



TC 278 Road Transport and Traffic Telematics

N1939

Title	:	Presentation of CEN/TC 278 to the EC Tolling Committee, 2007-06-26
Source	:	Secretariat
Date	:	2007-07-03
Status	:	For information
Note	:	

Secretariat: Nederlands Normalisatie-instituut (NNI
Mr. J.A. Dijkstra
Vlinderweg 6
P.O. box 5059
2600 GB Delft
The Netherlands

n1939 TC 278 presentation to Tollign Committee.doc

: +31 15 2 690 127
: +31 15 2 690 242
: 38144 nni nl
: jelte.dijkstra@nen.nl
: http://www.nen.nl/cen278

















TC278 – Communication standards

• DSRC-suite:

- EN 12253, RTTT Dedicated short-range communication Physical layer using microwave at 5,8 GHz
- EN 12795, RTTT Dedicated Short-Range Communication (DSRC) — DSRC data link layer: medium access and logical link control
- EN 12834, RTTT Dedicated Short Range Communication (DSRC) — DSRC application layer
- EN 13372, RTTT Dedicated short-range communication Profiles for RTTT applications

2007-06-26 Page 9

- Test standards for DSRC (see ETSI presentation)
- TC224/WG 11 standards on IC cards

NEN SISS CEN/TC278/WG1 ISO/TC204/WG5 – Electronic Fee Collection Electronic Toll Committe - EFC Standardisation

TC278/WG1 - Completed Work

	TS 17573	EFC System architecture for vehicle related transport services	
	TS 17574	EFC security services framework – guidelines for EFC security protection profiles	
	ENV 14904	Interface specification for clearing between operators	
	EN 14906	EFC application interface definition for DSRC	
	ENV 14907-1	EFC Test procedures user and fixed equipment - Part Description of test procedures	1:
	TS 14907-2	EFC Test Procedures user and fixed equipment - Part Conformance test specification for onboard units	2:
	EN 15509	Interoperable Application Profile for DSRC	
² N		SO/TC204/WG5 – Electronic Fee Collection mitte - EFC Standardisation	2007-06-: Page

Example – EN 14906 "EFC-DSRC application interface definition"

Scope / properties:

- Transaction model
- 16 functions (e.g. "read", "write")
- 31 data sets (contract, vehicle, payment, receipt etc)
- To build tolling transactions
- Informative transaction (CARDME)

Impact: harmonised OBU equipment, basis for national / international tolling service

Used:

- > 25 countries and 80 systems
- > 22 millions OBU and 15k RSE

NEN SISS CEN/TC278/WG1 ISO/TC204/WG5 - Electronic Fee Collection Electronic Toll Committe - EFC Standardisation



WG1 - Under work

 TS 17573 EFC System architecture for vehicle related transport services – ongoing revision of the standard (-) EFC information flows between operators in EFC 	
(-) EFC information flows between operators in EFC	
Systems	
TS 25110 Interface definition for on-board account using Integrated Circuit Card	
(-) Conformity evaluation of on-board unit and roadside equipment to EN 15509 Part 1 – Test Suite Structure and Test Purposes Part 2 – Abstract test suite	
TS 17575 Application Interface Definition for GNSS/CN: Part 1 – Charging Part 2 – Communication Part 3 – Update Part 4 – Roaming	
NEN SSS CENTC278/WG1 ISO/TC204/WG5 - Electronic Fee Collection 20	07-06-2 Page 1



- These are no blueprints but enabling standards
- CEN has never had the task to do a "full" solution for EFC interoperability, only parts of the systems
- Decision process takes time (2-3 years)
- Basic problem is to agree on common (member states') requirements in a "young" sector.
 - Early national implementations (before standards)
 - Implementations have not started in some member states.

2007-06-26

Page 13

 We rely on voluntary work – the task is (sometimes) huge

MEN SISS CENTC278/WG1 ISO/TC204/WG5 - Electronic Fee Collection Electronic Toll Committe - EFC Standardisation



Possible new EFC standards to support the EETS

- Programme in the Mandate 338 report
- Proposed new work for support of the EETS:
 - Toolboxes: 17575, information flows between operators
 - Profiles: monitoring, localisation augmentation using DSRC, IAP for GNSS/CN
 - Test standards for: 17575, IAP-GNSS/CN, monitoring, etc.
 - Technical reports: personalisation of first mount OBU, urban RUC requirements, universal pre-payment, value added services based on GNSS/CN compatible OBE

2007-06-26

Page 1

 Details in TC278 input to new ICT work programme (N1937)

NEN SIS CEN/TC278/WG1 ISO/TC204/WG5 – Electronic Fee Collection Electronic Toll Committe - EFC Standardisation



CEN/TC278 co-ordinates

Henk Stoelhorst, TC278 Chairman Rijkswaterstaat/AVV P.O. Box 1031 3000 BA Rotterdam, The Netherlands Phone: +31 10 282 59 09 Fax: +31 10 282 56 44 e-mail: h.j.stoelhorst@avv.rws.minvenw.nl Jelte Dijkstra, TC278 Secretary NEN P.O. Box 5059 2600 GB Delft, The Netherlands Phone: +31 (0)15 2 690 127 Fax: +31 (0)15 2 690 242 e-mail: Jelte.Dijkstra@nen.nl

CEN/TC278/WG1 co-ordinates

Jesper Engdahl, WG1 Convenor Rapp Trans AG Hochstrasse 100 CH-4018 Basel, Switzerland Phone: +41-61-335 78 53 Fax +41-61-335 77 00 e-mail: jesper-engdahl@rapp.ch Johan Hedin, WG1 Secretary Hybris Konsult AB Ormbergsvägen 16 S-117 67 Stockholm, Sweden Phone: +46 8 658 15 25 Fax: +46 8 658 15 25 e-mail: johan.hedin@hybris.se

CEN/TC278/WG1 ISO/TC204/WG5 – Electronic Fee Collection Electronic Toll Committe - EFC Standardisation

2007-06-26 Page 17