

## 4.1 Authorization Service

Authorization functionality within SSO is **moved to dedicated service (OIDC)**.

All the following tasks should be performed through direct communication with OIDC and received token should be just used in all APIs of BIM+.

Old Bim+ tokens are simulated only for backward compatibility until 2026, high performance should not be awaited using them.

### Authorization Service

---

- [Authorizes a user and returns a token for further API calls](#)
- [Get token information](#)
- [Request a cross token](#)
- [Cross authenticate by using cross token](#)
- [Revoke / Terminate the token](#)
- [Authorize a user and get "remember me" token](#)
- [Login with "remember me" token](#)

### Authorization Service

---

**Obsolete.** Tokens should be received from OIDC.

Authorizes a user and returns a BIMPlus-token for further API calls

#### URL / Resource / JSON Structure

**Resource:** authorize

**URL:** <https://api-stage.bimplus.net/v2/authorize>

#### JSON Structure:

Name	Mandatory / Optional	Type	Description
user_id	mandatory	string	The email address of the user
password	mandatory	string	The user's password
client_id	optional	string	The identifier of the used client
application_id	mandatory	string	The id of the application  Application ID is mandatory on Bimplus API on Dev, Stage and Prod since 19.10.2017. To get your application id the contact Bimplus development team
remember_me	optional	bool	Option for saving the user's credentials

#### HTTP Method

POST

#### Description

Authorizes a user and returns a BIMPlus-token for further API calls. These tokens are supported only for backward compatibility only and API will be removed in 2026.

Please, use the client\_id from the request and regenerate the token (using the same API call with client\_id as the additional parameter) for having the possibility to login multiple times at the same time. For more information, see [here](#)

Response for the token validity is in seconds, means the token validity is 2 hours by default and remember me token 4 weeks resp. 28,9 days exactly.

#### Request

Headers
Content-Type: application/json

## JSON

```
{
  "user_id" : "test@bimplus.net",
  "password" : "test" ,
  "application_id" : "6C12345D9B0C4F3C23ABB5721D098F7B"
}
```

## Response

### Status

Status: 200 OK

## JSON

```
{
  "access_token": "9c1874a62c974dcfa75e0132c423a088",
  "expires_in": 2591999,
  "client_id": "9fd0bb9d-570b-4719-bfae-93e2f879c19a",
  "token_type": "BimPlus"
}
```

**Obsolete.** Tokens should be managed by OIDC.

Get token information

## URL / Resource / JSON Structure

**Resource:** authorize

**URL:** <https://api-stage.bimplus.net/v2/authorize>

## HTTP Method

GET

## Description

Get information about a specified token(if the specified token exists and not expired).

These tokens are supported only for backward compatibility only and API will be removed in 2025.

## Request

### Headers

Content-Type: application/json

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088

## Response

### Status

Status: 200 OK

## JSON

```
{
  "user_id": "b37b60d4-0f1b-4158-99c4-847254786517",
  "audience": "00000000-0000-0000-0000-000000000000",
  "expires_in": 2271650
}
```

where,

Name	Type	Description
user_id	string	The unique user id to be used for any further API calls.
expires_in	string	The remaining lifetime on the access token in seconds
audience	string	In our case the id of the client (Mobile app, Browser ...)

**Obsolete.** This type of tokens will not be supported.

Request a cross token

### URL / Resource / JSON Structure

**Resource:** cross-token

**URL:** <https://api-stage.bimplus.net/v2/cross-token>

### HTTP Method

POST

### Description

This service is basically used for requesting a disposable temporary token which will be used for authenticating against different clients. Based on the given authentication token the user is identified and a one time token is generated and returned.

These tokens are supported only for backward compatibility only and API will be removed in 2025.

### Request

#### Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088  
Content-Type: application/json

### Response

#### Status

Status: 200 OK

## JSON

```
{
  cross_token: "b392cee4d0044ef681fa911772668cf9"
  expires_in: 299
  token_type: "BimPlus"
}
```

where,

Name	Type	Description
cross_token	string	The temporary token which will be used for cross-authenticate
expires_in	string	The remaining lifetime on the access token in seconds
token_type	string	Type of the token which will be used as part of the header

**Obsolete.** Cross Authenticate by using cross token. Will be removed.

#### URL / Resource / JSON Structure

**Resource:** cross-authorize

**URL:** <https://api-stage.bimplus.net/v2/cross-authorize>

#### JSON Structure:

Name	Mandatory / Optional	Type	Description
cross_token	mandatory	string	The temporary token which will be used for cross-authenticate
client_id	optional	string	The identifier of the used client
application_id	mandatory	string	The id of the application

#### HTTP Method

POST

#### Description

**Obsolete.** Will be removed.

Based on the one time cross token, the user will be identified and logged in to the given device/client. The one time cross token will be removed but the new token which will be generated as a result of this call be used in the header for the subsequent API calls.

