



TELESPAZIO

a LEONARDO and THALES company

Login Service Interface Control
Document
EOEPCA.ICD.xxx

TVUK System Team

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Login Service Interface Control Document

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AMENDMENT HISTORY

This document shall be amended by releasing a new edition of the document in its entirety. The Amendment Record Sheet below records the history and issue status of this document.

Table 1. Amendment Record Sheet

| ISSUE | DATE | REASON |
|------------|------------|---------------------------|
| 0.1 | dd/mm/yyyy | Initial in-progress draft |

Chapter 1. Introduction

1.1. Purpose and Scope

This document presents the Login Service Interfaces for the Common Architecture. It servers as a complementary document to its corresponding Software Design Document.

Chapter 2. Overview

This Interface Control Document (ICD) is a companion to the System Design Document for the Login Service [\[UM-LOGIN-SERVICE-SDD\]](#). The ICD provides a Building Block level specification of the interfaces exposed by the Login Service to the rest of EOEPKA components.

Section [Login Service Interfaces](#)

Provides the interface specification of the Building Block.

Chapter 3. Login Service Interfaces

Abstract

OpenID Connect Provider (OP) & UMA Authorization Server (AS)

3.1. Endpoints

3.1.1. OIDC - Authentication

3.1.1.1. endSession

GET /end_session

End current session.

3.1.1.1.1. Description

End current session.

3.1.1.1.2. Parameters

Query Parametersa

| Name | Description | Required |
|--------------------------|--|----------|
| id_token_hint | Previously issued ID Token (id_token) 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. The OP need not be listed as an audience of the ID Token when it is used as an id_token_hint value. | - |
| post_logout_redirect_uri | URL to which the RP is requesting that the End-User's User Agent be redirected after a logout has been performed. The value MUST have been previously registered with the OP, either using the post_logout_redirect_uris Registration parameter or via another mechanism. If supplied, the OP SHOULD honor this request following the logout. | - |

| Name | Description | Required |
|------------|---|----------|
| state | 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 query parameter when redirecting the User Agent back to the RP. | - |
| session_id | Session Id | - |

3.1.1.1.3. Return Type

-

3.1.1.1.4. Content Type

- application/json

3.1.1.1.5. Responses

Table 2. http response codes

| Code | Message | Datatype |
|------|---|---------------------------------|
| 200 | OK - User redirected to logout page | <<>> |
| 302 | Resource Found. | <<>> |
| 400 | Error codes for end session endpoint. | EndSessionError |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.1.1.6. Samples

3.1.1.2. GET Authorize

GET /authorize

The Authorization Endpoint performs Authentication of the End-User.

3.1.1.2.1. Description

End-User Authentication and Authorization done by sending the User Agent to the Authorization Endpoint using request parameters defined by OAuth 2.0 and OpenID Connect.

3.1.1.2.2. Parameters

Query Parameters

| Name | Description | Required |
|---------------|---|----------|
| scope | OpenID Connect requests MUST contain the openid scope value. If the openid scope value is not present, the behavior is entirely unspecified. Other scope values MAY be present. | X |
| response_type | OAuth 2.0 Response Type value that determines the authorization processing flow to be used, including what parameters are returned from the endpoints used. | X |
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. | X |
| redirect_uri | Redirection URI to which the response will be sent. This URI MUST exactly match one of the Redirection URI values for the Client pre-registered at the OpenID Provider. | X |
| state | Opaque value used to maintain state between the request and the callback. | - |
| response_mode | Informs the Authorization Server of the mechanism to be used for returning parameters from the Authorization Endpoint. | - |
| nonce | String value used to associate a Client session with an ID Token, and to mitigate replay attacks. | - |
| display | ASCII string value that specifies how the Authorization Server displays the authentication and consent user interface pages to the End-User. | - |
| prompt | Space delimited, case sensitive list of ASCII string values that specifies whether the Authorization Server prompts the End-User for reauthentication and consent. The defined values are - none, login, consent, select_account. | - |
| max_age | Maximum Authentication Age. Specifies the allowable elapsed time in seconds since the last time the End-User was actively authenticated by the OP. | - |
| ui_locales | 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. | - |

| Name | Description | Required |
|-------------------------|--|----------|
| id_token_hint | ID Token previously issued by the Authorization Server being passed as a hint about the End-User's current or past authenticated session with the Client. If the End-User identified by the ID Token is logged in or is logged in by the request, then the Authorization Server returns a positive response. | - |
| login_hint | Hint to the Authorization Server about the login identifier the End-User might use to log in (if necessary). | - |
| acr_values | Requested Authentication Context Class Reference values. Space-separated string that specifies the acr values that the Authorization Server is being requested to use for processing this Authentication Request, with the values appearing in order of preference. | - |
| amr_values | AMR Values. | - |
| request | This parameter enables OpenID Connect requests to be passed in a single, self-contained parameter and to be optionally signed and/or encrypted. The parameter value is a Request Object value. It represents the request as a JWT whose Claims are the request parameters. | - |
| request_uri | This parameter enables OpenID Connect requests to be passed by reference, rather than by value. The request_uri value is a URL using the https scheme referencing a resource containing a Request Object value, which is a JWT containing the request parameters. | - |
| request_session_id | Request session id. | - |
| session_id | Session id of this call. | - |
| origin_headers | Origin headers. Used in custom workflows. | - |
| code_challenge | PKCE code challenge. | - |
| code_challenge_method | PKCE code challenge method. | - |
| custom_response_headers | Custom Response Headers. | - |
| claims | Requested Claims. | - |
| auth_req_id | CIBA authentication request Id. | - |

3.1.1.2.3. Return Type

-

3.1.1.2.4. Content Type

- application/json

3.1.1.2.5. Responses

Table 3. http response codes

| Code | Message | Datatype |
|------|---|-----------------------|
| 200 | OK | <<>> |
| 302 | Error codes for authorization endpoint. | <i>AuthorizeError</i> |
| 400 | Invalid parameters are provided to endpoint. | <i>ErrorResponse</i> |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.2.6. Samples

3.1.1.3. GET Clientinfo

GET /clientinfo

To get Claims details about the registered client.

3.1.1.3.1. Description

The ClientInfo Endpoint is an OAuth 2.0 Protected Resource that returns Claims about the registered client.

3.1.1.3.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | - |

Query Parameters

| Name | Description | Required |
|--------------|-------------|----------|
| access_token | | - |

3.1.1.3.3. Return Type

ClientInfoResponse

3.1.1.3.4. Content Type

- application/json

3.1.1.3.5. Responses

Table 4. http response codes

| Code | Message | Datatype |
|------|---|---------------------------------------|
| 200 | OK | ClientInfoResponse |
| 400 | Invalid Request are provided to endpoint. | [inline_response_400] |

3.1.1.3.6. Samples

3.1.1.4. GET Introspection

GET /introspection

The Introspection OAuth 2 Endpoint.

3.1.1.4.1. Description

The Introspection OAuth 2 Endpoint.

3.1.1.4.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

Query Parameters

| Name | Description | Required |
|-----------------|--|----------|
| token | | X |
| token_type_hint | ID Token previously issued by the Authorization Server being passed as a hint about the End-User. | - |
| response_as_jwt | OPTIONAL. Boolean value with default value false. If true, returns introspection response as JWT (signed based on client configuration used for authentication to Introspection Endpoint). | - |

3.1.1.4.3. Return Type

[IntrospectionResponse](#)

3.1.1.4.4. Content Type

- application/json

3.1.1.4.5. Responses

Table 5. http response codes

| Code | Message | Datatype |
|------|---|---------------------------------------|
| 200 | OK | IntrospectionResponse |
| 400 | Error codes for introspection endpoint. | AuthorizeError |
| 401 | Unauthorized access request. | ErrorResponse |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.1.4.6. Samples

3.1.1.5. GET Userinfo

GET /userinfo

Returns Claims about the authenticated End-User.

3.1.1.5.1. Description

Returns Claims about the authenticated End-User.

3.1.1.5.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | - |

Query Parameters

| Name | Description | Required |
|--------------|-------------------------|----------|
| access_token | OAuth 2.0 Access Token. | X |

3.1.1.5.3. Return Type

[\[Object\]](#)

3.1.1.5.4. Content Type

- application/jwt
- application/json

3.1.1.5.5. Responses

Table 6. http response codes

| Code | Message | Datatype |
|------|---|-------------------------|
| 200 | OK | [Object] |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_6] |
| 401 | Invalid parameters provided to endpoint. | [inline_response_401] |
| 403 | Invalid parameters provided to endpoint. | [inline_response_403] |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.5.6. Samples

3.1.1.6. jwks

GET /jwks

A JSON Web Key (JWK) used by server. JWK is a JSON data structure that represents a set of public keys as a JSON object [RFC4627].

3.1.1.6.1. Description

Provides list of JWK used by server.

3.1.1.6.2. Parameters

3.1.1.6.3. Return Type

WebKeysConfiguration

3.1.1.6.4. Content Type

- application/json

3.1.1.6.5. Responses

Table 7. http response codes

| Code | Message | Datatype |
|------|---|-----------------------------|
| 200 | OK | <i>WebKeysConfiguration</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.6.6. Samples

3.1.1.7. POST Authorize

POST /authorize

The Authorization Endpoint performs Authentication of the End-User.

3.1.1.7.1. Description

End-User Authentication and Authorization done by sending the User Agent to the Authorization Endpoint using request parameters defined by OAuth 2.0 and OpenID Connect.

