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TC 278 Road Transport and Traffic Telematics

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Minutes of the 64th meeting of CEN/TC278/WG1 (and ISO/TC204/WG5) held in Basle on 2007-06-29

Present: Appel, Beier, Birle, Caneschi, Carlsson, Engdahl (chairman), Enge, Erker, Foss, Haderer, Hayakawa, Hedin (secretary), Janusson, Jouen, Kudoh, Leist, Louro, Mackinnon, Martinez, Mühlethaler, Oehry, Olsson, Philipp, Roivainen, Surmont, and Vis.

1. OPENING AND WELCOME

The convenor, Mr. Engdahl, welcomed the members and opened the 64th WG1 meeting. Mr. Engdahl extended thanks from the working group to the hosts; Swiss Association of Road and Traffic Experts (VSS), PTV and Rapp Trans for arranging the meeting facilities and sponsoring the social event.

A special welcome was extended to our new members and guests:

- Mr Charles Surmont who is project officer at the European Commission, DG TREN, takes part as a guest. He (succeeds Mr Hamet and) is responsible for the implementation of the EFC-Directive
- Mr Toumo Roivainen, works for Semel OY in Finland, a company that is developing mobile solutions for traffic applications. He is formally appointed by the Finnish Standards Association (SFS) as a member of WG1 since May.
- Mr Kristian Appel, of Traficon Ltd in Finland, takes part as a guest. He is a traffic consultant having worked with ITS and EFC since the early 1990s. Mr Appel also mentioned a renewed interest for EFC and congestion charging in Finland after the recent shift in government.

It was reported that Mr. Haderer has formally been appointed WG expert from the Austrian Standards Institute (ÖN).

The secretary noticed apologies for absence received from members: Catling, Lotz, Noguchi, Pettersson and Svitek.

2. AGENDA

The proposed agenda was adopted.

3. MINUTES OF THE PREVIOUS MEETING AND ACTION POINTS

The draft minutes of the previous meeting (N1025) were approved with two changes relating to the action reporting on page 2 (action JEN-62.14);

- Add document reference; "(N1030)".
- The text; "appears to be" is replaced by the new text; "some SG5 members contend is".

Final minutes are found in document N1025 rev1.

The status of the action points from WG1's 63rd meeting was reported.

DMK-59.8	Give a presentation at the London meeting on any requirements identified regarding urban issues in the UK. Done (see point 8 below).
ICA-62.12	NWI proposals for the 4 parts of 17575 are to be sent out 4 weeks before the next WG1-meeting. Done (N1037-40).
JEN-62.14	Mr Engdahl will based on this information seek advice from the TCs and the CEN central secretariat for how to handle the outstanding IPR issues in practice. Done. He has been in contact with Mr Dijkstra how to practically handle IPR issues. The TC278 secretary seems to be happy with WG1's handling and reporting of IPR issues and the planned actions related to prCEN ISO/TS17575 (see N1035). The aim is to provide explanation and justification of inclusion of the IPR protected material for each of the identified relevant IPRs in due time for the next TC278 meeting. Mr Catling has agreed to coordinate the revision and completion of Annex B in N1035 by mid August.

DMK-62.15	Provide OMIS-specifications to be distributed to the WG as soon as available. Pending.
JHE-63.1	Distribute the IPR summary report related to 17575 to the WG. Done (N1030, N1035).
JEN-63.2	Contact Mr. Williams to sort out WG1 contribution to architecture work and workshops to be held. Done, but no response has been received yet.
JEN/JHE-63.3	Distribute the Czech delegation work on terminology to the WG. Done (N1033). Mr Engdahl noted it is important for our architecture work. SG1 to look into this for the 17573 revision.
FCA/TFO/JHE-63.4	For 17573; include comments, edit and send it (through the WG secretary) out for TC-review. Done (WG1 N930 rev12, TC278 N1938, TC204 N2116). The deadline for comments to the TC is 2007-09-15.
NNO/JFJ/JHE-63.5	Submit the new version of 25110 for parallel TC comments after some final editing by Mr. Noguchi based on the SG2 discussions. Done (WG1 N898 rev053, TC278 N1935, TC204 N2109). The deadline for comments to the TC is 2007-08-31.
JEN-63.6	Forward patent information to the WG for consideration. Done (N1034).
REN-63.7	Forward new patent information to the WG for consideration. Done (this was reported at SG5, see report below).
LOL-63.8	Revise the draft monitoring transaction proposal considering the input from others and the discussion being held in the WG and SGs. Done (N1041-43).
All/JHE-63.9	Provide input to the ICT Work programme. Mr. Hedin to compile this into one document and send it to the TC. Done (N1029 rev1, TC278 doc N1937).

