

Dell OAuth2.0

Technical Specification Guide

May 08, 2019

Contents

1 Overview	3
2 Prerequisite	3
2.1 Client_ID & Client_Secret	3
2.2 Grant Type	. 3
2.3 Access Token URL	3
3 Consume API Endpoint using Postman v 7.1.1 & above	4
3.1 Get Access token for the Resource (API)	4
3.2 Postman Tutorial	4
4 Consume API Endpoint using SoapUI v 5.5.0 & above	6
4.1 SoapUI Tutorial	. 6
4.2 Token Refresh	8
5 Error Codes	ç
6 Sequence Diagram	ç

Revision History

Date	Rev	Scop	oe of Changes	Author
June 20, 2019	1.0	Initial Release Version	on	Nidhi Arora
Jan 01, 2020	1.1	Section 2.3: Included Sandbox endpoints Section 4: SOAPUI5.5.0 has now OAuth2.0 available for both POST & GET Methods (snippets included)		
Sep 02, 2020	1.2	Section 4.2: Inclusion of Note to cache token for 3600 seconds to make multiple warranty endpoint(s) calls Nidhi Arora		

1 Overview

OAuth is an authorization method to provide access to resources over the HTTP protocol. It can be used for authorization of various applications or manual user access.

The general way it works is allowing an application to have an access token (which represents a user's permission for the client to access their data) which it can use to authenticate a request to an API endpoint.

2 Prerequisite

2.1 Client ID & Client Secret

User has retrieved "client_id" and client_secret" from TechDirect API portal - https://techdirect.dell.com/portal.30/Login.aspx

Note: API Key = Client ID

2.2 Grant Type

grant_type: Client Credentials (client_credentials)

2.3 Access Token URL

Production Endpoint: https://apigtwb2c.us.dell.com/auth/oauth/v2/token Sandbox Endpoint: https://apigtwb2cnp.us.dell.com/auth/oauth/v2/token

Note:

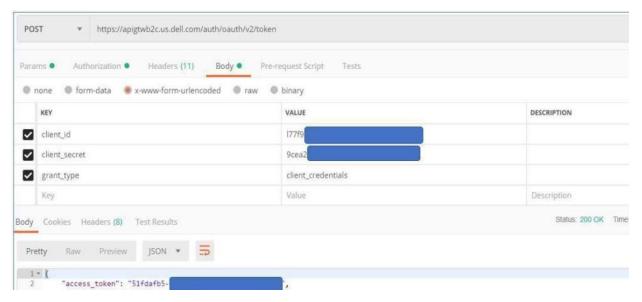
- o Warranty API there is no Sandbox or Test endpoint. Hence use Production endpoint
- o If you are testing Self-Dispatch, Technical Support Requests, getcaselite or searchcaselite then use sandbox endpoint

3 Consume API Endpoint using Postman v 7.1.1 & above

3.1 Get Access token for the Resource (API)

When application is consuming API without user context, you could use the Grant Type as Client Credentials

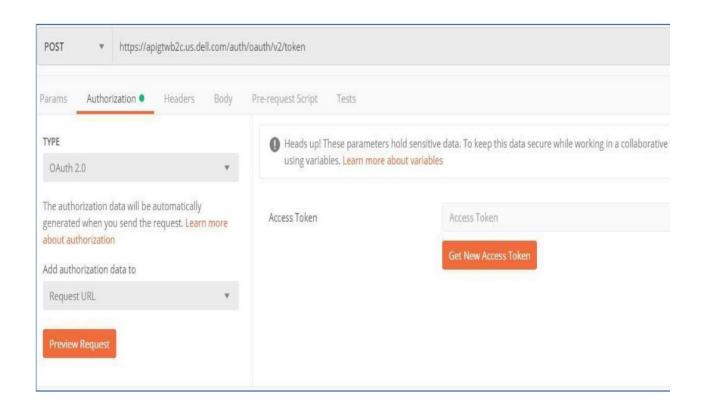
Content-Type = application/x-www-form-urlencoded

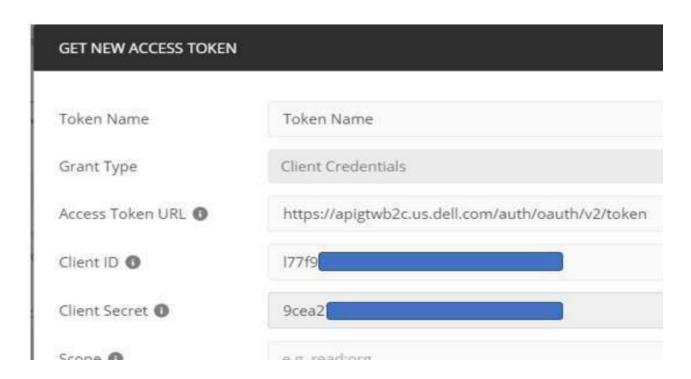


By default, access token is valid only for 1 hour. If you are looking to invoke resource for more than one hour without asking user to enter credentials, then you could use refresh token to get the new access token.

