

TRIP REPORT

ISO/TC 204 PLENARY / C/HOD / WORKING GROUP MEETINGS

October 13-17, 2003

Vienna, Austria

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Introduction

The 22nd Plenary meeting of ISO Technical Committee 204 (Intelligent Transportation Systems) was held in Vienna, Austria, hosted by the Austrian Standards Institute, from October 13 to 17, 2003.

Working group meetings (WGs 7, 8, 9, 10, 11, 14 and 16) were held during the first three days of the week (Monday to Wednesday), the Conveners & Heads of Delegations (C/HOD) meeting was held on Thursday and the Plenary meeting on Friday.

This report provides a brief overview of the proceedings of the Plenary Meeting and of the progress reported by the working groups at the Conveners & Heads of Delegation Meeting. The members of the Canadian delegation who attended selected working group meetings have also provided reports of their activities. For further information, refer to their trip reports or contact the delegation member concerned.

Canadian Delegation

The Canadian delegation to the 22nd TC 204 meeting included 4 members. Dr. William Johnson, Head of Delegation, representing the Standards Council of Canada, led the Canadian delegation. The delegation also included Dr. Lewis Sabounghi of Sabounghi & Associates, Convener of WG 7 (General Fleet Management & Commercial Freight) and Canadian expert to WG 7, Mr. Jackson Wang of e-Radio Inc., Canadian expert to WG 10 (Traveller Information Systems) and Dr. Peter Burns of Transport Canada, Canadian expert to WG 14 (Vehicle/Roadway Warning and Control Systems). The meetings attended by the delegates were as follows:

Dr. Johnson - WG 7 (served as recording secretary); WG 8; and WG 9 (observer);
Dr. Sabounghi – WG 7 (convener); WG 7.1 (convener); WG 7.2; and WG 16;
Mr. Wang – WG 10;
Dr. Burns – WG 14.

Summary & Future Hosting

There were 75 delegates from 16 countries attending the TC 204 meetings in October 2003 in Vienna. At the Plenary meeting at the conclusion of a full week of working group meetings and consultations, 18 resolutions were passed giving direction for follow up action (these will be posted when available on Sitescape). One

of the two new countries to join TC 204 in 2003, South Africa, attended the meetings as a "P" member for the first time.

The TC 204 continues an active program of standards development and attracts continuing strong interest from the participating countries. However, **changes are anticipated** over the next 2 years as a result of a new chair (starting in 2005) and new conveners in 3 work groups (WG 9, 10 and 11). The process for selecting conveners has been opened up to all candidates who have the qualifications and the sponsorship to undertake and carry out the tasks involved. Canada is obligated as a "P" member of TC 204 to consider these changes and the opportunities they present in light of its own commitment to the TC 204.

Dr. Johnson on behalf of Standards Council of Canada and the Steering Committee to Host ISO/TC 204 in Spring 2004 gave a presentation to the Plenary meeting on the plans to host the ISO/TC 204 meetings May 17-21, 2004 in Vancouver, B.C. (a copy of the presentation is attached as Annex A). The response from delegates was positive and it is anticipated that a larger number of working groups, and therefore delegates, will attend the spring 2004 meetings assuring a success for the event.

Report of Plenary Meeting

The Plenary meeting is the focal point of the standards development business of ISO/TC 204. The agenda includes review of

- previous minutes (approved),
- progress to implement previous resolutions (in secretariat report),
- report from the secretariat,
- reports from Work Group conveners (as delivered at the CHOD meeting),
- liaison reports from other organizations involved in ITS standards development,
- report from the ad hoc Strategic Planning Committee,
- plans for future meetings and, finally,
- new resolutions for action arising from Work Group and plenary recommendations.

Secretariat Report

The secretariat for TC 204 is now provided by **ITS America** under the auspices of US/ANSI. Paul Nagarian, Director Telecommunications & Standards, is in charge and Regina Barnett, Program Coordinator, is his assistant.

There are now 22 "P" or voting members of TC 204. South Africa is a new "P" member but Denmark has changed from "P" to "O" observer status.

Certain liaison activities are vaguely defined and need to be formalized.