4. NEXT MEETINGS AND INTERNAL ADMINISTRATION

Next meetings

The next meetings are scheduled as follows.

Dates	Venue	Organiser
4-5 October 2007	Madrid	Martinez
24-25 January 2008	Prague	Svitek
xx-yy April 2008	Munich	TC204/Hedin

According to the minutes of the last TC204 meeting, the intention of TC204 is to meet in Munich in April 2008. It was agreed to strive to have our spring WG1 meeting in conjunction with this Munich meeting.

The following preliminary overall schedule was agreed for the next meeting:

October 4	08:30 – 18:00	SG meetings
October 5	09:00 – 15:00	WG1 plenary meeting.

Note: An exact schedule for SG meetings will be announced later as this depends on the new monitoring for enforcement work item, and results from the Task Force meeting being held in July.

Administrative issues

None.

5. FEEDBACK FROM CEN/TC278 AND ISO/TC204

Progress of standards, voting, etc.

EN 15509 is now published and can be obtained from the CEN national standardisation bodies as usual. A press release has been prepared by the WG chair and secretary and has been released by CEN (TC278 doc N1036).

prTS 25110 is out for parallel TC commenting in CEN and ISO, the deadline to the TC is 2007-08-31.

prEN ISO 17573 is out for parallel TC commenting in CEN and ISO and the deadline to the TC is 2007-09-15.

Please note that the deadline for comment normally is much earlier (about a month) within the national standardisation bodies.

CEN/TC278

There has been no TC278 meeting since the last WG1 meeting

Mr Engdahl reported on recent progress:

- The funding of project teams for 17575 and test standards for 15509 has been agreed by the EC but the contract with CEN/NEN is still not in place. Terms of reference for the call for experts are being updated. The call for experts will go out once the contract between the EC and CEN/NEN is in place.
- Input from the TC to the ICT work programme has been compiled (TC doc N1937). It mainly concerns two areas; ADAS and EFC. The overall evaluation and selection process and associated time schedules are not known to the TC278 and the WG. A contract for work within this programme is not expected this year.
- An architecture workshop was held in Madrid on the 27 June (see SG1 report).
- The Czech delegations input on terminology should be considered for EFC standards, in particular 17573.

The next TC278 meetings are scheduled for 27-28 September 2007 in Florence, Italy and 13-14 March (tbc) 2008 in Delft, The Netherlands.

ISO/TC204

The last TC204 meeting was held in Lexington, USA, on 23-27 April 2007. The convenor had submitted a written status report and recommendations as input to the meeting.

There was no WG5-member attending the meeting. Mr Engdahl reported on the recent progress based on minutes and resolutions from the TC (Lexington resolutions are in TC204 doc N2102):

- Both the WG5 recommendation for the TC was adopted:
 - o prEN PWI 17573 "RTTT - EFC -System architecture for vehicle related transport services" adopted as an NP, noting the need to synchronize the CEN and ISO (res 570 of 2007-04-27).
 - o Circulation of the Roadmap document (WG N911 rev 3) related to "17575 on GNSS/CN based EFC" for information within TC204 (TC204 doc N2100).
- A new PWI has been adopted; "PT – Interoperable fare management system – Part 2: Recommended business practices for set of rules". This may be of relevance for SG1 (17573 and Information flows).
- After a request TC278 will move deliverables ISO/CEN TS 17264 (AVI/AEI interfaces) through fast track parallel ballot towards full EN/IS (res 572).
- There is a set of CALM related documents out for CD ballot, including CALM networking & architecture. The CALM documents may be of relevance for SG5.
- The Location referencing (17572) is submitted for DIS ballot and may be of relevance for SG5.
- A new technical report approved for publication is; "Using UML in ITS standards, user guide for harmonisation of data concepts and elements, ITS use case pro forma templates", which may be of relevance for SG5 and SG1.
- All future TC204 standards (but not other deliverables) shall include the framework element "conformance" and the issue of conformance shall be addressed. It should be noted that *how* this is addressed is at the discretion of the WG.
- Mr. Koorosh Olyai (Dallas Area Rapid Transit) has been appointed as convenor of WG8 on Public Transport.
- Navigation system API standard 17267 is approved for joint NP/CD ballot, which may be of relevance for SG5.

