

Overview of WG8 and ITS Transit Standards

Transit Workshop
May 18, 2004
Vancouver, BC
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Standards Benefits

- Decrease time to market; faster time to deploy
- Reduces Costs
- Allows public transport industry to build on established practice
- Increase competition
 - Not dependent on a single vendor (for upgrades and expansion)
- Development of “component parts” for transit systems (leverages the marketplace)

ISO TC204 WG8

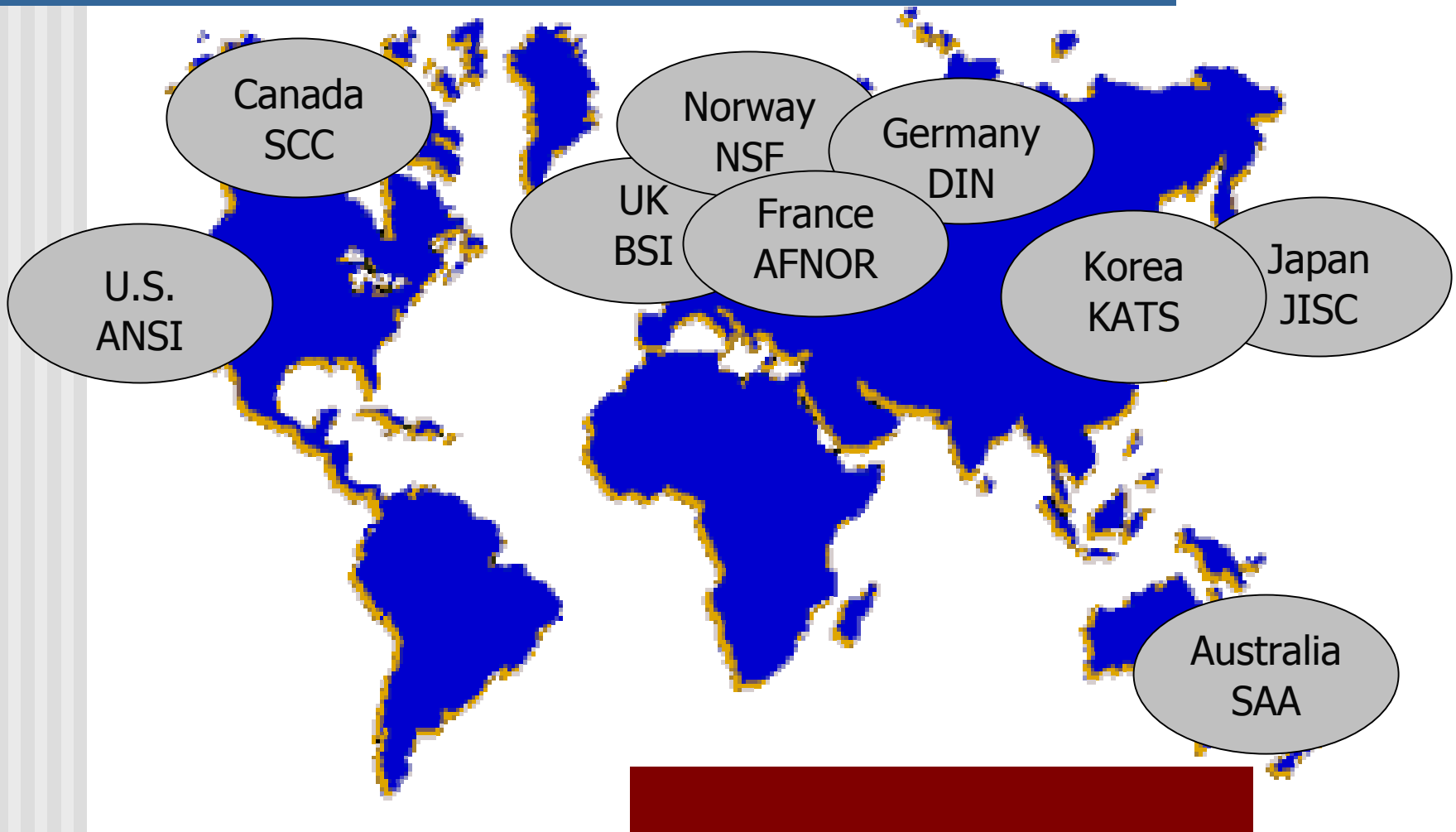
International Organization for Standardization Technical Committee 204: Intelligent Transport Systems

