

***International Harmonization of Cooperative
Systems Standards***

***The United States Department of
Transportation (USDOT) Perspective***

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ITS-JPO's Standards Role and Activities

Standards are essential to enable widespread deployment of interoperable ITS

How does ITS-JPO support development of standards?

- Strategic plan to guide future standards developments and policies
- Financial support to standards development/maintenance efforts
- Encourage systems engineering processes to facilitate complete and correct standards

What does ITS-JPO not do?

- Do not define contents of standards, not prescriptive
- Do not currently mandate use of specific standards in ITS system deployment

Where do ITS standards fit in?

- The National ITS Architecture provides the framework for interoperable ITS systems
- Standards define the interfaces between elements within the National ITS Architecture

International Standards Harmonization

Why seek harmonization of cooperative systems standards?

Reduce need for different vehicle hardware/software in different regions

- Reduce cost
- Accelerate implementation

Facilitate cooperation on applications, technical research

- Avoid duplication of effort
- Expand knowledge base cooperatively

Enable expanded benefits and services for customers

- Interoperable systems that work in all regions

USDOT remains committed to open standards development processes and harmonization when in the public interest

Harmonization Activity to Date

- Jan-2009: USDOT and the European Commission Directorate General for Information Society and Media (DGINFSO) entered into a bilateral Implementing Arrangement
- Nov-2009: the USDOT and DGINFSO signed a EU-US Joint Declaration of Intent on Research Cooperation
- Joint ITS Technical Task Force was established under the leadership of USDOT and DGINFSO
 - Task Force created several working groups (WG), including ITS Standards WG
 - ITS Standards Working Group established in Jan-2010 to explore opportunities for harmonizing ITS standards internationally



The EU-US Agreement (Standards)

EU-US Joint Declaration of Intent (13th November 2009)

Globally harmonized standards are essential to support and accelerate the deployment and adoption of Cooperative Systems. The parties strongly support development of global open standards which ensure interoperability through appropriate actions including, but not limited to, coordinating the activities of the standardization organizations. In particular, the parties intend to make efforts to preclude the development and adoption of redundant standards. The adoption of multiple standards within a given area of interest should be limited to those cases where there are demonstrated technical needs, such as differing frequency spectrum allocations, and legal requirements, such as privacy protection laws. The parties welcome the participation of other countries and regions, particularly those of the Asia Pacific region, in the development of global open, harmonized standards for Cooperative Systems.

Harmonization Opportunity Assessment Plan (HOAP)

Joint Leadership

- USDOT RITA ITS-JPO: Steve Sill
- European Commission DGINFSO: Wolfgang Höfs

First cooperative effort: Harmonization Opportunities Assessment Plan (HOAP) - Multistage reviews of existing and emerging standards

- High Level Assessment (HLA) with recommendations for detailed assessment
- Detailed Level Assessment (DLA) of select standards
- Harmonization Opportunity Identification (HOI)

Critical role for Standards Development Organizations (SDOs)

- SDOs will need to work in coordination with their local governments
- Technical expertise and knowledge base

Working Group Progress

- Finalizing HOAP
- In process of finalizing required document sharing agreements
- Next Working Group Meeting Oct 2010

Harmonization Opportunity Assessment Plan (HOAP)

Track 1: Assessment and Recommendations

- High Level Assessment (HLA)
- Detailed Level Assessment (DLA)
- Harmonization Opportunity Identification (HOI)

Track 2: Agreement for Harmonization Procedures

- Agreement in principle on standards program management principles to incentivize harmonization

Track 3: Gap/Overlap Analysis for Future Standards

- ITS cooperative systems (including IntelliDrive^{SM*}) standards gap analysis

* IntelliDrive is a service mark of the U.S. Department of Transportation.

Future ITS-JPO Standards Program Activity

Continued support of IntelliDrive standards development

- Coordination with harmonization efforts
- Meet standards needs identified by Systems Engineering program

Continued update/maintenance support of infrastructure standards

Renewed standards testing program

- Infrastructure and IntelliDrive

New contracts in 2011 (5-year) for future USDOT-funded SDO work

- Principles of consensus, openness will continue
- Mandated systems engineering processes for all future work

For More Information...

Please visit the following websites:



www.its.dot.gov

http://www.its.dot.gov/strat_plan/index.htm



www.intellidriveusa.org

For more information on USDOT ITS Standards:



<http://www.standards.its.dot.gov/>

Or follow us on:



http://www.its.dot.gov/rss_feed.htm



<http://www.its.dot.gov/exit/twitter.htm>