The convenership of WG 11 is still vacant and the conveners of WGs 9 and 10 have served notice of their intentions to resign after the next plenary in May 2004.

The status of resolutions from Nagano and Chicago were reviewed.

The e-mail address for the TC 204 secretariat is TC204sec@itsa.org. The new secretariat will use the ISO website "Livelihood" <<http://www.iso.org/tc>> for all copyright restricted documents (i.e. all TC 204 work item documents; a user id and password are required to access Livelihood). It will also maintain a TC 204 website on the ITS America website that will be accessible without a password to all TC 204 participants at <http://www.itsa.org/tc204.html>.

(Note that all TC 204 documents will continue to be sent to SCC and posted on SITESCAPE and will therefore be accessible with an SCC user id and password.)

Work Group Convener Reports

(See next section below for summary.)

Liaison Reports

Internal

TC 204 maintains liaison with many other organizations engaged in ITS-related standards development activities. The aims are to minimize duplication of effort and maximize opportunities for collaboration. The following is a list of these liaisons and the current issues under each one (see liaison reports for full details):

ISO/TC 22 – Road Vehicles (Mr. Cheynet, chair of TC 22, reporting) – The next TC 22 Plenary is the first week of May 2004 in the USA (no conflict with TC 204). The official point of contact for TC 22 and TC 204 is at the chairman level. The chairman of TC 204 is authorized to set up inter-TC liaison work groups. A meeting is proposed (in November in Paris) to draft a framework and agreement for the organization of the work between the 2 TCs (affects **WGs 4, 11, 14 and 16**). The agreement will be presented to the next plenary meetings of the 2 TCs in May 2004. As an example of work underway elsewhere affecting the 2 TCs, the ECMT/UNECE Inland Committee is developing conventions for variable message signs that could bind Europe and North America.

ISO/TC 104 – Freight Containers and tags for cargo seals (reported at the CHOD; affects **WG 7 and 7.2**)

ISO/TC 211 – Geographic Information / Geomatics (Mr. Goodwin reporting) - A framework for developing sector-specific applications using GIS is under development including work items for location based services, tracking and navigation and LBS for intermodal route navigation (affects **WGs 7, 8, 9, 10, & 11**).

ISO/IEC JTC1 – Information Technology (Mr. Williams reporting) –

ISO/IEC JTC1/SC31 – Automatic Identification & Data Capture (deals with giving things “names”; Mr. Williams reporting) – a ballot for a 900MHz option is underway as well as 2.4 GHz but the 5.8 GHz option is dead, as it was not reintroduced (affects **WG 4**). MIT is developing an elementary tag.

ISO/TC122/TC204 – Joint WG Supply Chain Applications of RFID – no report

Liaison Reports

External

ITU Work Party 8A – TICS Correspondence Group (Mr. Nagarian reporting) – the push to harmonize 5.8-5.9 GHz internationally did not happen at the World Radio Congress '03 in June (as proposed by **Canada**). An alternative action plan is being developed. Two ITU conferences on wireless services in October and November will be monitored.

APEC TWG/ITS SIG – Asia Pacific Economic Cooperation (Mr Schagrin reporting) – Based on the emerging technology for intermodal freight tracking, the APEC ITS Special Interest Group is proposing a joint intermodal freight project. A joint APEC/TC

204 **workshop** is proposed for January in Washington. TC154 expressed interest to participate. An overview report on related ITS standards will be released.

IEEE – U.S. based Standards Development Organization – written report submitted to describe plans and actions to develop the 5.9 GHz DSRC standard with ASTM and ISO (affects **WG 16**).