3.1.1.7.2. Parameters

3.1.1.7.3. Form Parameter

| Name | Description | Required |
|---------------|--|----------|
| scope | OpenID Connect requests MUST contain the openid scope value. If the openid scope value is not present, the behavior is entirely unspecified. Other scope values MAY be present. [string] | X |
| response_type | OAuth 2.0 Response Type value that determines the authorization processing flow to be used, including what parameters are returned from the endpoints used. [string] | X |
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. [string] | X |
| redirect_uri | Redirection URI to which the response will be sent. This URI MUST exactly match one of the Redirection URI values for the Client pre-registered at the OpenID Provider. [string] | X |
| state | Opaque value used to maintain state between the request and the callback. [string] | - |
| response_mode | Informs the Authorization Server of the mechanism to be used for returning parameters from the Authorization Endpoint. [string] | - |
| nonce | String value used to associate a Client session with an ID Token, and to mitigate replay attacks. [string] | - |
| display | ASCII string value that specifies how the Authorization Server displays the authentication and consent user interface pages to the End-User. [string] | - |
| prompt | Space delimited, case sensitive list of ASCII string values that specifies whether the Authorization Server prompts the End-User for reauthentication and consent. [string] | - |

| Name | Description | Required |
|--------------------|---|----------|
| max_age | Maximum Authentication Age. Specifies the allowable elapsed time in seconds since the last time the End-User was actively authenticated by the OP. [integer] | - |
| ui_locales | 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. [string] | - |
| id_token_hint | ID Token previously issued by the Authorization Server being passed as a hint about the End-User's current or past authenticated session with the Client. If the End-User identified by the ID Token is logged in or is logged in by the request, then the Authorization Server returns a positive response. [string] | - |
| login_hint | Hint to the Authorization Server about the login identifier the End-User might use to log in (if necessary). [string] | - |
| acr_values | Requested Authentication Context Class Reference values. Space-separated string that specifies the acr values that the Authorization Server is being requested to use for processing this Authentication Request, with the values appearing in order of preference. [string] | - |
| amr_values | AMR Values. [string] | - |
| request | This parameter enables OpenID Connect requests to be passed in a single, self-contained parameter and to be optionally signed and/or encrypted. The parameter value is a Request Object value. It represents the request as a JWT whose Claims are the request parameters. [string] | - |
| request_uri | This parameter enables OpenID Connect requests to be passed by reference, rather than by value. The request_uri value is a URL using the https scheme referencing a resource containing a Request Object value, which is a JWT containing the request parameters. [string] | - |
| request_session_id | Request session id. [string] | - |
| session_id | Session id of this call. [string] | - |
| origin_headers | Origin headers. Used in custom workflows. [string] | - |

| Name | Description | Required |
|-------------------------|--|----------|
| code_challenge | PKCE code challenge. [string] | - |
| code_challenge_method | PKCE code challenge method. [string] | - |
| custom_response_headers | Custom Response Headers. [string] | - |
| claims | Requested Claims. [string] | - |

3.1.1.7.4. Return Type

-

3.1.1.7.5. Content Type

- application/json

3.1.1.7.6. Responses

Table 8. http response codes

| Code | Message | Datatype |
|------|---|--------------------------------|
| 200 | OK | <<>> |
| 302 | Error codes for authorization endpoint. | AuthorizeError |
| 400 | Invalid parameters are provided to endpoint. | ErrorResponse |
| 401 | Unauthorized access request. | ErrorResponse |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.1.7.7. Samples

3.1.1.8. POST Clientinfo

POST /clientinfo

To get Claims details about the registered client.

3.1.1.8.1. Description

The ClientInfo Endpoint is an OAuth 2.0 Protected Resource that returns Claims about the registered client.

3.1.1.8.2. Parameters

3.1.1.8.3. Form Parameter

| Name | Description | Required |
|--------------|--|----------|
| access_token | Client-specific access token. [string] | X |

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | - |

3.1.1.8.4. Return Type

ClientInfoResponse

3.1.1.8.5. Content Type

- application/json

3.1.1.8.6. Responses

Table 9. http response codes

| Code | Message | Datatype |
|------|---|---------------------------|
| 200 | OK | <i>ClientInfoResponse</i> |
| 400 | Invalid Request are provided to endpoint. | [inline_response_400] |

3.1.1.8.7. Samples

3.1.1.9. POST Introspection

POST /introspection

The Introspection OAuth 2 Endpoint.

3.1.1.9.1. Description

The Introspection OAuth 2 Endpoint.

3.1.1.9.2. Parameters

3.1.1.9.3. Form Parameter

| Name | Description | Required |
|-------|-------------------------------|----------|
| token | Client access token. [string] | X |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.1.9.4. Return Type

IntrospectionResponse

3.1.1.9.5. Content Type

- application/json

3.1.1.9.6. Responses

Table 10. http response codes

| Code | Message | Datatype |
|------|---|------------------------------|
| 200 | OK | <i>IntrospectionResponse</i> |
| 400 | Error codes for introspection endpoint. | <i>AuthorizeError</i> |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.9.7. Samples

3.1.1.10. POST Token

POST /token

To obtain an Access Token, an ID Token, and optionally a Refresh Token, the RP (Client).

3.1.1.10.1. Description

To obtain an Access Token, an ID Token, and optionally a Refresh Token, the RP (Client).

3.1.1.10.2. Parameters

3.1.1.10.3. Form Parameter

| Name | Description | Required |
|--------------|--|----------|
| grant_type | Provide a list of the OAuth 2.0 grant types that the Client is declaring that it will restrict itself to using. [String] | X |
| code | Code which is returned by authorization endpoint. (For grant_type=authorization_code) [string] | - |
| redirect_uri | Redirection URI to which the response will be sent. This URI MUST exactly match one of the Redirection URI values for the Client pre-registered at the OpenID Provider. [string] | - |
| username | End-User username. [string] | - |

| Name | Description | Required |
|--------------------|--|----------|
| password | End-User password. [string] | - |
| scope | OpenID Connect requests MUST contain the openid scope value. If the openid scope value is not present, the behavior is entirely unspecified. Other scope values MAY be present. Scope values used that are not understood by an implementation SHOULD be ignored. [String] | - |
| assertion | Assertion. [string] | - |
| refresh_token | Refresh token. [string] | - |
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. [string] | - |
| client_secret | The client secret. The client MAY omit the parameter if the client secret is an empty string. [string] | - |
| code_verifier | The client's PKCE code verifier. [string] | - |
| ticket | [string] | - |
| claim_token | [string] | - |
| claim_token_format | [string] | - |
| pct | [string] | - |
| rpt | [string] | - |

3.1.1.10.4. Return Type

[\[inline_response_200\]](#)

3.1.1.10.5. Content Type

- application/json

3.1.1.10.6. Responses

Table 11. http response codes

| Code | Message | Datatype |
|------|---|---|
| 200 | OK | [inline_response_200] |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_2] |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 403 | Invalid details provided hence access denied. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.10.7. Samples

3.1.1.11. POST Userinfo

POST /userinfo

Returns Claims about the authenticated End-User.

3.1.1.11.1. Description

Returns Claims about the authenticated End-User.

3.1.1.11.2. Parameters

3.1.1.11.3. Form Parameter

| Name | Description | Required |
|--------------|--|----------|
| access_token | OAuth 2.0 Access Token. [string] | X |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | - |

3.1.1.11.4. Return Type

[\[Object\]](#)

3.1.1.11.5. Content Type

- application/jwt
- application/json

3.1.1.11.6. Responses

Table 12. http response codes

| Code | Message | Datatype |
|------|---|---|
| 200 | OK | [Object] |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_6] |
| 401 | Invalid parameters provided to endpoint. | [inline_response_401] |
| 403 | Invalid parameters provided to endpoint. | [inline_response_403] |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.1.11.7. Samples

3.1.1.12. revoke

POST /revoke

Revoke an Access Token or a Refresh Token, the RP (Client).

3.1.1.12.1. Description

Revoke an Access Token or a Refresh Token, the RP (Client).

3.1.1.12.2. Parameters

3.1.1.12.3. Form Parameter

| Name | Description | Required |
|-----------------|---|----------|
| token | The token that the client wants to get revoked. [string] | X |
| token_type_hint | A hint about the type of the token submitted for revocation. [string] | - |

3.1.1.12.4. Return Type

-

3.1.1.12.5. Content Type

- content
- application/json

3.1.1.12.6. Responses

Table 13. http response codes

| Code | Message | Datatype |
|------|--|---|
| 200 | OK | <<>> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_4] |

3.1.1.12.7. Samples

3.1.1.13. revokeSession

POST /revoke_session

Revoke all sessions for user.

3.1.1.13.1. Description

Revoke all sessions for user (requires revoke_session scope).

3.1.1.13.2. Parameters

3.1.1.13.3. Form Parameter

| Name | Description | Required |
|----------------------|--|----------|
| user_criterion_key | user criterion key (e.g. uid) [string] | X |
| user_criterion_value | user criterion value (e.g. chris) [string] | X |

3.1.1.13.4. Return Type

-

3.1.1.13.5. Content Type

- application/json

3.1.1.13.6. Responses

Table 14. http response codes

| Code | Message | Datatype |
|------|--|----------------------|
| 200 | OK - Returned if request was processed successfully. Means it will return in case sessions are found as well as in case sessions are not found (error is not returned to not disclose internal information). | <<>> |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.1.13.7. Samples

3.1.1.14. sessionStatus

GET /session_status

Determine current session status.

3.1.1.14.1. Description

Determine current session status.

