

Chapter 5

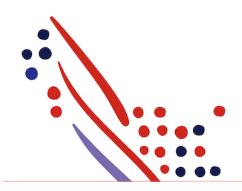
Exchange Authorization Code for Access Token

from Single Sign-On Integration (SSO) Guide

Published on Jun 14, 2021 10:54AM

Last modified Feb 17, 2022 10:40AM





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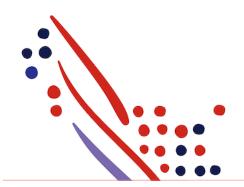
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The response to your authentication request includes a code parameter, a one-time authorization code that your server can exchange for an access token. Your server makes this exchange by sending an HTTPS POST request. The POST request is sent to the token endpoint.

The request must include the following body within the POST request for the ADP access token:

Header	Query Parameter	Description
	grant_type	REQUIRED. The grant_type parameter must be set to the value "authorization_code".
	code	REQUIRED. The code parameter must be set to the value returned by the ADP Authorization Service in the authorization response.
	redirect_uri	REQUIRED. The redirect_uri parameter must be set to value provided during the registration of the consumer application. This value must be provided in URL encoded format and use the HTTPS protocol.
client_id		REQUIRED. The client_id parameter is the consumer application's account identifier. In general, the consumer application should use the HTTP Authorization header to pass the client_id and the client_secret parameters via Basic Authentication.
client_secret		REQUIRED. The client_secret parameter is the consumer application's account secret. In general, the consumer application should use the HTTP Authorization header to pass the client_id and the client_secret parameters via Basic Authentication.

Your consumer application must send the request with the X.509 certificate provided during registration.

In general, your consumer application should provide the authentication credentials using the HTTP Basic authentication scheme (or other designated scheme) and provide the HTTP Authorization header in the access token request. The consumer application's clientid and client secret must be provided as required by IETF RFC 2617 - the string: encoded in base 64 where clientid and client secret are the values assigned to the consumer application during registration (or secret reset).

Your consumer application must pass all parameters in an URL encoded format with UTF-8 character encoding as specified by the HTTP header:

Content-Type: application/x-www-form-urlencoded

The actual request might look like the following example

(line breaks and spaces added for readability):

POST /auth/oauth/v2/token HTTP/1.1
Headers: Host: accounts.adp.com
 Authorization: Basic QURQVGFibGV0OnRoZXRhYmxldHBhc3N3b3Jk
 Content-Type: application/x-www-form-urlencoded

Body: code=d7289a844107481dbf6a6555de2052e2
 &redirect_uri=https%3A%2F%2Fconsumerapp%2E&com%2Fcallback
 &grant_type=authorization_code

A successful response to this request contains the following fields in a JSON array:

Parameter	Description
access_token	The access_token parameter is set to the value of the access token issued by the ADP authorization service in exchange for the authorization

	code.
token_type	Identifies the type of token returned. At this time, this field always has the value Bearer.
expires_in	The expires in parameter is set to the time remaining in the token's life (in seconds). For example, the value "3600" indicates that the access token will expire in one hour.
id_token	A JWT that contains identity information about the user that is digitally signed by ADP.

```
{
    "access_token": "314ec73f-7eb5-4eff-b0d6-6fc2d5508f65"
    "token_type": "Bearer"
    "expires_in": 3600
    "refresh_token": ""
    "scope": "openid"
    "id_token": "eyjloeXAiOijKV1QiLCJhbGciOiJlUzl1NiJ9.ewoglnN1Yil6lCJodHRwczovL2FjY291bnRzLmFkcC5jb20vdXNlci9HM1haQUpZSFhFVjZESDFOL0czQjcyQjgxSEdZM0VZ
    "id_token_type": "urm:ietf:params:oauth:grant-type:jwt-bearer"
}
```