

# OMPASS

## REST API - U2F

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**What is U2F?**

Universal 2nd Factor (U2F), which is also known as Two-Factor Authentication (2FA), is an authentication method that allows final login through OMPASS secondary authentication after password authentication is completed.

**Preparation**

Please check the secret key first from "Edit" that is automatically assigned when registering the application from "App Management".

**Please note that security problems may occur if the secret key is exposed to others, so make sure to be private.**

**Process for Applying OMPASS**

**OMPASS-U2F**

From the server-side

Once verifying user ID and password is completed from the server-side, call OMPASS API including the secret key in "HTTP HEADER" and the user ID in "Request Body".

## OMPASS Registration & Authentication API

**Header**

Key	Type	Description
Authorization	Bearer	- Secret Key assigned to the application - "Bearer" is required to be specified as the authorization type, and a space is required between "Bearer" and "Secret Key" Example : Bearer djfk39dkfdl39ldlmgjd4dls83flghidhs83fk

**Request Body (JSON)**

Key	Type	Description
user_id	String	User ID
lang_init	String	English (EN) as an initial language setting value of OMPASS URI to receive a response

**Example of Request Body**

```
{
  "user_id": "omsecurity",
  "lang_init": "KR"
}
```

**Process for Applying OMPASS**

**OMPASS-U2F**

From the server-side

Once verifying user ID and password is completed from the server-side, call OMPASS API including the secret key in "HTTP HEADER" and the user ID in "Request Body".

## OMPASS Registration & U2F Authentication

**Header**

Key	Type	Description
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**Request Body (JSON)**

Key	Type	Description
user_id	String	User ID
access_token	String	The access token received as a redirect URI

**Example of Request Body**

```
{
  "user_id": "omsecurity",
  "access_token": "dj2ld92ldj29clld29lduuufnbsd29312000df2ldiozo019029dj10w"
}
```

**Redirect Access Token**

The browser from client-side calls OMPASS URI that is received a response.

Example of registration interface call in pop-up window

- In case the user is not registered in OMPASS, the following pop-up window will be displayed.

**Login Settings**

## OMPASS Registration & U2F Authentication

**Header**

Key	Type	Description
Authorization	Bearer	- Secret Key assigned to the application - "Bearer" is required to be specified as the authorization type, and a space is required between "Bearer" and "Secret Key" Example : Bearer djfk39dkfdl39ldlmgjd4dls83flghidhs83fk

**Request Body (JSON)**

Key	Type	Description
user_id	String	User ID
lang_init	String	English (EN) as an initial language setting value of OMPASS URI to receive a response

**Example of Request Body**

```
{
  "user_id": "omsecurity",
  "lang_init": "KR"
}
```

**Validate Access Token**

The server will validate the token by calling the token validation API for OMPASS authentication

- In case the user is not registered in OMPASS, the following pop-up window will be displayed.

**OMPASS Success Token Validation API**

**Header**

Key	Type	Description
Authorization	Bearer	- Secret Key assigned to the application - "Bearer" is required to be specified as the authorization type, and a space is required between "Bearer" and "Secret Key" Example : Bearer djfk39dkfdl39ldlmgjd4dls83flghidhs83fk

**Request Body (JSON)**

Key	Type	Description
user_id	String	User ID
register	Boolean	True or false about the registration status in OMPASS
ompass_uri	String	A URI of the registration page in case the user is not registered yet in OMPASS A URI of the authentication page in case the user is already registered in OMPASS

**Example of Request Body**

```
{
  "user_id": "omsecurity",
  "register": false,
  "ompass_uri": "https://interface-api.ompasscloud.com/register/did/147do..."
}
```

**API Error Messages**

code	message
000	Required Request Body is missing.
001	Please make a request including the secret key.
002	Please make a request including the user ID.
003	Please make a request including the access token.
004	Invalid secret key.
005	The secret key format does not match. example) Bearer dj239d2ld29kmdf139f2ds
006	User ID cannot exceed 30 digits.
011	The token has expired.
012	It is a token of an unsupported format.
013	The token is not configured correctly.
014	Failed to verify the existing signature.