3.1.1.14.2. Parameters

3.1.1.14.3. Return Type

SessionStateObject

3.1.1.14.4. Content Type

- application/json

3.1.1.14.5. Responses

Table 15. http response codes

| Code | Message | Datatype |
|------|---------|------------------------------------|
| 200 | OK | SessionStateObject |

3.1.1.14.6. Samples

3.1.2. UMA - Authorization

3.1.2.1. DELETE HostRsrcResourceSet

DELETE /host/rsrc/resource_set/{rsid}

Deletes a previously registered resource.

3.1.2.1.1. Description

Deletes a previously registered resource.

3.1.2.1.2. Parameters

Path Parameters

| Name | Description | Required |
|------|-------------|----------|
| rsid | Resource ID | X |

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | X |

3.1.2.1.3. Return Type

-

3.1.2.1.4. Content Type

- application/json

3.1.2.1.5. Responses

Table 16. http response codes

| Code | Message | Datatype |
|------|--|---------------------------------------|
| 204 | OK | <<>> |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.1.6. Samples

3.1.2.2. GET HostRsrcResourceSet

GET /host/rsrc/resource_set

Lists all previously registered resource.

3.1.2.2.1. Description

Lists all previously registered resource.

3.1.2.2.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | X |

Query Parameters

| Name | Description | Required |
|-------|-------------|----------|
| scope | Scope uri. | - |

3.1.2.2.3. Return Type

[\[List\]](#)

3.1.2.2.4. Content Type

- application/json

3.1.2.2.5. Responses

Table 17. http response codes

| Code | Message | Datatype |
|------|--|---------------------------------------|
| 200 | OK | List[[string]] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.2.6. Samples

3.1.2.3. GET HostRsrcResourceSet/{rsid}

GET /host/rsrc/resource_set/{rsid}

Reads a previously registered resource.

3.1.2.3.1. Description

Reads a previously registered resource.

3.1.2.3.2. Parameters

Path Parameters

| Name | Description | Required |
|------|--------------------------|----------|
| rsid | Resource description ID. | X |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.2.3.3. Return Type

[UmaResourceWithId](#)

3.1.2.3.4. Content Type

- application/json

3.1.2.3.5. Responses

Table 18. http response codes

| Code | Message | Datatype |
|------|--|---------------------------------------|
| 200 | OK | UmaResourceWithId |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.3.6. Samples

3.1.2.4. GET Introspection

GET /introspection

The Introspection OAuth 2 Endpoint.

3.1.2.4.1. Description

The Introspection OAuth 2 Endpoint.

3.1.2.4.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

Query Parameters

| Name | Description | Required |
|-----------------|--|----------|
| token | | X |
| token_type_hint | ID Token previously issued by the Authorization Server being passed as a hint about the End-User. | - |
| response_as_jwt | OPTIONAL. Boolean value with default value false. If true, returns introspection response as JWT (signed based on client configuration used for authentication to Introspection Endpoint). | - |

3.1.2.4.3. Return Type

IntrospectionResponse

3.1.2.4.4. Content Type

- application/json

3.1.2.4.5. Responses

Table 19. http response codes

| Code | Message | Datatype |
|------|---|------------------------------|
| 200 | OK | <i>IntrospectionResponse</i> |
| 400 | Error codes for introspection endpoint. | <i>AuthorizeError</i> |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.2.4.6. Samples

3.1.2.5. GET RptStatus

GET /rpt/status

The Introspection OAuth 2 Endpoint for RPT.

3.1.2.5.1. Description

The Introspection OAuth 2 Endpoint for RPT.

3.1.2.5.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | X |

Query Parameters

| Name | Description | Required |
|-----------------|-------------|----------|
| token | | X |
| token_type_hint | | - |

3.1.2.5.3. Return Type

[RptIntrospectionResponse](#)

3.1.2.5.4. Content Type

- application/json

3.1.2.5.5. Responses

Table 20. http response codes

| Code | Message | Datatype |
|------|--|--|
| 200 | OK | RptIntrospectionResponse |
| 405 | Introspection of RPT is not allowed. | ErrorResponse |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.5.6. Samples

3.1.2.6. GET UmaGatherClaims

GET /uma/gather_claims

UMA Claims Gathering Endpoint.

3.1.2.6.1. Description

UMA Claims Gathering Endpoint.

3.1.2.6.2. Parameters

Query Parameters

| Name | Description | Required |
|---------------------|--|----------|
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. | - |
| ticket | | - |
| claims_redirect_uri | | - |
| state | | - |
| reset | | - |
| authentication | | - |

3.1.2.6.3. Return Type

-

3.1.2.6.4. Content Type

- application/json

3.1.2.6.5. Responses

Table 21. http response codes

| Code | Message | Datatype |
|------|--|---|
| 302 | Resource Found. | <<>> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_5] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.6.6. Samples

3.1.2.7. hostRsrcPr

POST /host/rsrc_pr

Registers permission.

3.1.2.7.1. Description

Registers permission.

3.1.2.7.2. Parameters

3.1.2.7.3. Form Parameter

| Name | Description | Required |
|-----------------|---|----------|
| resource_id | The identifier for a resource to which this client is seeking access. The identifier MUST correspond to a resource that was previously registered. [string] | X |
| resource_scopes | An array referencing zero or more strings representing scopes to which access was granted for this resource. Each string MUST correspond to a scope that was registered by this resource server for the referenced resource. [String] | X |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.2.7.4. Return Type

array[[\[inline_response_201\]](#)]

3.1.2.7.5. Content Type

- application/json

3.1.2.7.6. Responses

Table 22. http response codes

| Code | Message | Datatype |
|------|--|---|
| 201 | OK | List[[inline_response_201]] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.7.7. Samples

3.1.2.8. jwks

GET /jwks

A JSON Web Key (JWK) used by server. JWK is a JSON data structure that represents a set of public keys as a JSON object [RFC4627].

3.1.2.8.1. Description

Provides list of JWK used by server.

3.1.2.8.2. Parameters

3.1.2.8.3. Return Type

[WebKeysConfiguration](#)

3.1.2.8.4. Content Type

- application/json

3.1.2.8.5. Responses

Table 23. http response codes

| Code | Message | Datatype |
|------|---|--------------------------------------|
| 200 | OK | WebKeysConfiguration |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.2.8.6. Samples

3.1.2.9. POST HostRsrcResourceSet

POST /host/rsrc/resource_set

Adds a new resource description.

3.1.2.9.1. Description

Adds a new resource description.

3.1.2.9.2. Parameters

3.1.2.9.3. Body Parameter

| Name | Description | Required |
|-------------|---|----------|
| UmaResource | UmaResource UmaResource | - |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.2.9.4. Return Type

UmaResourceResponse

3.1.2.9.5. Content Type

- application/json

3.1.2.9.6. Responses

Table 24. http response codes

| Code | Message | Datatype |
|------|--|----------------------------|
| 201 | OK | <i>UmaResourceResponse</i> |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.9.7. Samples

3.1.2.10. POST Introspection

POST /introspection

The Introspection OAuth 2 Endpoint.

3.1.2.10.1. Description

The Introspection OAuth 2 Endpoint.

3.1.2.10.2. Parameters

3.1.2.10.3. Form Parameter

| Name | Description | Required |
|-------|-------------------------------|----------|
| token | Client access token. [string] | X |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.2.10.4. Return Type

IntrospectionResponse

3.1.2.10.5. Content Type

- application/json

3.1.2.10.6. Responses

Table 25. http response codes

| Code | Message | Datatype |
|------|---|---------------------------------------|
| 200 | OK | IntrospectionResponse |
| 400 | Error codes for introspection endpoint. | AuthorizeError |
| 401 | Unauthorized access request. | ErrorResponse |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.2.10.7. Samples

3.1.2.11. POST RptStatus

POST /rpt/status

The Introspection OAuth 2 Endpoint for RPT.

3.1.2.11.1. Description

The Introspection OAuth 2 Endpoint for RPT.

3.1.2.11.2. Parameters

3.1.2.11.3. Form Parameter

| Name | Description | Required |
|-----------------|--|----------|
| token | Client access token. [string] | X |
| token_type_hint | ID Token previously issued by the Authorization Server being passed as a hint about the End-User. [string] | - |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Client Authorization details that contains the access token along with other details. | X |

3.1.2.11.4. Return Type

[\[RptIntrospectionResponse_1\]](#)

3.1.2.11.5. Content Type

- application/json

3.1.2.11.6. Responses

Table 26. http response codes

| Code | Message | Datatype |
|------|--|--|
| 200 | OK | [RptIntrospectionResponse_1] |
| 405 | Introspection of RPT is not allowed. | ErrorResponse |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.11.7. Samples

3.1.2.12. POST Token

POST /token

To obtain an Access Token, an ID Token, and optionally a Refresh Token, the RP (Client).

3.1.2.12.1. Description

To obtain an Access Token, an ID Token, and optionally a Refresh Token, the RP (Client).

