

**FDA**  
**Electronic Submission Gateway (ESG) NextGen**  
**API Specification**

**Application Program Interface**  
**Version 1.2**  
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## 1. Introduction

This document provides detailed specifications for submitting files and folders through Application Program Interfaces (APIs) with the Food and Drug Administration's (FDA's) Electronic Submission Gateway Next Generation (ESG NextGen) system.

### 1.1 Purpose

ESG NextGen provides new web services APIs to submit files, check submission status and retrieve acknowledgements. Companies can integrate these APIs with their systems to achieve submission and other business workflow automation. API submissions will become the replacement for AS2 submissions.

Please refer to the ESG NextGen API Guide, found [here](#) under User Guides, for additional information pertaining to submitting to ESG NextGen via API.

### 1.2 Target Audience

The ESG NextGen API Specification is intended for technical/development team members to assist them in building out the APIs for your system.

## 2. API Specifications

### 2.1 API Name: OAuth2 Token Endpoint

**Base URL:** <https://external-api-esgng.fda.gov>

**Endpoint:** /as/token.oauth2

**HTTP Method:** POST

**Description:**

This API provides an access token for client authentication using the OAuth2 client\_credentials grant type. The token allows the client to authenticate and interact with other secured endpoints on the server.

**Authentication:**

- **Grant Type:** client\_credentials
- **Scope:** openid profile

**Request Details:**

- **URL:** [https://external-api-esgng.fda.gov/as/token.oauth2?grant\\_type=client\\_credentials&scope=openid%20profile](https://external-api-esgng.fda.gov/as/token.oauth2?grant_type=client_credentials&scope=openid%20profile)
- **Method:** POST
- **Headers:**
  - Content-Type: application/x-www-form-urlencoded
- **Body (form-data):**

```
client_id=your_client_id
client_secret=your_client_secret
```

#### Request Example:

```
curl --location 'https://external-api-esgng.fda.gov/as/token.oauth2?grant_type=client_credentials&scope=openid%20profile' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'client_id= your_client_id' \
--data-urlencode 'client_secret= your_client_secret'
```

#### Response Details:

##### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

#### Response Output

```
{
  "access_token": "eyJhbGciOiJSUzI1NiIsInR5cGU6Ij...\"",
  "token_type": "Bearer",
  "expires_in": 3600,
}
```

#### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

HTTP POST on resource 'https://ssoext.prod.fda.gov/as/token.oauth2' failed: bad request (400).

- **Status Code:** 401 Unauthorized
  - **Response Body (JSON):**

#### Response Output

```
{
  "esgngcode": "ESGNG403",
  "esgngdescription": "Client ID is not associated with a valid user account.",
  "message": "Bad request"
}
```

- **Status Code:** 500 Internal Server Error

#### Response Output

```
{
  "error": "Internal server_error",
  "error_description": "An unexpected error occurred."
}
```

#### Parameters:

#### Query Parameters:

- **grant\_type:**
  - **Description:** The OAuth 2.0 grant type. In this case, it's client\_credentials.
  - **Type:** string
  - **Required:** Yes
  - **Example:** client\_credentials
- **scope:**
  - **Description:** Requested scopes of the access token. Here, the scopes are openid and profile.
  - **Type:** string
  - **Required:** Yes
  - **Example:** openid profile

---

### Body Parameters (x-www-form-urlencoded):

- **client\_id:**
  - **Description:** The client ID provided by the authorization server.
  - **Type:** string
  - **Required:** Yes
  - **Example:** your\_client\_id
- **client\_secret:**
  - **Description:** The client secret corresponding to the client ID.
  - **Type:** string
  - **Required:** Yes
  - **Example:** your\_client\_secret

### Response Codes:

- **200 OK:** The access token was successfully generated.
- **400 Bad Request:** Invalid request, possibly due to missing parameters.
- **401 Unauthorized:** Authentication failure, incorrect client ID or secret.
- **500 Internal Server Error:** Unexpected server error.

## 2.2 API Name: ESG NextGen Credential Submission API PROD Submission

**Base URL:** <https://external-api-esgng.fda.gov>

**Endpoint:** </api/esgng/v1/credentials/api>

**HTTP Method:** POST

### Description:

This API allows clients to submit credentials for a user to the FDA's ESG NextGen system. The request requires an access token for authentication and includes various details about the submission.

### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The access\_token obtained from the OAuth token endpoint.