- Working Group 8: Public Transport and Emergency
 - Formed in 1994
 - Includes services related to public transport (transit business areas) and emergency systems
 - Currently have 5 work items, will be adding one more
 - Meets semi-annually concurrent with TC204 meetings

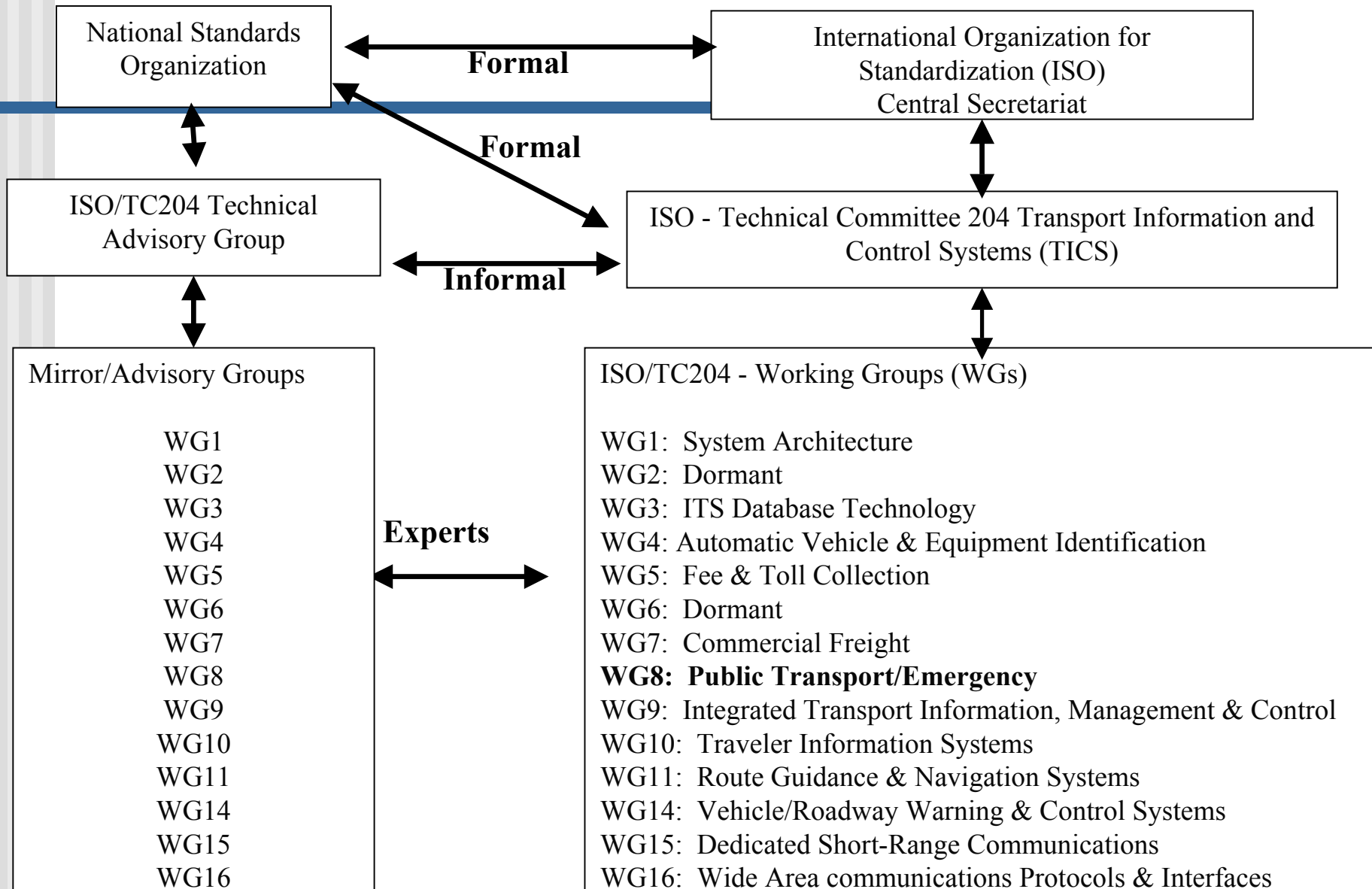
ISO TC 204 Working Groups

- WG1: System Architecture
- WG3: ITS Database Technology
- WG4: Automatic Vehicle & Equipment Identification
- WG5: Fee & Toll Collection
- WG7: Commercial Freight
- **WG8: Public Transport/Emergency**
- WG9: Integrated Transport Information, Management & Control
- WG10: Traveler Information Systems
- WG11: Route Guidance & Navigation Systems
- WG14: Vehicle/Roadway Warning & Control Systems
- WG15: Dedicated Short-Range Communications
- WG16: Wide Area communications Protocols & Interfaces

