

TRIP REPORT

ISO/TC 204 29th PLENARY, C/HOD & WORKING GROUP MEETINGS April 23-27, 2007 Lexington, Kentucky, USA

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Introduction

The 29th Plenary meeting of ISO Technical Committee 204 (Intelligent Transportation Systems) was held in Lexington, Kentucky, USA at the Hyatt Regency Lexington Hotel on April 27, 2007. The American National Institute of Standards (ANSI) hosted the meeting and the U.S. Technical Advisory Group (TAG) for ISO/TC204 convened the meeting and organized the hospitality and social events. Welcoming remarks were from Joe Trettler for ANSI, Mayor Newberry for the City of Lexington and Commissioner Mark Williams for the State of Kentucky.

This report provides a brief overview of the week of meetings, highlights of the Plenary Meeting focussing on reports of interest to Canada, and highlights of progress reported at the CHOD (Conveners/Heads of Delegation) Meeting. The outcomes of the Working Group meetings held during the week prior to the Plenary Meeting are available in the trip reports posted by Canadian delegates on the SCC Sitescape website (see section Further Information at the end for website addresses and contact details).

Canadian Delegation

The Canadian delegates who attend ISO/TC 204 meetings are representatives of the Standards Council of Canada. The Canadian delegation to the 29th TC 204 meetings included 5 members of the Canadian Advisory Committee for ISO/TC 204:

- 1) William Johnson (TRENDS Consulting), Head of Delegation (HOD) at the Plenary and CHOH meetings; rapporteur for Working Group (WG7); and Canadian delegate to WG9;
- 2) Dr. Lewis Sabounghi (Sabounghi & Associates), International Convener for WG7 (General Fleet Management & Commercial Freight) and Canadian expert to WG7;
- 3) Dr. Christina Rudin-Brown (Transport Canada, Road Safety & Motor Vehicle Regulation), Canadian expert to WG14;
- 4) Ms. Mara Bullock (IBI Group), Canadian expert to WG9; and,
- 5) M. Luc Lefebvre (Ministère des Transports du Québec), Canadian expert to WG8 (note: this meeting took place in New York City at the same time as the meetings in Lexington).

The Canadian delegation met on Tuesday over lunch to exchange information about CAC and working group priorities. The proposal to host the TC204 meeting in the fall of 2008 was also discussed.

Note: Canada through Standards Council of Canada is responsible for sponsoring the international convener for Working Group 7 (General Fleet Management & Commercial Freight).

Meeting Overview

The TC204 meetings attracted more than 120 delegates from 16 countries during the week of April 23-27, 2007. The meetings included the TC 204 Plenary, the Conveners/Head of Delegation meeting, six Working Group meetings (5 in Lexington, 1 in New York City), the Ad Hoc Strategic Planning meeting and a number of national delegation meetings.

There are 25 “P” or voting member countries and 25 “O” or observer member countries in TC204. The 16 countries represented at the Plenary in Lexington were Australia, Austria, Belgium, Canada, China, Czech Republic, France, Germany, Japan, Korea, Netherlands, Norway, South Africa, Singapore, United Kingdom and USA.

The Working Groups that met on Monday to Wednesday prior to the Plenary were as follows (names of Canadian experts appear in parentheses; (*) indicates trip report available):

- WG3 Mobile Data Bases,
- WG 3.1 Mobile Data Bases - parallel session,
- WG7 (*) General Fleet Management & Commercial Freight (Lewis Sabounghi),
- WG8 (*) Public Transport and Emergency Services (met in New York City; Luc Lefebvre),
- WG9 (*) Integrated Transport Information, Management & Control (Mara Bullock),
- WG14 (*) Vehicle/Roadway Warning and Control (Christine Rudin-Brown).

(*) Trip reports for the meetings so marked are posted on the SCC Sitescape website (see Further Information for URL).