### Request Details:

- **URL:** <https://external-api-esgng.fda.gov/api/esgng/v1/credentials/api>

- **Method:** POST
- **Headers:**
  - Authorization: Bearer {access\_token}
  - Content-Type: application/json
- **Body (JSON):**

```
{  
  "user_id": "4505",  
  "fda_center": "CBER",  
  "company_id": "5842",  
  "authorizing_company_id": "2",  
  "submission_type": "510K",  
  "submission_protocol": "API",  
  "file_count": 1,  
  "description": "this is submission version description."  
}
```

#### Request Example:

```
curl --location 'https://external-api-esgng.fda.gov/api/esgng/v1/credentials/api' \  
--header 'accesstoken: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...\' \  
--header 'Content-Type: application/json' \  
--data '{  
  "user_id": "4909",  
  "fda_center": "CBER",  
  "company_id": "5842",  
  "authorizing_company_id": "2",  
  "submission_type": "510K",  
  "submission_protocol": "API",  
  "file_count": 1,  
  "description": "Testing from Postman"  
}'
```

#### Response Details:

##### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

#### Response Output

```
{
  "core_id": "ci240911125314.86907a8a03df4427875feb2140a50bcc",
  "temp_user": "4909-ci240911125314.86907a8a03df4427875feb2140a50bcc",
  "temp_password": "eddbefca-a3d7-4b5a-805b-de0e68dd48ea",
  "esngcode": "ESGNG210",
  "esngdescription": "Core Id and Temporary Credentials generated and stored successfully."
}
```

#### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

```
{
  "esngcode": "ESGNG219",
  "esngdescription": "Invalid user, company, or center submission type. Please check request inputs and try again.",
  "message": "Bad request"
}
```

- **Status Code:** 400 Invalid token
  - **Response Body (JSON):**

#### Response Output

```
{
  "detailedDescription": "HTTP POST on resource 'http://ESGSta-MyNLB-L3p1OZLfCKpB-98584b6b2ed83b12.elb.us-gov-west-1.amazonaws.com/as/validate' failed: internal server error (500).",
}
```

```
"error": "Invalid Grant or Invalid Credentials"  
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{  
  
    "error": "Internal server_error",  
    "error_description": "An unexpected error occurred."  
}
```

#### Parameters:

##### Header Parameters:

- **Authorization:**
  - **Description:** The Bearer token obtained via the OAuth 2.0 token endpoint.
  - **Type:** string
  - **Required:** Yes
  - **Example:** Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

##### Body Parameters (JSON):

- **user\_id:**
  - **Description:** The ID of the user making the submission which can be obtained by GetCompanyInfo API call
  - **Type:** string
  - **Required:** Yes
  - **Example:** "4505"
- **fda\_center:**
  - **Description:** The FDA center associated with the submission (e.g., CBER, CDER, etc.).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "CBER"
- **company\_id:**

- **Description:** The company ID associated with the submission which can be retrieved by GetCompanyInfo API call
  - **Type:** string
  - **Required:** Yes
  - **Example:** "5842"
- **Authorizing\_company\_id:**
  - **Description:** The authorizing\_company ID associated with the submission which can be retrieved by GetCompanyInfo API call. If agent is uploading for the agent company, populate Authorizing\_company\_id with the agency company id. Otherwise, populate with the company id of the company uploading on behalf of.
  - **Type:** string
  - **Required:** Required for companies marked as an agency
  - **Example:** "2"
  
- **submission\_type:**
  - **Description:** The type of submission being made (e.g., 510K, NDA).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "510K"
- **submission\_name:**
  - **Description:** The name of the submission.
  - **Type:** string
  - **Required:** Yes
  - **Example:** "Test from Postman"
- **submission\_protocol:**
  - **Description:** The protocol used for the submission (e.g., API).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "API"
- **file\_count:**
  - **Description:** The number of files included in the submission (can only be one)
  - **Type:** integer
  - **Required:** Yes
  - **Example:** 1
- **description:**
  - **Description:** A description of the submission or submission version.
  - **Type:** string
  - **Required:** Yes

- **Example:** "Submission details"

#### Response Codes:

- **200 OK:** The submission was successful, and a submission ID is returned.
- **400 Bad Request:** Invalid input or missing required parameters.
- **401 Unauthorized:** Invalid or expired access token.
- **500 Internal Server Error:** Unexpected server-side error.

**Note: If the user is not an agency, they do not need to include the `authorizing_company_id` in the request body.**

### 2.3 API Name: ESG NextGen Credential Submission API Test Submission

**Base URL:** <https://external-api-esgng.fda.gov>

**Endpoint:** `/api/esgng/v1/credentials/api/test`

**HTTP Method:** POST

#### Description:

This API allows clients to submit credentials for a user to the FDA's ESG NextGen system. The request requires an access token for authentication and includes various details about the submission.

#### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The `access_token` obtained from the OAuth token endpoint.