The team\_id and project\_id information can be provided as part of the call, if the user wants to work on or display(viewer) a particular team or an project.

#### Request

##### Headers

Content-Type: application/json

##### JSON

```
{
  "cross_token": "b392cee4d0044ef681fa911772668cf9"
}
```

#### Response

##### Status

Status: 200 OK

## JSON

```
{
  "access_token": "43796fab76d54d2c9cb9120fd7d79c9e",
  "expires_in": 2591999,
  "client_id": "9fd0bb9d-570b-4719-bfae-93e2f879c19a",
  "token_type": "BimPlus"
}
```

Revoke / Expire the token

### URL / Resource / JSON Structure

**Resource:** authorize

**URL:** <https://api-stage.bimplus.net/v2/authorize>

### HTTP Method

DELETE

### Description

Current date/time is set to be the oldest time for any tokens for this user. So, user should re-request new token from OIDC.

### Request

#### Headers

Content-Type: application/json

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088

### Response

#### Status

Status: 200 OK

**Obsolete.** Tokens should be refreshed with OIDC.

Authorize a user and get "remember me" token.

User is still logged on to other services. For real logout, call logout function of OIDC.

### URL / Resource / JSON Structure

**Resource:** authorize

**URL:** <https://api-stage.bimplus.net/v2/authorize>

### JSON Structure:

Name	Mandatory / Optional	Type	Description
user_id	mandatory	string	The email address of the user
password	mandatory	string	The user's password
client_id	optional	string	The identifier of the used client
application_id	optional	string	The id of the application

remember_me	mandatory	bool	Set it to true
-------------	-----------	------	----------------

## HTTP Method

POST

## Description

Once the "remember\_me" parameter is set to true, we will get 2 extra parameters in the json response (i.e remember\_me\_token & remember\_me\_expires\_in) The remember\_me\_expires\_in value will be set to 30 days. The client have to save the client\_id & remember\_me\_token in their localStorage, cookie etc. So, for next authentication, they have to use this token as seen in the request json tab. By this way, if this set it is not necessary for the user to enter their credentials every time (i.e the credentials are not required to generate the auth token. Rather the remember\_me\_token will generate the auth token each time)

Returns a BIMPlus-token for further API calls. These tokens are supported only for backward compatibility only and API will be removed in 2026.

## Request

### Headers

Content-Type: application/json

### JSON

```
{
  "user_id" : "test@bimplus.net",
  "password" : "test",
  "remember_me" : "true",
  "application_id": "0106c8baad467c08e26f026852cb7525",
  "client_id": "0864b512-1776-4a55-8ee5-2b19d7d9b7ea"
}
```

## Response

### Status

Status: 200 OK

### JSON

```
{
  "access_token": "35eb2b5e94b54d5aafa6b6a7b6e8de01",
  "expires_in": 28799,
  "application_id": "0106c8baad467c08e26f026852cb7525",
  "client_id": "0864b512-1776-4a55-8ee5-2b19d7d9b7ea",
  "remember_me": true,
  "remember_me_token": "b930e0179baf4f919caeab28328190a3",
  "remember_me_expires_in" : 2591999
}
```

**Obsolete.** Tokens should be received from OIDC.

Get "remember me" token

URL / Resource / JSON Structure

Resource: authorize

URL: <https://api-stage.bimplus.net/v2/authorize>

JSON Structure:

Name	Mandatory / Optional	Type	Description
remember_me	mandatory	bool	Set it to true
remember_me_token	mandatory	string	The "remember me" token
client_id	mandatory	string	The identifier of the used client
application_id	optional	string	The id of the application

HTTP Method

POST

Description

It is not necessary for the user to enter the credentials each time. Instead, do it only if required, together with requesting the "remember me" token, and than use this remember token to generate the authentication token each time.

Returns a BIMPlus-token for further API calls. These tokens are supported only for backward compatibility only and API will be removed in 2026.

Request

Headers

Content-Type: application/json

JSON

```
{
  "remember_me" : "true",
  "remeber_me_token": "b930e0179baf4f919caeab28328190a3",
  "application_id": "0106c8baad467c08e26f026852cb7525",
  "client_id": "0864b512-1776-4a55-8ee5-2b19d7d9b7ea",
}
```

Response

Status

Status: 200 OK

JSON

```
{
  "access_token" : "e3a212b8f70e4b85b0ed826de7f775f6",
  "expires_in" : 28799,
  "application_id": "0106c8baad467c08e26f026852cb7525",
  "client_id": "0864b512-1776-4a55-8ee5-2b19d7d9b7ea",
  "token_type": "BimPlus"
}
```