The next TC204 meetings are scheduled for 15-19 October 2007 in Tsingtao, China, and April 2008 in Munich, Germany (tbc).

6. SUBGROUP REPORTS

6.1 SG1 report

Mr Foss reported on the SG1 meeting held 2007-06-28 (minutes in N1044).

17573 – EFC-Architecture

Latest draft: N930 rev12.

prEN 17573 is now out for TC-comments. As the deadline is in mid September this will allow SG1 to start preparing comment resolutions before the WG1 meeting in October (**action TFO-64.1**). The convenor expressed his gratitude to SG1 and Mr Caneschi for having prepared the draft standard.

SG1 expects that two meetings are needed for finalising a document for CEN-enquiry/DIS, which required a slightly changed time schedule for the remains of the work (agreed by the meeting):

CD: 2007-06

DIS: 2008-02

FDIS: 2008-10

IS: (2009-02?)

Information flows between operators

Document: N965 rev1.

This was the main topic of the SG1 meeting yesterday. It is noted that the scope focuses on the interface between Charger and Provider. Mr Foss had presented an overview of different projects; Media, Norits, PISTA, etc that shows great similarities in messages and events. Homework is agreed to gather even more input from national projects on information exchange. Focus will be to try to define the *events* taking place. A set of next steps has been agreed in SG1. There is also a proposal for a draft ToC, which is mapped on the 14906 ToC. Mr Beier also made a presentation on Toll Collect ideas for this area (N1048).

It was agreed that we would aim at filing a NWI proposal after the next meeting. SG1 will prepare a draft NWI for discussion (**action TFO/KPH-64.2**).

The draft time schedule for the work was retained:

NWI: 2007-10

CD: 2008-04

DIS: 2008-12

FDIS: 2009-07

IS: (2009-11?)

ITS Architecture workshop

Mr Foss reported from a workshop on ITS architecture organised by Mr Williams, held in Madrid on 27 June. Results from the workshop will be available on a web page at: (www.2007cen-its-architectureworkshop.org). The main aim is to foster interoperability between different kinds of systems and across borders. An "umbrella" for all national architectures was discussed. He has not identified any direct impact from the workshop on the EFC (architecture) standards.

Other issues

New work was briefly discussed and for the time being no new work items are foreseen related to SG1.

6.2 SG2 report

Mr Jouen reported on the SG2 meeting held on 2007-06-28 (minutes in N1045).

25110 – On-board account interface definition

Document: N898 rev053.

This standard is now out for TC commenting. As the deadline is in late August this will allow SG2 and the editors to start preparing comment resolutions before the WG1 meeting in October (**action JFJ/NNO-64.3**). Mr Hayakawa also made a short presentation at SG2 of the changes made.

The convenor reminded that, as this is the TS-track, it would be published directly if there are no comments received. He also extended his gratitude to the Japanese delegation and to SG2 for having done the editing.

The time schedule was agreed as follows (TS-track):

CD: 2007-05

DTS: 2008-02

TS: 2008-07

Conformance testing for 15509

Documents: N1031 and N1032.

SG2 only had a short discussion on the issue as we are still waiting for, the formalisation of the funding of, the project teams. SG2 noted a lack of experts from manufacturers. The SG2 convenor will contact different manufacturers to investigate their interest to join us in the work (**action JFJ-64.4**).

A time schedule will be confirmed as soon as we have project teams. It is noted that this follows the EN-track and is a CEN only work item.

New work on the monitoring profile

Some draft ideas have been put into three documents (N1041-43) by Mr Olsson. These were briefly discussed noting that the work needs both DSRC and GNSS/CN expertise. SG2 also discussed if it should be expanded for other media, e.g. IR, with no clear conclusion yet. WG discussion is for a later point on the agenda (item 9 below).

Other issues

Possible new work was discussed:

- Revision of 14906 might start soon. There are some ideas for update identified during the work on 15509.
- Monitoring for enforcement is underway (see point 9 below).
- Localisation augmentation may also be taken up soon.

IPR and patents.