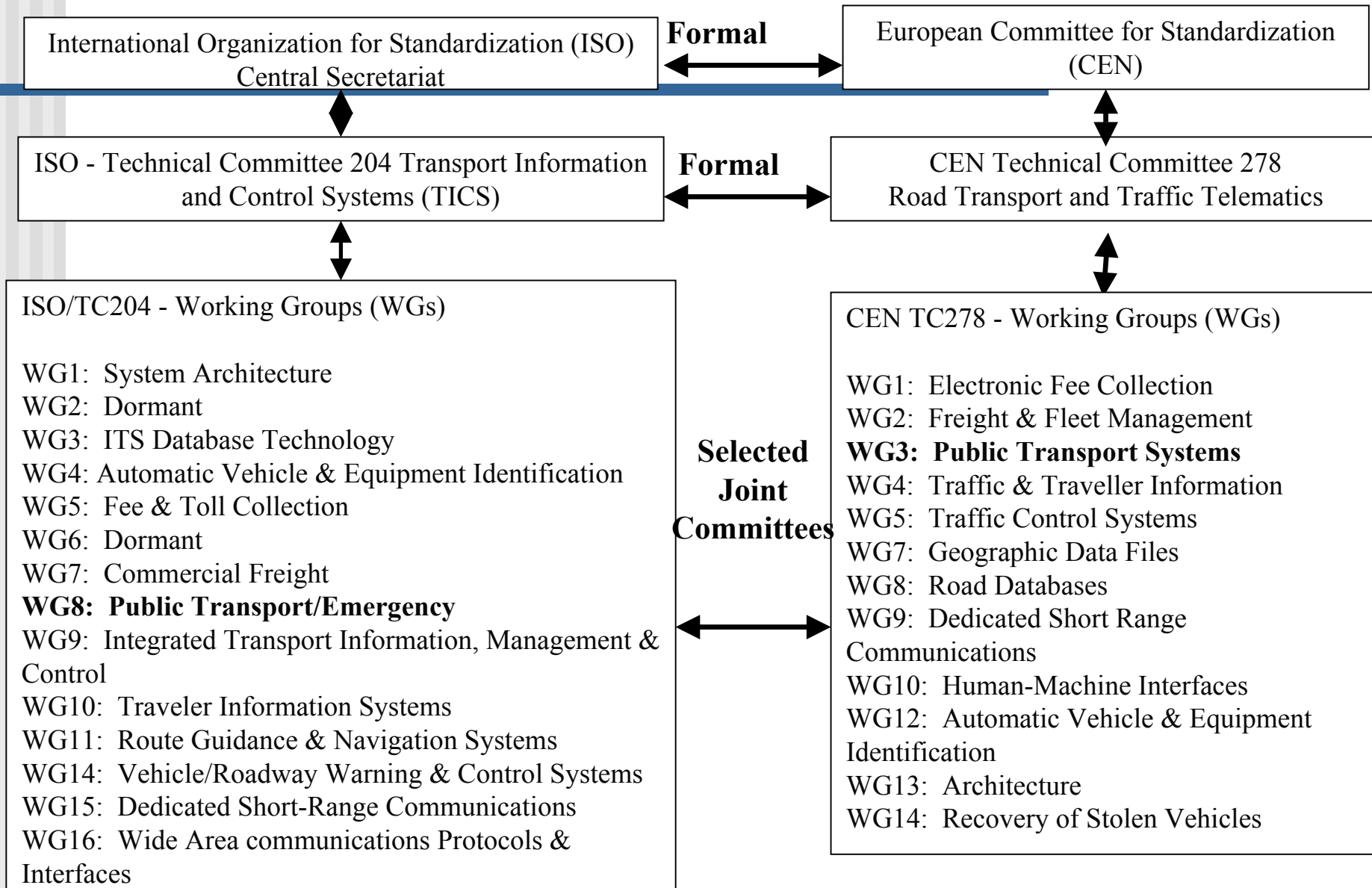
WG8 Member Countries



ISO TC204 Working Groups



Relationship with CEN



Standards Develop Document process

- Preliminary Work Item [PWI]
- New Work Item Proposal [NP]
- Committee Working Draft Proposal [CD]
- Draft International Standard [DIS]
- Final Draft International Standard [FDIS]

Standard Numbering System for Public Transport Stops [PWI 33153]

- Description: Establish a human understandable, and unique global identifier for every public transport stop.
- Lead: Australia
- Status: Limited work due to lack of resources. Discussing transfer of lead to another country for further work.

Public Transport Communications Interface Profiles (TCIP) [CD 17686]

- Description: Data dictionary and message set to enable data exchange among public transport systems
- Lead: US
- Status: WG 8 will discuss an extension on DIS submittal

Pre-emption and Prioritization Signal Systems for Emergency and Public Transport Vehicles (PRESTO) [NP 22951]

- Description: Data dictionary and message set for transit signal priority request
- Lead: Japan
- Status: CD submission expected at WG8 meeting in Beijing October 2004

Interoperable Fare Management System Architecture

- Description: Model functional architecture for fare management system