3.1.2.12.2. Parameters

3.1.2.12.3. Form Parameter

| Name | Description | Required |
|--------------|--|----------|
| grant_type | Provide a list of the OAuth 2.0 grant types that the Client is declaring that it will restrict itself to using. [String] | X |
| code | Code which is returned by authorization endpoint. (For grant_type=authorization_code) [string] | - |
| redirect_uri | Redirection URI to which the response will be sent. This URI MUST exactly match one of the Redirection URI values for the Client pre-registered at the OpenID Provider. [string] | - |
| username | End-User username. [string] | - |
| password | End-User password. [string] | - |
| scope | OpenID Connect requests MUST contain the openid scope value. If the openid scope value is not present, the behavior is entirely unspecified. Other scope values MAY be present. Scope values used that are not understood by an implementation SHOULD be ignored. [String] | - |
| assertion | Assertion. [string] | - |

| Name | Description | Required |
|--------------------|--|----------|
| refresh_token | Refresh token. [string] | - |
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. [string] | - |
| client_secret | The client secret. The client MAY omit the parameter if the client secret is an empty string. [string] | - |
| code_verifier | The client's PKCE code verifier. [string] | - |
| ticket | [string] | - |
| claim_token | [string] | - |
| claim_token_format | [string] | - |
| pct | [string] | - |
| rpt | [string] | - |

3.1.2.12.4. Return Type

[\[inline_response_200\]](#)

3.1.2.12.5. Content Type

- application/json

3.1.2.12.6. Responses

Table 27. http response codes

| Code | Message | Datatype |
|------|---|---|
| 200 | OK | [inline_response_200] |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_2] |
| 401 | Unauthorized access request. | <i>ErrorResponse</i> |
| 403 | Invalid details provided hence access denied. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.2.12.7. Samples

3.1.2.13. POST UmaGatherClaims

POST /uma/gather_claims

UMA Claims Gathering Endpoint

3.1.2.13.1. Description

UMA Claims Gathering Endpoint

3.1.2.13.2. Parameters

3.1.2.13.3. Form Parameter

| Name | Description | Required |
|---------------------|---|----------|
| client_id | OAuth 2.0 Client Identifier valid at the Authorization Server. [string] | - |
| ticket | [string] | - |
| claims_redirect_uri | [string] | - |
| state | [string] | - |
| reset | [boolean] | - |
| authentication | [boolean] | - |

3.1.2.13.4. Return Type

-

3.1.2.13.5. Content Type

- application/json

3.1.2.13.6. Responses

Table 28. http response codes

| Code | Message | Datatype |
|------|--|---|
| 302 | Resource Found. | <<>> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_5] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.13.7. Samples

3.1.2.14. PUT HostRsrcResourceSet{rsid}

PUT /host/rsrc/resource_set/{rsid}

Updates a previously registered resource.

3.1.2.14.1. Description

Updates a previously registered resource.

3.1.2.14.2. Parameters

Path Parameters

| Name | Description | Required |
|------|--------------|----------|
| rsid | Resource ID. | X |

3.1.2.14.3. Body Parameter

| Name | Description | Required |
|--------------|--|----------|
| UmaResource1 | UmaResource1 UmaResource | - |

Header Parameters

| Name | Description | Required |
|---------------|-------------|----------|
| Authorization | | X |

3.1.2.14.4. Return Type

[UmaResourceResponse](#)

3.1.2.14.5. Content Type

- application/json

3.1.2.14.6. Responses

Table 29. http response codes

| Code | Message | Datatype |
|------|--|---------------------------------------|
| 200 | OK | UmaResourceResponse |
| 404 | Invalid parameters provided to endpoint. | [inline_response_404] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.14.7. Samples

3.1.2.15. revoke

POST /revoke

Revoke an Access Token or a Refresh Token, the RP (Client).

3.1.2.15.1. Description

Revoke an Access Token or a Refresh Token, the RP (Client).

3.1.2.15.2. Parameters

3.1.2.15.3. Form Parameter

| Name | Description | Required |
|-----------------|---|----------|
| token | The token that the client wants to get revoked. [string] | X |
| token_type_hint | A hint about the type of the token submitted for revocation. [string] | - |

3.1.2.15.4. Return Type

-

3.1.2.15.5. Content Type

- content
- application/json

3.1.2.15.6. Responses

Table 30. http response codes

| Code | Message | Datatype |
|------|--|---|
| 200 | OK | <<>> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_4] |

3.1.2.15.7. Samples

3.1.2.16. uma2Configuration

GET /uma2-configuration

Gets UMA configuration data.

3.1.2.16.1. Description

Gets UMA configuration data.

3.1.2.16.2. Parameters

3.1.2.16.3. Return Type

[\[inline_response_200_1\]](#)

3.1.2.16.4. Content Type

- application/json

3.1.2.16.5. Responses

Table 31. http response codes

| Code | Message | Datatype |
|------|--|---|
| 200 | OK | [inline_response_200_1] |
| 500 | Invalid parameters provided to endpoint. | [inline_response_500] |

3.1.2.16.6. Samples

3.1.3. Registration

3.1.3.1. DELETE Register

DELETE /register

Deletes the client info for a previously registered client.

3.1.3.1.1. Description

The Client Registration Endpoint removes the Client Metadata for a previously registered client.

3.1.3.1.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Authorization header carrying \\"registration_access_token\\" issued before as a Bearer token | X |

Query Parameters

| Name | Description | Required |
|-----------|-----------------------------------|----------|
| client_id | Client ID that identifies client. | X |

3.1.3.1.3. Return Type

-

3.1.3.1.4. Content Type

- application/json

3.1.3.1.5. Responses

Table 32. http response codes

| Code | Message | Datatype |
|------|---|---|
| 204 | OK | <<>> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_1] |
| 401 | Invalid parameters provided to endpoint. | [inline_response_400_1] |
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.3.1.6. Samples

3.1.3.2. GET Register

GET /register

Get client information for a previously registered client.

3.1.3.2.1. Description

Get client information for a previously registered client.

3.1.3.2.2. Parameters

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Authorization header carrying \\"registration_access_token\\" issued before as a Bearer token | X |

Query Parameters

| Name | Description | Required |
|-----------|-----------------------------------|----------|
| client_id | Client ID that identifies client. | X |

3.1.3.2.3. Return Type

[ClientResponse](#)

3.1.3.2.4. Content Type

- application/json

3.1.3.2.5. Responses

Table 33. http response codes

| Code | Message | Datatype |
|------|---|-------------------------|
| 200 | OK | <i>ClientResponse</i> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_1] |
| 401 | Invalid parameters are provided to endpoint. | <i>ErrorResponse</i> |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.3.2.6. Samples

3.1.3.3. POST Register

POST /register

Registers new client dynamically.

3.1.3.3.1. Description

The Client Registration Endpoint is an OAuth 2.0 Protected Resource through which a new Client registration can be requested.

3.1.3.3.2. Parameters

3.1.3.3.3. Body Parameter

| Name | Description | Required |
|-----------------|---------------------------------------|----------|
| RegisterParams1 | <i>RegisterParams1</i> RegisterParams | - |

3.1.3.3.4. Return Type

RegisterResponseParam

3.1.3.3.5. Content Type

- application/json

3.1.3.3.6. Responses

Table 34. http response codes

| Code | Message | Datatype |
|------|---|------------------------------|
| 200 | OK | <i>RegisterResponseParam</i> |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_3] |
| 500 | Internal error occurred. Please check log file for details. | <i>ErrorResponse</i> |

3.1.3.3.7. Samples

3.1.3.4. PUT Register

PUT /register

Updates Client Metadata for a registered client.

3.1.3.4.1. Description

Updates Client Metadata for a registered client.

3.1.3.4.2. Parameters

3.1.3.4.3. Body Parameter

| Name | Description | Required |
|----------------|---|----------|
| RegisterParams | RegisterParams RegisterParams | - |

Header Parameters

| Name | Description | Required |
|---------------|---|----------|
| Authorization | Authorization header carrying "registration_access_token" issued before as a Bearer token | X |

Query Parameters

| Name | Description | Required |
|-----------|---|----------|
| client_id | Client ID that identifies client that must be updated by this request. | X |

3.1.3.4.4. Return Type

[RegisterResponseParam](#)

3.1.3.4.5. Content Type

- application/json

3.1.3.4.6. Responses

Table 35. http response codes

| Code | Message | Datatype |
|------|--|---------------------------------------|
| 200 | OK | RegisterResponseParam |
| 400 | Invalid parameters provided to endpoint. | [inline_response_400_2] |

| Code | Message | Datatype |
|------|---|-------------------------------|
| 500 | Internal error occurred. Please check log file for details. | ErrorResponse |

3.1.3.4.7. Samples

3.2. Models

3.2.1. *AuthorizeError*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.2. *ClientInfoResponse*

Client details in response.

| Field Name | Required | Type | Description | Format |
|--------------------------------|----------|----------------------------------|---|--------|
| displayName | | String | | |
| inum | | String | XRI i-number | |
| oxAuthAppType | | String | oxAuth Application type | |
| oxAuthIdTokenSignedResponseAlg | | String | oxAuth ID Token Signed Response Algorithm | |
| oxAuthRedirectURI | | List of [string] | Array of redirect URIs values used in the Authorization | |
| oxId | | String | oxAuth Attribute Scope Id | |
| custom_attributes | | List of [string] | | |