#### Request Details:

- **URL:** <https://external-api-esgng.fda.gov/api/esgng/v1/credentials/api/test>
- **Method:** POST
- **Headers:**
  - Authorization: Bearer {`access_token`}
  - Content-Type: `application/json`
- **Body (JSON):**

```
{
  "user_id": "4505",
  "fda_center": "CBER",
  "company_id": "5842",
  "authorizing_company_id": "2",
  "submission_type": "510K",
  "submission_protocol": "API",
  "file_count": 1,
  "description": "this is submission version description."
}
```

#### Request Example:

```
curl --location 'https://external-api-esng.fda.gov/api/esng/v1/credentials/api/test' \
--header 'acesstoken: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...'\
--header 'Content-Type: application/json' \
--data '{
  "user_id": "4909",
  "fda_center": "CBER",
  "company_id": "5842",
  "authorizing_company_id": "2",
  "submission_type": "510K",
  "submission_protocol": "API",
  "file_count": 1,
  "description": "Testing from Postman"
}'
```

#### Response Details:

##### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

##### Response Output

```
{
  "core_id": "ci240911125314.86907a8a03df4427875feb2140a50bcc",
  "temp_user": "4909-ci240911125314.86907a8a03df4427875feb2140a50bcc",
}
```

```
"temp_password": "eddbefca-a3d7-4b5a-805b-de0e68dd48ea",  
"esgngcode": "ESGNG210",  
"esgngdescription": "Core Id and Temporary Credentials generated and stored  
successfully."  
}
```

#### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

```
{  
  "esgngcode": "ESGNG219",  
  "esgngdescription": "Invalid user, company, or center submission type. Please check  
request inputs and try again.",  
  "message": "Bad request"  
}
```

- **Status Code:** 400 Invalid token
  - **Response Body (JSON):**

#### Response Output

```
{  
  "detailedDescription": "HTTP POST on resource 'http://ESGSta-MyNLB-L3p1OZLfCKpB-  
98584b6b2ed83b12.elb.us-gov-west-1.amazonaws.com/as/validate' failed: internal server  
error (500).",  
  "error": "Invalid Grant or Invalid Credentials"  
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{  
  "error": "Internal server_error",  
  "error_description": "An unexpected error occurred."  
}
```

#### Parameters:

##### Header Parameters:

- **Authorization:**
  - **Description:** The Bearer token obtained via the OAuth 2.0 token endpoint.
  - **Type:** string
  - **Required:** Yes
  - **Example:** Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

##### Body Parameters (JSON):

- **user\_id:**
  - **Description:** The ID of the user making the submission which can be obtained by GetCompanyInfo API call
  - **Type:** string
  - **Required:** Yes
  - **Example:** "4505"
- **fda\_center:**
  - **Description:** The FDA center associated with the submission (e.g., CBER, CDER, etc.).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "CBER"
- **company\_id:**
  - **Description:** The company ID associated with the submission which can be retrieved by GetCompanyInfo API call
  - **Type:** string
  - **Required:** Yes
  - **Example:** "5842"
- **Authorizing\_company\_id:**

- **Description:** The authorizing\_company ID associated with the submission which can be retrieved by GetCompanyInfo API call. If agent is uploading for the agent company, populate Authorizing\_company\_id with the agency company id. Otherwise, populate with the company id of the company uploading on behalf of.
- **Type:** string
- **Required:** Required for companies marked as an agency
- **Example:** "2"
  
- **submission\_type:**
  - **Description:** The type of submission being made (e.g., 510K, NDA).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "510K"
- **submission\_name:**
  - **Description:** The name of the submission.
  - **Type:** string
  - **Required:** Yes
  - **Example:** "Test from Postman"
- **submission\_protocol:**
  - **Description:** The protocol used for the submission (e.g., API).
  - **Type:** string
  - **Required:** Yes
  - **Example:** "API"
- **file\_count:**
  - **Description:** The number of files included in the submission (can only be one)
  - **Type:** integer
  - **Required:** Yes
  - **Example:** 1
- **description:**
  - **Description:** A description of the submission or submission version.
  - **Type:** string
  - **Required:** Yes
  - **Example:** "Submission details"

#### Response Codes:

- **200 OK:** The submission was successful, and a submission ID is returned.
- **400 Bad Request:** Invalid input or missing required parameters.

- **401 Unauthorized:** Invalid or expired access token.
- **500 Internal Server Error:** Unexpected server-side error.

**Note: If the user is not an agency, they do not need to include the `authorizing_company_id` in the request body.**

## 2.4 API Name: ESG NextGen File Payload (No Token Required)

**Base URL:** <https://upload-api-esgng.fda.gov>  
**Endpoint:** `/rest/forms/v1/fileupload/payload`  
**HTTP Method:** GET

### Description:

This API allows clients to retrieve file Payload ID or metadata without authentication via an access token. No input parameters are required for this request.