The Telecommunications Industry Association (TIA) of the USA provides the secretariat service for TC 204. Mr. Tyler Messa provided the secretariat support including wireless Internet access for all delegates in the meeting rooms.

The hosts organized a social event on Thursday evening at an historic distillery located in the picturesque Kentucky countryside. Hospitality for the meetings included coffee service each day (morning and afternoon) and continental breakfast on Thursday and Friday mornings.

Plenary Meeting Highlights

The Plenary meeting is the focal point of the standards development business of ISO/TC 204. A full report of the proceedings of the Plenary can be found in the minutes and the list of resolutions approved by the Plenary. These are posted on the TIA/TC204 website and on the SCC Sitescape (see Further Information for URLs). Only the highlights of the Plenary of general interest to SCC/CAC members are reported here.

Liaison Reports

APEC/TWG and ISO/TC204 have a formal liaison arrangement and Mr. Donggeun Choi (Korea) presented the liaison report. He reported that the World Report on ITS Standards (WRITSS survey project 2005-06) is now finalized and will be published as both APEC and ISO reports. The 5th APEC Transport Ministers Meeting was convened recently in Australia at which the importance of technology and standards was reaffirmed. The Ministers also agreed to focus on harmonization, safety, improving the capacity for standards and enhancing regulation by using standards.

The WRITSS report identified some issues and made a number of recommendations to improve the development and adoption of ITS standards. The most significant issue is that there is little or no way to prove that systems and products meet the requirements of ITS standards. The WRITSS recommendations related to this issue were as follows:

1. All SDO's re-examine the deliverables for standards to establish adequate procedures to determine compliance; and
2. Conformance procedures be included in all ITS standards.
In response, the TC204 Plenary adopted a resolution calling on all conveners to include conformance procedures as part of all the ITS standards they develop.

The WRITSS report also made a number of recommendations on how to facilitate the wider adoption of ISO/TC204 ITS standards:

3. Access to TC204 standards – outreach using web postings to release information on TC204 standards, and prepare publicity information for release at events;
4. Implement guidelines – ITS standards are often not easy to understand and guidelines are needed to assist new users; this could be a part of the work program of working groups, especially the conveners and the work item (WI) editors;
5. Conformance – all working groups should include conformance testing as part of the standards they develop;
6. Collaboration and networking – a more strategic approach is needed to the development of ITS standards, for example, by fostering greater collaboration among experts in the development process.

The CEN (Europe) report was presented by Mr. Jelte Dijkstra and is posted on the TC204 website.

The ISO/TC211 report was presented by Mr. Tom Lydon and is posted on the TC204 website.

Strategic Planning Report

The Ad Hoc Strategic Planning committee is a TC/204 mechanism to coordinate positions on issues that affect the full TC prior to reaching the Plenary for discussion and resolution. The chair, Rick Weiland HOD USA, presented the report.

1. The Vice-chair has organized outreach activities to raise awareness of TC204 standards: a workshop at the CAR Show in Geneva, a workshop on ITS Architecture in Japan, and workshops in Malaysia and Taiwan (potential 'P' members).
2. The WRITSS report recommendations were received and considered (see APEC/TWG and ISO/TC204 Liaison report above).
3. Documentation issues with the ISO Central Secretariat were resolved at a meeting in Geneva in September 2006.
4. The growing interest in "nomadic" devices that are portable and that users can carry with them in vehicles to provide ITS-type services (e.g. navigation and direction) was noted; a new working group (WG17) with a PWI is proposed to initiate this activity; it was noted that this activity must be carefully coordinated with TC22 to avoid issues and problems.

Secretariat Report

Mr. Tyler Messa warned that some work items are in danger of deletion from the ISO work program because of delays in meeting scheduled timelines for standards development. He proposed a solution to get work items back into the ISO work program before they are deleted: 1) Cancel the WI; 2) Reinstate it as a PWI/NP with at least 5 countries supporting it; 3) Continue from same point as before. Vote can be done by circulating a ballot to all

members or by a vote at the plenary if document is pre-circulated ahead of the plenary by several weeks to all members for comment.

