



Release Presentation

ACI 1.4.0

Release Date: 2014 / 07 / 03

Deliverables

ACI 1.4.0

The deliverable of ASAM ACI version 1.4.0 includes:

Folder: Specification

- ▶ ASAM_CAT_ACI_BS_1-2_ProgrammersGuide_V1-4-0.pdf

Folder: Technology Reference

- ▶ ASAM_ACI_V1-4-0.idl

Folder: Model

- ▶ ASAM_CAT_ACI_Model_v140.mdl
- ▶ ASAM_CAT_ACI_BS_2-2_Programmers-Reference-Guide_V1-4-0.pdf

Introduction

ACI 1.4.0

- ▶ ASAM ACI is used in the area of ECU optimization, where an Automatic Calibration System (ACS) is connected with an Automation System (AUSY) on a test bed.
- ▶ All channels and measurement data are collected by the AUSY and transmitted to the ACS.
- ▶ CORBA is used for communication between AUSY and ACS. The performance of CORBA usually does not allow communication in real-time.
- ▶ The number of variables and measurement channels reach up between 10 and 100, which can be transmitted as one block.

Marketing

ACI 1.4.0

Project Goal

- ▶ Exchange of multi-dimensional parameters between Automatic Calibration System (ACS) and test bed Automation System (AUSY).
- ▶ Exchange of string channel types.
- ▶ Allow faster performance, up to 10Hz.

Use Cases

- ▶ Allow automatic ECU map calibration, which include setting of single values or setting of values of a map area at once.
- ▶ Allow automated driving of road profiles.

What's New?

ACI 1.4.0

- ▶ Channels are transmitted up to 5 times faster.
- ▶ Efficient reading and writing of maps from AUSY:
 - Single map values
 - Area of map values
 - Complete map
- ▶ Reading and writing of strings.
- ▶ Choose correct interface-version (if there is more than one ACI version on the AUSY system).

Compatibility

ACI 1.4.0

- ▶ Version ACI 1.4.0 is backward-compatible to ACI 1.3.2
- ▶ Interconnectivity
 - Connection of ACS with ACI 1.2-compliant interface to an AUSY with ACI 1.4-compliant interface
- ▶ Cross testing has been carried out successfully.