



Related CEN/ISO standardisation activity

Interoperability Forum
Technical Sub-Committee
17th October 2008

Overview

- 1. Relevant Completed EFC Standards & Specifications**
- 2. CEN ISO EFC Architecture**
- 3. Relevant EFC Standards & Specifications in Development**
- 4. Relevance to IF Work Areas**
- 5. CEN Project Teams**
- 6. prEN ISO 12855: Information Exchange between Service Provision and Toll Charging**

Relevant Completed EFC Standards & Specifications

DSRC Interface

EN ISO 14906: 2004 – EFC Application interface definition

EN 15509: 2007 – Interoperability Application Profile

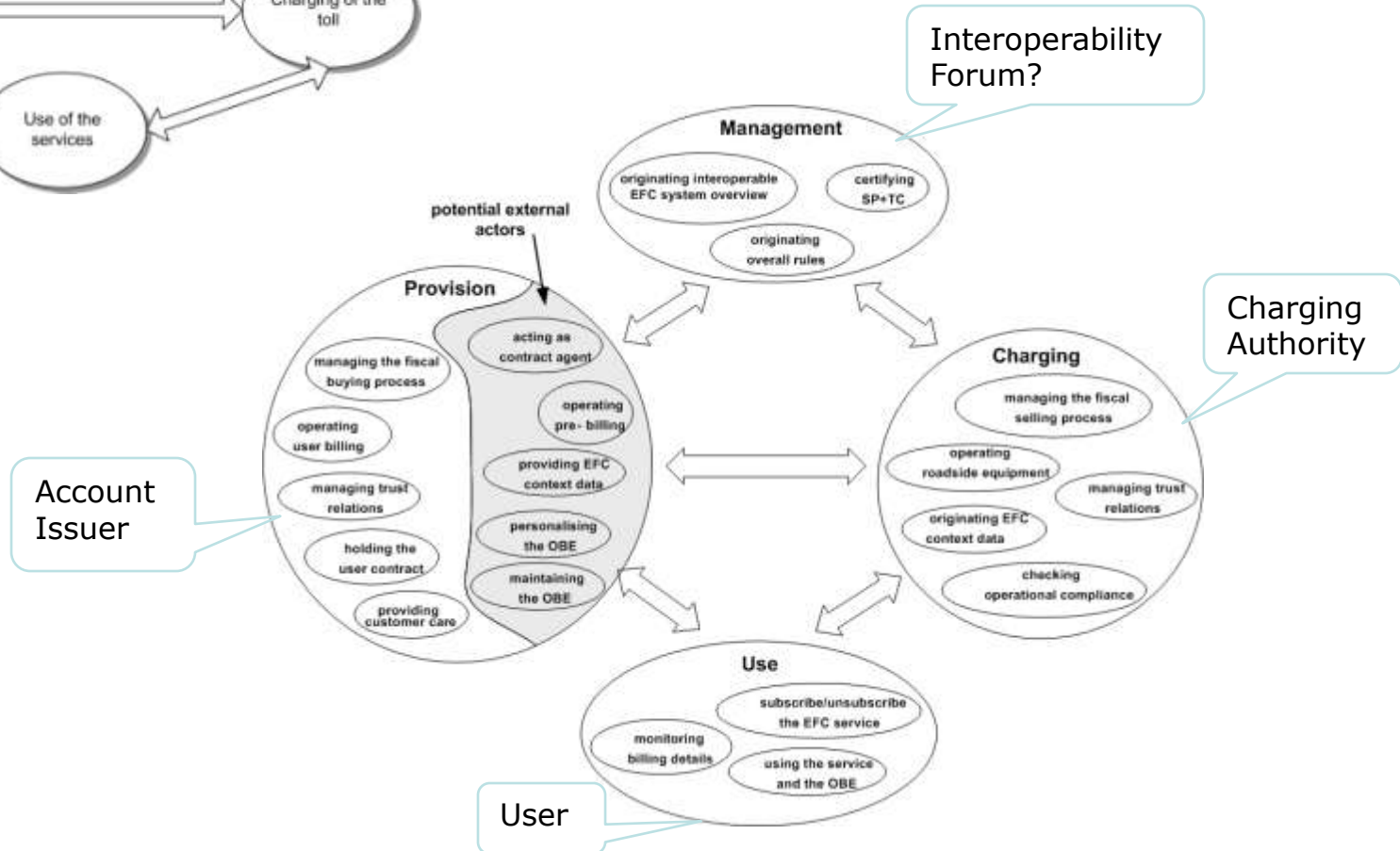
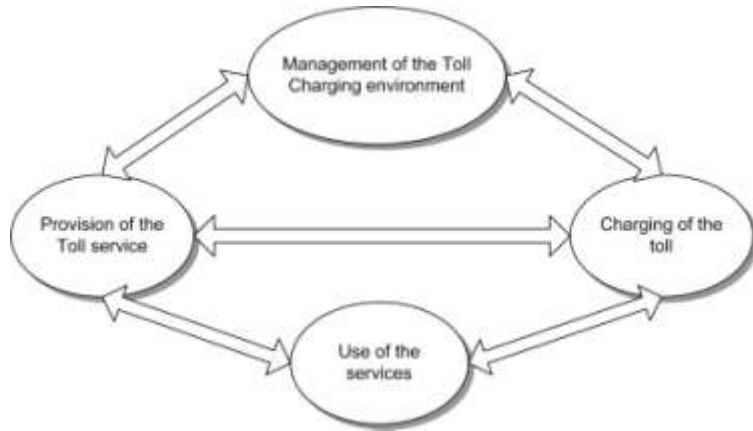
Back Office

