



## **CEN/TC278/WG1 & ISO/TC204/WG5 Status report to ISO/TC204 October 2012**

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# prCEN ISO/TS 17444-2 Charging performance – Part 2: Examination framework

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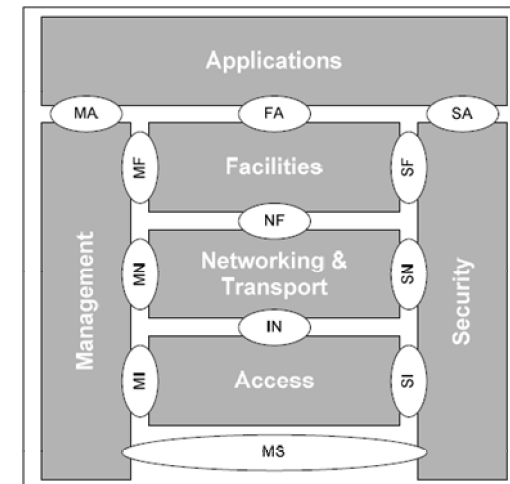
- **Objectives**
  - Charging performance evaluation and monitoring for discrete and continuous charging schemes to support procurement and service level agreements
- **Scope**
  - Definition of the methods (data collection, processing...) to support the evaluation and monitoring of the Charging performance metrics defined in part 1
- **Outside the scope**
  - Specific numeric performance bounds, or average or worst-case error bounds in percentage or monetary units
  - Evaluation of the expected performance of a system based on modelling and measured data from trial at another place
- **Status and target**
  - CEN WI adopted in March 2012 (TC278 N2666)
  - ISO NP letter ballot, replies by 2012-05-28 (TC204 N2909)
  - **Parallel “TC review” closed in 2012-09 (TC278 N2777)**
  - CEN FV / ISO DTS ballot: 2013-04
- Drafting is supported by PT134

# prCEN TR WI 278315 Guidelines for EFC-applications based on in-vehicle ITS stations

- **Objective :**
  - Assessment of the technical and operational feasibility of using a generic ITS Station @ ETSI EN 302 665 "ITS - Com arch" for EFC applications
- **Scope**
  - Comparison of the ITS and EFC architectures
  - Core requirements for operation of an EFC app on an ITS Station
  - Potential synergies between EFC and ITS applications
  - Requirements for the ITS Station to support EFC apps
  - Recs on standards needed to support deployment of or actions to reduce barriers for deployment of EFC applications on an ITS Station

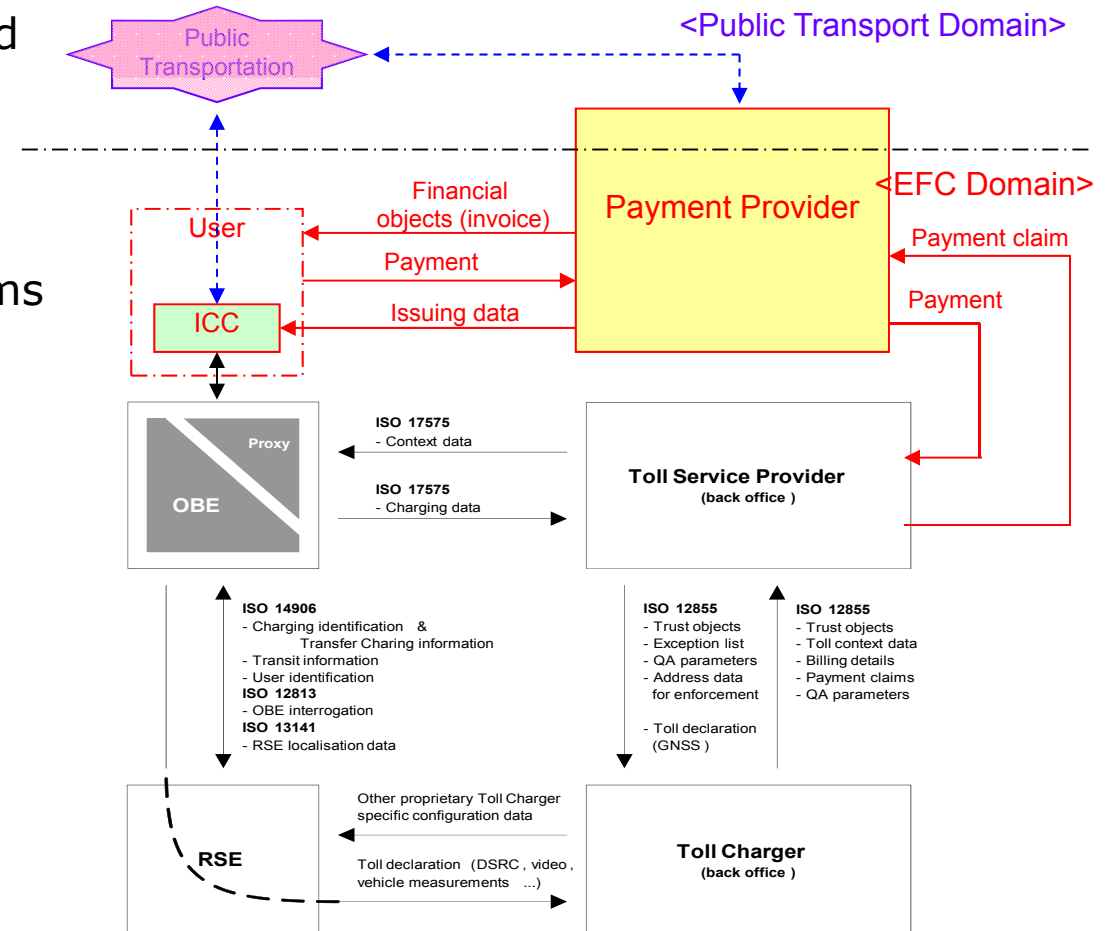
- **Status and target**
  - WI adopted in 2011-08 (TC278 N2538)
  - Working draft (WG N1654)
  - TC review: 2013-02
  - FV: 2013-07