Open GIS Consortium – geographic information system standard -; no report

ITU Work Party 6M – Multi-media Broadcast Communications (liaises with **WG 10**; Mr. Hirakawa reporting) – this work party has defined its domain as Fixed Receivers and Mobile Receivers (categorized as nomadic/pedestrian/vehicular). Delegates were requested to comment on ITU report. **Action all**

Infrared Coordination – (Helmut Strasser reporting) – moving toward cooperation with the infrared community (but there is some resistance)

TT 37 – Vehicle Communications (Mr. Williams reporting)

CEN Report

European Standards Council, TC 278 (Mr. Dijkstra reporting) – parallel voting is underway for work items on security. ‘bus’ for public transport vehicles, others (see written report for details)

Strategic Planning Committee Report

The major issues concern coordination with other TCs (e.g. vehicle-infrastructure, human factors, in-vehicle, wide area communications). Much coordination work is needed at all levels including chair-to-chair (e.g. for TC 22, TC 211 (LBS) and Intermodal MOU) (affects **WG 7, 7.2 and 14**). See report by SP Committee for further information.

Delegates were urged to review the ‘Survivor’s Guide’ and provide comments so that an updated version could be circulated prior to the next meeting in Vancouver.

Action all

Future Meetings

The schedule for the next ISO/TC 204 meetings is as follows:

- Vancouver, Canada – May 17-21, 2004
Dr. Johnson presented a briefing on the hosting arrangements for this meeting and Dr. Sabounghi presented a slide show of selected must-see sites in the Vancouver region. (See Annex B for presentation) **Action Canada**
- Beijing, China – October 11-15, 2004
- Europe – Spring 2005

Resolutions

The 18 resolutions passed by the delegates at the plenary will be posted on the ITS America, Livelink and SCC websites. Resolutions of prime interest to Canada include:

- TC 204 and TC 22 Joint Coordination Group resolve to meet and report back to Vancouver plenary on draft agreement to organize joint work program (affects **WG 14**)
- TC 204 and TC 211 Joint Task Force resolve to review draft cooperation agreement and to involve TC 204 **WGs 3, 7, 8, 9, 10 and 11**.

- TC 204 resolves to take steps to implement with TC 154 and other TCs the ideas in the supply chain MOU (affects **WG 7.2**).
- TC 204 urges Work Groups and Experts to submit revisions to ISO 14817-1 (Fundamental Services) by December 31, 2003, focusing on the general group of categories.
- TC 204 resolves to adopt these new Preliminary Work Items:
 - API (for **WG 3**)
 - low speed following system (**WG 14**)
 - full speed range ACC system (**WG 14**)
 - ITS emergency service communications interface for public transport (**WG 8**)
 - interoperable fare management for public transport (**WG 8**)
- TC 204 resolves to submit ISO 17687 (**TDG**) for DIS ballot as soon as comments are resolved
- TC 204 resolves to meet next in **Vancouver, Canada in May 2004**

Other Business

There was a presentation and discussion on 3 types of ISO technical documents and when to use them (see Annex B for details).

PAS – Publicly Available Specification

TR – Technical Report

TS – Technical Specification

The chairman, Martin Rowell, announced his intention to depart his position at the end of December 2004 after 3 terms of 3 years each. He expressed his view that it was time to pass on the responsibility for chairing the Technical Committee 204.

The member countries will be invited in writing to propose candidates for convener of WG 11 and a vote will be held at the next plenary meeting in Vancouver.

Report of C/HOD Meeting

This meeting on Thursday October 16th consisted of reports of recent progress by each Work Group convener. These reports are briefly summarized in this section (see convener reports for full details of progress).

- WG 1 Architecture – Bob Williams (UK) – (N955) – Data templates for submission to data registry in ISO 14817 format are ready. Work is underway on revisions to ISO 14813 series (Fundamental Services- input requested from members) and using xxx in ITS technical reports. Ownership of data and IP protection is an issue. **Action all**
- WG 3 Mobile Map Data – Masao Shibata (JP) – (N) – Work items include active GDF and extended xGDF (includes ADAS, pedestrian, multi-modal) , location referencing methods (profiles) and new PWI to accommodate wireless data delivery (via internet). Liaison with TC 211 to eliminate duplication.
- WG 4 Automatic Vehicle ID – Knut Evenson (Norway) –(N953) – reported stable participation and all work items are stable except 2 in ballot process ISO 14815/14816.
- WG 5 Fee and Toll Collection – Henk Stoelhorst (Netherlands) – (N958) – this work group has developed a series of standards in parallel with CEN including DSRC

interface, test procedures, EFC system architecture, security and application interface for GN/GNSS.