The TIA/TC204 website is up and running and has a calendar of all meeting dates; the latest TC204 work program; and all N-documents for members to download. Work items at risk of deletion are noted.

Replacement Conveners

WG3 – Mr. Masao Shibata from Japan has retired after many years as convener of WG3 and a new convener from Japan, Mr. Jun Shibata, was confirmed by TC204.

WG8 – Mr. Koorosh Olyai from USA was confirmed as the convener.

WG14 – Mr. Kiichi Yamada from Japan resigned as convener of WG14 and Mr. Furukawa (previous incumbent), was confirmed by TC204.

Two other conveners informally indicated their intentions to resign and will be arranging replacement: Mr. Duckeck (Germany) WG10, and Mr. Ted Vincent (Australia) WG9.

Presentations

There were presentations to all delegates from two members:

1. Neil Frost (South Africa) on transport and ITS developments in South Africa since the last ISO/TC204 plenary held in Cape Town in October 2006; and
2. Saurav Bhattacharyya (Singapore) on transport and ITS developments in Singapore.

Resolutions

The resolutions approved by the Plenary in Lexington are posted on the TC204 website (see Further Information for URL).

C/HOD Meeting Highlights

The C/HOD or Conveners/Heads of Delegation meeting took place on Thursday April 26, 2007 to consider progress reports from each Working Group convener prior to the Plenary. This section contains selected highlights from those reports of high interest to CAC members, in particular those for WG1, 3, 7, 8, 10, 14 and 16. The full reports of all Working Group Conveners are posted on the TC204 website.

- WG 1 Architecture – Bob Williams (UK) reported:
 - WG has recently lost 3 members and needs new replacements;
 - there is an up surge of interest in ITS architecture in Europe (a workshop is planned in Madrid on June 27, 2007);
 - WI's include: Fundamental Services; Core Reference Architecture (Examples, Tutorial; Architecture Description; Data Description using ASN.1); Data Registry; Using UML for Defining ITS Interfaces; Using Web Services; Procedures for ITS Deployment; Using UML in ITS; Using XML; Using CORBA; User Guide for Data Definitions; Business Case for Architecture; Training Requirements for Architecture; Procedure for ITS Glossaries; Example Hi-level Architecture; Rules for Data Definition; WRITSS.
- WG 3 Mobile Database Technology – Dr. Masao Shibata (Japan) reported:
 - 5 active Work Items are underway;
 - Liaison is underway with WG10, WG11 and TC211
 - Dr. Shibata announced he is retiring and will be replaced by Dr. Jun Shibata
- WG 7 General Fleet Management & Commercial Freight – **Dr. Lewis Sabounghi (Canada)** reported:
 - SWG 7.1 ISO/IS 17687 Data and Message Sets to Track Dangerous Goods was approved for publication in December and published in February 2007 as an international