### Authentication:

- **Type:** No authentication required for this request.

### Request Details:

- **URL:** <https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload>
- **Method:** GET
- **Headers:**
  - No authentication headers are required.
  - Content-Type: `application/json`

### Request Example:

```
curl --location 'https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload'
```

### Response Details:

#### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

### Response Output

```
{
  "data": {
    "payloadId": "6f10c466-b10a-43be-84d2-fc27cc661a28",
    "uploadFileLink": "https://upload-api-
esgng.fda.gov/rest/forms/v1/fileupload/payload/6f10c466-b10a-43be-84d2-
fc27cc661a28/file",
    "submitFormLink": "https://upload-api-
esgng.fda.gov/rest/forms/v1/fileupload/payload/6f10c466-b10a-43be-84d2-
fc27cc661a28/submit"
  }
}
```

### Error Responses:

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

### Response Output

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

### Parameters:

- No input parameters are required for this request.

**Response Codes:**

- **200 OK:** File information successfully retrieved.
- **500 Internal Server Error:** Unexpected server-side error.

## 2.5 API Name: ESG NextGen File Upload API with Payload ID (No Token Required)

**Base URL:** <https://upload-api-esgng.fda.gov>

**Endpoint:** [/rest/forms/v1/fileupload/payload/{payloadID}/file](https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/{payloadID}/file)

**HTTP Method:** POST

### Description:

This API allows clients to upload a file to the FDA's ESG NextGen system by sending a multipart/form-data request. The file is uploaded to a specific payloadID that is obtained from a previous request.

### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The access\_token obtained from the OAuth token endpoint.

### Request Details:

- **URL:** <https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/{payloadID}/file>
  - Example:  
<https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/5b5f4212-2fc1-4f63-b0e9-3ce62876dc00/file>
- **Method:** POST
- **Body (multipart/form-data):**
  - **file:** The binary file to be uploaded, specified by its file path.

### Request Example:

```
curl --location 'https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/4c2bd633-160e-4374-bd32-0f48d02b5132/file' \  
--form 'file=@"/path/to/your/file.zip"'
```



## Response Details:

### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

```
Response Output
{
  "data": {
    "status": "DRAFT",
    "message": "Draft saved successfully."
  }
}
```

### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

```
Response Output
{
  "error": {
    "code": 400,
    "message": "Total number of upload files should be less than or equal to '1'.",
    "status": "INVALID_FILE_COUNT"
  }
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

```
Response Output
```

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

#### Parameters:

##### URL Path Parameter:

- **payloadID:**
  - **Description:** The unique identifier for the payload from the previous request.
  - **Type:** string
  - **Required:** Yes
  - **Example:** 5b5f4212-2fc1-4f63-b0e9-3ce62876dc00

##### Header Parameters:

- **Authorization:**
  - **Description:** The Bearer token obtained via the OAuth 2.0 token endpoint.
  - **Type:** string
  - **Required:** Yes
  - **Example:** Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

##### Body Parameters (multipart/form-data):

- **file:**
  - **Description:** The file to be uploaded.
  - **Type:** binary
  - **Required:** Yes
  - **Example:** /path/to/your/file.zip

##### Response Codes:

- **200 OK:** File uploaded successfully, returns the file ID and payload ID.
- **400 Bad Request:** Invalid file format or missing fields.

- **500 Internal Server Error:** Unexpected server-side error.

## 2.6 API Name: ESG NextGen File Submit API

**Base URL:** <https://upload-api-esgng.fda.gov>

**Endpoint:** `/rest/forms/v1/fileupload/payload/{payloadID}/submit`

**HTTP Method:** POST

### Description:

This API allows clients to submit a payload by providing the username, temp\_password, and sha256\_checksum in the request body. No access token is required for this request.

### Authentication:

- **Type:** No access token required for this request.

### Request Details:

- **URL:**

<https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/{payloadID}/submit>

- Example:

<https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/1901965f-f2a4-4e47-84a4-f6db16c07d00/submit>

- **Method:** POST
- **Headers:**
  - Content-Type: application/json
- **Body (raw JSON):**
  - username: The temp username associated with the request.
  - password: A temporary password for authentication.
  - sha256\_checksum: The SHA-256 checksum of the payload to ensure data integrity.

### Request Example:

