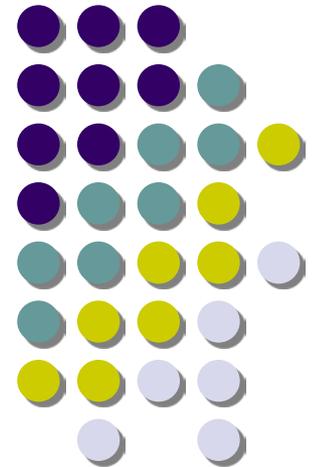


NTCIP 1204 v04 Update

August 13, 2014

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Consensus Systems Technologies



NTCIP 1204 v04



Outline

- Scope
- Status
- Next Steps
- Getting Involved

NTCIP 1204 v04



- Scope
 - Information (data dictionary) standard to exchange environmental data between a computer and an environmental sensor station
 - Allows for monitor and control
 - Produce a revision of NTCIP 1204 v03 - Object Definitions for Environmental Sensor Stations

NTCIP 1204 v04



- Scope

- Objectives

- Assess issues and integrating information with *connected vehicles*, *Clarus*, and *AERIS* programs
- Accommodate additional user needs and functional requirements identified
- Use a systems engineering process (SEP) to ensure the completeness and correctness of NTCIP 1204 v04
- Address backward compatibility (multi-version interoperability) issues in NTCIP 1204 v04

NTCIP 1204 v04



- Status
 - Systems Engineering consultant on board April 2014
 - Stakeholder Interviews
 - Verify and validate existing user needs
 - Identify and formalize new user needs
 - (3) state agencies, (2) USDOT programs, (2) systems integrators, (4) vendors, (2) subject matter experts

NTCIP 1204 v04



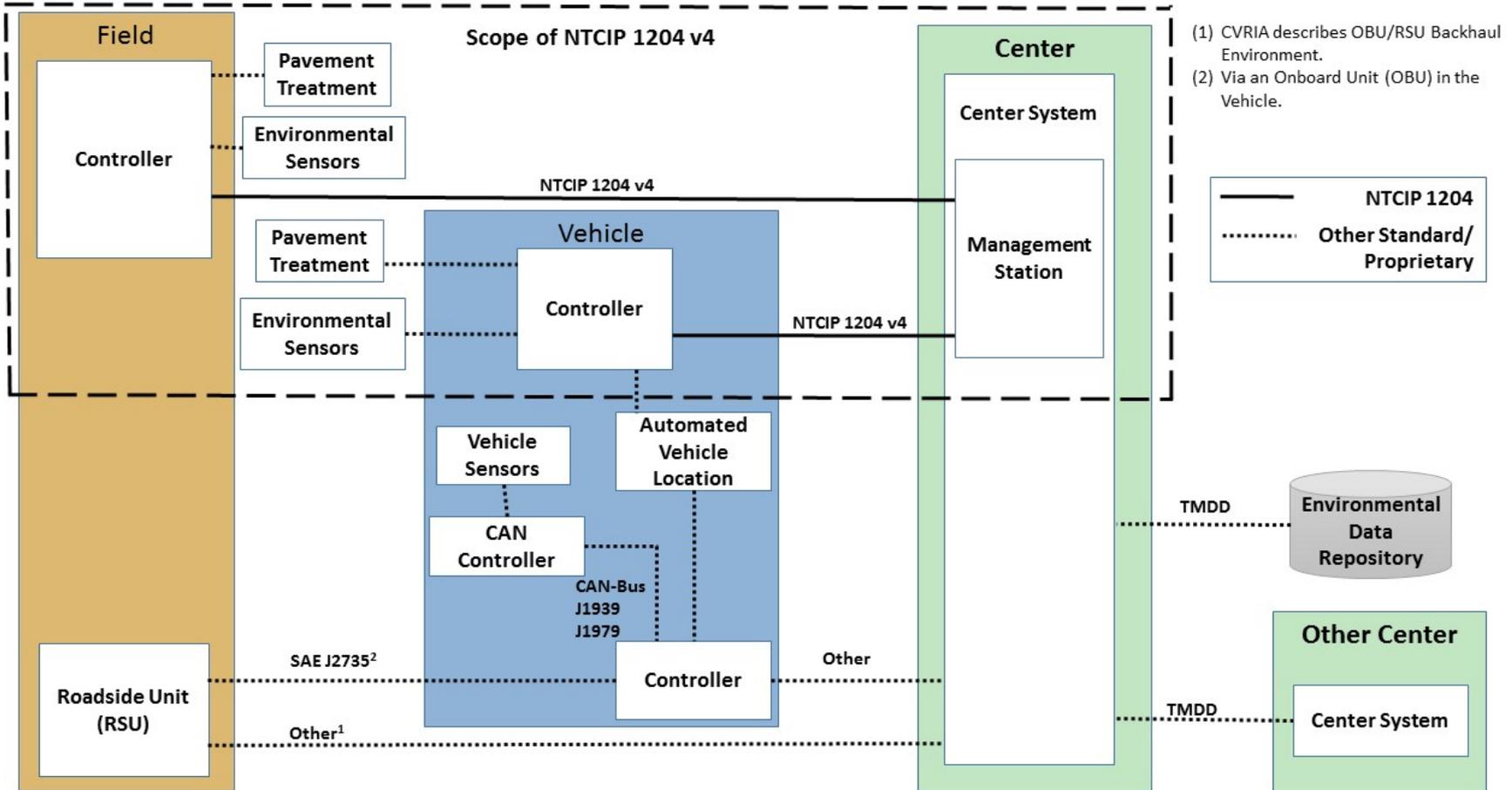
- Status (Cont.)
 - Interview Report
 - New technology – Process to add new objects or enumerations is difficult
 - Support for non-invasive sensors is inconsistent
 - Support for multi-point sensors
 - Mobile sensors – support for event-driven communications (SNMP traps needed)
 - Metadata is important – sensor placement, instrumentation, precision

NTCIP 1204 v04



- Status (Cont.)
 - Draft Concept of Operations (ConOps)
 - Confirm the scope of the standard
 - Define the user needs to be addressed
 - Will be used to develop the functional requirements
 - A ConOps Walkthrough was performed July 29 and July 31.

NTCIP 1204 v04



NTCIP 1204 v04



- Status

- Revised Concept of Operation submitted
 - Based on inputs from the walkthrough
 - Based on comments received
- Outstanding User Needs to be validated:
 - Manage Permanent Spray System
 - Monitor Mobile Weather Profile (e.g., vehicle speed, direction of travel, miles traveled)
- Begin Requirements Content
- Begin Design Content
- Revised Test Procedures
 - Expected completion February 2015

NTCIP 1204 v04



- Getting Involved
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