



# Edge Security

## OAuth - Miscellaneous

# Refreshing tokens

Refresh tokens can be used to obtain new access tokens for the original end user

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<OAuthV2 async="false" continueOnError="false" enabled="true" name="RefreshToken">
  <DisplayName>OAuth Refresh Token</DisplayName>
  <Operation>RefreshAccessToken</Operation>
  <ExpiresIn>86400000</ExpiresIn>
  <ReuseRefreshToken>true</ReuseRefreshToken>
  <GrantType>request.queryparam.grant_type</GrantType>
  <RefreshToken>request.formparam.refresh_token</RefreshToken>
  <GenerateResponse/>
</OAuthV2>
```

```
curl -v -u "vn0zG4cnSWaWizdwBZgnREI1NGORDXXz:uZt7LeDbq7vX90NP"
-d "grant_type=refresh_token&refresh_token=LRYvVXXgWwbuEZivoe8XvZE2WPdzX9fp"
"http://myorg-test.apigee.net/v1/oauth/refresh_accesstoken"
```

# Invalidating access and refresh tokens

Access and refresh tokens can be invalidated via policies

“cascade=true” propagates invalidation to all related access and refresh tokens

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<OAuthV2 async="false" continueOnError="false" enabled="true" name="InvalidateToken">
  <DisplayName>OAuth Invalidate Token</DisplayName>
  <Operation>InvalidateToken</Operation>
  <Tokens>
    <Token type="accesstoken" cascade="true">request.queryparam.access_token</Token>
    <Token type="refresh_token" cascade="true">request.queryparam.refresh_token</Token>
  </Tokens>
</OAuthV2>
```

# Access token attributes

Access/refresh tokens and authorization codes can contain attributes

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<OAuthV2 async="false" continueOnError="false" enabled="true" name="oauth-generate-token">
  <DisplayName>OAuth Generate Token</DisplayName>
  <Operation>GenerateAccessToken</Operation>
  <ExpiresIn>86400000</ExpiresIn>
  <SupportedGrantTypes>
    <GrantType>client_credentials</GrantType>
  </SupportedGrantTypes>
  <GrantType>request.queryparam.grant_type</GrantType>
  <Attributes>
    <Attribute name="attr_name1" ref="flow.variable" display="true|false">value1</
Attribute>
    <Attribute name="attr_name2" ref="flow.variable" display="true|false">value2</
Attribute>
  </Attributes>
</OAuthV2>
```

# GetOAuthV2Info to retrieve access token attributes

GetOAuthV2Info used to retrieve general info about an access token

GetOAuthV2Info is usually not needed – the OAuthV2 VerifyAccessToken operation now populates similar variables

```
<GetOAuthV2Info name="GetTokenAttributes">
  <AccessToken ref="request.queryparam.access_token"></AccessToken>
</GetOAuthV2Info>
```

## Variables

apigee.access_token	= 15VAglUc2a5-zC8AqdZ0oen1T5i
apigee.apiproduct.name	= Certification_OAuthClientCredentialsWeather
apigee.client_id	= vnc0r34onRw7aWvowuE7gnRFE1N3DRD00r
apigee.developer.app.name	= Certification_OAuthOWWeather
apigee.developer.email	= certifieddev4@apigee.com
apigee.developer.id	= dhriv-co@Q@2MG53gmo7aeEdTr
apiproxy.name	= Certification_OAuth-GetSetInfo
environment.name	= test
flow.resource.name	
oauthV2.titled	= token

# SetOAuthV2Info to set access token attributes

SetOAuthV2Info can be used to set attributes on an access token...

```
<SetOAuthV2Info name="SetOAuthV2Info">
  <AccessToken ref="request.queryparam.access_token"></AccessToken>
  <Attributes>
    <Attribute name="myAttribute1">foo</Attribute>
    <Attribute name="myAttribute2">baaz</Attribute>
  </Attributes>
</SetOAuthV2Info>
```

...which can then be retrieved by validating the token

Variables		
access_token		= 15fVAghJc2a5zGeApd17BoemR5i
accesstoken.myAttribute1		= foo
accesstoken.myAttribute2		= baaz
apigee.access_token		= 15fVAghJc2a5zGeApd17BoemR5i
apigee.apiproduct.name		= Certification OAuthClientCredentialsWeather

THANK YOU