- Drafting is supported by PT136



# How to apply EFC standards to multi-modal transport services using common payment media

- Objective and scope**
  - Assess the need to extend the EFC standards suite (e.g. ISO 17573 and EN ISO 12855) to provide a suitable support for on-board account EFC systems
  - Assess the need for a standardised interface between EFC and other transport services, e.g. public transport
- Status and target**
  - ISO/TR is being drafted (WG N1562)
  - "TC review": 2013-02
  - DTR: 2013-07



# ISO/WD-TS 16785 - Interface definition between DSRC-OBE and external in-vehicle devices

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- **“Interface definition between DSRC-OBE and external in-vehicle devices”**
  - Idea originating from Japan (editorial support from Korea, Singapore ...)
  - DSRC-based OBU that might be combined with external devices (GNSS, cellular etc)
  - Scope: To define the interface between DSRC based OBE and external unit to cope with diversified tolling schemes
- **Status and target**
  - PWI TS adopted in Nov 2010 (TC204 N2674, Nov 2010)
  - Latest working draft (WG N1613)
  - **ISO TS WI adopted in March 2012 (N2912, NP letter ballot result)**
  - “TC review”: 2013-02
  - ISO DTS ballot: 2013-07

## Miscellaneous (1)

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- **CEN ISO/TS 17444-1 Charging performance – Part 1: Metrics:** approved in ISO and CEN in 2012-10 (TC278 2776)
- **CEN/TS 16439 EFC – Security framework:** approved in 2012-08 (TC278 N2715)
- **CEN ISO/TS 25110 EFC - Interface definition for on-board account using ICC on-board account using ICC**
  - SR closed on 2012-03-15; 11 confirmed the TS, 1 with minor corrections (TC204 N2914)
  - **Draft for ISO DTS / CEN FV submitted in 2012-07**
- **Future work**
  - **Profile standard for EN ISO 12855** “Information exchange between Service provision and Toll charging”; a questionnaire (TC278 N2655) circulated to collect stakeholders’ requirements and experiences. 12 responses received. **CEN NWI proposal is being drafted**

## Miscellaneous (2) QA - Initial thoughts

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- **Current situation**

- Room for improvement
- Importance of QA grows with the number of EFC standard compliant systems and published standards

- **Needs (WG N1583)**

- Ensure harmonised definitions of terms across the ITS/EFC suite of standards
- Ensure correct ASN.1 data definitions and use of existing definitions whenever applicable
- Early identification and resolution of conflicting definitions
- Effective procedures for maintenance of our standards (corrections, extensions ...)
- Appropriate dissemination of corrections and anticipated future extensions

- **Solutions - terms and definitions**

- ISO database for standardized terms and definitions
- Central repository of standardised EFC terms (WG N1605) - a blueprint for CEN/TC278 & ISO/TC204?

## Miscellaneous (3) QA - Initial thoughts

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- **Solutions - data definitions**
  - Central repository of the proposed changes and their provisional handling (WG N1606), incl maintenance of the ASN.1 modules
  - Rec to include **ASN.1 module as electronic inserts** in future ITS/EFC stds
  - **Best practice and recs on how to present (EFC) data definitions (WG N1655)**. ISO/TR 25100:2012 "Harmonization of ITS data concepts" and ISO 14813-6:2009 "ITS ref model – Data presentation in ASN.1" taken into account in the analysis
- **Solutions – maintenance on top-up of the formal systematic review**
  - Provisional handling of post adoption comments on published stds – WG internal repository (WG N1628)
  - Preparation of corrigenda, when appropriate
- **Do other WGs face similar challenges? WG is interested to exchange lessons learnt and best practice**



