



EasyWay



DateX II Roadmap: Deployment Guidelines

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Are

- General document
- Large scale principles describing:
 - Required ICT Infrastructure Standards and agreements
 - ...
 - Service level
 - Business Model
 - ...

Are not

- Detailed information document
- User Guide
- Developer's Guide
- Examples for developers

Is

- General document
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 - Business Model
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ITS action plan and national ITS frameworks

Core service descriptions as developed by EW partners

DATEX II
DG

Available technology,
approved specifications and standards

Is not

- Detailed information document
- User Guide
- Developer's Guide
- Examples for developers

- To comply to the ITS Action Plan rules
- To ensure the continuity of ITS services for passenger and freight in transport

Therefore it's a need:

- To speak the same language
- To limit the development of specific interfaces
- To use the same dictionary
- To use the same Grammatik

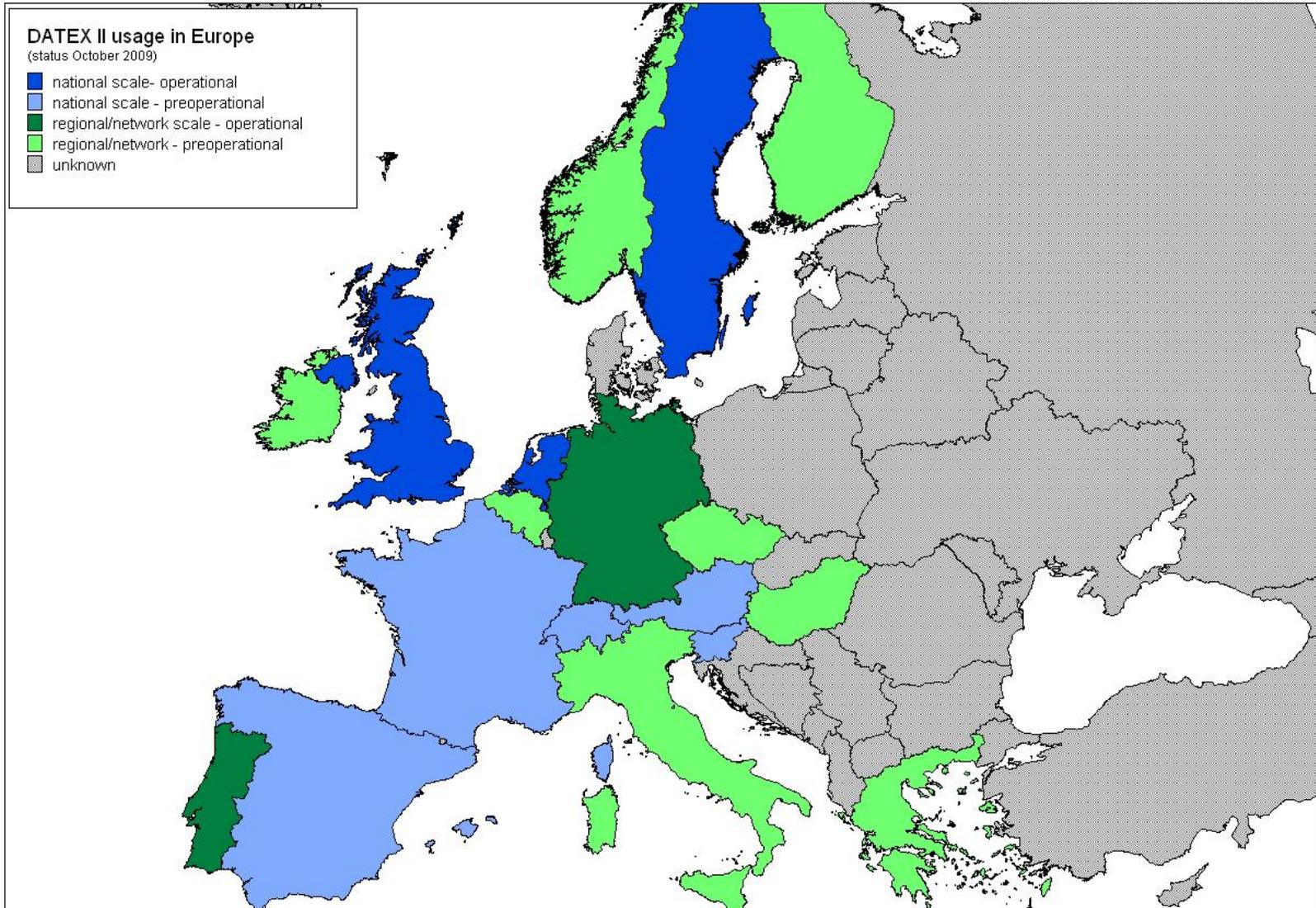
Situation described without Datex

- At the break of dawn on a beautiful winter's morning, first day of the Advent, while lay languorously the morning mist, happened an usual incident at the very spot where the local bailiff was executing embellishment of the sit in order to ensure its suitability for steeds, which had lasted since before the Spring new moon and which should have ended on the penultimate moon of Autumn but had been extended due to woe betiding the country and was not resting although it was the lord's day, occupying both the upper cobblestones and the muck of the wayside in direction of the castle, bringing tragedy to the lives of two yokels knocked down by the steed of a valiant knight, himself slain by the fall.