3.2.3. *ClientResponse*

| Field Name | Required | Type | Description | Format |
|---------------|----------|----------------------------------|--|--------|
| redirect_uris | | List of [string] | Redirection URI values used by the Client. One of these registered Redirection URI values must exactly match the redirect_uri parameter value used in each Authorization Request | |

| Field Name | Required | Type | Description | Format |
|---------------------|----------|----------------------------------|--|--------|
| claims_redirect_uri | | List of [string] | Array of The Claims Redirect URIs to which the client wishes the authorization server to direct the requesting party's user agent after completing its interaction. | |
| response_types | | List of [string] | A list of the OAuth 2.0 response_type values that the Client is declaring that it will restrict itself to using. If omitted, the default is that the Client will use only the code Response Type. Allowed values are code, token, id_token. | |
| grant_types | | List of [string] | A list of the OAuth 2.0 Grant Types that the Client is declaring that it will restrict itself to using. | |
| contacts | | List of [string] | e-mail addresses of people responsible for this Client. | |
| client_name | | String | Name of the Client to be presented to the user. | |
| logo_uri | | String | URL that references a logo for the Client application | |
| client_uri | | String | URL of the home page of the Client. The value of this field must point to a valid Web page. | |
| policy_uri | | String | URL that the Relying Party Client provides to the End-User to read about the how the profile data will be used. | |
| tos_uri | | String | URL that the Relying Party Client provides to the End-User to read about the Relying Party's terms of service. | |
| jwks_uri | | String | URL for the Client's JSON Web Key Set (JWK) document containing key(s) that are used for signing requests to the OP. The JWK Set may also contain the Client's encryption keys(s) that are used by the OP to encrypt the responses to the Client. When both signing and encryption keys are made available, a use (Key Use) parameter value is required for all keys in the document to indicate each key's intended usage . | |

| Field Name | Required | Type | Description | Format |
|---------------------------------|----------|---------|--|--------|
| hwks | | String | Client's JSON Web Key Set (JWK) document, passed by value. The semantics of the hwks parameter are the same as the hwks_uri parameter, other than that the JWK Set is passed by value, rather than by reference. This parameter is intended only to be used by Clients that, for some reason, are unable to use the hwks_uri parameter, for instance, by native applications that might not have a location to host the contents of the JWK Set. If a Client can use hwks_uri, it must not use hwks. One significant downside of hwks is that it does not enable key rotation. The hwks_uri and hwks parameters must not be used together. | |
| sector_identifier_uri | | String | URL using the https scheme to be used in calculating Pseudonymous Identifiers by the OP. | |
| subject_type | | String | Subject type requested for the Client ID. Valid types include pairwise and public. | |
| rpt_as_jwt | | Boolean | Specifies whether RPT should be return as signed JWT. | |
| access_token_as_jwt | | Boolean | Specifies whether access token as signed JWT. | |
| access_token_signing_alg | | String | Specifies signing algorithm that has to be used during JWT signing. If it's not specified, then the default OP signing algorithm will be used . | |
| id_token_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing the ID Token issued to this Client. | |
| id_token_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting the ID Token issued to this Client. | |
| id_token_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting the ID Token issued to this Client. | |

| Field Name | Required | Type | Description | Format |
|---------------------------------|----------|--------------------------------|---|--------|
| userinfo_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing UserInfo Responses. | |
| userinfo_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting UserInfo Responses. | |
| userinfo_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting UserInfo Responses. | |
| request_object_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing Request Objects sent to the OP. | |
| request_object_encryption_alg | | String | JWE alg algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |
| request_object_encryption_enc | | String | JWE enc algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |
| token_endpoint_auth_method | | String | Requested Client Authentication method for the Token Endpoint. | |
| token_endpoint_auth_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing the JWT used to authenticate the Client at the Token Endpoint for the private_key_jwt and client_secret_jwt authentication methods. | |
| default_max_age | | Integer | Specifies the Default Maximum Authentication Age. | |
| require_auth_time | | Boolean | Boolean value specifying whether the auth_time Claim in the ID Token is required. It is required when the value is true. | |
| default_acr_values | | List of string | Array of default requested Authentication Context Class Reference values that the Authorization Server must use for processing requests from the Client. | |
| initiate_login_uri | | String | Specifies the URI using the https scheme that the authorization server can call to initiate a login at the client. | |

| Field Name | Required | Type | Description | Format |
|--------------------------------------|----------|----------------------------------|---|--------|
| post_logout_redirect_uris | | List of [string] | Provide the URLs supplied by the RP to request that the user be redirected to this location after a logout has been performed. | |
| frontchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when rendered in an iframe by the OP. | |
| frontchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID query parameter be included to identify the RP session at the OP when the logout_uri is used. If omitted, the default value is false. | |
| backchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when sent a Logout Token by the OP. | |
| backchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID Claim be included in the Logout Token to identify the RP session with the OP when the backchannel_logout_uri is used. If omitted, the default value is false. | |
| request_uris | | List of [string] | Provide a list of request_uri values that are pre-registered by the Client for use at the Authorization Server. | |
| scopes | | String | This param will be removed in a future version because the correct is 'scope' not 'scopes', see (rfc7591). | |
| claims | | String | String containing a space-separated list of claims that can be requested individually. | |
| id_token_token_binding_cnf | | String | Specifies the JWT Confirmation Method member name (e.g. tbh) that the Relying Party expects when receiving Token Bound ID Tokens. The presence of this parameter indicates that the Relying Party supports Token Binding of ID Tokens. If omitted, the default is that the Relying Party does not support Token Binding of ID Tokens. | |

| Field Name | Required | Type | Description | Format |
|---|----------|----------------------------------|---|--------|
| tls_client_auth_subject_dn | | String | An string representation of the expected subject distinguished name of the certificate, which the OAuth client will use in mutual TLS authentication. | |
| allow_spontaneous_scopes | | Boolean | Specifies whether to allow spontaneous scopes for client. The default value is false. | |
| spontaneous_scopes | | List of [string] | List of spontaneous scopes | |
| run_introspection_script_before_access_token_as_jwt_creation_and_include_claims | | Boolean | Boolean value with default value false. If true and access_token_as_jwt=true then run introspection script and transfer claims into JWT. | |
| keep_client_authorization_after_expiration | | Boolean | Boolean value indicating if the client authorization will not be removed after expiration (expiration date is same as client's expiration that created it). The default value is false. | |
| scope | | List of [string] | Provide list of scope which are used during authentication to authorize access to resource. | |
| authorized_origins | | List of [string] | specifies authorized JavaScript origins. | |
| access_token_lifetime | | Integer | Specifies the Client-specific access token expiration. | |
| software_id | | String | Specifies a unique identifier string (UUID) assigned by the client developer or software publisher used by registration endpoints to identify the client software to be dynamically registered. | |
| software_version | | String | Specifies a version identifier string for the client software identified by 'software_id'. The value of the 'software_version' should change on any update to the client software identified by the same 'software_id'. | |

| Field Name | Required | Type | Description | Format |
|--|----------|---------|--|--------|
| software_statement | | String | specifies a software statement containing client metadata values about the client software as claims. This is a string value containing the entire signed JWT. | |
| backchannel_token_delivery_mode | | String | specifies how backchannel token will be delivered. | |
| backchannel_client_notification_endpoint | | String | Client Initiated Backchannel Authentication (CIBA) enables a Client to initiate the authentication of an end-user by means of out-of-band mechanisms. Upon receipt of the notification, the Client makes a request to the token endpoint to obtain the tokens. | |
| backchannel_authentication_request_signing_alg | | String | The JWS algorithm alg value that the Client will use for signing authentication request, as described in Section 7.1.1. of OAuth 2.0 [RFC6749]. When omitted, the Client will not send signed authentication requests. | |
| backchannel_user_code_parameter | | Boolean | Boolean value specifying whether the Client supports the user_code parameter. If omitted, the default value is false. | |

3.2.4. EndSessionError

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.5. ErrorResponse

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | |
| error_description | X | String | | |

| Field Name | Required | Type | Description | Format |
|------------|----------|--------|-------------|--------|
| details | | String | | |

3.2.6. *InlineResponse200*

AccessTokenResponse.

| Field Name | Required | Type | Description | Format |
|---------------|----------|----------------------------------|--|--------|
| access_token | X | String | The access token issued by the authorization server. | |
| token_type | X | String | The access token type provides the client with the information required to successfully utilize the access token to make a protected resource request (along with type-specific attributes). | |
| expires_in | | Integer | The lifetime in seconds of the access token. For example, the value "3600" denotes that the access token will expire in one hour from the time the response was generated. | |
| refresh_token | | String | The refresh token, which can be used to obtain new access tokens using the same authorization grant | |
| scope | | List of [string] | | |
| id_token | | String | | |

3.2.7. *InlineResponse2001*

UmaMetadata

| Field Name | Required | Type | Description | Format |
|-------------------------|----------|--------|--|--------|
| issuer | X | String | The authorization server's issuer identifier | |
| authorization_end_point | X | String | URL of the authorization server | |

| Field Name | Required | Type | Description | Format |
|--------------------------------|----------|----------------------------------|--|--------|
| uma_profiles_supported | | List of [string] | UMA profiles supported by this authorization server. The value is an array of string values, where each string value is a URI identifying an UMA profile | |
| permission_endpoint | | String | The endpoint URI at which the resource server requests permissions on the client's behalf. | |
| resource_registration_endpoint | | String | The endpoint URI at which the resource server registers resources to put them under authorization manager protection. | |
| scope_endpoint | | String | The Scope endpoint URI. | |

3.2.8. *InlineResponse201*

| Field Name | Required | Type | Description | Format |
|-----------------|----------|----------------------------------|--|--------|
| resource_id | X | String | The identifier for a resource to which this client is seeking access. The identifier MUST correspond to a resource that was previously registered. | |
| resource_scopes | X | List of [string] | An array referencing zero or more strings representing scopes to which access was granted for this resource. Each string MUST correspond to a scope that was registered by this resource server for the referenced resource. | |
| params | | Map of [string] | A key/value map that can contain custom parameters. | |
| exp | | Long | Number of seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |

3.2.9. *InlineResponse400*

| Field Name | Required | Type | Description | Format |
|------------|----------|--------|-------------|--------|
| error | X | String | | enum |

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error_description | X | String | | |
| details | | String | | |

