Registries for Web Authentication (WebAuthn)
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Abstract

This specification defines IANA registries for W3C Web Authentication attestation statement formats and extension identifiers.

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1. Introduction

This specification establishes IANA registries for W3C Web Authentication [WebAuthn] attestation statement formats and extension identifiers. The initial values for these registries are in the IANA Considerations section of the [WebAuthn] specification.

2. WebAuthn Attestation Statement Format Identifier Registry

WebAuthn attestation statement format identifiers are strings whose semantic, syntactic, and string-matching criteria are specified in [WebAuthn], along with the concepts of attestation and attestation statement formats.

WebAuthn attestation statement formats are registered on the advice of a Designated Expert (appointed by the IESG or their delegate), with a Specification Required (per [RFC5226]).

The Expert(s) will establish procedures for requesting registrations, and make them available from the registry page.

Registration requests consist of at least the following information:

- WebAuthn Attestation Statement Format Identifier: This identifier MUST be a maximum of 32 octets in length and MUST consist only of printable USASCII characters, excluding backslash and doublequote. This name is case sensitive. Names may not match other registered names in a case-insensitive manner unless the Designated Experts state that there is a compelling reason to allow an exception.
- Description: A relatively short description of the attestation format.
- Specification Document: Reference to the specification of the attestation statement format.
- Notes: [optional]
The Expert(s) MAY define additional fields to be collected in the registry. Each attestation statement format identifier added to this registry MUST be unique amongst the set of registered attestation statement format identifiers. The Experts(s) MAY also designate attestation statement formats as proprietary if they lack complete specifications, and will assign a prefix indicating as such to the identifier.

Registrations MUST reference a freely available specification, e.g., as described in [RFC2026] Section 7.

Note that WebAuthn attestation statement formats can be registered by third parties, if the Expert(s) determine that an unregistered attestation statement format is widely deployed and not likely to be registered in a timely manner.

Decisions (or lack thereof) made by the Designated Expert can be first appealed to Application Area Directors (contactable using app-ads@tools.ietf.org email address or directly by looking up their email addresses on http://www.iesg.org/ website) and, if the appellant is not satisfied with the response, to the full IESG (using the iesg@iesg.org mailing list).

3. WebAuthn Extension Identifier Registry

WebAuthn extension identifiers are strings whose semantic, syntactic, and string-matching criteria are specified in [WebAuthn].

WebAuthn extension identifiers are registered on the advice of a Designated Expert (appointed by the IESG or their delegate), with a Specification Required (per [RFC5226]).

The Expert(s) will establish procedures for requesting registrations, and make them available from the registry page.

Registration requests consist of at least the following information:

- WebAuthn Extension Identifier: This identifier MUST be a maximum of 32 octets in length and MUST consist only of printable USASCII characters, excluding backslash and doublequote. This name is case sensitive. Names may not match other registered names in a case-insensitive manner unless the Designated Experts state that there is a compelling reason to allow an exception.
- Description: A relatively short description of the extension.
- Specification Document: Reference to the specification of the extension.
- Notes: [optional]
The Expert(s) MAY define additional fields to be collected in the registry. Each extension identifier added to this registry MUST be unique amongst the set of registered extension identifiers.

Registrations MUST reference a freely available specification, e.g., as described in [RFC2026] Section 7.

Note that WebAuthn extensions can be registered by third parties, if the Expert(s) determine that an unregistered extension is widely deployed and not likely to be registered in a timely manner.

Decisions (or lack thereof) made by the Designated Expert can be first appealed to Application Area Directors (contactable using app-ads@tools.ietf.org email address or directly by looking up their email addresses on http://www.iesg.org/ website) and, if the appellant is not satisfied with the response, to the full IESG (using the iesg@iesg.org mailing list).

4. IANA Considerations

4.1. WebAuthn Attestation Statement Format Identifier and Extension Identifiers Registries

This specification establishes two registries:

- the "WebAuthn Attestation Statement Format Identifier" registry; see Section 2.
- the "WebAuthn Extension Identifier" registry; see Section 3.

For both registries, the Expert(s) and IANA will interact as outlined below:

IANA will direct any incoming requests regarding the registry to the processes established by the Expert(s); typically, this will mean referring them to the registry HTML page.

The Expert(s) will provide registry data to IANA in an agreed form (e.g., a specific XML format). IANA will publish:

- The raw registry data
- The registry data, transformed into HTML
- The registry data in any alternative formats provided by the Expert(s)

Each published document will be at a URL agreed to by IANA and the Expert(s) and IANA will set HTTP response headers on them as (reasonably) requested by the Expert(s).
Additionally, the HTML generated by IANA will:

- Take directions from the Expert(s) as to the content of the HTML page’s introductory text and markup.
- Include a stable HTML fragment identifier for each registered attestation statement format or extension identifier.

All registry data documents MUST include Simplified BSD License text as described in Section 4.e of the Trust Legal Provisions (<http://trustee.ietf.org/license-info>).

5. Security Considerations

See [WebAuthn] for relevant security considerations.

6. Acknowledgements

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7. Document History

[[ to be removed by the RFC Editor before publication as an RFC ]]

-01

- Refresh now that the WebAuthn Committee Recommendation (CR) draft is pending.

-00

- Initial version.

8. Normative References


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