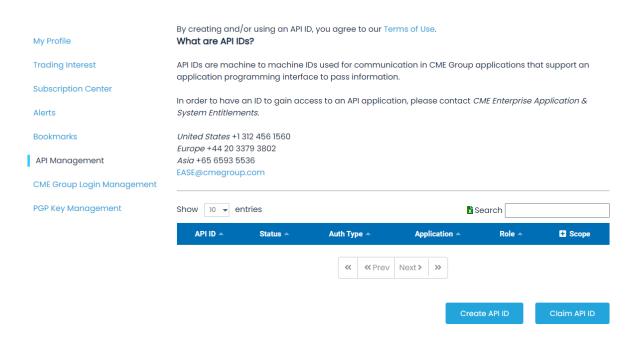
Swap Data Repository - API Creation

In the production environment, go to your Customer Center and access My Profile by opening the menu under this icon:

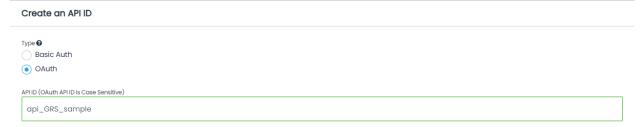


Access the "API Management" menu, and select the "Create API ID" option.

My Account 9



Select OAuth as the type, and enter an ID you would like in the API ID (it can be any alpha-numeric value, but be mindful that it is case sensitive and will need to match directly in your API call).



After clicking create, you will be given a password/secret. Please keep this value saved securely and exactly as it is displayed, this will be needed for the API call.



At this point, please email the CME team, who will take this API and grant it the proper permissions. This process is not instantaneous and may take up to a day or two. The CME team will follow up with you once the permissions are granted and effective. The first step below, generating the token, does not require these permissions and can be tested immediately upon API creation.

Swap Data Repository - API Development Details

Generate Auth Token

To generate auth token you will need API ID and Secret.

Token URL	NR: https://idpservicenr.cmegroup.com/v1/token
	PROD: https://idpservice.cmegroup.com/v1/token
Request Type	POST
Request Body	client_secret= <api_secret> client_id=<api_id></api_id></api_secret>
	grant_type=client_credentials

Curl Command

```
curl --request POST <URL>
-d 'client_secret=<API_SECRET>' \
-d 'client_id=<API_ID>' \
-d 'grant_type=client_credentials'
```

SDR WS Endpoints - Submission

Submission URL	NR: https://posttrade.api.uat.cmegroup.com/sdr/submitCSV/ <asset_class> PROD: https://posttrade.api.cmegroup.com/sdr/submitCSV/<asset_class></asset_class></asset_class>						
	Valid ASSET_CLASS VALUES: CDS, IRS, FX, EQUITY, CMDTY, COLL						
Http	REQUEST TYPE: PO	OST					
Header parameter s	Parameter Name	Value					
	Authorization	Bearer < 0Auth2 Token>					
	ActiveLEI	<lei></lei>					
	Content-Type	multipart/form-data;					

Http Response

Http Response Code	Message	Description	
200 OK	File has been submitted successfully. Processing results can be accessed using Submission Tracking ID: <submission_tracking_id></submission_tracking_id>	User will receive this message upon successful submission	
400 Bad Request	 No ActiveLEI found in request. Please resubmit request. User authentication failed No Data file found. Please resubmit request Invalid file. Only csv files are allowed. Please resubmit request Invalid Asset Class User has invalid UNO Role to upload trade data, Please contact Security Admin Support 	 When ActiveLEI is empty When Authorization token is empty or invalid When submission file is not attached to request. When submitted file is other than CSV file When Invalid Asset class used in URL When user is not authorized to submitted data for ActiveLEI mentioned in http header 	
500 INTERNAL SERVER ERROR	Error occurred while processing the request	User will receive this message when something went wrong at application side, like system error, app not able to connect to DB etc	
401 Unauthoriz ed	Invalid TokenToken Expired	Either Token is invalid or Token in expired.	

