ASAM OTX Extensions V3.1.0
Release Presentation

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<dd.MMMM.yyyy>

ASAM
Association for Standardization of
Automation and Measuring Systems

Introduction

What is OTX?

- OTX = Open Test sequence eXchange, published by ISO 13209

- OTX is a domain specific programming language (DSL) for process reliable description of exchangeable and executable test logic inside automotive industry

```
namespace HelloWorldPackage1
{
    public procedure main()
    {
        HMI.ConfirmDialog("Hello World");
    }
}
```

- OTX can ensure that the same unchanged test logic can be executed in any target system at any time and comes to the same results

- OTX is open, it can be extended and in compliance with the standard for applications inside new areas also outside of vehicle diagnostics

Background and Motivation

- Two previous projects since 2015 (P2014-11, P2017-02)

  - Creation of 23 new OTX extensions

- Limitation for all previous projects: No schema changes for ISO 13209 part 2 and 3!

  - Inside this project this limitation was skipped, so that part 2 and 3 can be also improved

- Motivation: Add new functionality, ensuring exchangeability, improvement of OTX quality and standard acceptance

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Project Key Figures

- March 2020 – March 2022

  - Concept Project until July 2021

  - Standard Development Project after July 2021

- 24 month, 530 man-days total committed work

- 25 full day meetings

- Working on 124 change requests

  - 36 new features (improvements), 57 maintenance as well as 31 rejected issues

- Maintenance of part 2, 3 and 4

  - Because of productive usage in different OEMs revelation of gaps and errors

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Deliverables

P2019-08

ASAM OTX Extensions specification (ISO 13209-4)

- Results shall be ISO 13209 compliant

- Results shall be transferred to ISO 13209 part 4

Correction sheets for ISO 13209-02, -03

UML model

OTX Schema files

Examples for the different extensions

Main new Features and Improvements

Results of Part 4 (New Extensions)

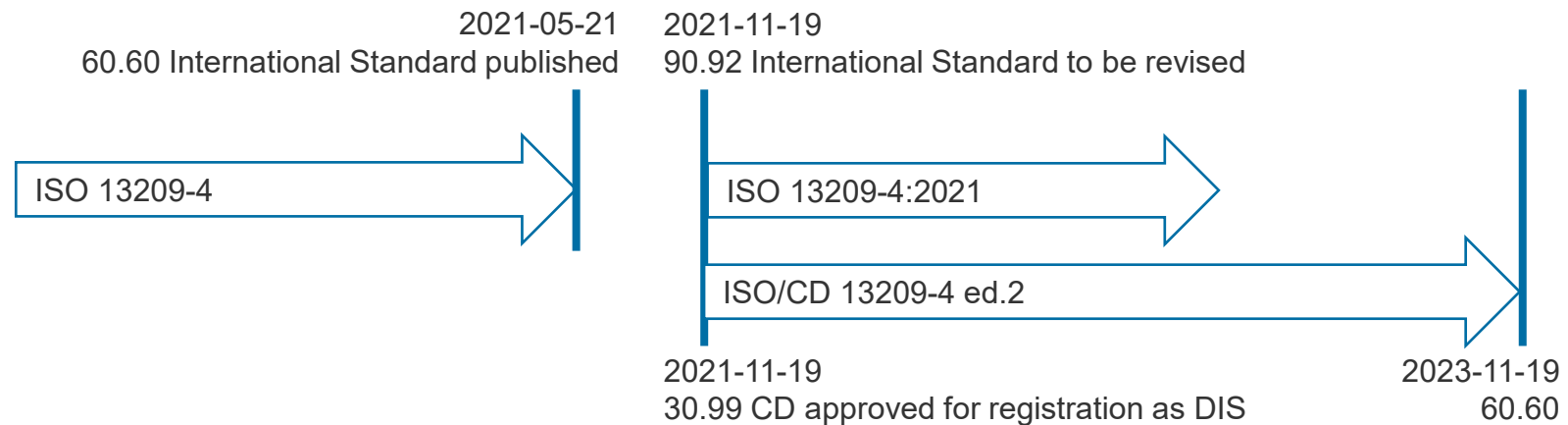| Ticket	Description	State
4401	DiagComPlus: New terms **GetResponseEndTime** and **GetRequestEndTimeFromResult** for time stamps delivered by MVCI server	✓
4411	DiagComPlus: New actions to extent the **inline mapping** of request and response parameters: SetRequestParameters and ReadResponeParameters	✓
4457	DiagDataBrowsingPlus: Missing term **IsDiagTroubleCodeParameter** added	✓
4466	Closing gaps of **EcuConfiguration** Extension	✓
4524	DataType: New element **mediaType** added to data type ResourceLocation to distinguish different types of resources	✓
4533	DataType: Missing initial value for **Structures** added	✓

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Current State Part 4 – New Extensions

P2019-08 Transfer to ISO

Publication of standard ISO 13209-4:2021 in 2021-05-21

Start of a 2nd edition in 2021-11-19 until 2023-11-19

- Because of real productive usage inside the FDIS phase revelation of errors, gaps and limitations

ISO 13209-4:2021 in stage International Standard to be revised (90.92)

2021-05-21
60.60 International Standard published

2021-11-19
90.92 International Standard to be revised

ISO 13209-4

ISO 13209-4:2021

ISO/CD 13209-4 ed.2

2021-11-19
30.99 CD approved for registration as DIS

2023-11-19
60.60

Thank you for your attention!

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