INTERNATIONAL STANDARD

ISO/IEC 20802-1

First edition
2016-12-15

Information technology — Open data protocol (OData) v4.0

Part 1: **Core**

Technologies de l'information — Protocole de données ouvertes (OData) v4.0 —

Partie 2: Base

Reference number
ISO/IEC 20802-1:2016(E)

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OData Version 4.0 Part 1: Protocol Plus Errata 02

OASIS Standard incorporating Approved Errata 02

30 October 2014

Specification URIs

This version:

http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/part1-protocol/odata-v4.0-errata02-os-part1-protocol-complete.doc (Authoritative)
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Latest version:

http://docs.oasis-open.org/odata/odata/v4.0/odata-v4.0-part1-protocol.doc (Authoritative)
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Additional artifacts:

This prose specification is one component of a Work Product that also includes:

- List of Errata items. *OData Version 4.0 Errata 02*. Edited by Michael Pizzo, Ralf Handl, Martin Zurmuehl, and Hubert Heijkers. 30 October 2014. OASIS Approved Errata. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/odata-v4.0-errata02-os.html.
- *OData Version 4.0 Part 1: Protocol Plus Errata 02* (this document). Edited by Michael Pizzo, Ralf Handl, and Martin Zurmuehl. 30 October 2014. OASIS Standard incorporating Approved Errata 02. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/part1-protocol/odata-v4.0-errata02-os-part1-protocol-complete.html.
- *OData Version 4.0 Part 2: URL Conventions Plus Errata 02*. Edited by Michael Pizzo, Ralf Handl, and Martin Zurmuehl. 30 October 2014. OASIS Standard incorporating Approved

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Errata 02. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/part2-url-conventions/odata-v4.0-errata02-os-part2-url-conventions-complete.html.

- *OData Version 4.0 Part 3: Common Schema Definition Language (CSDL) Plus Errata 02*. Edited by Michael Pizzo, Ralf Handl, and Martin Zurmuehl. 30 October 2014. OASIS Standard incorporating Approved Errata 02. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/part3-csdl/odata-v4.0-errata02-os-part3-csdl-complete.html.
- ABNF components: OData ABNF Construction Rules Version 4.0 and OData ABNF Test Cases. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/abnf/.
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- XML schemas: OData EDMX XML Schema and OData EDM XML Schema. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/schemas/.
- OData Metadata Service Entity Model: http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/complete/models/.
- Change-marked (redlined) versions of OData Version 4.0 Part 1, Part 2, and Part 3. OASIS Standard incorporating Approved Errata 02. http://docs.oasis-open.org/odata/odata/v4.0/errata02/os/redlined/.

Related work:

This specification is related to:

- *OData Version 4.0 Part 1: Protocol*. Edited by Michael Pizzo, Ralf Handl, and Martin Zurmuehl. 24 February 2014. OASIS Standard. http://docs.oasis-open.org/odata/odata/v4.0/os/part1-protocol/odata-v4.0-os-part1-protocol.html.
- *OData Atom Format Version 4.0*. Edited by Martin Zurmuehl, Michael Pizzo, and Ralf Handl. Latest version. http://docs.oasis-open.org/odata/odata-atom-format/v4.0/odata-atom-format-v4.0.html.
- *OData JSON Format Version 4.0*. Edited by Ralf Handl, Michael Pizzo, and Mark Biamonte. Latest version. http://docs.oasis-open.org/odata/odata-json-format/v4.0/odata-json-format-v4.0.html.

Declared XML namespaces:

- http://docs.oasis-open.org/odata/ns/edmx
- http://docs.oasis-open.org/odata/ns/edm

Abstract:

The Open Data Protocol (OData) enables the creation of REST-based data services, which allow resources, identified using Uniform Resource Locators (URLs) and defined in an Entity Data Model (EDM), to be published and edited by Web clients using simple HTTP messages. This document defines the core semantics and facilities of the protocol.

Status:

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[OData-Part1]

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Appendix B. Revision History 73

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1 Introduction

The Open Data Protocol (OData) enables the creation of REST-based data services, which allow resources, identified using Uniform Resource Locators (URLs) and defined in a data model, to be published and edited by Web clients using simple HTTP messages. This specification defines the core semantics and the behavioral aspects of the protocol.

The **[OData-URL]** specification defines a set of rules for constructing URLs to identify the data and metadata exposed by an OData service as well as a set of reserved URL query options.

The **[OData-CSDL]** specification defines an XML representation of the entity data model exposed by an OData service.

The **[OData-Atom]** and **[OData-JSON]** documents specify the format of the resource representations that are exchanged using OData.

1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in **[RFC2119]**.

1.2 Normative References

[OData-ABNF] *OData ABNF Construction Rules Version 4.0*.
See link in "Additional artifacts" section on cover page.

[OData-Atom] *OData ATOM Format Version 4.0*.
See link in "Related work" section on cover page.

[OData-CSDL] *OData Version 4.0 Part 3: Common Schema Definition Language (CSDL)*.
See link in "Additional artifacts" section on cover page.

[OData-JSON] *OData JSON Format Version 4.0.*
See link in "Related work" section on cover page.

[OData-URL] *OData Version 4.0 Part 2: URL Conventions*.
See link in "Additional artifacts" section on cover page.

[OData-VocCap] *OData Capabilities Vocabulary.*
See link in "Additional artifacts" section on cover page.

[OData-VocCore] *OData Core Vocabulary.*
See link in "Additional artifacts" section on cover page.

[RFC2046] Freed, N. and N. Borenstein, "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November, 1996. http://www.ietf.org/rfc/rfc2046.txt.

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[RFC7231] Fielding, R., Ed. and J. Reschke, Ed., "Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content", RFC 7231, June 2014. http://www.ietf.org/rfc/rfc7231.txt.

[RFC7232] Fielding, R., Ed. and J. Reschke, Ed., "Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests", RFC 7232, June 2014. http://www.ietf.org/rfc/rfc7232.txt.

[RFC7240] Snell, J., "Prefer Header for HTTP", RFC 7240, June 2014. http://www.ietf.org/rfc/rfc7240.txt.

1.3 Typographical Conventions

Keywords defined by this specification use this `monospaced` font.

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