```
curl --location 'https://upload-api-  
esgng.fda.gov/rest/forms/v1/fileupload/payload/4c2bd633-160e-4374-bd32-  
0f48d02b5132/submit' \  
--header 'Content-Type: application/json' \  
--data '{  
  "username": "4909-ci240918122153.ec1012163cc944c2913d132e42ecd02a",  
  "password": "293dc314-219a-476a-a86e-6a64f174dfda",  
  "sha256_checksum":  
"B6630F7D0FF76F53F21B472F0D383B41A0B8A730A29282F12DB435DC390DFDEB"  
}'
```

#### Response Details:

##### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

Response Output
<pre>Response Output  {   "data": {     "message": "Successful"   } }</pre>

##### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

Response Output
-----------------

```
{
  "data": {
    "message": "Successful"
  }
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

#### Parameters:

##### URL Path Parameter:

- **payloadID:**
  - **Description:** The unique identifier for the payload to be submitted.
  - **Type:** string
  - **Required:** Yes
  - **Example:** 1901965f-f2a4-4e47-84a4-f6db16c07d00

##### Body Parameters (raw JSON):

- **username:**

- **Description:** The unique username associated with the request.
- **Type:** string
- **Required:** Yes
- **Example:** "4847-ci240812190348.7beb65f0e2f747f5beb21effa03c34ab"
- **password:**
  - **Description:** A temporary password provided for authentication.
  - **Type:** string
  - **Required:** Yes
  - **Example:** "3420c46f-872f-4d4a-95f8-ed8639e1b653"
- **sha256\_checksum:**
  - **Description:** The SHA-256 checksum of the file to verify integrity.
  - **Type:** string
  - **Required:** Yes
  - **Example:**  
"d29751f2649b32ff572b5e0a9f541ea660a50f94ff0beedfb0b692b924cc8025"

#### Response Codes:

- **200 OK:** Payload successfully submitted, returns submission ID and payload ID.
- **500 Internal Server Error:** Unexpected server-side error.

## 2.7 API Name: ESG NextGen Get Submission Status API

**Base URL:** <https://external-api-esgng.fda.gov/api/esgng/v1>

**Endpoint:** /submissions/{core\_id}

**HTTP Method:** GET

#### Description:

This API retrieves the status of a specific submission in the ESGNG system by passing a `core_id` as a query parameter. The `core_id` is a unique identifier for the submission.

#### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The `access_token` obtained from the OAuth token endpoint.

### Request Details:

- **URL:**

`https://external-api-esgng.fda.gov/api/esgng/v1/submissions/core_id}`

- Example:

`https://external-api-esgng.fda.gov/api/esgng/v1/submissions/ci240911153205.2ce77ba34c8b4d668005518f2826386c`

- **Method:** GET

- **Headers:**

- Authorization: Bearer {access\_token}
  - Content-Type: application/json

### Request Example:

```
curl --location --request GET 'https://external-api-esgng.fda.gov/api/esgng/v1/submissions/ci240911153205.2ce77ba34c8b4d668005518f2826386c' \  
--header 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...\' \  
--header 'Content-Type: application/json'
```

### Query Parameters:

- **core\_id:**

- **Description:** The unique core ID for the submission you want to check the status of.
  - **Type:** string
  - **Required:** Yes
  - **Example:** ci240911153205.2ce77ba34c8b4d668005518f2826386c

### Response Details:

### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

#### Response Output

```
{
  "core_id": "ci240911153205.2ce77ba34c8b4d668005518f2826386c",
  "status": "Submitted to Center",
  "submission_protocol": "USP",
  "esgngcode": "ESGNG270",
  "esgngdescription": "Submission status retrieved successfully."
}
```

### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

```
{
  "esgngcode": "ESGNG271",
  "esgngdescription": "Invalid Request. Please check request inputs and try again.",
  "message": "Bad request"
}
```

- **Status Code:** Fail Response
  - **Response Body (JSON):**

#### Response Output

```
{
  "detailedDescription": "HTTP POST on resource 'http://ESGSta-MyNLB-L3p1OZLfCKpB-98584b6b2ed83b12.elb.us-gov-west-1.amazonaws.com/as/validate' failed: internal server error (500).",
  "error": null
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

#### Response Codes:

- **200 OK:** Submission status retrieved successfully.
- **400 Bad Request:** The core ID is invalid or missing.
- **400 Unauthorized:** Invalid or expired access token.
- **500 Internal Server Error:** Unexpected server-side error.

## 2.8 API Name: ESG NextGen Get Companies by User Email API

**Base URL:** <https://external-api-esgng.fda.gov>

**Endpoint:** </api/esgng/v1/companies>

**HTTP Method:** GET

### Description:

This API retrieves the list of companies associated with a specific user by passing the user's email address as a query parameter. The response provides details about the companies linked to the user.

### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The `access_token` obtained from the OAuth token endpoint.

### Request Details:

- **URL:** [https://external-api-esgng.fda.gov/api/esgng/v1/companies?user\\_email={user\\_email}](https://external-api-esgng.fda.gov/api/esgng/v1/companies?user_email={user_email})
  - Example:  
[https://external-api-esgng.fda.gov/api/esgng/v1/companies?user\\_email=esg.submitter.1@fda.hhs.gov](https://external-api-esgng.fda.gov/api/esgng/v1/companies?user_email=esg.submitter.1@fda.hhs.gov)
- **Method:** GET
- **Headers:**
  - Authorization: Bearer {access\_token}
  - Content-Type: application/json

### Request Example:

```
curl --location 'https://external-api-esgng.fda.gov/api/esgng/v1/submissions/ci240918122153.ec1012163cc944c2913d132e42ecd02a' \  
--header 'accesstoken: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...'
```

### Query Parameters:

- **user\_email:**
  - **Description:** The email address of the user whose associated companies need to be retrieved.
  - **Type:** string
  - **Required:** Yes
  - **Example:** esngtest1@gmail.com

### Response Details:

#### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

#### Response Output

```
{
  "user_id": 4909,
  "user_email": "esngtest1@gmail.com",
  "company_id": 5842,
  "company_name": "Auth Shell myrtle",
  "company_status": "Approved",
  "esngcode": "ESNG390",
  "esngdescription": "Company Information retrieved successfully from ESGNG."
}
```

### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

```
{  
  "esgngcode": "ESGNG392",  
  "esgngdescription": "User is invalid, inactive, or expired.",  
  "message": "Bad request"  
}
```

- **Status Code:** 400 Fail Response
  - **Response Body (JSON):**

#### Response Output

```
{  
  "detailedDescription": "HTTP POST on resource 'http://ESGSta-MyNLB-L3p1OZLfCKpB-98584b6b2ed83b12.elb.us-gov-west-1.amazonaws.com/as/validate' failed: internal server error (500).",  
  "error": "Invalid Grant or Invalid Credentials"  
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

#### Response Codes:

- **200 OK:** Companies associated with the user were retrieved successfully.
- **400 Bad Request:** The email parameter is invalid or missing.
- **400 Fail Response:** Invalid or expired access token.
- **500 Internal Server Error:** Unexpected server-side error.

## 2.9 API Name: ESG NextGen Get Acknowledgement API

**Base URL:** <https://external-api-esgng.fda.gov>

**Endpoint:** `/api/esgng/v1/acknowledgements/{acknowledgement_id}`

**HTTP Method:** GET

#### Description:

This API retrieves the details of a specific acknowledgment based on the acknowledgment ID provided in the URL path.

### Authentication:

- **Type:** Bearer Token (OAuth 2.0)
- **Token:** The access\_token obtained from the OAuth token endpoint.

### Request Details:

- **URL:** https://external-api-esgng.fda.gov/api/esgng/v1/acknowledgements/{acknowledgement\_id}
  - Example:  
https://external-api-esgng.fda.gov/api/esgng/v1/acknowledgements/ci240828170030.0ce16ba6d3944975977c9594d0fabb74
- **Method:** GET
- **Headers:**
  - Authorization: Bearer {access\_token}
  - Content-Type: application/json

### Request Example:

```
curl --location --request GET 'https://external-api-esgng.fda.gov/api/esgng/v1/acknowledgements/ci240828170030.0ce16ba6d3944975977c9594d0fabb74' \  
--header 'acesstoken: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...'
```

### Path Parameters:

- **acknowledgement\_id:**
  - **Description:** The unique identifier for the acknowledgment you want to retrieve.
  - **Type:** string
  - **Required:** Yes
  - **Example:** ci240828170030.0ce16ba6d3944975977c9594d0fabb74