- standard; this completes a Work Item that was initiated in 1997 and led by **Canada**; the next stage is to revisit the standard at the end of a five-year ISO review cycle;
- SWG 7.2 ISO/CD 24533 Data and Message Set for Monitoring Freight in Intermodal Transfer has exceeded the allotted time for an extension of the CD timetable; the solution is to delete the present WI and re-instate it as a new PWI; this will enable the timetable clock to restart at the beginning; this WI is led by the USA and the draft standard is being field tested in a pilot project of an air-highway intermodal service from China to the USA;
 - SWG 7.3 ISO/PWI 26683 Freight Conveyance content Identification and Communication Architecture (application & security profiles) is based on ISO 24533 (SWG 7.2) as a way to provide communications from individual cargo items to infrastructure based systems; the draft scope for the WI was revised and the proposed architecture will be coordinated with WG 4 (AVI-AEI) over the next few months to get agreement of all players; the completed document will be circulated prior to the next meeting in October 2007 when it will be proposed for NP ballot; this WI is led by Japan.
 - See convener report on SCC Sitescape website for further details.
- WG 8 Public Transport and Emergency – Ms. Ging Ging Liu, Rapporteur (USA) reported on behalf of the to be appointed Convener, Koorosh Olyai:
 - See delegate report on SCC Sitescape website for details.
 - WG 9 Integrated Transport Information, Management & Control – Ted Vincent (Australia) reported:
 - NP 15874-1&3 Data exchange involving roadside modules, parts 1 and 3, are recommended for DIS ballot having resolved the non-technical comment arising from the CD ballot; TC204 is requested to suspend work on part 2 pending completion of contributory work by USA;
 - NP 21707 Data Quality technical report is recommended for a second round of DTR balloting in order to accommodate comments received too late in the first round and to get agreement on changes made based on the first round; to be completed by the next WG9 meeting;
 - PWI 10711 Wireless Interface Protocol for traffic control devices at junctions will be renamed as “Interface protocol and message set definition between traffic signal controllers and detectors”; WG9 members to comment to Dr. Lee (Korea) by the end of May; circulate for NP ballot after comments received;
 - Other business: WG9 agreed to take an unfinished WI from the defunct WG11 to the Plenary to seek approval to publish it (as is) or to circulate it as an NP ballot; if there are comments to resolve, then Japan (UTMS) would resolve any comments and revise the document; this is a favour to complete this item for publication;
 - See delegate report on SCC Sitescape website for further details.
 - WG10 Traveller Information Systems – Mr. Ralf Duckeck (Germany) reported:
 - WG10 will be seeking a new convener;
 - WG10 sub-groups meet often but WG10 meets seldom (issue of reporting to TC204 as TC204 does not recognize SWG's); CEN is the lead for this WG through TC278; much work is conducted in close collaboration with TPEG working groups; TC204 members are welcome to attend WG10/SWG meetings and TPEG meetings;
 - Chair proposed to discuss and resolve this offline.
 - WG 14 Vehicle/Roadway Warning and Control – Dr. Kiichi Yamada (Japan) reported:
 - The active work items are: Lane change decision aid; Full speed range adaptive cruise control; Low speed following systems; Intersection signal information and violation warning systems; Forward vehicle collision mitigation (changed name from Rear-end collision mitigation braking); Extended range backing aid;
 - New work items proposed are: Revised adaptive cruise control; Revised manoeuvring

aids for low speed; Lane keeping assistance; Curve speed warning; Road departure warning;

- The new convener of WG14 will be Dr. Yoshimi Furukawa (Japan);
- See delegate report on SCC Sitescape website for further details.

- WG 15 DSRC – no formal report; TC204 secretariat reported:
 - ISO/IS 15628 DSRC application layer was published.
- WG 16 Wide Area Communications – Russell Shields (USA) reported on numerous work items for CALM including:
 - 16.0 Architecture
 - 16.1 Media (Millimetre, Infrared, Cellular, 5.9 GHz, Mobile Wireless, Interface Manager
 - 16.3 Networking (messaging manager, Internet connect, Direct mode)
 - 16.3 Vehicle probes (probe data, personal data protection, Report manager, Application manager)
 - 16.5 Emergency notification (Mobile e-call, Emergency messages)
 - Consult the convener's report for WG16 on the TC204 website for further information.

Future Meetings

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

- Asia-Pacific – Fall 2007 – Qingdao, China October 15-19, 2007
- Europe – Spring 2008 – Germany (time and place to be determined)
- North America – Fall 2008 – (Canada; to be confirmed)

Further Information

For further information, visit the TC204 website at <http://www.isotc204.com> (password protected), or the SCC Sitescape at <https://forums.scc.ca/forums/scc/dispatch.cgi/admin> (password protected) or contact the Head of Delegation for Canada:

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