CEN ISO TS 17573 EFC System architecture for vehicle related transport services

Security

CEN ISO/TS 17574 – EFC security services framework – guidelines for security protection profiles

CEN/ISO EFC Architecture



Relevant EFC Standards and Specifications in Development

Back Office

CEN ISO prEN 17573: EFC System Architecture

prEN ISO 12855: Information Exchange between Service Provision and Toll Charging

prCEN ISO/TS 17575 Application interface definition for GNSS/CN based EFC

Part 1 – Charging Data Information (Back Office to Back Office)

Part 3 – Context data (Charging Scheme definition)

DSRC Interface

prCEN ISO/TS 12813: Compliance Checking of GNSS/CN over DSRC

Testing

Conformity evaluation of OBE and RSE to EN 15509

Conformity evaluation of OBE and RSE to TS12813

Relevance to IF Work Areas

| CEN/ISO Standard | Work Area | Item |
|------------------------|--|--|
| EN 15509 | Interfaces | 1 - Top-up |
| pr CEN ISO/TS 12813 | Interfaces | 1 - Top-up |
| pr CEN ISO/TS 17575-1 | Interfaces | 2 - Charging Data |
| pr CEN ISO/TS 17575-3 | Configuration Management | 1 - Assets and IDs |
| prEN CEN/ISO 12855 | Interfaces Security Configuration Management | 2 - Charging data 3 - Settle Charges 4 - Action List 5 - SUD 6 - Exceptions 7 - Image exchange 1 - Key management 2 - Back office Interface 1 - Assets and IDs |
| Conformity to EN 15509 | Testing | 1 - Testing & certification |
| Conformity to TS 12813 | Testing | 1 - Testing & certification |
| prEN 17573 | Configuration management | 2 - Configuration management challenge |

CEN Project Teams (1)

Public Calls for paid independent experts to develop draft standards

Funded by EC to accelerate the preparation of standards

Independent from CEN Technical Committees and Working Groups

Draft standards subject to CEN/ISO consensus and approval processes

50% payment on production of draft standard

50% on CEN/ISO adoption

Stakeholder engagement facilitates adoption

CEN Project Teams (2)