### Response Details:

#### Successful Response:

- **Status Code:** 200 OK
- **Response Body (JSON):**

### Response Output

```
{
  "core_id": "ci240828170030.0ce16ba6d3944975977c9594d0fabb74",
  "acknowledgements": [
    {
      "acknowledgement": "ACK1c",
      "status": "Upload Received",
      "message": "\n\n From: donotreply@fda.hhs.gov\n To: esgngtest1@gmail.com\n Subject: ESG Submission - ACK1 - Upload Received:\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74\n\nSubmission\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74 has been successfully received by\n ESG.\n\n Company Name: Auth Shell myrtle\n Core ID:\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74\n\tFile Type: SINGLE\n\tFile Count\n Received: 1\n\tFile Count Identified to be Received: 1\n\tTotal File Size: 2.39\n MB\n\tOrigination Date/Time: 08/28/2024 13:00:31 EDT\n\nNext Step: Submission to be\n delivered to CTP",
      "created_by": "4909",
      "created_date": "08-28-2024, 17:06:43"
    },
    {
      "acknowledgement": "ACK2",
      "status": "Submitted to Center",
      "message": "\n\n From: donotreply@fda.hhs.gov\n To: esgngtest1@gmail.com\n Subject: ESG Submission - ACK2 - Submitted to Center:\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74\n\nSubmission\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74 has been successfully submitted to\n CTP\n\n Company Name: Auth Shell myrtle\n\n\tCore ID:\n ci240828170030.0ce16ba6d3944975977c9594d0fabb74\n\tFile Type: SINGLE\n\tFile Count\n Received: 1\n\tFile Count Identified to be Received: 1\n\tTotal File Size: 2.39\n MB\n\tOrigination Date/Time: 08/28/2024 13:00:31 EDT\n\n\tCenter Receipt Date/Time:\n 08/28/2024 13:06:43 EDT\n\n\tIf the center received your submission after 4:30 PM EST,\n the official receipt date for the submission is the next government business day.\n\nNext\n Step: CTP to review submission.",
      "created_by": "4909",
```

```
"created_date": "08-28-2024, 17:06:44"  
  }  
],  
"esgngcode": "ESGNG360",  
"esgngdescription": "Retrieved all acknowledgements for the given submission."  
}
```

#### Error Responses:

- **Status Code:** 400 Bad Request
  - **Response Body (JSON):**

#### Response Output

```
{  
  "esgngcode": "ESGNG361",  
  "esgngdescription": "Invalid Request. Please check request inputs and try again.",  
  "message": "Bad request"  
}
```

- **Status Code:** Fail Response
  - **Response Body (JSON):**

#### Response Output

```
{  
  "detailedDescription": "HTTP POST on resource 'http://ESGSta-MyNLB-L3p1OZLfCKpB-98584b6b2ed83b12.elb.us-gov-west-1.amazonaws.com/as/validate' failed: internal server error (500).",  
  "error": null  
}
```

- **Status Code:** 500 Internal Server Error
  - **Response Body:**

#### Response Output

```
{
  "error": {
    "code": 500,
    "message": "Internal server error. Please contact the server administrator.",
    "status": "INTERNAL_ERROR"
  }
}
```

#### Response Codes:

- **200 OK:** Acknowledgment details retrieved successfully.
- **400 Bad Request:** The acknowledgment ID is invalid.
- **400 Unauthorized:** Invalid token.
- **500 Internal Server Error:** Unexpected server-side error.

Application Programming Interfaces

## Appendix A. List of Industry Partner APIs

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
1	<a href="https://external-api-esgng.fda.gov/as/token.oauth2?grant_type=client_credentials&amp;scope=openid%20profile">https://external-api-esgng.fda.gov/as/token.oauth2?grant_type=client_credentials&amp;scope=openid%20profile</a>	API to generate OAuth Token	POST	<p>Request Body with x-www-form-urlencoded</p> <p>Keys -- Values:                      client_secret—Secret generated from API Management                      client_id -- ID generated from API Management</p> <p><b>NOTE:</b> The values are constant which are from ICAM client credentials.</p>	<pre>{   "access_token":   "sampleTokenSUzI1NiIsImtpZCI6InNzb2tleSIsIng1   dCI6Ing4U3o5d1I1dmdjOHZZU0luLUM4cHUxRWV   VUSIsInBpLmF0bSI6IjJyMWMifQ.eyJzY29wZSI6Im   9wZW5pZCBwcm9maWxliwiYXV0aG9yaXphdGlv   bl9kZXRhaWxzIjpbXSwiY2xpZW50X2lkIjoizGNyLW   11bGVzb2Z0IiwiaXNzIjoiaHR0cHM6Ly9zc28uZmR   hLmdvdilslmF1ZCI6IkNUUF9IU3VibWlzcjcvbl9Nb   2RfREVWVX0V4dCIsImV4cCI6MTcwOTkyODkzM30.   OR4m9O2q8Us3UOGnmQbv5J3vTYVKE_kLhgvBfB   mbco5gAAOtpLQYbkNIHtuZ8e9PHd6IMMtdyD5i   7klAdUE36z7UncVAp4zaND-   xy2XixtOL5Gk0HQpwMMaBvJelWEHTUZoWWCnz   vinUs2nu0Rwm0EK86sHlcXA09KGBtOPsan_f4mh   z82yhXGcrCqOlzwdHrXvwLB__krkdj-   xpCUAiTjyJ3txdncHL6frNP93QZ431kgGfKLP3fzyv   pF-   KOHqTGsTd02pDRmEc3DjsSlbU4pNT7B2Xe9BTog }</pre>