- Lead: UK
- Status:
 - Accepted as PWI in Vienna, Fall 2003
 - Joint work item with CEN

Public Transport Vehicle Area Network [to be submitted]

- Description: Local area network, message exchange and data descriptions based on SAE J1708/J1939 standard
- Lead: Kronenberger
- Status: To be submitted as PWI. High-speed option added.

Related TC 204 Standards

- WG1 System Architecture
 - Reference Model Architecture, Data Dictionary Format/Registry, Glossary, Fundamental Services (Service Domains)
- WG 3 ITS Database Management
 - GDF and XGDF, Location Services
- WG9: Integrated Transport Information, Management & Control
 - PRESTO – Transit Signal Priority

Related TC 204 Standards

- WG 10 TTI via Transport Protocol Expert Group (TPEG)
 - Part 5: Public Transport Information Application
- WG 16 Dedicated Short-Range Communications (CALM)
- Joint Technical Committee (JTC 1)
 - SC 17 Smart Card

Questions

- We are always looking for more participants and input
- Next WG8 meeting
 - Wednesday, May 19, 2004, 8:30 AM – 3:00 PM, Hilton Vancouver Metrotown, Crystal Ballroom 3
- Next TC204 meeting
 - Beijing, October 2004
- To get involved, please contact:
 - Bill Johnson, Standards Council of Canada, TC204 Canadian Head of Delegation