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Standard**

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**Information technology — OpenID
connect — OpenID connect RP-
initiated logout 1.0**

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This document was prepared by the OpenID Foundation (OIDF) (as OpenID Connect RP-Initiated Logout 1.0) and drafted in accordance with its editorial rules. It was adopted, under the JTC 1 PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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Abstract

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OpenID Connect 1.0 is a simple identity layer on top of the OAuth 2.0 protocol. It enables Clients to verify the identity of the End-User based on the authentication performed by an Authorization Server, as well as to obtain basic profile information about the End-User in an interoperable and REST-like manner.

This specification defines a mechanism for a Relying Party to request that an OpenID Provider log out the End-User.

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Information technology — OpenID Connect — OpenID Connect RP-Initiated Logout 1.0

1. Introduction

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OpenID Connect 1.0 is a simple identity layer on top of the OAuth 2.0 [\[RFC6749\]](#) protocol. It enables Clients to verify the identity of the End-User based on the authentication performed by an Authorization Server, as well as to obtain basic profile information about the End-User in an interoperable and REST-like manner.

This specification complements the [OpenID Connect Core 1.0](#) [OpenID.Core] specification by enabling the Relying Party to request that an End-User be logged out by the OpenID Provider.

This specification can be used separately from or in combination with [OpenID Connect Session Management 1.0](#) [OpenID.Session], [OpenID Connect Front-Channel Logout 1.0](#) [OpenID.FrontChannel], and/or [OpenID Connect Back-Channel Logout 1.0](#) [OpenID.BackChannel].

1.1. Requirements Notation and Conventions

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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 [RFC 2119](#) [RFC2119].

In the .txt version of this document, values are quoted to indicate that they are to be taken literally. When using these values in protocol messages, the quotes MUST NOT be used as part of the value. In the HTML version of this document, values to be taken literally are indicated by the use of `this fixed-width font`.

1.2. Terminology

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This specification uses the terms "Authorization Endpoint", "Authorization Server", "Client", and "Client Identifier" defined by [OAuth 2.0](#) [RFC6749], the term "User Agent" defined by [RFC 7230](#) [RFC7230], and the terms defined by [OpenID Connect Core 1.0](#) [OpenID.Core].

IMPORTANT NOTE TO READERS: The terminology definitions in this section are a normative portion of this specification, imposing requirements upon implementations. All the capitalized words in the text of this specification, such as "Relying Party", reference these defined terms. Whenever the reader encounters them, their definitions found in this section must be followed.

This specification also defines the following term:

Logout Endpoint

The endpoint at the OpenID Provider that is the target of RP-Initiated Logout requests.

2. RP-Initiated Logout

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An RP requests that the OP log out the End-User by redirecting the End-User's User Agent to the OP's Logout Endpoint. This URL is normally obtained via the `end_session_endpoint` element of the OP's Discovery response or may be learned via other mechanisms.

This specification defines the following parameters that are used in the logout request at the Logout Endpoint:

id_token_hint

RECOMMENDED. ID Token previously issued by the OP to the RP passed to the Logout Endpoint as a hint about the End-User's current authenticated session with the Client. This is used as an indication of the identity of the End-User that the RP is requesting be logged out by the OP.

logout_hint

OPTIONAL. Hint to the Authorization Server about the End-User that is logging out. The value and meaning of this parameter is left up to the OP's discretion. For instance, the

value might contain an email address, phone number, username, or session identifier pertaining to the RP's session with the OP for the End-User. (This parameter is intended to be analogous to the `login_hint` parameter defined in Section 3.1.2.1 of [OpenID Connect Core 1.0](#) [OpenID.Core] that is used in Authentication Requests; whereas, `logout_hint` is used in RP-Initiated Logout Requests.)

`client_id`

OPTIONAL. OAuth 2.0 Client Identifier valid at the Authorization Server. When both `client_id` and `id_token_hint` are present, the OP MUST verify that the Client Identifier matches the one used when issuing the ID Token. The most common use case for this parameter is to specify the Client Identifier when `post_logout_redirect_uri` is used but `id_token_hint` is not. Another use is for symmetrically encrypted ID Tokens used as `id_token_hint` values that require the Client Identifier to be specified by other means, so that the ID Tokens can be decrypted by the OP.