Mr. Engdahl had circulated patent EP 0807285 - "Method and system for data transfer" (N1034) to the WG, which in his opinion has no relevance to 25110 or any on-going EFC standardisation activities within CEN or ISO.

6.3 SG5 report

Mr. Beier reported from the SG5 meeting held on 2007-06-28 (minutes in N1046).

17575 – GNSS/CN based AID

The quite long list of 38 contentious issues has been discussed, based on proposals for solutions from members of SG5. About half of the list was covered at the meeting. It is expected that SG5 needs 1-2 meetings to achieve a common understanding and sound basis for the further development of 17575.

The status of the different parts of 17575 was reported. It was noted that the part on "OBE update" is of a more advanced stage with a quite extensive draft at hand. New WG-internal versions of the various 17575 parts are to be sent out before the October meeting.

NWI proposals have been drafted for the 4 parts (N1037-40) and were discussed at SG5. It is agreed to start with these 4 parts and leave out the profiles (possible part 5) for the moment. Mr Janusson will do some editing of the work item descriptions taking into account comments received and the discussion in SG5. The convenor is mandated to make final amendments to the 4 work item proposals, in consultation with the main editors, and submit those to TC278 for approval (**action JEN-64.5**). WG1 agreed to propose for Pre-adoption of a potential New Work Item, in view of the uncertainty of when the project teams and the challenging time constraints for full work items.

Mr Engdahl recalled the procedures for proposing and adopting new work items (see CEN internal regulations part 2). It is the TC that decides, by meeting or by correspondence, and there is a need for at least five CEN members to commit to participate actively in the development of the project.

Time schedules are premature to establish right now. Precise time schedules for all the parts of 17575 shall be provided before the next WG meeting (**action ICA/WBE-64.6**).

It was recommended that, if the ISP-concept is being used, the profiles standard might be a new document/standard and not a part of the 17575-suite.

Other issues

As for new work SG5 notes the importance of the "application side" of the monitoring work item and wants to make sure that SG5 experts take part in the work.

IPR and patents

Mr Beier made a presentation and analysis of IPR issues related to 17575 (N1049). The presentation includes a listing of different relevant patents in different areas of interest. He also noted that some more general patents would expire from the year 2014 and onwards. He concluded that a consistent set of GNSS/CN standards would cover existing IPR protected material.

WG1 will have to continue monitoring patents. Mr. Beier kindly offered to monitor and to report at the WG plenary meetings filed relevant new patents or patent applications. All members should monitor IPR relevant to their areas of interest, e.g. by querying the patent databases (see the annex below for URL).

7. EFC-DIRECTIVE AND EETS UPDATE

Mr Surmont of the European Commission gave a presentation of the latest developments concerning the EFC-Directive (slides in N1050). In the following discussion it was noted:

- Mr Mackinnon noted that it will be unacceptable to refer to draft standards / specifications in legislation, which must refer to approved standards / open specifications.
- The term "European specification" is mentioned in the draft text. This may be standards or other documents.
- It is not yet clear who will draft the Application Guide. Mr Surmont clarified that the Guide will not be binding. It is merely help for the stakeholders.
- Mr Beier noted that our standards allow for many options and that the decision will only need a profile standards in the end.
- Final legislation is currently foreseen by summer 2008.

Mr Surmont said he would try to join our meetings, but perhaps not all of them. Input to him and the EC can be quite informal if needed. He also emphasized that mandate 338 is a two-way channel. Both EC and ESOs can propose new work and how to fill in gaps.

8. URBAN RUC REQUIREMENTS

Don Mackinnon made a presentation (N1050) of specific urban RUC requirements based on recent UK work. Urban requirements may require changes in DSRC-related standards (GNSS was not analysed at this point). A list of challenges includes: Complex traffic, diversity of road users, topology, aesthetics, installations, interference, health, safety, etc.

A paper done by the UK on this should be circulated to the WG (**action DMK-64.7**).

9. FUTURE EFC WORK ITEMS

Due to time restrictions this point on the agenda only covered a discussion on the new Monitoring (Conformance Checking) standards for enforcement purposes.

Mr Olsson gave an introduction of the proposal (N1041-43) that he made as a result of the action point agreed at the last meeting. He noted that there is a great interest in the issues. Mr Olsson's proposal is based on the ISP-profile concept and uses a similar structure as the 15509 standard. There is also a conformance evaluation standard to accompany the IAP. He also mentioned that there are different ideas for communication media to be supported by that standard.

