ASAM ACI 1.3 Specification

Summary ASAM-TAB Chemnitz, July 11, 2006





Deliverables

> Released by ACI group, Plenum June 27, 2006

- Specification 1.3
- Programmers Reference Guide (API description)
- >UML description (Rational mdl file, html file)
- Interface description in Corba-IDL

Basis for API library generation (Java, C++, Python, ...)

- Corba Reference Implementation (Corba guideline)
- >Test catalogue (test cases for server certification)



What's new in ACI 1.3

ACI 1.2 only input/output channels for float data

ACI 1.3 input/output channels for

Float data
Integer data
Digital i/o

Angular Movement of Cam

Additional data types possible without API modification

Inspection of channel range (from...to)



What's new in ACI 1.3

> ACI 1.2 steady state measurement

ACI 1.3 transient measurement support

- Sevents to synchronize data sampling period
 - Start of a measurement
 - Stop of a measurement
 - Start & stop of a measurement
- Sevent processing with pre- and post delays
- Each measuring object has its own independent trigger
- Seasurement data supplied with time stamps



Synchronization with 1 Trigger

Data sampling synchronized by Start Trigger Event

- persistent data sampling triggered by start event (+/- delay)
- persistent data sampling period terminates when buffer full
- data buffer size and sampling rate depend on AuSy (configurable within AuSy's capability limits)



Synchronization with 2 Triggers (Start Trigger & Stop Trigger)





A Concrete Application

