Release Presentation

ASAM AE HIL API 1.0.1 (Maintenance)

Regensburg, 2011-02-01/02 (ASAM TSC Meeting)

association for standardisation of automation and measuring systems

Deliverables

Programmers Guide
- ASAM_AE_HIL_BS_API-for-ECU-Testing-via-HIL-Simulation_V1-0-1.pdf

Generic UML Model
- ASAM_AE_HIL_BS_V1-0-1.EAP
  - ASAM_AE_HIL_BS_V1-0-1_HTML-Export
- ASAM_AE_HIL_BS_ErrorOverview_V1-0-1.xls

Templates
- XML schema files for EES Configuration and Stimulus Signal Description (*.xsd, *.xml, *.sti)

Technology Reference Interfaces
  Python
    - ASAM_AE_HIL_AS_Python-API-Technology-Reference-V1-0-1.pdf
      - subfolders for each Port and Common with py files
  JAVA
    - ASAM_AE_HIL_AS_Java-API-Technology-Reference-V1-0-1.pdf
      - subfolders for each Port and Common with java files
  C#
    - ASAM_AE_HIL_AS_C#-API-Technology-Reference-V1-0-1.pdf
    - subfolders for each Port and Common with cs files

Sample Code Examples for Client Side and Dummy Implementation for Server Side (each port specific and for Common)
- Python
- JAVA
- C#

ASAM

Introduction

For the ASAM AE HIL API Version 1.0.0 a corresponding maintenance project was started.

The projected lasted from Sept. 2009 until End of 2010.

A lot of feedback coming from first implementations of the different HIL API ports was evaluated regarding errors, unclear documentation or missing parameterisations.

Maintenance was done based on current ASAM TSC Guidelines.

All received change requests were collected, developed, assessed and after decision integrated. All items were managed in a corresponding Bugzilla configuration. All proposals are stored in the project archive.

association for standardisation of automation and measuring systems

ASAM

What's new (part 1)

Date	CR_Number	package	subpackage	class	method	changes
08.02.2010	CR_664_Common. Symbol	Common	Signal	SignalSymbol	getChannel --> getSignal	renamed
					setChannel --> setSignal(signal:SignalDescription)	renamed
					SignalSymbol(signal:SignalDescription)	parameter renamed
08.02.2010	CR_665_OperationSignalDescription	Common	Signal	OperationSignalDescription	getLeftSignal():SignalDescrption	return typ corrected
					getRightSignal():SignalDescription	return typ corrected
25.03.2010	CR_660_Downsampling	Common	Capturing	Capture	setDownsampling(downSampling:A_UINT64)	new
					getDownsampling():A_UINT64	new
25.03.2010	CR_678_Messdauer und Delay des Triggers	Common	Capturing\Enum		EDurationUnit	new
		Common	Capturing\Enum	EDurationUnit	eSECONDS	new
					eSAMPLES	new
		Common	Capturing	Capture	getDurationUnit():EDurationUnit	new
					setDurationUnit(durationUnit:EDurationUnit)	new
25.03.2010	Correction of CaptureResult property MetaData	Common	CaptureResult	CaptureResult	GetMataData --> setMetaData(metaData:StringNamedCollection)	setter was copied wrong
25.03.2010	CR_663_Missing_Timeout_for_ConditionWatcher	Common	WatcherHandling	ConditionWatcher	getTimeout():A_FLOAT64	new
					setTimeOut(timeOut:A_FLOAT64)	new
25.03.2010	referring Errorcodes	Common	Enum	ErrorCodes	eCOMMON_NOT_SUPPORTED	new
					eCOMMON_COULD_NOT_SET_DOWNSAMPLING	new
26.05.2010	errorcodes for CR 661	Common	Enum	ErrorCodes	eCOMMON_ARGUMENT_NULL	new
					eCOMMON_NAME_ALREADY_EXISTS	new
					eCOMMON_FILE_NOT_FOUND	new
					eCOMMON_LOAD_FAILED	new
					eMA_LOADTOTARGET_FAILED	new
					eMA_START_FAILED	new
					eMA_STOP_FAILED	new
					eMA_STATEREQUEST_FAILED	new
					eMA_LOAD_FAILED	new
					eMA_PAUSE_FAILED	new
					eMA_SAVE_FAILED	new
					eMA_DESTROYONTARGET_FAILED	new

What's new (part 2)

Date	CR_Number	package	subpackage	class	method	changes
16.09.2010	Rename of ECaptureState and EDurationUnit	Common	Capturing	ECaptureState --> CaptureState		renamed
				EDurationUnit --> DurationUnit		renamed
	New numbering of Enum elements : start with 0	Common	Capturing	CaptureState		renumbered
			Signal	InterpolationTypes		renumbered
				OperationTypes		renumbered
				SegmentTypes		renumbered
		EESPort		EESState		renumbered
				ErrorType		renumbered
		ECUPort		ECUPortState		renumbered
				LoadingType		numbered
		MAPort	Stimulus	SignalGeneratorState		renumbered
14.12.2010	new Error codes	Common	Enum	ErrorCodes	eCOMMOM_INVALID_METHODCALL_FETCH=1039	new
					eCOMMON_WRONG_VECTOR_TYPE=1040	new

Compatibility

Following the TSC guidelines a maintenance release have to be backward compatible to its base release, here to Version 1.0.0 of ASAM HIL API. Backward compatible in this sense means, that a script, written for a V1.0.0 implementation have to run also with a V1.0.1 implementation.

Exceptions to this rule, which have to be made during V1.0.1 maintenance:

I: Due to detected inconsistencies between Generic UML model Technology references some few methods have been renamed. The old version 1.0.0 methods have been eliminated.

II: Due to detected semantic deficits some methods have been extended regarding their parameter lists. Wherever possible, this was addressed by parameter defaulting in the corresponding technology references.

Release Presentation

association for standardisation of automation and measuring systems