3.2.10. *InlineResponse4001*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.11. *InlineResponse4002*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.12. *InlineResponse4003*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.13. *InlineResponse4004*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.14. *InlineResponse4005*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.15. *InlineResponse4006*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.16. *InlineResponse401*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.17. *InlineResponse403*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.18. *InlineResponse404*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.19. *InlineResponse500*

| Field Name | Required | Type | Description | Format |
|-------------------|----------|--------|-------------|--------|
| error | X | String | | enum |
| error_description | X | String | | |
| details | | String | | |

3.2.20. *IntrospectionResponse*

meta-information about token

| Field Name | Required | Type | Description | Format |
|------------|----------|----------------------------------|--|--------|
| active | X | Boolean | Boolean indicator of whether or not the presented token is currently active. | |
| scope | | List of [string] | Provide list of scopes to which access was granted for this resource. | |
| client_id | | String | Client identifier for the OAuth 2.0 client that requested this token. | |
| username | | String | Human-readable identifier for the resource owner who authorized this token. | |
| token_type | | String | Type of the token as defined in Section 5.1 of OAuth 2.0 [RFC6749]. | |
| exp | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating when this permission will expire. | |
| iat | | Integer | | |
| sub | | String | Subject of the token, as defined in JWT [RFC7519]. | |
| aud | | String | Service-specific string identifier or list of string identifiers representing the intended audience for this token, as defined in JWT [RFC7519]. | |
| iss | | String | String representing the issuer of this token, as defined in JWT [RFC7519]. | |
| acr_values | | String | Authentication Context Class Reference values. | |

| Field Name | Required | Type | Description | Format |
|------------|----------|--------|---|--------|
| jti | | String | String identifier for the token, as defined in JWT. | |

3.2.21. *JsonWebKey*

| Field Name | Required | Type | Description | Format |
|------------|----------|----------------------------------|-------------|--------|
| kid | X | String | | |
| kty | X | String | | |
| use | X | String | | |
| alg | X | String | | |
| crv | | String | | |
| exp | X | Long | | int64 |
| x5c | X | List of [string] | | |
| n | | String | | |
| e | | String | | |
| x | | String | | |
| y | | String | | |

3.2.22. *RegisterParams* RegisterParams

| Field Name | Required | Type | Description | Format |
|---------------------|----------|----------------------------------|--|--------|
| redirect_uris | X | List of [string] | Redirection URI values used by the Client. One of these registered Redirection URI values must exactly match the redirect_uri parameter value used in each Authorization Request | |
| claims_redirect_uri | | List of [string] | Array of The Claims Redirect URIs to which the client wishes the authorization server to direct the requesting party's user agent after completing its interaction. | |

| Field Name | Required | Type | Description | Format |
|----------------|----------|------------------------------------|--|--------|
| response_types | | List of [string] | A list of the OAuth 2.0 response_type values that the Client is declaring that it will restrict itself to using. If omitted, the default is that the Client will use only the code Response Type. Allowed values are code, token, id_token. | |
| grant_types | | List of [string] | A list of the OAuth 2.0 Grant Types that the Client is declaring that it will restrict itself to using. | |
| contacts | | List of [string] | e-mail addresses of people responsible for this Client. | |
| client_name | | String | Name of the Client to be presented to the user. | |
| logo_uri | | String | URL that references a logo for the Client application | |
| client_uri | | String | URL of the home page of the Client. The value of this field must point to a valid Web page. | |
| policy_uri | | String | URL that the Relying Party Client provides to the End-User to read about the how the profile data will be used. | |
| tos_uri | | String | URL that the Relying Party Client provides to the End-User to read about the Relying Party's terms of service. | |
| jwks_uri | | String | URL for the Client's JSON Web Key Set (JWK) document containing key(s) that are used for signing requests to the OP. The JWK Set may also contain the Client's encryption keys(s) that are used by the OP to encrypt the responses to the Client. When both signing and encryption keys are made available, a use (Key Use) parameter value is required for all keys in the document to indicate each key's intended usage . | |
| jwks | | List of JsonWebKey | List of JSON Web Key (JWK) - A JSON object that represents a cryptographic key. The members of the object represent properties of the key, including its value. | |

| Field Name | Required | Type | Description | Format |
|---------------------------------|----------|---------|---|--------|
| sector_identifier_uri | | String | URL using the https scheme to be used in calculating Pseudonymous Identifiers by the OP. | |
| subject_type | | String | Subject type requested for the Client ID. Valid types include pairwise and public. | |
| rpt_as_jwt | | Boolean | Specifies whether RPT should be return as signed JWT. | |
| access_token_as_jwt | | Boolean | Specifies whether access token as signed JWT. | |
| access_token_signing_alg | | String | Specifies signing algorithm that has to be used during JWT signing. If it's not specified, then the default OP signing algorithm will be used . | |
| id_token_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing the ID Token issued to this Client. | |
| id_token_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting the ID Token issued to this Client. | |
| id_token_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting the ID Token issued to this Client. | |
| userinfo_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing UserInfo Responses. | |
| userinfo_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting UserInfo Responses. | |
| userinfo_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting UserInfo Responses. | |
| request_object_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing Request Objects sent to the OP. | |
| request_object_encryption_alg | | String | JWE alg algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |
| request_object_encryption_enc | | String | JWE enc algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |

| Field Name | Required | Type | Description | Format |
|--------------------------------------|----------|----------------------------------|--|--------|
| token_endpoint_auth_method | | String | Requested Client Authentication method for the Token Endpoint. | |
| token_endpoint_auth_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing the JWT used to authenticate the Client at the Token Endpoint for the private_key_jwt and client_secret_jwt authentication methods. | |
| default_max_age | | Integer | Specifies the Default Maximum Authentication Age. | |
| require_auth_time | | Boolean | Boolean value specifying whether the auth_time Claim in the ID Token is required. It is required when the value is true. | |
| default_acr_values | | List of [string] | Array of default requested Authentication Context Class Reference values that the Authorization Server must use for processing requests from the Client. | |
| initiate_login_uri | | String | Specifies the URI using the https scheme that the authorization server can call to initiate a login at the client. | |
| post_logout_redirect_uris | | List of [string] | Provide the URLs supplied by the RP to request that the user be redirected to this location after a logout has been performed. | |
| frontchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when rendered in an iframe by the OP. | |
| frontchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID query parameter be included to identify the RP session at the OP when the logout_uri is used. If omitted, the default value is false. | |
| backchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when sent a Logout Token by the OP. | |

| Field Name | Required | Type | Description | Format |
|---|----------|----------------------------------|---|--------|
| backchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID Claim be included in the Logout Token to identify the RP session with the OP when the backchannel_logout_uri is used. If omitted, the default value is false. | |
| request_uris | | List of [string] | Provide a list of request_uri values that are pre-registered by the Client for use at the Authorization Server. | |
| scopes | | String | This param will be removed in a future version because the correct is 'scope' not 'scopes', see (rfc7591). | |
| claims | | String | String containing a space-separated list of claims that can be requested individually. | |
| id_token_token_binding_cnf | | String | Specifies the JWT Confirmation Method member name (e.g. tbh) that the Relying Party expects when receiving Token Bound ID Tokens. The presence of this parameter indicates that the Relying Party supports Token Binding of ID Tokens. If omitted, the default is that the Relying Party does not support Token Binding of ID Tokens. | |
| tls_client_auth_subject_dn | | String | An string representation of the expected subject distinguished name of the certificate, which the OAuth client will use in mutual TLS authentication. | |
| allow_spontaneous_scopes | | Boolean | Specifies whether to allow spontaneous scopes for client. The default value is false. | |
| spontaneous_scopes | | List of [string] | List of spontaneous scopes | |
| run_introspection_script_before_access_token_as_jwt_creation_and_include_claims | | Boolean | Boolean value with default value false. If true and access_token_as_jwt=true then run introspection script and transfer claims into JWT. | |

| Field Name | Required | Type | Description | Format |
|--|----------|----------------------------------|--|--------|
| keep_client_authorization_after_expiration | | Boolean | Boolean value indicating if the client authorization will not be removed after expiration (expiration date is same as client's expiration that created it). The default value is false. | |
| scope | | List of [string] | Provide list of scope which are used during authentication to authorize access to resource. | |
| authorized_origins | | List of [string] | specifies authorized JavaScript origins. | |
| access_token_lifetime | | Integer | Specifies the Client-specific access token expiration. | |
| software_id | | String | Specifies a unique identifier string (UUID) assigned by the client developer or software publisher used by registration endpoints to identify the client software to be dynamically registered. | |
| software_version | | String | Specifies a version identifier string for the client software identified by 'software_id'. The value of the 'software_version' should change on any update to the client software identified by the same 'software_id'. | |
| software_statement | | String | specifies a software statement containing client metadata values about the client software as claims. This is a string value containing the entire signed JWT. | |
| backchannel_token_delivery_mode | | String | specifies how backchannel token will be delivered. | |
| backchannel_client_notification_endpoint | | String | Client Initiated Backchannel Authentication (CIBA) enables a Client to initiate the authentication of an end-user by means of out-of-band mechanisms. Upon receipt of the notification, the Client makes a request to the token endpoint to obtain the tokens. | |

| Field Name | Required | Type | Description | Format |
|--|----------|----------------------------------|--|--------|
| backchannel_authentication_request_signing_alg | | String | The JWS algorithm alg value that the Client will use for signing authentication request, as described in Section 7.1.1. of OAuth 2.0 [RFC6749]. When omitted, the Client will not send signed authentication requests. | |
| backchannel_user_code_parameter | | Boolean | Boolean value specifying whether the Client supports the user_code parameter. If omitted, the default value is false. | |
| additional_audience | | List of [string] | Additional audiences. | |