`post_logout_redirect_uri`

OPTIONAL. URI to which the RP is requesting that the End-User's User Agent be redirected after a logout has been performed. This URI SHOULD use the `https` scheme and MAY contain port, path, and query parameter components; however, it MAY use the `http` scheme, provided that the Client Type is `confidential`, as defined in Section 2.1 of [OAuth 2.0](#) [RFC6749], and provided the OP allows the use of `http` RP URIs. The URI MAY use an alternate scheme, such as one that is intended to identify a callback into a native application. The value MUST have been previously registered with the OP, either using the `post_logout_redirect_uris` Registration parameter or via another mechanism. An `id_token_hint` is also RECOMMENDED when this parameter is included.

`state`

OPTIONAL. Opaque value used by the RP to maintain state between the logout request and the callback to the endpoint specified by the `post_logout_redirect_uri` parameter. If included in the logout request, the OP passes this value back to the RP using the `state` parameter when redirecting the User Agent back to the RP.

ui_locales

OPTIONAL. End-User's preferred languages and scripts for the user interface, represented as a space-separated list of [BCP47](#) [RFC5646] language tag values, ordered by preference. For instance, the value "fr-CA fr en" represents a preference for French as spoken in Canada, then French (without a region designation), followed by English (without a region designation). An error SHOULD NOT result if some or all of the requested locales are not supported by the OpenID Provider.

OpenID Providers MUST support the use of the HTTP `GET` and `POST` methods defined in [RFC 7231](#) [RFC7231] at the Logout Endpoint. RPs MAY use the HTTP `GET` or `POST` methods to send the logout request to the OP. If using the HTTP `GET` method, the request parameters are serialized using URI Query String Serialization. If using the HTTP `POST` method, the request parameters are serialized using Form Serialization.

When an `id_token_hint` parameter is present, the OP MUST validate that it was the issuer of the ID Token. The OP SHOULD accept ID Tokens when the RP identified by the ID Token's `aud` claim and/or `sid` claim has a current session or had a recent session at the OP, even when the `exp` time has passed. If the ID Token's `sid` claim does not correspond to the RP's current session or a recent session at the OP, the OP SHOULD treat the logout request as suspect, and MAY decline to act upon it.

At the Logout Endpoint, the OP SHOULD ask the End-User whether to log out of the OP as well. Furthermore, the OP MUST ask the End-User this question if an `id_token_hint` was not provided or if the supplied ID Token does not belong to the current OP session with the RP and/or currently logged in End-User. If the End-User says "yes", then the OP MUST log out the End-User.

As part of the OP logging out the End-User, the OP uses the logout mechanism(s) registered by the RPs to notify any RPs logged in as that End-User that they are to likewise log out the End-User. RPs can use any of [OpenID Connect Session Management 1.0](#) [OpenID.Session], [OpenID Connect Front-Channel Logout 1.0](#) [OpenID.FrontChannel], and/or [OpenID Connect Back-Channel Logout 1.0](#) [OpenID.BackChannel] to receive logout notifications from the OP, depending upon which of these mechanisms the OP and RPs mutually support. The RP initiating the logout is to be included in these notifications before the post-logout redirection defined in [Section 3](#) is performed.

It is up to the RP whether to locally log out the End-User before redirecting the User Agent to the OP's Logout Endpoint. On one hand, if the End-User approves the logout at the OP, the RP initiating the logout should receive a logout message from the OP and can perform a local logout at that time. On the other hand, some logout notification methods from the OP to the RP are unreliable and therefore the notification might not be received. Also, the End-User might not approve the OP logging out, in which case the RP would not receive a logout notification.

2.1. OpenID Provider Discovery Metadata

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To support OpenID Connect RP-Initiated Logout, the RP needs to obtain the RP-Initiated Logout related OP metadata. This OP metadata is normally obtained via the OP's Discovery response, as described in [OpenID Connect Discovery 1.0](#) [OpenID.Discovery], or MAY be learned via other mechanisms.

This OpenID Provider Metadata parameter MUST be included in the Server's discovery responses when RP-Initiated Logout and Discovery are supported:

`end_session_endpoint`

REQUIRED. URL at the OP to which an RP can perform a redirect to request that the End-User be logged out at the OP. This URL MUST use the `https` scheme and MAY contain port, path, and query parameter components.

