

ANSI – ESO Conference

Transatlantic Standardization Partnerships on E-Mobility/Electric Vehicles, Energy, and Security

October 12, 2011











National Transportation Communications for ITS Protocol (NTCIP) Update

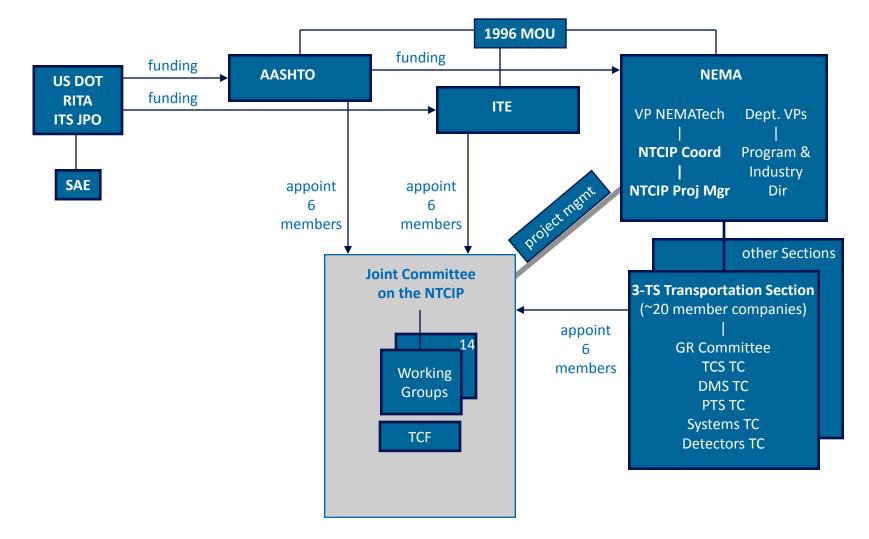
Presented by

Bruce Schopp National Electrical Manufacturers Association

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NTCIP Project Organization



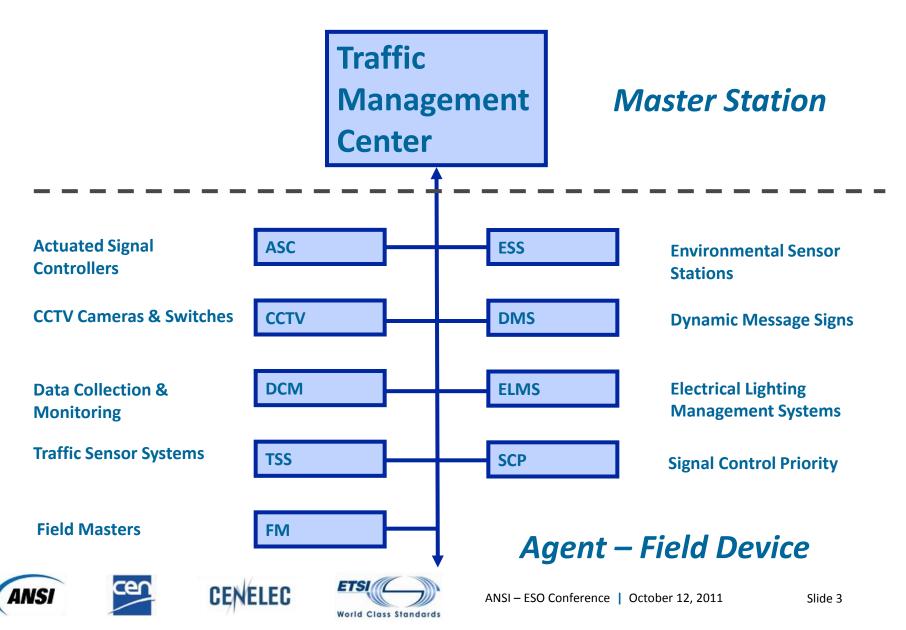




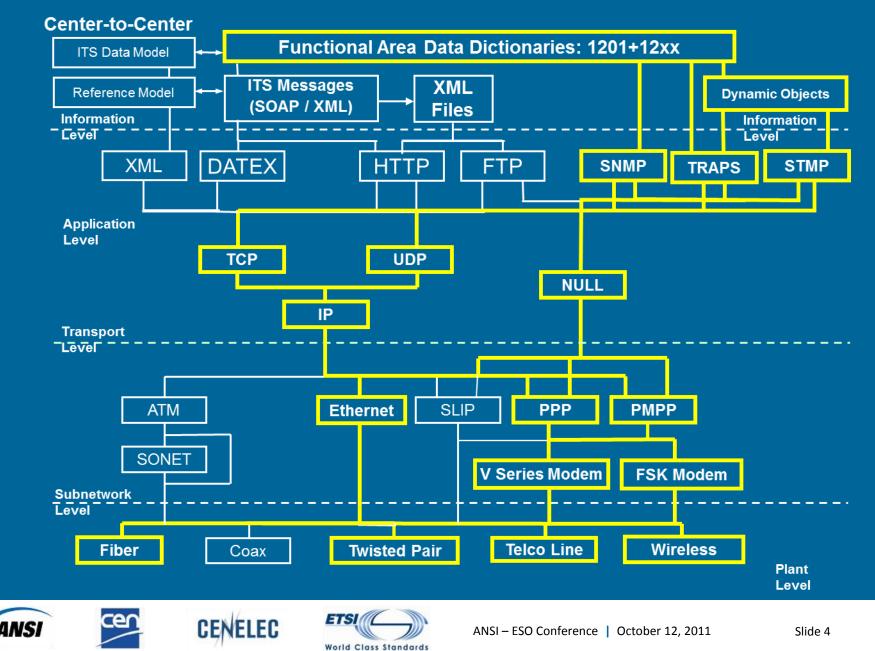
CENELEC



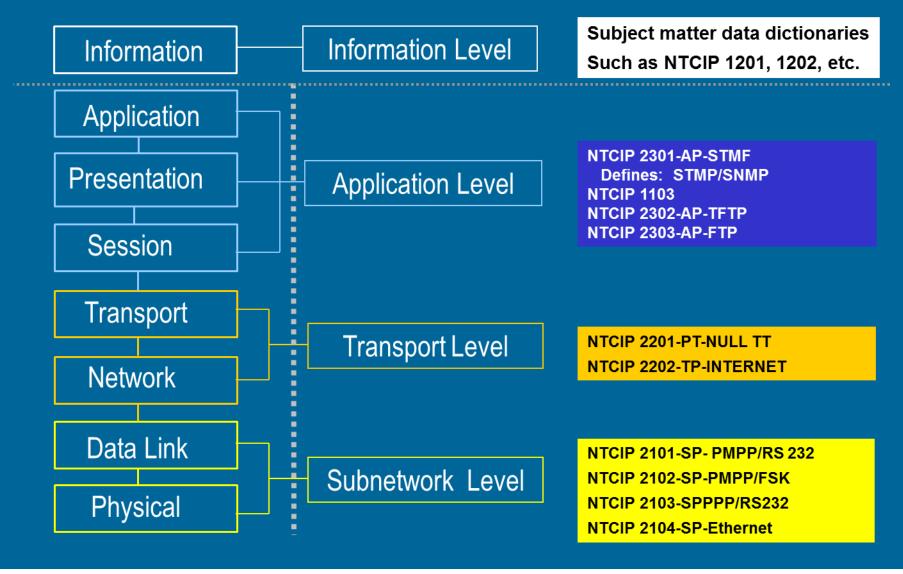
NTCIP Center-to-Field Standards



Navigating C2F Framework



NTCIP Standards Framework









NEMA Transportation Standards

NEMA TS 2-2003 - Traffic Controller Assemblies with NTCIP

Requirements, version 02.06.

www.nema.org/stds/ts2.cfm

- 1998 letter ballot to approve 1998 version and rescind 1992 version.
- 2001 letter ballot to approve TS 2-1998 Amendment 1.
- 2008 letter ballot to reaffirm TS 2-2003 in October 2008, successful.

NEMA TS 4-2005 - Hardware Standards for Dynamic Message Signs (DMS)

plus TS 4-2005 Conformance Table www.nema.org/stds/ts4.cfm

NEMA TS 5 – DRAFT – Portable Traffic Signal Control Systems







NTCIP Country Deployment

Canada – strong for signs

South Africa – Strong NTCIP (Prepared for 2010 World Cup) Johannesburg Road Agency

- All NTCIP signs, upgrade of 1,800 traffic controllers to NTCIP

New Zealand -- *Competitive sign industry – Multiple NTCIP Suppliers*

China – Beijing Traffic System, Hong Kong Tunnel Venezuela – Signs Greece – Olympic Traffic System