Current Active Project Teams

PT20 – prCEN ISO TS 17575 – Application Interface Definition for Autonomous Systems

PT21 – Conformity to 15509

PT22 – CCC - Compliance Check Communication

- LAC – Location Augmentation Communication

PT23 – Conformity for CCC and Conformity for LAC

PT24 – Information exchange between service provision and toll charging

PT25 – requirements for a universal prepayment system for EFC

PT26 – personalisation and mounting of first mount OBE

PT27 - Urban requirements for DSRC

CEN Project Team Membership

| Project Team | Scope | Membership |
|--------------|---|---|
| PT20 | ISO 17575 Parts 1-4 | Mr. Wolfgang Beier (EETS-consulting) (project leader) Mr. Bernhard Oehry (Rapp Trans) Mr. Dave Marples (Technolution) Mr. Jan Kersten (Kapsch) Mr. Erich Erker (Siemens) |
| PT21 | Conformity to EN 15509 | Mr. Edward Hirst (QFree) (project leader) Mr. Fausto Caneschi (Lecit Consulting) Mr. Ernst Magerl (Rapp Trans) |
| PT22 | Compliance Check Communication Location Augmentation Communication | Mr. Bernhard Oehry (Rapp Trans) (project leader) Mr. Jasia Tijink (Kapsch) Mr. Wolfgang Beier (EETS-Consulting) Mr. Miroslav Marc (Agencia Griva) Mr. Guillaume Lakshmanan (independent consultant) |
| PT23 | Conformity for CCC and LAC | Mr. Karl-Ernst Ambrosch (independent consultant) (project leader) Mr. Jan Gorecki (Nokia Siemens) Mr. Ernst Magerl (Rapp Trans) |
| PT24 | prEN ISO 12855 – Information Exchange | Mr. Manfred Haase (ASFINAG) (project leader) Mr. Daniel Ohst (Toll Collect GMBH) Mr. Mark Wedlock (Rapp Trans) Mr. Fausto Caneschi (Lecit Consulting) Mr. François Malbrunot (Logma SA) |
| PT25 | Requirements for Prepayment | Mr. Klaus Philipp (DVB LogPay GMBH) (project leader) Mr. Manfred Haase (ASFINAG) |
| PT26 | Personalisation and mounting of first mount OBE | Mr. Jean-Marc Gautier (Egis Mobilité) (project leader) Mr. Franz Mühlethaler (PTV Swiss AG) Mr. Stefan Grannö (Kapsch) |
| PT27 | Urban DSRC Requirements | Mr. Trond Foss (SINTEF) (project leader) Mr. Mark Wedlock (Rapp Trans) Mr. Michael Bibaritsch (Prime Consulting Services) |

prEN ISO 12855: Information Exchange between Service Provision and Toll Charging (1)

Objectives:-

Support for cost effective integration of back office systems

Support for the European EFC Directive

Scope:-

Procedures for exchange of information between service provision and toll charging

Supported Functions:-

- Exchange of Trust Objects (introduce new organisations)**
- Originate and distribute EFC context data (Scheme info)**
- Manage Blacklist (Action List)**
- Report Billing details (Charge Record)**
- Claim payment for service usage (Settle Charges)**
- Enforcement related data (Charge Exception)**

prEN ISO 12855: Information Exchange between Service Provision and Toll Charging (2)

PT 24 Timetable:-

| Activity | Timescale |
|-----------------------|-------------------------|
| Kick-Off Meeting | 7 th October |
| Draft Standard for TC | March 09 |
| TC Commenting | 3 months |
| Revision of draft | 2 months |
| CEN Enquiry Phase | 8 months |
| CEN Formal Vote | April 2010 |

Interoperability Forum Engagement Options:-

- **Liaison with PT 24 – input to draft standard – till Feb 09**
- **TC Commenting stage - from March 09**
- **CEN Enquiry Stage – Autumn 09**