# Collaboration on ITS Communication Standards

## Troy, Michigan, USA, 3 April 2012

### Draft meeting report

1. **Introduction**

The meeting of the Collaboration on ITS Communication Standards took place 3 April 2012 at SAE Automotive Headquarters in Troy, Michigan, USA under the chairmanship of Mr Russell Shields (Ygomi LLC).

The intent of the Collaboration is to provide a globally recognized forum for the creation of an internationally accepted, globally harmonized set of ITS communication standards of the highest quality in the most expeditious manner possible to enable the rapid deployment of fully interoperable ITS communication-related products and services in the global marketplace.[[1]](#footnote-1)

1. **Opening of meeting**

The Chairman welcomed the participants (13 on-site and 15 remote participants; the final list of participants is reproduced in [DOC-010](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/010%20-%20List%20of%20Participants.pdf)). The agenda as approved by the meeting is reproduced in [DOC‑001r](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/001r%20-%20Draft%20Agenda.docx). Representatives of the SDOs ETSI, TTC, CCSA, ISO, ITU, and SAE International participated in the meeting.

1. **Remote presentations of input documents**

Input documents were presented by remote participants and discussed by the meeting audience.

* 1. **China Unicom, Geli Bo: “Proposal to the suggested list of initial work items for the CITS” (**[**DOC-007**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/007%20-%20China%20Unicom%20-%20Proposal%20to%20the%20suggested%20list%20of%20initial%20work%20items%20for%20the%20CITS.docx)**)**

Action:

* **ITU Secretariat** to reach out (via China Unicom) to Embedded Mobile Transport & Automotive group (EMTA) of GSMA’s Connected Living Programme ([CLP](http://www.gsma.com/connectedliving)) to participate in future work of the Collaboration
  1. **China Unicom, Kevin Li Jianyu: “Application requirement of ITS” (**[**DOC-008**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/008%20-%20China%20Unicom-%20Application%20requirement%20of%20ITS.zip)**)**
  2. **CNIT, Paolo Pagano: “Non-functional ITS requirements” (**[**DOC-004**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/004%20-%20CNIT-Non-functional%20ITS%20requirements.docx)**)**
  3. **CNIT, Paolo Pagano: “Low-cost, low-power 6LoWPAN network modules” (**[**DOC-005**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/005%20-%20CNIT-%20Low-cost,%20low-power%206LoWPAN%20network%20modules.docx)**)**

Documents 4 and 5 propose work items which are in the scope of ISO TC 204 WG16.

Action:

* **ISO TC 204 WG16** and **CNIT** to further discuss DOC-004 and DOC-005 at ISO TC 204’s next meeting in Melbourne starting 16 April 2012, to find ways to accommodate the input and to collaborate
  1. **ITU-R, Paul Najarian: “Resolution COM623 on automotive radar (safety applications)” (**[**DOC-002**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/002%20-%20ITU-R%20-%20Resolution%20COM623%20on%20automotive%20radar.docx) **and** [**DOC-002add**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/002add%20-%20ITU-R%20-%20Automotive%20Radar%20Briefing.pptx)**)**

Action:

* **ITU-R** to consider seeking input from IEEE and [APT Wireless Group](http://www.apt.int/APTAWG) in addition to organizations listed on DOC-002add, slide 4
  1. **Gridaptive Technologies, Jim Frazer: “ITS and Smart Grid Standards” (**[**DOC-003**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/003%20-%20Gridaptive%20Technologies%20-%20ITS%20and%20Smart%20Grid%20Standards.zip)**)**

Action:

* **ITU Secretariat** to assist bringing DOC-003 to the attention of the World Standards Cooperation ([WSC](http://worldstandardscooperation.org/)), in particular the International Electrotechnical Commission ([IEC](http://www.iec.ch/)), and with ITU-T smart grid experts
  1. **iMobility: FutureVision (IMFV) Virtual Research Centre, Muna Hamdi: “Future Vision of Mobility in Arabia” (**[**DOC-009r**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/009r%20-%20iMobilityFutureVision%20Virtual%20Research%20Centre%20-Future%20Vision%20Mobility%20in%20Arabia.docx) **and** [**DOC-009addr**](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120403-Troy/009addr%20-%20IMFV%20in%20Arabia.pdf)**)**

Action:

* **ITU Secretariat** to assist bringing DOC-009r to the attention of the [UN Broadband Commission](http://www.broadbandcommission.org/) and its new Commissioners

1. **Mapping of work items to SDOs / Discussion of work items**

Addressing **Item 1** on the draft list of Collaboration work items[[2]](#footnote-2) the Chairman noted that while there are various organizations in different regions, focusing on particular ITS pieces, a global picture did not exist, and that it was time to pull the different pieces together. Completion of Item 1 is a prerequisite to **Item 2** (gap analysis). Participants noted that communications requirements were derived from higher level application requirements. It was proposed to study performance as well as functional requirements of high-priority applications. It was also recommended to include security requirements of these applications (potential threats and vulnerabilities risks).

Participants agreed that it was essential to use a “standardised” reporting format (template) to take stock of high-priority ITS applications and their requirements.

