SURFACE VEHICLE INFORMATION REPORT

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Listing of Provider Service Identifiers and Associated Application Technical Reports

RATIONALE

This document enables implementers to quickly determine the full set of technical specifications associated with a provider service identifier (PSID).

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1. SCOPE

This document provides a mapping between provider service identifiers (PSIDs)—allocated to SAE by the appropriate registration authorities—and SAE technical specifications of applications identified by those PSIDs. It is intended that this document will be updated regularly, including information about the publication status of SAE technical reports.

2. REFERENCES

2.1 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J2945 Dedicated Short Range Communication (DSRC) Systems Engineering Process Guidance for J2945/x Documents and Common Design Concepts

SAE J2945/1 On-Board System Requirements for V2V Safety Communications

SAE J2945/2 Dedicated Short Range Communications (DSRC) Performance Requirements for V2V Safety Awareness

SAE J2945/3 Requirements for Road Weather Applications

SAE J2945/9 Vulnerable Road User Safety Message Minimum Performance Requirements

SAE J2945/C Requirements for Probe Data Collection Applications

SAE J3161/1 On-Board System Requirements for LTE-V2X V2V Safety Communications

SAE J3186 Application Protocol and Requirements for Maneuver Sharing and Coordinating Service

SAE J3217 V2X-Based Fee Collection

SAE J3224 V2X Sensor-Sharing for Cooperative and Automated Driving

2.1.2 IEEE Publications

Available from IEEE Operations Center, 445 and 501 Hoes Lane, Piscataway, NJ 08854-4141, Tel: 732-981-0060, www.ieee.org.

1609.2-2016 IEEE Standard for Wireless Access in Vehicular Environments (WAVE) - Security Services for Applications and Management Messages

1609.3-2020 IEEE Standard for Wireless Access in Vehicular Environments (WAVE) - Networking Services

1609.12-2019 IEEE Standard for Wireless Access in Vehicular Environments (WAVE) - Identifiers

3. DEFINITIONS

P-ENCODING: A specific way of encoding a provider service identifier (PSID) which is used in certain contexts.

PROVIDER SERVICE IDENTIFIER: An identifier for an application specification, used in a number of protocols defined in the IEEE 1609 series of standards.

4. ABBREVIATIONS

ASN.1 Abstract Syntax Notation 1

PSID Provider Service Identifier

WAVE Wireless Access in Vehicular Environments

WSMP Wireless Access in Vehicular Environments (WAVE) Short Messaging Protocol

5. OVERVIEW

A PSID is defined in IEEE 1609.12 as an integer which identifies an application specification. Specific uses of the PSID in the context of communications or security protocols are standardized in IEEE 1609.2 and IEEE 1609.3. The encoding of a PSID varies depending on the context; IEEE 1609.12 defines p-encoding, which is used in all IEEE 1609.3 protocols, while in IEEE 1609.2 the PSID is an ASN.1 integer type that is encoded with the encoding rules used for all 1609.2 structures. A list of all allocated PSIDs is maintained by IEEE at https://standards.ieee.org/products-services/regauth/psid/public.html.

The owner of a PSID has the right and responsibility to identify the document or documents containing the application specification that the PSID identifies. Implementers who are implementing functionality that uses the PSID—for example, the wireless access in vehicular environments (WAVE) short messaging protocol (WSMP)—are expected to have access to the full set of documents containing the relevant application specification(s), so that they can produce an implementation that is complete.

This SAE Information Report provides a mapping between the PSID value and the SAE Technical Report(s) that contain(s) the application specification.