3.2 Postman Tutorial

- 1. Select Authorization Type as "OAuth 2.0"
- 2. Click "Get New Access Token"
- 3. Grant Type client_credentials
- 4. Access Token URL Refer Section 2.3
- 5. Client ID Use your private Client Id received from Dell EMC TechDirect API team
- 6. Client Secret Use your private Client Secret received from Dell EMC TechDirect API team

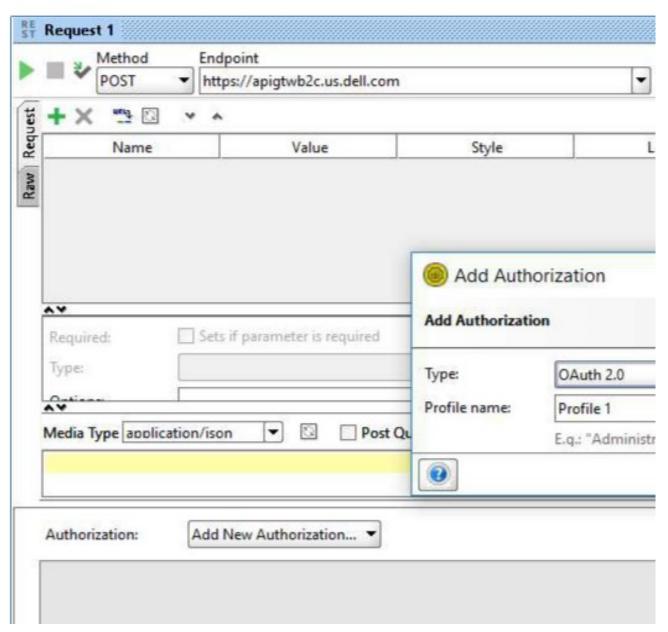




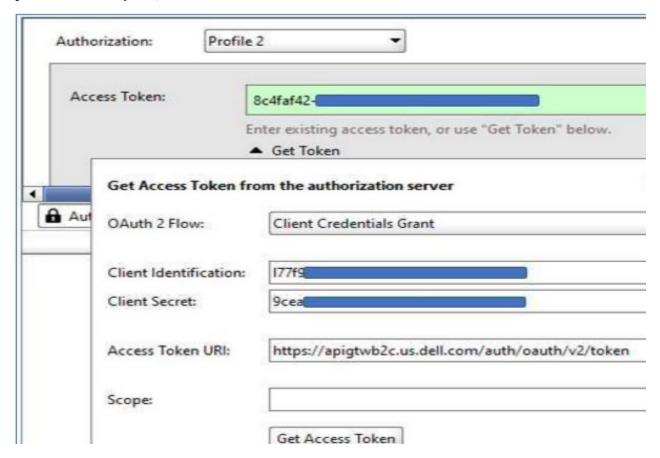
4 Consume API Endpoint using SoapUI v 5.5.0 & above

4.1 SoapUl Tutorial

- 1. Under Auth Tab Select "Add New Authorization"
- 2. Select Type OAuth 2.0
- 3. Click on "Get Token"
- 4. OAuth 2 Flow Client Credentials Grant
- 5. Access Token URL Refer Section 2.3
- 6. Client ID Use your private Client Id received from Dell EMC TechDirect API team
- 7. Client Secret Use your private Client Secret received from Dell EMC TechDirect API team



SoapUI will get the access token from server and display it in the Access Token field. When you send the request, the token will be attached to it to authorize with the service

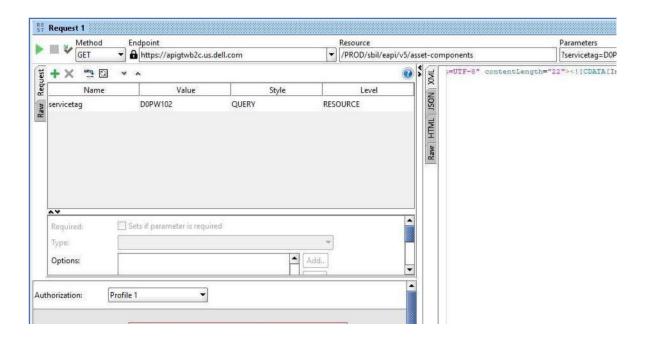


4.2 Get Access Token

Bearer Token generated shall be valid for 3600 seconds and require generating New Access after the stipulated time. You will receive "Invalid Authentication" error message after the Bearer Token is expired

NOTE: This token is valid for 3600 seconds (60 mins) and this Bearer Token should be cached for multiple calls. With OAuth 2.0, new API calls made prior to that 60 min token expiration are to use the same (cached) Bearer token number.

Implementation of bearer token caching prevents impact on customer throughput, backend resource usage and overall API performance



Using the same Client ID and Client Secret - Click on "Get Access Token" to retrieve new token



5 Error Codes

ERROR CODE	DESCRIPTION	SOLUTION
200	Successful Service/API Call	Tr.
×	* Missing/Invalid OAuth2.0 token request	* Kindly review to use correct Client ID
	parameters	& Client Secret and OAuth2.0
	* Refresh token expired	endpoint/URL
	* Invalid request to backend service (B2B,	* Refer to section 4.2
400 (Bad Request)	Core Gateway)	* Email to APIs_TechDirect@Dell.com
		Use only OAuth2.0 as Authorization
401 (Unauthorized)	Invalid authentication	type
500 (Internal Server		* Try again later
Error)	Internal Server Error	* Email to APIs_TechDirect@Dell.com
×	1	

6 Sequence Diagram