- WG 7 General Fleet Management and Commercial Freight – **Lewis Sabounghi (CA)** – (N) – scope of WG is to improve management and safety of freight;
 - SWG 7.1 has a work item ISO 17867 to monitor and track dangerous goods that is moving towards a DIS ballot before Vancouver;
 - SWG 7.2 has a work item for data dictionary and message sets to monitor freight in intermodal transport end-to-end in the supply chain; outreach on this item has seen meetings with ICAO, IATA, TC154 and APEC (in January); discussions are underway for a field test.
- WG 8 Public Transport and Emergency – Alan Kiepper (US) – (N) – the work on international bus stop numbers is recommended for a technical report; an exchange of views with CEN/TC278 was held on subject of smart cards; other work items concern PRESTO ISO 22952; TCIP; a workshop is proposed with Translink in Vancouver.
- WG 9 Integrated Transport Information, Management & Control – David Clowes (UK) – N() – the active work items include:
 - ISO 14827 (centre-to-centre) is ready for ballot;
 - ISO 15784 (centre-to-roadside) is being worked on (Japan lead); Part 1 framework will be ready as draft CD at Vancouver; Part 2 Application Profiles in 12 months; Part 3 later;
 - ISO 17383 (data dictionary) test exercise is developing entries using ISO 14817 rules;
 - ISO 21707 (quality of input data) will be advanced to NP stage at Vancouver.

Note: Contact **Dr. Johnson (CA)** observer for further information on WG 9.
- WG 10 Traveller Information Systems – Paul Burton (UK) – (N) – this WG operates in conjunction with CEN/TC 278; participation is ~30 experts; SWGs meet regularly; a number of ISO TR's, TS's and IS's are being developed; convener plans to stand down before October 2004; SWG 10.6 for TTI user service integration is lead by **Jackson Wang (CA)**.
- WG 11 Route Guidance and Navigation – Mr. Nakajima (Japan; interim) – (N) - on-board system architecture will become a Publicly Available Specification (PAS); working on data concepts for navigation and route guidance; SWG is sending ISO/DTR 17384 (CDRG) to central secretariat for distribution.
- WG 14 Vehicle/Roadway Warning and Control – Kiichi Yamada (Japan) – (N953) – work to refine the following is underway: LDAS, ERBA, FCAAS, LDWS; new work items proposed for LSFS and FS range ACC; cooperative warning systems are under study (with infrastructure); Canada is participating in 7 work items; contact **Peter Burns (CA)**.
- WG 15 DSRC – Carl-Hebert Rokitansky (Germany) – (N) – reported that DIS ballot for ISO/CD 15628 (application layer 7) is due October; this will complete the work of this work group. Note: Contact **Dr. Sabounghi (CA)** for further information on WG 15.
- WG 16 Wide Area Communications – Russell Shields (US) - This Work Group has several sub-groups to address and harmonize various forms of wireless communications; the Work Group is engaged in an intensive round of meetings and negotiations to arrive at agreements on international standards (e.g. WG 16 met in Montreal May 12-16 hosted by **Dr. Sabounghi (CA)** and TC/TDC; there are 3 sub Work Groups in WG 16:
 - (i) CALM communications including radio frequency 5.85-5.925 GHz band, cellular, infrared and microwave;
 - (ii) developing the networking harmonization functions;
 - (iii) probe data definitions; the first work item for ballot as a standard is ISO 15662

(message protocol structure and header) due in July;
WG 16 uses existing protocols such as the IEEE standard protocol 802.11 and the standards development process is focussed on architecture, data structures and message sets.
Canada's primary interest is in WG 16 is in DSRC medium-long range 5.85-5.925 GHz radio frequency band for vehicle-to-roadside and vehicle-to-vehicle communications.
Note: Contact **Dr. Sabounghi (CA)** for further information on WG 16.

ANNEXES

- A Presentation to Plenary on Hosting for Vancouver, Spring 2004
- B Definitions of ISO Document Types – PAS, TR, TS

For further information, contact the Head of Delegation:

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