3.2.23. RegisterParams1 RegisterParams

| Field Name | Required | Type | Description | Format |
|---------------------|----------|----------------------------------|---|--------|
| redirect_uris | X | List of [string] | Redirection URI values used by the Client. One of these registered Redirection URI values must exactly match the redirect_uri parameter value used in each Authorization Request | |
| claims_redirect_uri | | List of [string] | Array of The Claims Redirect URIs to which the client wishes the authorization server to direct the requesting party's user agent after completing its interaction. | |
| response_types | | List of [string] | A list of the OAuth 2.0 response_type values that the Client is declaring that it will restrict itself to using. If omitted, the default is that the Client will use only the code Response Type. Allowed values are code, token, id_token. | |
| grant_types | | List of [string] | A list of the OAuth 2.0 Grant Types that the Client is declaring that it will restrict itself to using. | |
| contacts | | List of [string] | e-mail addresses of people responsible for this Client. | |
| client_name | | String | Name of the Client to be presented to the user. | |

| Field Name | Required | Type | Description | Format |
|-----------------------|----------|---------------------------|--|--------|
| logo_uri | | String | URL that references a logo for the Client application | |
| client_uri | | String | URL of the home page of the Client. The value of this field must point to a valid Web page. | |
| policy_uri | | String | URL that the Relying Party Client provides to the End-User to read about the how the profile data will be used. | |
| tos_uri | | String | URL that the Relying Party Client provides to the End-User to read about the Relying Party's terms of service. | |
| jwks_uri | | String | URL for the Client's JSON Web Key Set (JWK) document containing key(s) that are used for signing requests to the OP. The JWK Set may also contain the Client's encryption keys(s) that are used by the OP to encrypt the responses to the Client. When both signing and encryption keys are made available, a use (Key Use) parameter value is required for all keys in the document to indicate each key's intended usage . | |
| jwks | | List of <i>JsonWebKey</i> | List of JSON Web Key (JWK) - A JSON object that represents a cryptographic key. The members of the object represent properties of the key, including its value. | |
| sector_identifier_uri | | String | URL using the https scheme to be used in calculating Pseudonymous Identifiers by the OP. | |
| subject_type | | String | Subject type requested for the Client ID. Valid types include pairwise and public. | |
| rpt_as_jwt | | Boolean | Specifies whether RPT should be return as signed JWT. | |
| access_token_as_jwt | | Boolean | Specifies whether access token as signed JWT. | |

| Field Name | Required | Type | Description | Format |
|---------------------------------|----------|---------|---|--------|
| access_token_signing_alg | | String | Specifies signing algorithm that has to be used during JWT signing. If it's not specified, then the default OP signing algorithm will be used . | |
| id_token_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing the ID Token issued to this Client. | |
| id_token_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting the ID Token issued to this Client. | |
| id_token_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting the ID Token issued to this Client. | |
| userinfo_signed_response_alg | | String | JWS alg algorithm (JWA) required for signing UserInfo Responses. | |
| userinfo_encrypted_response_alg | | String | JWE alg algorithm (JWA) required for encrypting UserInfo Responses. | |
| userinfo_encrypted_response_enc | | String | JWE enc algorithm (JWA) required for encrypting UserInfo Responses. | |
| request_object_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing Request Objects sent to the OP. | |
| request_object_encryption_alg | | String | JWE alg algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |
| request_object_encryption_enc | | String | JWE enc algorithm (JWA) the RP is declaring that it may use for encrypting Request Objects sent to the OP. | |
| token_endpoint_auth_method | | String | Requested Client Authentication method for the Token Endpoint. | |
| token_endpoint_auth_signing_alg | | String | JWS alg algorithm (JWA) that must be used for signing the JWT used to authenticate the Client at the Token Endpoint for the private_key_jwt and client_secret_jwt authentication methods. | |
| default_max_age | | Integer | Specifies the Default Maximum Authentication Age. | |

| Field Name | Required | Type | Description | Format |
|--------------------------------------|----------|----------------------------------|--|--------|
| require_auth_time | | Boolean | Boolean value specifying whether the auth_time Claim in the ID Token is required. It is required when the value is true. | |
| default_acr_values | | List of [string] | Array of default requested Authentication Context Class Reference values that the Authorization Server must use for processing requests from the Client. | |
| initiate_login_uri | | String | Specifies the URI using the https scheme that the authorization server can call to initiate a login at the client. | |
| post_logout_redirect_uris | | List of [string] | Provide the URLs supplied by the RP to request that the user be redirected to this location after a logout has been performed. | |
| frontchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when rendered in an iframe by the OP. | |
| frontchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID query parameter be included to identify the RP session at the OP when the logout_uri is used. If omitted, the default value is false. | |
| backchannel_logout_uri | | String | RP URL that will cause the RP to log itself out when sent a Logout Token by the OP. | |
| backchannel_logout_session_required | | Boolean | Boolean value specifying whether the RP requires that a session ID Claim be included in the Logout Token to identify the RP session with the OP when the backchannel_logout_uri is used. If omitted, the default value is false. | |
| request_uris | | List of [string] | Provide a list of request_uri values that are pre-registered by the Client for use at the Authorization Server. | |
| scopes | | String | This param will be removed in a future version because the correct is 'scope' not 'scopes', see (rfc7591). | |

| Field Name | Required | Type | Description | Format |
|---|----------|----------------------------------|---|--------|
| claims | | String | String containing a space-separated list of claims that can be requested individually. | |
| id_token_token_binding_cnf | | String | Specifies the JWT Confirmation Method member name (e.g. tbh) that the Relying Party expects when receiving Token Bound ID Tokens. The presence of this parameter indicates that the Relying Party supports Token Binding of ID Tokens. If omitted, the default is that the Relying Party does not support Token Binding of ID Tokens. | |
| tls_client_auth_subject_dn | | String | An string representation of the expected subject distinguished name of the certificate, which the OAuth client will use in mutual TLS authentication. | |
| allow_spontaneous_scopes | | Boolean | Specifies whether to allow spontaneous scopes for client. The default value is false. | |
| spontaneous_scopes | | List of [string] | List of spontaneous scopes | |
| run_introspection_script_before_access_token_as_jwt_creation_and_include_claims | | Boolean | Boolean value with default value false. If true and access_token_as_jwt=true then run introspection script and transfer claims into JWT. | |
| keep_client_authorization_after_expiration | | Boolean | Boolean value indicating if the client authorization will not be removed after expiration (expiration date is same as client's expiration that created it). The default value is false. | |
| scope | | List of [string] | Provide list of scope which are used during authentication to authorize access to resource. | |
| authorized_origins | | List of [string] | specifies authorized JavaScript origins. | |
| access_token_lifetime | | Integer | Specifies the Client-specific access token expiration. | |

| Field Name | Required | Type | Description | Format |
|--|----------|----------------------------------|--|--------|
| software_id | | String | Specifies a unique identifier string (UUID) assigned by the client developer or software publisher used by registration endpoints to identify the client software to be dynamically registered. | |
| software_version | | String | Specifies a version identifier string for the client software identified by 'software_id'. The value of the 'software_version' should change on any update to the client software identified by the same 'software_id'. | |
| software_statement | | String | specifies a software statement containing client metadata values about the client software as claims. This is a string value containing the entire signed JWT. | |
| backchannel_token_delivery_mode | | String | specifies how backchannel token will be delivered. | |
| backchannel_client_notification_endpoint | | String | Client Initiated Backchannel Authentication (CIBA) enables a Client to initiate the authentication of an end-user by means of out-of-band mechanisms. Upon receipt of the notification, the Client makes a request to the token endpoint to obtain the tokens. | |
| backchannel_authentication_request_signing_alg | | String | The JWS algorithm alg value that the Client will use for signing authentication request, as described in Section 7.1.1. of OAuth 2.0 [RFC6749]. When omitted, the Client will not send signed authentication requests. | |
| backchannel_user_code_parameter | | Boolean | Boolean value specifying whether the Client supports the user_code parameter. If omitted, the default value is false. | |
| additional_audience | | List of [string] | Additional audiences. | |

3.2.24. RegisterResponseParam

| Field Name | Required | Type | Description | Format |
|---------------------------|----------|---------|--|--------|
| client_id | X | String | Unique Client Identifier. It MUST NOT be currently valid for any other registered Client. | |
| client_secret | | String | This value is used by Confidential Clients to authenticate to the Token Endpoint | |
| registration_access_token | | String | Registration Access Token that can be used at the Client Configuration Endpoint to perform subsequent operations upon the Client registration. | |
| registration_client_uri | | String | Location of the Client Configuration Endpoint where the Registration Access Token can be used to perform subsequent operations upon the resulting Client registration. | |
| client_id_issued_at | | Integer | Time at which the Client Identifier was issued. | |
| client_secret_expires_at | | Integer | Time at which the client_secret will expire or 0 if it will not expire. | |

3.2.25. RptIntrospectionResponse

| Field Name | Required | Type | Description | Format |
|------------|----------|---------|---|--------|
| active | X | Boolean | Boolean indicator of whether or not the presented token is currently active. | |
| exp | | Long | Integer timestamp, in seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |
| iat | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating when this permission was originally issued. | |
| clientId | | String | Client id used to obtain RPT. | |

| Field Name | Required | Type | Description | Format |
|-----------------|----------|--|---|--------|
| sub | | String | Subject of the token. Usually a machine-readable identifier of the resource owner who authorized this token. | |
| aud | | String | Service-specific string identifier or list of string identifiers representing the intended audience for this token. | |
| permissions | X | List of [RptIntrospectionResponse_permissions] | | |
| pct_claims | | Map of [string] | PCT token claims. | |
| iss | | String | String representing the issuer of this token, as defined in JWT [RFC7519]. | |
| jti | | String | String identifier for the token, as defined in JWT [RFC7519]. | |
| nbf | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating the time before which this permission is not valid. | |
| resource_id | X | String | Resource ID. | |
| resource_scopes | X | List of [string] | | |