## Miscellaneous (4)

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- EFC 2006 Grant Agreement
  - 2 ENs and 4 TS
- EFC 2007 Grant Agreement
  - 1 EN, 15 TS and 4 TRs
- **EFC 2010 Grant Agreement**
  - Security framework & Charging performance metrics (TC278 N2362)
  - Target : 3 TS - approval expected by H1/2013
- **EFC 2011 Grant Agreement (2011-38)**
  - Secure monitoring for autonomous toll systems — Compliance checking
  - Guidelines for EFC-applications based on in-vehicle ITS stations
  - Target : 1 TS and 1 TR – approval expected by mid 2014
- **EFC 2012 Grant Agreement Application (2012-21)**
  - Secure monitoring for autonomous toll systems — Trusted recorder
  - Interoperable application profiles for information exchange between Service Provision and Toll Charging
  - Coordination of PTs and support to the EC
  - **Agreement was signed in 2012-09. Call for experts (N2741), deadline to apply is 2012-11-02**

## CEN/TC278/WG1 and ISO/TC204/WG5

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**Recent meetings:** 27-28 June 2012, Zürich (Switzerland)

**Next meetings:** 16-17 October 2012, Moscow (Russia)  
**17 Oct joint meeting with C-ITS**  
23-24 January 2013, London (UK)  
April 2013, Paris (tbc)  
26-27 June 2013, Helsinki (Finland)  
8-9 October 2013, Kobe (Japan)

**Members:** Australia, Austria, Canada, China, Czech Republic, Finland, France, Germany, Italy, Japan, Korea, Netherlands, Norway, Poland, Portugal, Slovenia, South Africa, Spain, Sweden, Switzerland, United Kingdom

In total **47 expert members** from 21 countries (15 CEN)

**Subgroups:** SG1 - Trond Foss: Info exchange, architecture, security  
SG2 - Jean François Jouen: DSRC based EFC, testing  
SG5 - Ian Catling: GNSS/CN based EFC

**Liaisons:** EC DG TREN, EC Electronic Toll Committee, ETSI ITS, CEN/WG3 & ISO/WG8, CEN WG16 & ISO /WG18, ISO/WG16, IEEE 1609, CEN/TC224/WG11

## Convenor's recommendations to TC204 (1)

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1. ISO/TC204 resolves to launch the DTS ballot for the following work item, under CEN lead, subject to prior decision by CEN/TC278: CEN ISO/TS 17444-2 "Electronic fee collection – Charging performance – Part 2: Examination framework"
2. ISO/TC204 resolves to launch a revision of the following work item, and submit an updated draft for parallel DIS ballot / CEN Enquiry :  
EN ISO 12855:2012 Electronic fee collection - Information exchange between service provision and toll charging

## Convenor's recommendations to TC204 (2)

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3. ISO/TC204 resolves to launch a full revision and upgrade of the following work items to EN ISO, and submit updated drafts for parallel DIS ballot / CEN Enquiry :
- CEN ISO/TS 17575-1: 2010      Electronic fee collection - Application interface definition for autonomous systems – Part 1: Charging
  - CEN ISO/TS 17575-2: 2010      Electronic fee collection - Application interface definition for autonomous systems – Part 2: Communication and connection to the lower layers
  - CEN ISO/TS 17575-3: 2011      Electronic fee collection - Application interface definition for autonomous systems – Part 3: Context data
  - CEN ISO/TS 17575-4: 2011      Electronic fee collection - Application interface definition for autonomous systems – Part 4: Roaming
  - CEN ISO/TS 12813:2009      Electronic fee collection - Compliance check communication
  - CEN ISO/TS 13141:2010      Electronic fee collection – Localisation augmentation communication

## TC204 Melbourne WG5-related resolutions - status

Res no	Content	Status
922	Noting the result of the systematic review ballot on the following standard, ISO TC204 resolves to launch a minor revision of it and subsequently send the updated draft to the parallel CEN FV / ISO DTS ballot, pending successful comment resolution: CEN ISO/TS 25110 Electronic fee collection – Interface definition for on-board account using ICC	Comment resolution report in WG N1626 . Updated 25110 and CRR submitted to TC204 secretariat in 2012-07 for launching of the parallel ISO DTS / CEN FV.
923	Noting the result of NP ballot, ISO TC204 resolves for the following work item to prepare an updated draft and subsequently send it to CD “comments only” ballot (3 months): ISO/NP 16785 “Electronic fee collection – Interface definition between DSRC – OBE and external in-vehicle devices”	Latest working draft (WG N1657)  Time plan: - CD comments only (“TC review”): 2013-02 - ISO DTS ballot: 2013-07

## **WG5 room requirements for TC204 meeting in Seattle, USA, April 2013**

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- **No WG5 meeting is scheduled to take place in conjunction with the TC204 meeting in Seattle (USA), in April 2013**