Actions:

* **ITU Secretariat** to develop reporting template, by **30 April 2012**. The ITS application requirements analysis developed in the past might serve as guidance. **ISO / Dick Schnacke** to send old reporting template.
* **Kevin Li Jianyu (China Unicom)** to request CCSA, ITS China, and the ITS Centre to provide communications requirements for high-priority ITS applications in China to ITU Secretariat by **31 May, 2012**
* **Takaaki Sugiura and Yushi Naito** to request TTC and ITS Japan to provide communications requirements for high-priority ITS applications in Japan to ITU Secretariat by **31 May, 2012**
* **Michael Sharpe (ETSI)** to report on communications requirements for high-priority ITS applications in Europe including what are the requirements that the ETSI TC ITS work programme is trying to accommodateto ITU Secretariat by **31 May, 2012**
* **Dick Schnacke** with the support of **US DOT / Steve Sill** to report on communications requirements for high-priority ITS applications in the U.S. to ITU Secretariat by **31 May, 2012**
* **Muna Hamdi (iMobility: Future Vision / ITS Arab)** to report on communications requirements for high-priority ITS applications in the Arab region to ITU Secretariat by **31 May, 2012**

Participants pointed out that there was an urgent need to establish a set of fairly simple Collaboration procedures that describe how participating SDOs can have their relevant ITS standards converged, harmonized and incorporated into ITU Recommendations (**Item 3**). In the previous meeting of the Collaboration (14 December 2011) [it was agreed that](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20111214-Geneva/ITS%20Collaboration,%20Summary%20record%2014%20December%202011.docx) Mr Dick Schnacke (ISO), Mr Michael Sharpe (ETSI Secretariat) and Mr Reinhard Scholl (ITU Secretariat) would propose draft procedures.

Action:

* **ITU Secretariat** to develop a set of draft procedures in consultation with **Dick Schnacke** and **Michael Sharpe**, by 16 April 2012, i.e. prior to ISO TC 204 meeting

It was also agreed to continue reaching out to other SDOs and organizations involved in ITS communication standards to participate in the work.

**Item 4** of the list of work items addresses security frameworks and standards for use within ITS communications. Some participants argued that security requirements should not be addressed as an independent item but within the scope of Item 1. It was also noted that security is included in the scope of some ITS standardization groups, and that duplication of work should be avoided.

Actions:

* **Dick Roy / ISO** to provide additional information about existing ITS TVRAs
* **ITU Secretariat** to reach out to ITU-T Study Group 17 and find out what is needed from SG17 side to provide guidance on **Item 4**

It was noted that **Item 5** is at the heart of ITU-T Focus Group Driver Distraction and **Item 7** is of high concern to TTC Japan.

An amendment was proposed to **Item 6**: “Investigate regulatory and legislative actions […]”.

1. **Other Issues**

To avoid confusion with C-ITS (Cooperative ITS) it was proposed to use the acronym CICS (**C**ollaboration on **I**TS **C**ommunication **S**tandards) when referring to the Collaboration.

The next meeting will be held on **26 June 2012 at** [**BMW Training Academy**](http://www.bmwgroup.com/bmwgroup_prod/e/0_0_www_bmwgroup_com/akademien/haendlerqualifizierung/kontakt.html) **in Unterschleissheim / Munich, Germany**. The meeting will be held back-to-back with the [Focus Group on Driver Distraction](http://www.itu.int/en/ITU-T/focusgroups/distraction).

Future meetings are tentatively scheduled for 21 August 2012 (Japan), December (Washington, D.C.). Participants proposed to consider holding a future meeting in conjunction with [ITS World Congress](http://2012.itsworldcongress.com/) (22‑26 October 2012, Vienna).

Action:

* **ITU Secretariat** to update Collaboration website

The Chairman thanked the participants for all the discussions. The meeting closed at 4:55pm local time.

**List of Actions:**

* **ITU Secretariat** to develop a set of draft procedures in consultation with **Dick Schnacke** and **Michael Sharpe**, by 16 April 2012, i.e. prior to ISO TC 204 meeting
* **ITU Secretariat** to develop reporting template, by **30 April 2012**. The ITS application requirements analysis developed in the past might serve as guidance. **ISO / Dick Schnacke** to send old reporting template
* **ITU Secretariat** to reach out to ITU-T Study Group 17 and find out what is needed from SG17 side to provide guidance on **Item 4**
* **ITU Secretariat** to assist bringing DOC-009 to the attention of the [UN Broadband Commission](http://www.broadbandcommission.org/) and its new Commissioners
* **ITU Secretariat** to assist bringing DOC-003 to the attention of the World Standards Cooperation ([WSC](http://worldstandardscooperation.org/)), in particular the International Electrotechnical Commission ([IEC](http://www.iec.ch/)), and with ITU-T smart grid experts
* **ITU Secretariat** to reach out (via China Unicom) to Embedded Mobile Transport & Automotive group (EMTA) of GSMA’s Connected Living Programme ([CLP](http://www.gsma.com/connectedliving)) to participate in future work of the Collaboration
* **ITU Secretariat** to update Collaboration website
* **ITU-R** to consider seeking input from IEEE and [APT Wireless Group](http://www.apt.int/APTAWG) in addition to organizations listed on DOC-002add, slide 4
* **ISO TC 204 WG16** and **CNIT** to further discuss DOC-004 and DOC-005 at ISO TC 204’s next meeting in Melbourne starting 16 April 2012, to find ways to accommodate the input and to collaborate
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1. Collaboration website, <http://www.itu.int/en/ITU-T/extcoop/cits/> [↑](#footnote-ref-1)
2. See Collaboration website, <http://www.itu.int/en/ITU-T/extcoop/cits/> [↑](#footnote-ref-2)