3.2.26. *RptIntrospectionResponse1*

| Field Name | Required | Type | Description | Format |
|------------|----------|---------|---|--------|
| active | X | Boolean | Boolean indicator of whether or not the presented token is currently active. | |
| exp | | Long | Integer timestamp, in seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |
| iat | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating when this permission was originally issued. | |
| clientId | | String | Client id used to obtain RPT. | |

| Field Name | Required | Type | Description | Format |
|-----------------|----------|--|---|--------|
| sub | | String | Subject of the token. Usually a machine-readable identifier of the resource owner who authorized this token. | |
| aud | | String | Service-specific string identifier or list of string identifiers representing the intended audience for this token. | |
| permissions | X | List of [RptIntrospectionResponse_permissions] | | |
| pct_claims | | Map of [string] | | |
| iss | | String | String representing the issuer of this token, as defined in JWT [RFC7519]. | |
| jti | | String | String identifier for the token, as defined in JWT [RFC7519]. | |
| nbf | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating the time before which this permission is not valid. | |
| resource_id | X | String | Resource ID. | |
| resource_scopes | X | List of [string] | | |

3.2.27. *RptIntrospectionResponsePermissions*

List of UmaPermission granted to RPT. A permission is (requested or granted) authorized access to a particular resource with some number of scopes bound to that resource.

| Field Name | Required | Type | Description | Format |
|-------------|----------|--------|---|--------|
| resource_id | X | String | A string that uniquely identifies the protected resource, access to which has been granted to this client on behalf of this requesting party. The identifier MUST correspond to a resource that was previously registered as protected. | |

| Field Name | Required | Type | Description | Format |
|-----------------|----------|--------------------------------|---|--------|
| resource_scopes | X | List of string | An array referencing zero or more strings representing scopes to which access was granted for this resource. Each string MUST correspond to a scope that was registered by this resource server for the referenced resource. | |
| exp | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating when this permission will expire. If the token-level exp value pre-dates a permission-level exp value, the token-level value takes precedence. | |
| iat | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating when this permission was originally issued. If the token-level iat value post-dates a permission-level iat value, the token-level value takes precedence. | |
| nbf | | Integer | Integer timestamp, measured in the number of seconds since January 1 1970 UTC, indicating the time before which this permission is not valid. If the token-level nbf value post-dates a permission-level nbf value, the token-level value takes precedence. | |

3.2.28. SessionStateObject

| Field Name | Required | Type | Description | Format |
|--------------|----------|--------|---|--------|
| state | | String | String that represents the End-User's login state at the OP. It MUST NOT contain the space (" ") character. | |
| auth_time | | date | specifies the time at which session was authenticated. | date |
| custom_state | | String | | |

3.2.29. *UmaPermission* UmaPermissiona

A permission is (requested or granted) authorized access to a particular resource with some number of scopes bound to that resource.

| Field Name | Required | Type | Description | Format |
|-----------------|----------|----------------------------------|--|--------|
| resource_id | X | String | The identifier for a resource to which this client is seeking access. The identifier MUST correspond to a resource that was previously registered. | |
| resource_scopes | X | List of [string] | An array referencing zero or more strings representing scopes to which access was granted for this resource. Each string MUST correspond to a scope that was registered by this resource server for the referenced resource. | |
| params | | Map of [string] | A key/value map that can contain custom parameters. | |

3.2.30. *UmaResource* UmaResource

Resource description

| Field Name | Required | Type | Description | Format |
|------------|----------|--------|---|--------|
| name | | String | A human-readable string describing a set of one or more resources. This name MAY be used by the authorization server in its resource owner user interface for the resource owner. | |
| icon_uri | | String | A URI for a graphic icon representing the resource set. The referenced icon MAY be used by the authorization server in its resource owner user interface for the resource owner. | |

| Field Name | Required | Type | Description | Format |
|------------------|----------|--------------------------------|--|--------|
| type | | String | A string uniquely identifying the semantics of the resource set. For example, if the resource set consists of a single resource that is an identity claim that leverages standardized claim semantics for “verified email address”, the value of this property could be an identifying URI for this claim. | |
| resource_scopes | X | List of string | An array of strings, any of which MAY be a URI, indicating the available scopes for this resource set. URIs MUST resolve to scope descriptions as defined in Section 2.1. Published scope descriptions MAY reside anywhere on the web; a resource server is not required to self-host scope descriptions and may wish to point to standardized scope descriptions residing elsewhere. It is the resource server's responsibility to ensure that scope description documents are accessible to authorization servers through GET calls to support any user interface requirements. The resource server and authorization server are presumed to have separately negotiated any required interpretation of scope handling not conveyed through scope descriptions. | |
| scope_expression | | String | | |
| description | | String | A human-readable string describing the resource | |
| iat | | Long | number of seconds since January 1 1970 UTC, indicating when the token was issued at | int64 |
| exp | | Long | number of seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |

3.2.31. *UmaResource1* UmaResource

Resource description

| Field Name | Required | Type | Description | Format |
|------------------|----------|--------------------------------|--|--------|
| name | | String | A human-readable string describing a set of one or more resources. This name MAY be used by the authorization server in its resource owner user interface for the resource owner. | |
| icon_uri | | String | A URI for a graphic icon representing the resource set. The referenced icon MAY be used by the authorization server in its resource owner user interface for the resource owner. | |
| type | | String | A string uniquely identifying the semantics of the resource set. For example, if the resource set consists of a single resource that is an identity claim that leverages standardized claim semantics for “verified email address”, the value of this property could be an identifying URI for this claim. | |
| resource_scopes | X | List of string | An array of strings, any of which MAY be a URI, indicating the available scopes for this resource set. URIs MUST resolve to scope descriptions as defined in Section 2.1. Published scope descriptions MAY reside anywhere on the web; a resource server is not required to self-host scope descriptions and may wish to point to standardized scope descriptions residing elsewhere. It is the resource server's responsibility to ensure that scope description documents are accessible to authorization servers through GET calls to support any user interface requirements. The resource server and authorization server are presumed to have separately negotiated any required interpretation of scope handling not conveyed through scope descriptions. | |
| scope_expression | | String | | |

| Field Name | Required | Type | Description | Format |
|-------------|----------|--------|---|--------|
| description | | String | A human-readable string describing the resource | |
| iat | | Long | number of seconds since January 1 1970 UTC, indicating when the token was issued at | int64 |
| exp | | Long | number of seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |

3.2.32. *UmaResourceResponse*

UmaResourceResponse Resource created.

| Field Name | Required | Type | Description | Format |
|------------------------|----------|--------|-------------------------|--------|
| _id | X | String | UMA Resource identifier | |
| user_access_policy_uri | | String | | |

3.2.33. *UmaResourceWithId*

Uma Resource details

| Field Name | Required | Type | Description | Format |
|------------|----------|--------|---|--------|
| _id | X | String | UMA Resource identifier | |
| name | | String | A human-readable string describing a set of one or more resources. This name MAY be used by the authorization server in its resource owner user interface for the resource owner. | |
| uri | | String | A human-readable string describing the resource | |

| Field Name | Required | Type | Description | Format |
|------------------|----------|--------------------------------|--|--------|
| type | | String | A string uniquely identifying the semantics of the resource set. For example, if the resource set consists of a single resource that is an identity claim that leverages standardized claim semantics for “verified email address”, the value of this property could be an identifying URI for this claim. | |
| scopes | | List of string | An array of strings, any of which MAY be a URI, indicating the available scopes for this resource set. URIs MUST resolve to scope descriptions as defined in Section 2.1. Published scope descriptions MAY reside anywhere on the web; a resource server is not required to self-host scope descriptions and may wish to point to standardized scope descriptions residing elsewhere. It is the resource server's responsibility to ensure that scope description documents are accessible to authorization servers through GET calls to support any user interface requirements. The resource server and authorization server are presumed to have separately negotiated any required interpretation of scope handling not conveyed through scope descriptions. | |
| scope_expression | | String | | |
| description | | String | A human-readable string describing the resource | |
| icon_uri | | String | A URI for a graphic icon representing the resource set. The referenced icon MAY be used by the authorization server in its resource owner user interface for the resource owner. | |
| iat | X | Long | number of seconds since January 1 1970 UTC, indicating when the token was issued at | int64 |

| Field Name | Required | Type | Description | Format |
|------------|----------|------|---|--------|
| exp | X | Long | number of seconds since January 1 1970 UTC, indicating when this token will expire. | int64 |

3.2.34. *WebKeysConfiguration*

JSON Web Key Set (JWKS) - A JSON object that represents a set of JWKs. The JSON object MUST have a keys member, which is an array of JWKs.

| Field Name | Required | Type | Description | Format |
|------------|----------|------------------------------------|---|--------|
| keys | X | List of JsonWebKey | List of JSON Web Key (JWK) - A JSON object that represents a cryptographic key. The members of the object represent properties of the key, including its value. | |

3.2.35. *CustomUserAttributes*

Defines custom user attributes that are used to expand the default gluuPerson objectclass, by using the gluuCustomPerson objectclass

| Field Name | Required | Type | Description | Format |
|------------|----------|---------|--|--------|
| isOperator | - | Boolean | Flag that signals if a registered user is an operator. | |

<< End of Document >>