WG1 then had a lively discussion of the issues and scope for the standards. Some issues raised:

- This standard only deals with enforcement support for autonomous systems as DSRC-EFC enforcement is already covered.
- Secure monitoring in a wider sense might be covered too.
- There may be even more communication interfaces than DSRC and Infrared, such as wireless media.
- Does 17575 really support this profile with all needed data and functions?
- Shall the standard be unambiguous (a profile) or provide a wider set of options (a toolbox)? Is there a need for a more general "enforcement standard".
- If the profile concept is used; shall one single IAP be defined or shall the standard support several different application profiles (perhaps based on the 17575 profiles standard).
- Both fixed and mobile enforcement stations should be supported.

Mr Engdahl summarised:

- There is a broad interest in developing standard(s) to support automated compliance checking using "DSRC" for "GNSS"- based systems;
- The standard(s) should support the EETS but also allow for other contexts of use (as normal for CEN/ISO standards);
- There is a broad support to focus on the definition of the OBE's capabilities (in terms of information, functions, security services and interface(s)), which are available for the interrogator to make use of when checking the OBE compliance;
- It is generally agreed that the "GNSS profiles" that are being discussed in the development of "17575" should be supported;
- There are different views of the overall scope regarding which and how different interface(s) should be covered;

He concluded that we are not able to agree on an approach and scope for this standard at this meeting.

It was agreed to convene a Task Force Meeting to further tackle this issue, noting that approximately 5-10 persons expressed an interest to take part in such a meeting. This will be held in Berlin on 10 July 2007. Mr Beier volunteered to organise the meeting with assistance from Mr Hedin (**action WBE/JHE-64.8**).

10. LIAISONS

There were some brief liaisons reported (apart from those mentioned above).

ETSI

Mr Mulligan will not take part in WG1 from now on as he has a new assignment in ETSI. It is for the moment unclear who shall replace him.

EU EFC-Directive

The main issues are reported under point 7 above.

Mr Hedin informed that an Electronic Toll Committee meeting was held on 26 June 2007. The meeting included presentations on EFC-standardisation by ETSI (TC278 doc N1942) and by CEN (TC278 doc N1939). The CEN-presentation was made by the Mr Stoelhorst (chair of TC278) and Mr Hedin.

RCI

Mr Mühlethaler reported that the project leader of RCI, Mr Kerstjens, cannot attend all of our meetings. Mr Mühlethaler has agreed to serve as a liaison between WG1 and RCI.

He also noted that RCI has defined Use Cases defined that might relate to our work on Information Flows. He agreed to send WG1 the relevant reports (**action FMU-64.9**).

11. ANY OTHER BUSINESS

None.

Pending action points

Pending action points from WG1's 64th meeting.

DMK-62.15	Provide OMIS-specifications to be distributed to the WG as soon as available.
TFO-64.1	Make a draft comment resolution report for prEN 17573 TC-comments.
TFO/KPH-64.2	Prepare a draft NWI for the Information flows standard for discussion at the next meeting.
JFJ/NNO-64.3	Make a draft comment resolution report for prTS 25110 TC-comments.
JFJ-64.4	The SG2 convenor to contact different manufacturers to investigate their interest to join us in the work on the test standards for 15509.
JEN-64.5	Make final amendments to the 4 work item proposals, in consultation with the main editors, and submit those to TC278 for approval.
ICA/WBE-64.6	Make time schedules for all the parts of 17575 for the next WG meeting.
DMK-64.7	Provide a paper of urban RUC requirements done by the UK for circulation in the WG.
WBE/JHE-64.8	Organise a Task Force Meeting to deal with the Monitoring work item in Berlin on 10 July 2007.
FMU-64.9	Provide WG1 with relevant new reports from the RCI-project.

Annex: Patent data bases of the Internet

The data base of the German Patent Authority in Munich is available in English under:

<http://depatisnet.dpma.de/DepatisNet/depatisnet?window=1&space=main&content=index&action=index&session=c23b66f230d9bd2786af34744ed0a42db2fd83b0cccd&stamp=11435&switchToLang=en>

go to „Introduction“ in the top line. Then select „Beginner's search“ and you get a search engine. If you read the pdf summary (first page) then in the upper right corner you will find „Load full document“. You will be asked to key in a non automatically readable key word and get the full patent.

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