules	MethModR	Methodology Model Rules	DocumentAbbreviation This document describes the Methodology Model Rules.
MiscSupport	MICS	Miscellaneous Support	DocumentAbbreviation This document contains miscellaneous support items.
MetaModel	MM	Meta Model	DocumentAbbreviation This document describes the Meta Model.
MemoryHWAbstraction Layer	MMHWABLY	Memory Hardware Abstraction Layer	DocumentAbbreviation This document describes the Memory Hardware Abstraction Layer.
ModeManagement Guide	MMG	Mode Management Guide	DocumentAbbreviation This guideline describes the Mode Management.
ModeMgm	ModeMgm	Mode Management	DocumentAbbreviation This document specifies Mode Management in AUTOSAR.
MultiCoreGuide	MTCG	Multi Core Guide	DocumentAbbreviation This guideline describes Multi Core.
MethodologyAnd TemplatesGeneral	MTG	General Requirements on Methodology and Templates	DocumentAbbreviation This document has the purpose to collect requirements on Methodology and Templates which are relevant for more than one document.
PredefinedNames	PDN	AUTOSAR PredefinedNames	DocumentAbbreviation This document describes various predefined names used in AUTOSAR.

shortName	abbrName	longName	Classification, Description
ProjectObjectives	PO	AUTOSAR Project Objectives	DocumentAbbreviation This document specifies the AUTOSAR Project Objectives.
ReferenceBase	RefBase	Reference Base	DocumentAbbreviation This document contains Reference Base items.
Requirements	Requirement	Requirements Acceptance Tests	DocumentAbbreviation Requirements for the acceptance tests.
ReleaseOverviewAndRevHistory	RORH	Release Overview And Rev History	DocumentAbbreviation This document provides a Release Overview and Rev History.
RTE	RTE	Runtime Environment	DocumentAbbreviation This document specifies the AUTOSAR Runtime Environment.
SAE	SAE	Society of Automotive Engineers	DocumentAbbreviation This document describes the network standard developed by the Society of Automotive Engineers.
SafetyExtensions	SAFEX	Specifcation of Safety Extensions	DocumentAbbreviation This document specifes how to describe the safety relevant properties and requirements of an AUTOSAR System.
XMLSchema Supplement	SchemaSupp	XML Schema Supplement	DocumentAbbreviation This document explains the XML Schema.
SafetyConceptStatus Report	SCSR	Safety Concept Status Report	DocumentAbbreviation This document explains the Safety Concept Status Report.
SomelpExample	SIPEX	Somelp Example	DocumentAbbreviation This document contains Somelp Examples.
SPAL	SPAL	Standard Peripheral Abstraction Layer	DocumentAbbreviation This document describes the Standard Peripheral Abstraction Layer.
SafetyUseCase	SUC	Safety Use Case	DocumentAbbreviation This document explains the Safety Use Cases.
SWCModeling	SWCM	Software Component Modeling	DocumentAbbreviation This document describes the modeling of Software Components.
SoftwareComponent Template	SWCT	Software Component Template	DocumentAbbreviation This document specifies how to describe Software Components.
SWCModelingGuide	SWMG	SW-C and System Modeling Guide	DocumentAbbreviation This document gives guidelines and conventions on using the AUTOSAR model elements in order to build AUTOSAR systems.

<i>shortName</i>	<i>abbrName</i>	<i>longName</i>	<i>Classification, Description</i>
SWCModelingGuide_ NamingRules	SWNR	Naming Rules in SW-C and System Modeling Guide	DocumentAbbreviation This document gives guidelines and conventions, in particular the naming rules on using the AUTOSAR model elements in order to build AUTOSAR systems.
Standardization Template	STDT	Standardization Template	DocumentAbbreviation This specifies how AUTOSAR Standardization is represented as ARXML file.
SystemTemplate	SYST	System Template	DocumentAbbreviation This document specifies how to describe AUTOSAR Systems.
TimingAnalysis	TIMAY	Specification of Timing Analysis	DocumentAbbreviation This document explains the Timing Analysis.
TimingExtensions	TIMEX	Specification of Timing Extensions	DocumentAbbreviation This document specifies how to describe the timing of an AUTOSAR System.
TTCAN	TTCAN	Requirements on TTCAN	DocumentAbbreviation This document specifies the additional TTCAN requirements for the CAN BSW stack.
UtilizationOfCrypto Services	UOC	Utilization Of Crypto Services	DocumentAbbreviation This document explains the Utilization of Crypto Services.
VirtualFunctionalBus	VFB	Virtual Functional Bus	DocumentAbbreviation This document describes the Virtual Functional Bus.
XMLSchema	XMLS	XML Schema	DocumentAbbreviation This document describes the XML Schema.

Table 4.1: AUTOSAR Document Abbreviations for Trace Prefixes