

CO-OPERATIVE SYSTEMS

4th ETSI TC ITS Workshop “Safe, Smart and Sustainable Traffic via Cooperative ITS”

Session 3:



EC Mandate for CEN and ETSI Standardization

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Convenor CEN/TC278/WG16 and ISO/TC204/WG18



Involved WGs in CEN and ISO

 CEN/TC278	 ISO/TC204
<ul style="list-style-type: none"> ▪ <u>WG13</u>: Architecture 	<ul style="list-style-type: none"> ▪ <u>WG1</u>: Architecture
	<ul style="list-style-type: none"> ▪ <u>WG3</u>: Database Technology
<ul style="list-style-type: none"> ▪ <u>WG1</u>: Electronic Fee Collection 	<ul style="list-style-type: none"> ▪ <u>WG5</u>: Fee and Toll Collection
	<ul style="list-style-type: none"> ▪ <u>WG7</u>: General Fleet Management and Commercial/Freight Operations
<ul style="list-style-type: none"> ▪ <u>WG8</u>: Road Data 	<ul style="list-style-type: none"> ▪ <u>WG9</u>: Integrated Transport Inform., Management and Control
<ul style="list-style-type: none"> ▪ <u>WG4</u>: TTI 	<ul style="list-style-type: none"> ▪ <u>WG10</u>: Traveller Information Systems
	<ul style="list-style-type: none"> ▪ <u>WG14</u>: Vehicle/Roadway Warning and Control Systems
	<ul style="list-style-type: none"> ▪ <u>WG16</u>: CALM
<ul style="list-style-type: none"> ▪ <u>WG16</u>: Cooperative Systems 	<ul style="list-style-type: none"> ▪ <u>WG18</u>: Cooperative Systems

WG13/WG1 activities



- WG13: Architecture

- WG1: Architecture

Definition and Terminology

TR 17465

November 2012

Common Harmonized Interoperable Data Registry and Dictionary (CHIRD) for ITS

TR xxxxx

September 2012

WG3 activities



ISO/TC204

- WG3: Database Technology

1. Geographic Data Files (GDF 4.0) - ISO 14825 - published
2. Geographic Data Files (GDF 5.0) - DIS 14825 - end 2012
3. Physical Storage Format (PSF) and Application Program Interface and Logical Data Organization for a PSF used in ITS Database Technology
TS 20452 - End 2012
- 4. Extension of map database specifications for advanced driver assistance systems (ADAS) and cooperative systems**
NP 14296 - April 2013
5. Location Referencing – ISO 17572 – published
6. Application Programming Interface – ISO 17267 – published
7. Road geometry messages and regulation information processing
Navigation Data Delivery Structures and Protocols - DIS 24099
8. Location referencing – ISO 17572 - published

Local Dynamic Map standardization

Local Dynamic Map standardization is driven by 3 parties

- ISO/TC204/WG3
- ISO/TC204/WG18-DT3
- ETSI TC ITS WG1

Coordination of all activities will be assured by ISO/TC204/WG18-DT3

Layer Relations:

- Layer 3 and 4
Dynamic and highly dynamic data

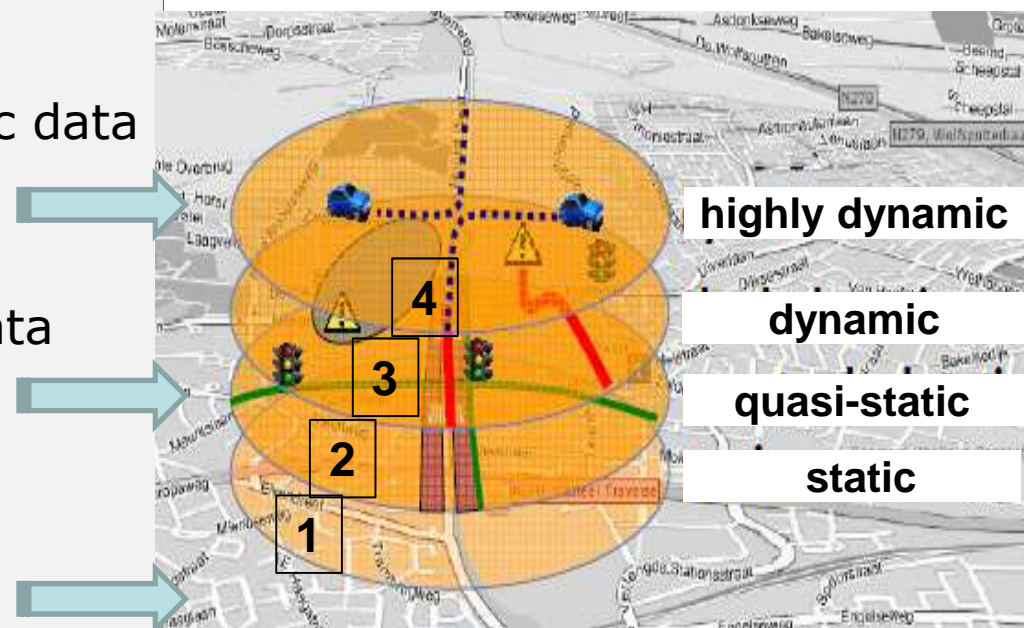
ETSI TC ITS WG1

- Layer 2 and 3
Quasi-static and dynamic data

ISO/TC204 /WG18-DT3

- Layer 1 and 2
Static and quasi-static data

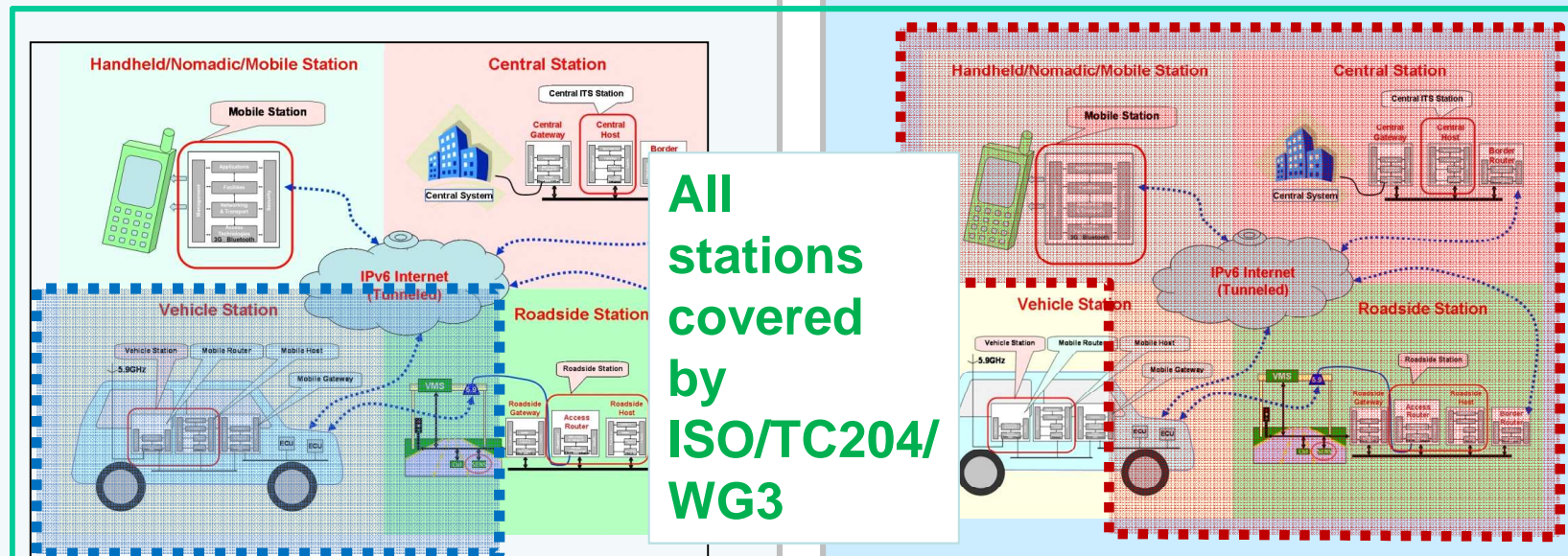
ISO/TC204/WG3



Local Dynamic Map standardization

Work area of ETSI STF:
Vehicle ITS Station (V2V)
Roadside ITS Station (V2I only)

Work area of CEN/ISO (WG18):
Roadside ITS Station
Central ITS Station
Nomadic ITS Station
Vehicle ITS Station (I2V only)



WG8/WG9 activities



▪ WG8: Road Data

▪ WG9: Integrated Transport Inform.,
Management and Control

1. Data interfaces between centres for transport information and control systems

Part 1: Message definition requirements - ISO 14827-1 - published

Part 2: DATEX-ASN – ISO 15784-1 - published

2. Data exchange involving roadside modules communication

Part 1: General principles and documentation framework of application profiles – ISO 15784-1 - published

Part 3: Application profile-data exchange (AP-DATEX) –
ISO 15784-3 - published

3. Data exchange involving roadside modules communication

Part 2: Application Profile – SNMP

ISO AWI 15784-2 – mid 2013

4. Interface Protocol and Message Set Definition between Traffic Signal Controllers and Detectors

ISO DIS 10711 – mid 2013

WG14 activities



- WG14: Vehicle/Roadway Warning and Control Systems

1. Forward Vehicle Collision Mitigation Systems
CD 22839 – end 2012
2. Forward Vehicle Collision Warning Systems
ISO 15623 - published
3. Forward Vehicle Collision Warning Systems (revised)
CD 15623 – mid 2013
4. Intersection Signal Information and Violation Warning Systems
NP 26684 – end 2013

WG16/WG18 activities



CEN/TC278



ISO/TC204

▪ WG16: Cooperative Systems

▪ WG18: Cooperative Systems

1. Classification and management of ITS applications in a global context - TS17419 – November 2012
2. ITS application requirements for selection of communication profiles TS17423 – November 2012
3. State of the art of Local Dynamic Maps concepts - TR 17424 – June 2012
4. Definition of a global concept for Local Dynamic Maps – EN xxxxx
5. Roles and responsibilities in the context of co-operative ITS based on architecture(s) for co-operative systems - TS 17427 – November 2012
6. Data exchange specification for in-vehicle presentation of external road and traffic related data - TS 17425 – November 2012
7. Profiles for processing and transfer of information between ITS stations for applications related to transport infrastructure management, control and guidance - TS 17429 – November 2012
8. Contextual speeds - TS 17426 – November 2012



Transportation Sustainability Environment
Consulting

TSE

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