3. Redirection to RP After Logout

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In some cases, the RP will request that the End-User's User Agent to be redirected back to the RP after a logout has been performed. Post-logout redirection is only done when the logout is RP-initiated, in which case the redirection target is the `post_logout_redirect_uri` parameter value sent by the initiating RP. An `id_token_hint` carrying an ID Token for the RP is also RECOMMENDED when requesting post-logout redirection; if it is not supplied with `post_logout_redirect_uri`, the OP MUST NOT perform post-logout redirection unless the OP has other means of confirming the legitimacy of the post-logout redirection

target. The OP also MUST NOT perform post-logout redirection if the `post_logout_redirect_uri` value supplied does not exactly match one of the previously registered `post_logout_redirect_uris` values. The post-logout redirection is performed after the OP has finished notifying the RPs that logged in with the OP for that End-User that they are to log out the End-User.

This specification defines this Dynamic Registration parameter for this purpose, per Section 2.1 of [OpenID Connect Dynamic Client Registration 1.0](#) [OpenID.Registration].

3.1. Client Registration Metadata

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This Client Metadata parameter MAY be included in the Client's Registration information when RP-Initiated Logout and Dynamic Registration are supported:

`post_logout_redirect_uris`

OPTIONAL. Array of URLs supplied by the RP to which it MAY request that the End-User's User Agent be redirected using the `post_logout_redirect_uri` parameter after a logout has been performed. These URLs SHOULD use the `https` scheme and MAY contain port, path, and query parameter components; however, they MAY use the `http` scheme, provided that the Client Type is `confidential`, as defined in Section 2.1 of [OAuth 2.0](#) [RFC6749], and provided the OP allows the use of `http` RP URIs.

4. Validation and Error Handling

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If any of the validation procedures defined in this specification fail, any operations requiring the information that failed to correctly validate MUST be aborted and the information that failed to validate MUST NOT be used. Note that because RP-Initiated Logout Requests are intended to be idempotent, it is explicitly not an error for an RP to request that a logout be performed when the OP does not consider that the End-User is logged in with the OP at the requesting RP.

As described in [Section 3](#), when the OP detects errors in the RP-Initiated Logout request, the OP MUST not perform post-logout redirection to an RP. Beyond that, the OP has discretion on what information to display to the End-User in the resulting page at the OP and what actions to enable the End-User to perform next. It MAY display an error message. It MAY ask the End-User whether to log out of the OP.

Note that giving the End-User the opportunity to log out may have security benefits, especially in kiosk scenarios. The End-User initiating a logout action at the RP may expect to be completely logged out, including from the OP. Not giving the End-User the opportunity to log out at the OP and leaving the End-User logged in would likely violate the End-User's security expectations about being completely logged out.

5. Implementation Considerations

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This specification defines features used by both Relying Parties and OpenID Providers that choose to implement RP-Initiated Logout. All of these Relying Parties and OpenID Providers MUST implement the features that are listed in this specification as being "REQUIRED" or are described with a "MUST". No other implementation considerations for implementations of RP-Initiated Logout are defined by this specification.

6. Security Considerations

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Logout requests without a valid `id_token_hint` value are a potential means of denial of service; therefore, OPs should obtain explicit confirmation from the End-User before acting upon them.

7. IANA Considerations

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7.1. OAuth Authorization Server Metadata Registry

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This specification registers the following metadata name in the IANA "OAuth Authorization Server Metadata" registry [\[IANA.OAuth.Parameters\]](#) established by [\[RFC8414\]](#).

7.1.1. Registry Contents

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- Metadata Name: `end_session_endpoint`
 - Metadata Description: URL at the OP to which an RP can perform a redirect to request that the End-User be logged out at the OP
 - Change Controller: OpenID Foundation Artifact Binding Working Group - openid-specs-ab@lists.openid.net
 - Specification Document(s): [Section 2.1](#) of this document
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7.2. OAuth Dynamic Client Registration Metadata Registration

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This specification registers the following client metadata definition in the IANA "OAuth Dynamic Client Registration Metadata" registry [\[IANA.OAuth.Parameters\]](#) established by [\[RFC7591\]](#):

7.2.1. Registry Contents

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- Client Metadata Name: `post_logout_redirect_uris`