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Road vehicles — Extended vehicle (ExVe) web services —

Part 2: Access

Véhicule routiers — Web services du véhicule étendu (ExVe) —

Partie 2: Accès

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles,* Subcommittee SC 31, *Data communication*.

A list of all parts in the ISO 20078 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Road vehicles — Extended vehicle (ExVe) web services —

Part 2: Access

1 Scope

This document defines how to access Resources on a Web services interface of an Offering Party using the Hypertext Transfer Protocol Secure (HTTPS). For such an access, the Representational State Transfer (REST) architectural pattern is chosen as a common way to format Resource paths. Some specific extensions to this pattern are defined to allow for asynchronous Resource requests, such as, for example, forcing readouts of data from a connected vehicle.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 20078-1:2019, *Road vehicles — Extended vehicle (ExVe) web services — Part 1: Content*

ISO 20078-3, *Road vehicles — Extended vehicle (ExVe) web services — Part 3: Security*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 20078-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.2 Abbreviated terms

For the purposes of this document, the abbreviated terms given in ISO 20078-1 apply.

4 Representational State Transfer based Interface

4.1 General

The following defines the requirements on a Representational State Transfer (REST)[3] based web service interface using Hypertext Transfer Protocol Secure (HTTPS)[1][2][8] based on Transport Layer Security (TLS) to give the Accessing Party secure Access to Resources provided by the Offering Party.

REQ_04_01_01	The REST based web services interface implementation shall use the Hypertext Transfer Protocol Secure (HTTPS) as transport protocol with Transport Layer Security (TLS).