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
					<pre>VX_Xt37_cHaziRqcb3zwitoUI3VvDAaZl2hNYnbuOikJZEhmyA", "token_type": "Bearer", "expires_in": 3600}</pre>
2	<a href="https://external-api-esgng.fda.gov/api/esgng/v1/credentials/api">https://external-api-esgng.fda.gov/api/esgng/v1/credentials/api</a>	Generate submission id and temp credentials	GET	<p>Request Body:</p> <pre>{   "user_id": "2",   "fda_center": "CBER",   "company_id": "2",   "authorizing_company_id": "2",   "submission_type": "510K",   "submission_name": "Product Name7",   "file_count": 1,   "description": "this is submission version description",   "submission_protocol": "API"</pre>	<pre>{   "core_id": "CmpAssociatesInc_2023110733023",   "temp_user": "1-CmpAssociatesInc_2023110733023",   "temp_password": "17948854-108c-4831-9000-0859c52fefc0",   "esgngcode": "ESGNG210",   "esgngdescription": "Core Id and Temporary Credentials generated and stored successfully." }</pre>

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
				<p>}</p> <p><b>Note: Please pass accesstoken in a header</b></p> <p><b>Key – Values</b></p> <p>accesstoken - {accesstoken}</p>	
3	<a href="https://external-api-esgng.fda.gov/api/esgng/v1/companies">https://external-api-esgng.fda.gov/api/esgng/v1/companies</a>	<p>Retrieve the user ID and list of companies and the associated company IDs for which a given user can create submissions</p>	GET	<p>Query Parameter:</p> <p>user_email = <a href="mailto:testagent5@test.com">testagent5@test.com</a></p> <p><b>Note: Please pass accesstoken in a header</b></p> <p><b>Key – Values</b></p> <p>accesstoken - {accesstoken}</p>	<pre>{   "user_id": 55,   "user_email":   "testagent5@test.com",   "company_id": 30,   "company_name": "Actual Agency",   "company_status": "Approved",   "authorizing_companies": [     {       "authorizing_company_id": 2,       "authorizing_company_name": "Oldio Corp"     },     {       "authorizing_company_id": 5,       "authorizing_company_name": "Fantastic Calm"     }   ] }</pre>

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
					<pre>                     }                 ],                 "esgngcode": "ESGNG390",                 "esgngdescription": "Company Information                     retrieved successfully from ESGNG."             }         </pre>
4	<a href="https://external-api-esgng.fda.gov/api/esgng/v1/submissions/{core_id}">https://external-api-esgng.fda.gov/api/esgng/v1/submissions/{core_id}</a>	Retrieve submission status for a given core id	GET	URI Paramter: {core_id} -> CmpAssociatesInc_2023110733023 <b>Note: Please pass accesstoken in a header</b> Key – Values accesstoken - {accesstoken}	<pre>                     {                         "core_id": "CmpAssociatesInc_2023110733023",                         "status": "Upload Initiated",                         "submission_protocol": "API",                         "esgngcode": "ESGNG270",                         "esgngdescription": "Submission status retrieved                             successfully."                     }                 </pre>

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
5	<a href="https://external-api-esgng.fda.gov/api/esgng/v1/acknowledgements/{core_id}">https://external-api-esgng.fda.gov/api/esgng/v1/acknowledgements/{core_id}</a>	Retrieve all ACKs information and also to have a link for ACK3 file to download.	GET	URI Paramter:  {core_id} -> CmpAssociatesInc_2023110733023  <b>Note: Please pass accesstoken in a header</b>  Key – Values  accesstoken - {accesstoken}	
6	<a href="https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload">https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload</a>	Insert payload.	GET	Do not supply a request body with this method.	<pre> {   "data" :   {     "payloadId" : "string",     "uploadFileLink" : "string",     "submitFormLink" : "string"   } }                     </pre>

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
7	<a href="https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/:payloadId/file">https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/:payloadId/file</a>	Upload one attachment at a time.	POST	Request Parameter  payloadId	{ "data" : { "status" : "string", "message" : "string" } }
8	<a href="https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/:PayloadId/submit">https://upload-api-esgng.fda.gov/rest/forms/v1/fileupload/payload/:PayloadId/submit</a>	Submit the payload.	POST	Request body:  { "username" : "string", "password" : "string", "sha256_checksum" : "string" }	{ "data" : { "message" : "string", "files" : [ { "id" : "string", "name" : "string", "size" : "string", "link" : "string" } ] }

Application Programming Interfaces

No	API Endpoint	API Description (Industry Partners)	Request Method	Request Input (Sample values)	Request Output (Sample values)
					} }