



EasyWay



Standardization CEN TC278

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Why Standardize?

ITS Standardization bodies

CEN TC278

Production of Standards

Evolution of DATEX

Improvements

Discussion, any questions?

To open up to wider community and indicate consensus

To promote and accelerate (pan) European implementations

To provide common and unambiguous understanding of data

Interoperability of our IT-systems

Other?



European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung



- TC278 Road Transport and Traffic Telematics
 - Chair: NL Secretariat: NEN
 - Working Groups



International
Organization for
Standardization

- TC204 Intelligent Transport Systems
 - Chair: USA Secretariat: ANSI
 - Working Groups

Links

- WWW.NEN.NL/TC278
- WWW.CEN.EU/BOSS
- WWW.ISO.ORG



Active working Groups

- WG1 Electronic Fee Collection
- WG3 Public Transport
- WG4 Traffic Travel Information
- WG8 Road Databases / DATEX II
- WG12 Human Machine Interface
- WG13 Architecture
- WG14 Recovery Stolen Vehicles
- WG15 eSafety
- WG16 Cooperative Systems

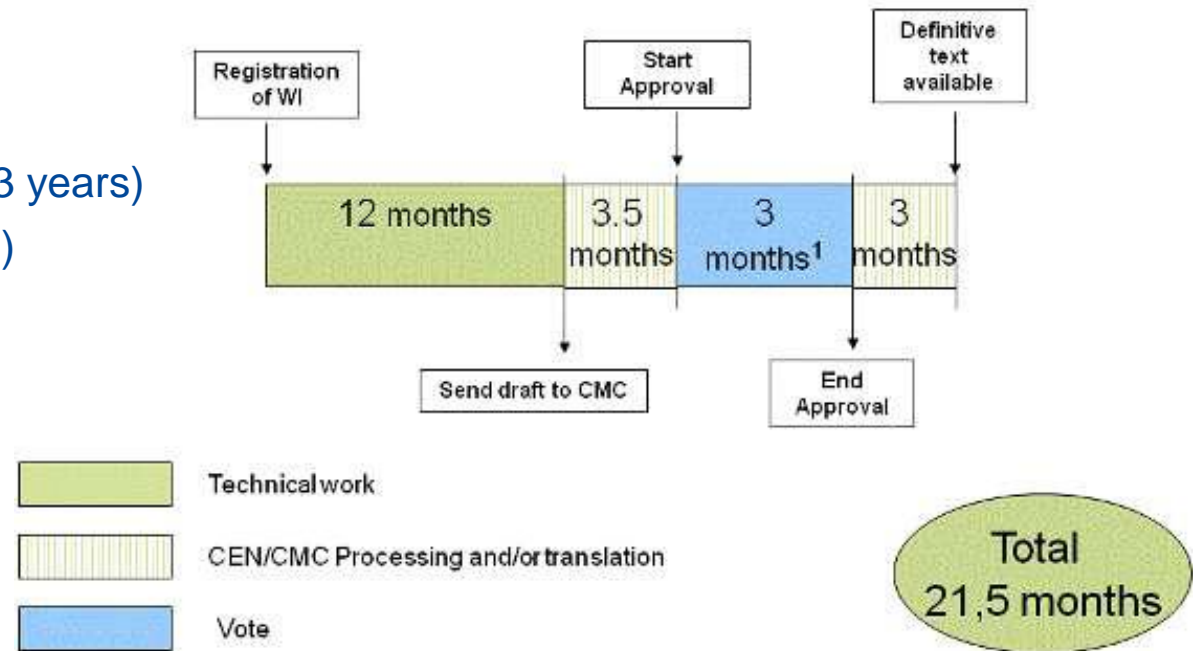
Stakeholders DATEX II

- Road operators/agencies (participants in Easyway, CEN)
- Service/data providers, industry

Production Process

- Work Item Proposal
- 5 Active participant members
- Product
 - Technical Report
 - Technical Specification (3 years)
 - European Norm (5 years)

Time frame for TS



*An extension of maximum 9 months may be requested

¹Technical specifications (TS) by weighted vote and Technical reports (TR) by simple majority vote

DATEX (1998 – 2000)

Dictionary with supporting semi-formal data models, message oriented:

- Data dictionary (ENV 13106)
- Exchange spec (ENV 13777)

Specs prepared by early EC projects (DRIVE etc)

DATEX II (2008 – 2011)

Formal UML model → Dictionary

- Context & Framework (TS Part-1)
- Location referencing (TS Part-2)
- Situation Publication (TS Part-3)
- Variable Message Sign
- Measured data
- Elaborated data
- Traffic View
- Communication Specifications

Specs prepared by Easyway DII Technical Group

CEN TC278 WG8 ↔ ISO TC204 WG9 (US, Korea, Japan...)

1997-2000 : preliminary work on data models

2000-2002 : DATEX ASN (ISO 14827) for C2C communications

2010 : renewed interest in Communication Specifications

- Need expressed, but no clear requirements yet in WG9
- European requirements (Easyway) forwarded to WG9, quote:
- Implementation of requirements should have in mind the following guidelines:
 - WI-proposal DATEX II communications should strive to come closer to existing IT standards
 - The solutions should be taken from the IT mainstream and not be invented in the ITS domain

What has improved in DATEX II (2000 – 2010)?

- Use of common IT methods, languages
- Models are in lead
- Automation of production process
- Maintainability, extensibility
- From dedicated messages towards framework standard

What could be improved?

- Harmonisation between standards
- Overview, landscape, architecture
- Link between communities, stakeholders
- Early involvement of R&D

Bottlenecks

- Why, what's the (business)case?
- “Architectures” are informative
- Legacy, individual life-cycles
- Coordination, steering

Incentives for change : ITS Action Plan, Cooperative systems

Any questions , any suggestions?



Thanks for your attention !