cURL Command

```
curl -k --location --request POST 'https://posttrade.api.dev.gcp.cme.com/sdr/submitCSV/EQUITY' \
--header 'Authorization: Bearer <TOKEN>' \
--header 'ActiveLEI: <LEI>' \
--form 'file=@"<FULLY_QUALIFIED_FILE_NAME>"'
```

SDR WS Endpoints - Submission Response

bmission esponse URL	NR: https://posttrade.api.uat.cmegroup.com/sdr/submissionResponse/ <request_id> PROD: https://posttrade.api.cmegroup.com/sdr/submissionResponse/<request_id></request_id></request_id>				
EURL Command	<pre>curl -klocationrequest GET 'https://posttrade.api.dev.gcp.cme.com/sdr/submissionResponse/<submission_iheader 'authorization:="" <token="" bearer="">' \header 'ActiveLEI: <lei>'</lei></submission_iheader></pre>				
Http Header parameters	REQUEST TYPE: (
	Authorization	Bearer <oauth2 token=""></oauth2>			
	ActiveLEI	<lei></lei>			
	Content-Type	text/plain			
	ActiveLEI	<lei></lei>			

Http Response Code	Message	Description
200 OK	Submission Status: <status></status>	User will receive this message upon successful retrieval
400 Bad Request	 No ActiveLEI found in request. Please resubmit request. User authentication failed No record found for Request ID: <pre></pre>	 When ActiveLEI is empty When Authorization token is empty or invalid When request tracking id is incorrect When user doesn't have access to view submission for submitted ActiveLEI
500 INTERNAL SERVER ERROR	Error occurred while processing the request	User will receive this message when something went wrong at application side, like system error, app not able to connect to DB etc
401 Unauthorized	Invalid TokenToken Expired	Either Token is invalid or Token in expired.

SDR Real Time Ticker API endpoints

Ticker endpoints are public and doesn't require any authentication

Initial Load:

DEV: https://posttrade.api.dev.gcp.cme.com/sdrticker/initial/<ASSET_CLASS>

QA: https://posttrade.api.qa.gcp.cme.com/sdrticker/initial/<ASSET_CLASS>

NR: https://posttrade.api.uat.cmegroup.com/sdrticker/initial/<ASSET_CLASS>

PROD: https://posttrade.api.cmegroup.com/sdrticker/initial/<ASSET_CLASS>

Pagination

DEV:

https://posttrade.api.dev.gcp.cme.com/sdrticker/paginated/<ASSET_CLASS>?datetime=&pagenumber=<PAGE_NUMBER>

OA:

https://posttrade.api.ga.gcp.cme.com/sdrticker/paginated/<ASSET_CLASS>?datetime=&pagenumber=<PAGE_NUMBER>

NR:

https://posttrade.api.uat.cmegroup.com/sdrticker/paginated/<ASSET_CLASS>?datetime=&pagenumber=<PAGE_NUMBER>

PROD:

https://posttrade.api.cmegroup.com/sdrticker/paginated/<ASSET_CLASS>?datetime=&pagenumber=<PAGE_NUMBER>

Auto Refresh

DEV: https://posttrade.api.dev.gcp.cme.com/sdrticker/latest/<ASSET_CLASS>?datetime=<DATE_TIME>

QA: https://posttrade.api.qa.gcp.cme.com/sdrticker/latest/<ASSET_CLASS>?datetime=<DATE_TIME>

NR: https://posttrade.api.uat.cmegroup.com/sdrticker/paginated/<ASSET_CLASS>?datetime=<DATE_TIME>

PROD: https://posttrade.api.cmegroup.com/sdrticker/paginated/<ASSET_CLASS>?datetime=<DATE_TIME>

- ASSET_CLASS=FX, IRS, CDS, CMDTY, EQUITY
- Http Request method: GET
- datatime format=YYYYMMDDHHMMSS