Profile of JSON Web Signature for OASIS Digital Signature Services Version 2.0

Working Draft 01

30 July 2019

Technical Committee:

[OASIS Digital Signature Services eXtended (DSS-X) TC](https://www.oasis-open.org/committees/dss-x/)

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Additional artifacts:

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* XML schemas: (list file names or directory name)
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Related work:

This specification is related to:

* *Digital Signature Service Core Protocols, Elements, and Bindings Version 2.0.* Edited by Andreas Kuehne and Stefan Hagen. Latest version: <https://docs.oasis-open.org/dss-x/dss-core/v2.0/dss-core-v2.0.html>.

Declared XML namespaces:

* <http://docs.oasis-open.org/dss-x/ns/jws>

Abstract:

This document defines a protocol and processing profile of the DSS Signing and Verifying Protocol specified in DSS v2.0, which allows creation of JSON Web Signatures and the return of a verification outcome for each signature in a verification request.

Status:

This [Working Draft](https://www.oasis-open.org/policies-guidelines/oasis-defined-terms-2017-05-26#dWorkingDraft) (WD) has been produced by one or more TC Members; it has not yet been voted on by the TC or [approved](https://www.oasis-open.org/policies-guidelines/tc-process#committeeDraft) as a Committee Draft (Committee Specification Draft or a Committee Note Draft). The OASIS document [Approval Process](https://www.oasis-open.org/policies-guidelines/tc-process#standApprovProcess) begins officially with a TC vote to approve a WD as a Committee Draft. A TC may approve a Working Draft, revise it, and re-approve it any number of times as a Committee Draft.

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# Introduction

[All text is normative unless otherwise labeled]

## IPR Policy

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## 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](#RFC2119)] and [[RFC8174](#RFC8174)] when, and only when, they appear in all capitals, as shown here.

## Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<http://www.rfc-editor.org/info/rfc2119>>.

**[****RFC8174]** Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174, May 2017, <<http://www.rfc-editor.org/info/rfc8174>>.

[Reference] [Full reference citation]

## Non-Normative References

**[****RFC3552]** Rescorla, E. and B. Korver, "Guidelines for Writing RFC Text on Security Considerations", BCP 72, RFC 3552, DOI 10.17487/RFC3552, July 2003, <<https://www.rfc-editor.org/info/rfc3552>>.

[Reference] [Full reference citation]

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For example:

**[OpenDoc-1.2]** *Open Document Format for Office Applications (OpenDocument) Version 1.2*. Edited by Patrick Durusau and Michael Brauer. 19 January 2011. OASIS Committee Specification Draft 07. <http://docs.oasis-open.org/office/v1.2/csd07/OpenDocument-v1.2-csd07.html>. Latest version: <http://docs.oasis-open.org/office/v1.2/OpenDocument-v1.2.html>.

*Reference sources:*

For references to **IETF RFCs**, use the approved citation formats at:
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For references to **W3C Recommendations**, use the approved citation formats at:
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# Section Title

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#### Level 4 section title

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##### Level 5

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###### Level 6

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# Security Considerations

(**Note:** OASIS strongly recommends that Technical Committees consider issues that could affect security when implementing their specification and document them for implementers and adopters. For some purposes, you may find it required, e.g. if you apply for IANA registration.

While it may not be immediately obvious how your specification might make systems vulnerable to attack, most specifications, because they involve communications between systems, message formats, or system settings, open potential channels for exploit. For example, IETF [[RFC3552](#RFC3552)] lists “eavesdropping, replay, message insertion, deletion, modification, and man-in-the-middle” as well as potential denial of service attacks as threats that must be considered and, if appropriate, addressed in IETF RFCs.

In addition to considering and describing foreseeable risks, this section should include guidance on how implementers and adopters can protect against these risks.

We encourage editors and TC members concerned with this subject to read *Guidelines for Writing RFC Text on Security Considerations,* IETF [[RFC3552](#RFC3552)], for more information.)

# Conformance

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For the definition of "conformance clause," see [OASIS Defined Terms](https://www.oasis-open.org/policies-guidelines/oasis-defined-terms-2017-05-26#dConformanceClause).

See "Guidelines to Writing Conformance Clauses":
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1. Acknowledgments

(**Note:** A Work Product approved by the TC must include a list of people who participated in the development of the Work Product. This is generally done by collecting the list of names in this appendix. This list shall be initially compiled by the Chair, and any Member of the TC may add or remove their names from the list by request.

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The following individuals have participated in the creation of this specification and are gratefully acknowledged:

Participants:

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1. Example Title

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* 1. Subsidiary section

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1. Revision History

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| --- | --- | --- | --- |
| **Revision** | **Date** | **Editor** | **Changes Made** |
| [Rev number] | [Rev Date] | [Modified By] | [Summary of Changes] |