

U.S. DOT Motivation

The U.S. DOT supports the development of METR because it acknowledges the need for a secure and interoperable method of digitally communicating road rules, advisories, and guidance.

Management of Electronic Traffic Regulations (METR) will provide a means for road users to obtain machine-interpretable, publicly-available, transport-related, authoritative information for the use of surface transport facilities to better provide safe, efficient, sustainable, comfortable, and equitable transport services.

METR Scope

- METR is intended to "manage" traffic regulations
 - Provide trustworthy traffic regulations

Accurate Complete Up-to-date

Consider characteristics of regulations

Dynamic Applicability to users

Respect existing standards for distributing regulations

METR Roles and Responsibilities

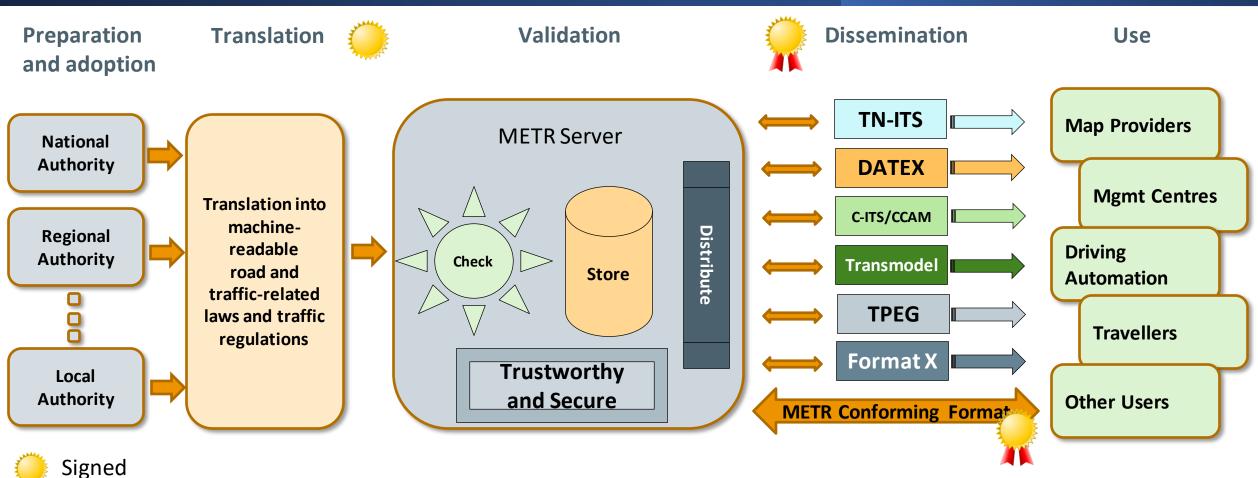
https://iso-tc204.github.io/iso24315



Role	Responsibilities
Rule-maker	 Creates and manages rules through traditional means; authorized by the jurisdictional entity City council Traffic engineering department Police officers
METR	Converts rules for a defined scope into the METR format with electronic signature and distributes as appropriate to end users
User	Complies with the information contained in the rules
Supplemental data provider	Provides real-time data that impacts rule status

METR Overview

https://iso-tc204.github.io/iso24315



Signed, verified, and fully trustworthy

"METR Conforming" could include updates to existing protocols

- The U.S. DOT's ITS Joint Program Office supports the development of METR by:
 - Providing an expert as editor of the METR document series
 - Participating in METR development with a team of subject matter experts
 - Regular collaboration with worldwide colleagues on METR and other related activities
 - Coordinating within U.S. DOT to ensure METR can be smoothly integrated into other U.S. DOT initiatives
- Evaluating possible approach for deploying the METR in the U.S.
 - Central vs. hierarchical system management
 - Private vs. public distribution system

Coordination within U.S. DOT

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WZDx & data exchanges

Other elements of ITS and CAV





U.S. and Europe

- European pilots and testing are of great value to U.S. DOT—different countries are beginning the process of planning METR implementations
- U.S. DOT intends to monitor these and other efforts to help inform a path forward for the U.S.
- U.S. DOT will need to draft its own implementation guide due to the differences in regulatory structures and policies, in particular, given the variations in jurisdictions across the nation.
- U.S. DOT is open to comments and input from other countries.

Next Steps

- Continued participation and support for ISO meetings
- Planned presentations at TRB Annual Meeting (Jan. 2024) and ITS America Annual Meeting (April 2024)
- Knowledge sharing activities both internally within U.S. DOT and externally with public agencies
- International travel to support collaboration with European colleagues and review progress on European implementations

Next Steps

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