Same situation described within Datex using 4 events

- Accident with 3 dead persons including one VIP on the 29th November 2009 at 7:00 AM
- Weather related : Fog
- Roadworks from 26th March to 2nd November every day Sunday excepted overrunning with no end known
- Road Management Fast lane and hard shoulder closed northbound

Datex II coverage



The main objectives for DATEX II is to be **platform independent**.

Datex II:

- Is using Internet and its standards (http and soap)
 - Uses UML (Unified Modelling Language) for modelling of the traffic information and control domain
 - Uses the XML Schema (eXtensible Markup Language Schema Description) directly obtained from UML model
 - Uses the WSDL (Web Service Description Language) to facilitate the development of software and exchange
 - Is just a part of the TCC, TIC or service operator (Website provider, TMC broadcasters, ...) systems and don't need special additional computer configuration.
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- To prove it : One Datex II standalone application on a USB Key uses data provided from both France and Spain and needs only a PC with an internet connection to run



DATEX specification is now in process for standardisation to become a CEN Technical Specification:

- Part 1: Context and framework
- Part 2: Location referencing
- Part 3: Situation publication

Cooperation with ISO TC204 is initiated for developing a common standard

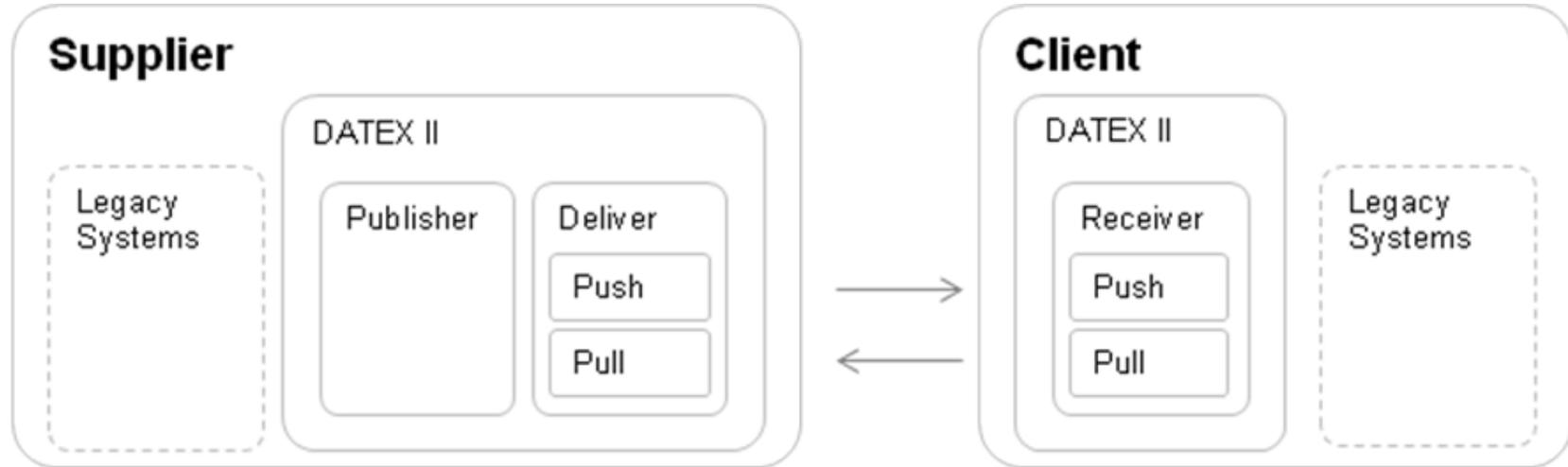
Further developments are also in view:

- VMS publication
- TMP management using Datex II messages and exchange
- Extensions capability ...

Modelling

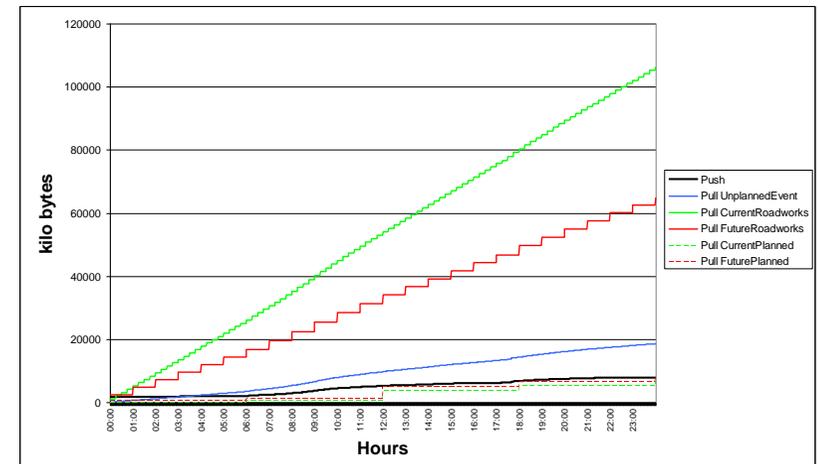


Exchange schema



PUSH or PULL

- Road Operator to Road Operator
 - PUSH
- Road Operator to Service provider
 - PULL or PUSH
- Service Operator to ...
 - PULL for website or map
 - PUSH for TMC services or other on air services



Datex II is built to allow extensions

Level A

- Use of the standard model

Level B

- Full interoperability with Level A

Level C

- Need the same Level by both partners

Level 0: Data Exchange

- In 1993, was signed the Data Exchange Memorandum of Understanding covering international exchange of traffic data

