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Registries for Credential Exchange  
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## Abstract

This specification defines IANA registries for Fido Alliance Credential Exchange Format (CXF) credential types and extension identifiers.

## About This Document

This note is to be removed before publishing as an RFC.

The latest revision of this draft can be found at <https://Credential-Provider-SIG.github.io/Credential-Exchange-IANA/draft-hinton-credential-exchange.html>. Status information for this document may be found at <https://datatracker.ietf.org/doc/draft-hinton-credential-exchange/>.

Source for this draft and an issue tracker can be found at <https://github.com/Credential-Provider-SIG/Credential-Exchange-IANA>.

## Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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## 1. Introduction

The FIDO Alliance <sup>賽 互</sup> credential exchange specifications define a standard format for transferring all types of credentials in a credential manager including passwords, passkeys and more in a manner that is secure by default.

This specification establishes IANA registries for the Credential Exchange Format [CredentialExchangeFormat] credential types and extension identifiers. The initial values for these registries are in the IANA Considerations section of the [CredentialExchangeFormat] specification.

### 1.1. Requirements Notation and Conventions

The key words "**MUST**", "**MUST NOT**", "**REQUIRED**", "**SHALL**", "**SHALL NOT**", "**SHOULD**", "**SHOULD NOT**", "**RECOMMENDED**", "**NOT RECOMMENDED**", "**MAY**", and "**OPTIONAL**" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

## 2. IANA Considerations

This specification establishes two registries:

- \* The "Credential Exchange Credential Type Identifiers" registry (see Section 2.1)
- \* The "Credential Exchange Extension Identifiers" registry (see Section 2.2)

Any additional processes established by the expert(s) after the publication of this document will be recorded on the registry web page at the discretion of the expert(s).

### 2.1. Credential Exchange Format Credential Type Identifier Registry

Credential Exchange Format credential type identifiers are JSON compatible strings defined in "Credential Types Registry" (<https://fidoalliance.org/specs/cx/cxf-v1.0-ps-20250814.html#sctn-iana-credential-types-registry>). Credential type identifiers **MUST** be unique across all registered credential type identifiers.

#### 2.1.1. Registering Credential Type Identifiers

Credential Exchange Format credential type identifiers are registered using the Specification Required policy (see Section 4.6 of [RFC8126]).

The "Credential Exchange Format Credential Type Identifiers" registry is located at <https://www.iana.org/assignments/credential-exchange> (<https://www.iana.org/assignments/credential-exchange>).

Registration requests consist of at least the following information:

Credential type identifier:

An identifier meeting the requirements given in Section 2.1.

Description:

A short description of the credential type.

Requires an additional payload:

A "Y" or "N" value indicating whether the credential type requires an additional payload outside of the Credential Exchange Format JSON document.

Specification Document(s):

Reference to the document or documents that specify the credential type.

Registrations MUST reference a freely available, stable specification, e.g., as described in Section 4.6 of [RFC8126]. This specification MUST include security and privacy considerations relevant to the credential type.

#### 2.1.2. Registration Request Processing

As noted in Section 2.1.1, Credential Exchange Format credential type identifiers are registered using the Specification Required policy.

#### 2.1.3. Initial Values in the Credential Type Identifiers Registry

The values listed in the "Credential Types Registry" (<https://fidoalliance.org/specs/cx/cxf-v1.0-rd-20250313.html#sctn-iana-credential-types-registry>) section of the [CredentialExchangeFormat] specification will be used to populate the initial values in the registry. The Change Controller entry for each of those registrations is:

Change Controller:

Fido Alliance Technical Working Group (todo: email)

#### 2.2. Credential Exchange Extension Identifiers Registry

Credential Exchange Format extension identifiers are JSON compatible strings defined in "Extension Registry" (<https://fidoalliance.org/specs/cx/cxf-v1.0-ps-20250814.html#sctn-iana-extension-registry>). Extension identifiers *MUST* be unique across all registered extension identifiers.

##### 2.2.1. Registering Extension Identifiers

Credential Exchange Format extension identifiers are registered using the Specification Required policy (see Section 4.6 of [RFC8126]).

The "Credential Exchange Format Extension Identifiers" registry is located at <https://www.iana.org/assignments/credential-exchange> (<https://www.iana.org/assignments/credential-exchange>).

Registration requests consist of at least the following information:

Extension name identifier:

An identifier meeting the requirements given in Section 2.1.

Description:

A short description of the credential type.

Requires an additional payload:

A "Y" or "N" value indicating whether the credential type requires an additional payload outside of the Credential Exchange Format JSON document.

Specification Document(s):

Reference to the document or documents that specify the credential type.

Registrations MUST reference a freely available, stable specification, e.g., as described in Section 4.6 of [RFC8126]. This specification MUST include security and privacy considerations relevant to the extension.

#### 2.2.2. Registration Request Processing

As noted in Section 2.2.1, Credential Exchange Format extension identifiers are registered using the Specification Required policy.

#### 2.2.3. Initial Values in the Credential Exchange Extension Identifiers Registry

The values listed in the "Extension Registry" (<https://fidoalliance.org/specs/cx/cxf-v1.0-rd-20250313.html#sectn-iana-extension-registry>) section of the [CredentialExchangeFormat] specification will be used to populate the initial values in the registry. The Change Controller entry for each of those registrations is:

Change Controller:

Fido Alliance Technical Working Group (todo: email)

### 3. Security Considerations

See [CredentialExchangeFormat] for relevant security considerations.

### 4. Normative References

`[CredentialExchangeFormat]`

Fido Alliance, "Credential Exchange Format", 14 August 2025, <<https://fidoalliance.org/specs/cx/cxf-v1.0-ps-20250814.html>>.

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

[RFC8126] Cotton, M., Leiba, B., and T. Narten, "Guidelines for Writing an IANA Considerations Section in RFCs", BCP 26, RFC 8126, DOI 10.17487/RFC8126, June 2017, <<https://www.rfc-editor.org/rfc/rfc8126>>.

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

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