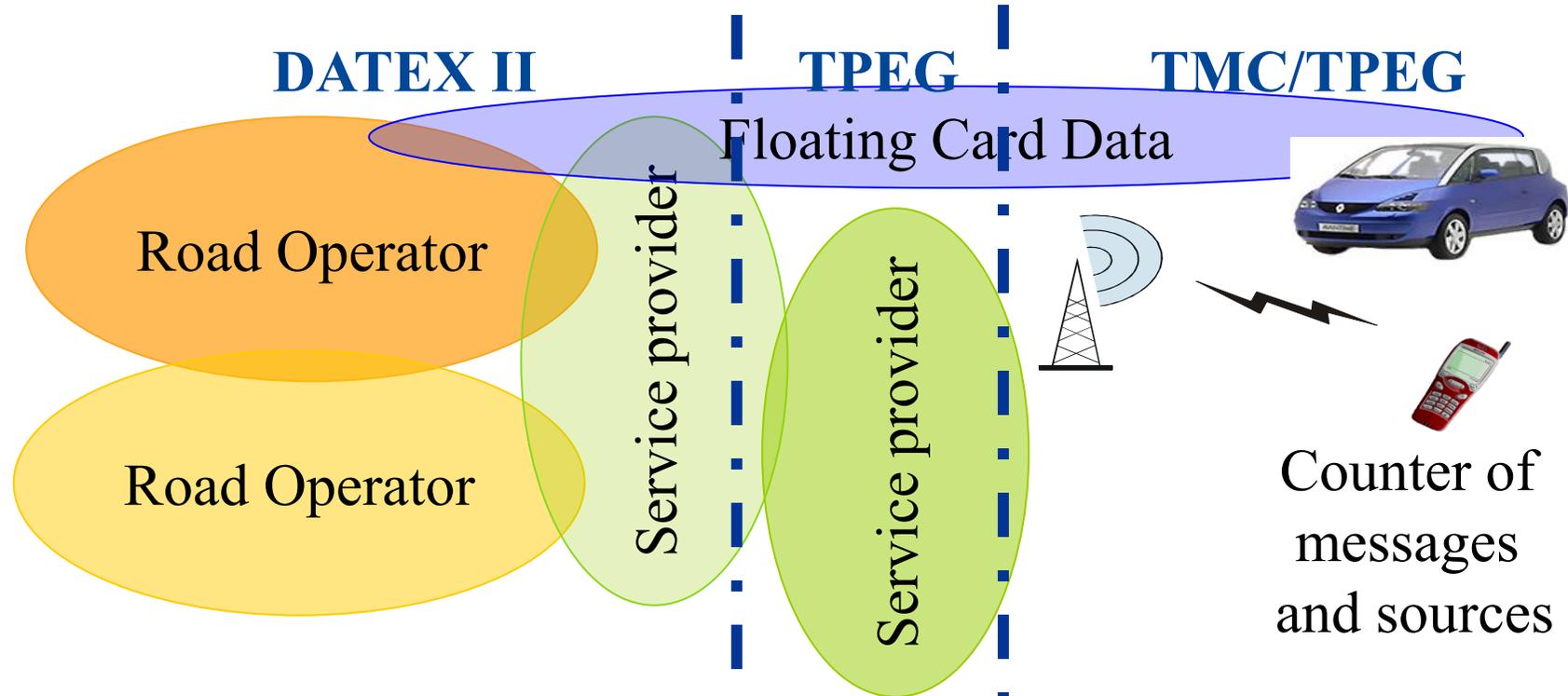
Level 1: DATEX II Technical specifications

- the future DATEX II technical specifications must be followed in order to be fully compliant with the formal base approved by the CEN (Committee European of Normalisation)

Level 2: Interchange data agreement

- Countries or parties interested in using DATEX II could define in which terms they are going to exchange data according to their needs.

DATEX II does not force business model elements on its users



But DATEX II contains in each message, identification of the organisation which is the source of the information and of the organisation which provides this information.

So at the user level, implemented in the On Board Unit, the use of this information can be filtered and a feedback can be sent to **systems which can balance and dispatch the cost.**

STREETWISE

- Map
- Option use
- Link with ITS Action Plan

Sweden (Arne Lindenberg)

- Better Assist Implementors
- Document market oriented approach
- Increased references to documentation

Brussels (Dimitri Strobbe)

- Clarify differences between traffic centres – service providers
- Address V2V and V2I
- Need for evaluation of certain data concepts (e.g. Level of Service, TMC-location table granularity, ...)
- Is use of TPEG possible in DATEXII for location referencing?

Norway (Hans Westerheim)

- more practical approach, recommendations for options to choose

Denmark (Henrik Friis and Leif Rystrøm)

- Elaborate on Liaison
- Information on implementations

Roumania (Florin NEMTANU)

- Minimum configuration should be described

**Thank you for your attention
and your further contribution to the deployment guidelines**



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