

# Third-Party Technical Onboarding Document

## Green Button Share My Data



**conEdison**



**Orange & Rockland**

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# CONTENTS

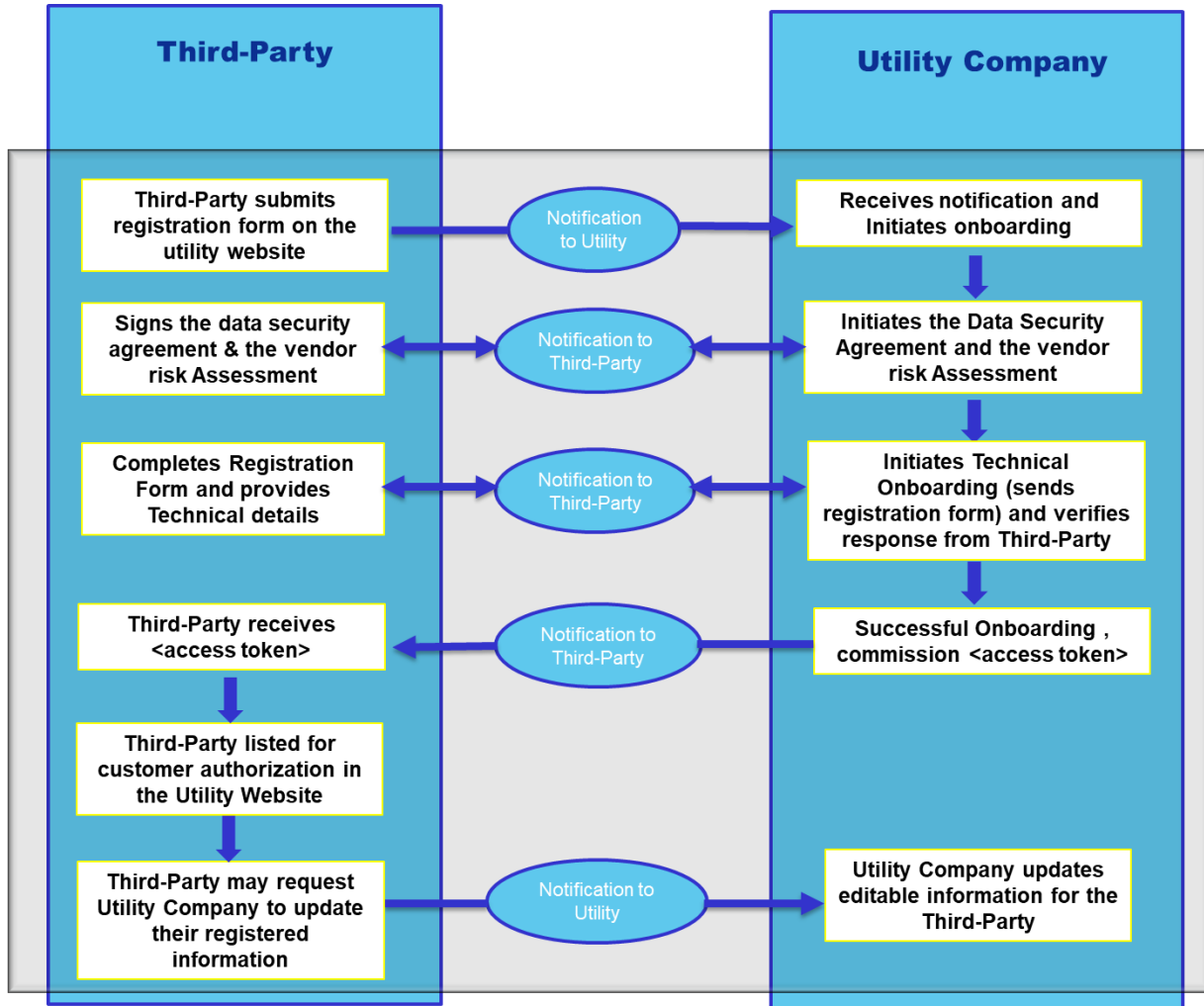
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1. Objectives.....	3
2. Third-Party Technical Onboarding Process .....	4
2.1 Third-Party website URIs required for Customer Authorization process ...	6
2.1.1 If Customer starts authorization at the Utility Company's website:.....	6
2.1.2 If Customer starts authorization at Third-Party's website: .....	14
2.1.3 Third-Party Mockup: For reference .....	15
2.1.4 Share My Data API Testing .....	15
2.2 Requirements for Batch Data Exchange (Third-Party Notify URI) .....	16
3. Post Onboarding updates .....	20
3.1 Third-Party Registration Update .....	20
3.2 Third-Party Token Generation.....	20
4. Key Responsibilities – Third Party .....	22
Appendix .....	23
Exposed Share My Data APIs .....	23

# 1. OBJECTIVES

The purpose of this document is to describe the Technical Onboarding process to be followed by a Third-Party when registering with Con Edison/O&R for the Green Button Share My Data program.

The below diagram provides a high-level overview of the process: [OBJ]



## **2. THIRD-PARTY TECHNICAL ONBOARDING PROCESS**

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Upon successful completion of the Data Security Agreement, the Con Edison GBC technical onboarding team will electronically send the Technical Onboarding welcome package to the third-party vendor. This package consists of the following:

1. GBC onboarding technical documentation
2. Registration Form
3. Endpoint Checklist (api lists)

Customer Authorization is required to call the GBC APIs. Third-Party vendors are expected to create a website at their end to process customer authorizations and store responses from GBC.

The third-party must provide all technical details to the Con Edison GBC technical onboarding team to continue with the technical onboarding process. This team is a group of dedicated technical experts for the third-party vendors to communicate any issues encountered throughout the technical onboarding process.

### **Technical Onboarding Process**

Third party vendors are required to maintain a test and production environment for GBC.

### **STAGE 1: Test environment**

The GBC onboarding process requires vendors to create a customer authorization website and perform api testing in a test environment.

#### **Phase 1: Customer Authorization Website Testing**

1. A third-party portal (i.e. website) must be set up to enable the Authorization creation process for retail customers.

2. A third-party vendor must send the Con Edison GBC technical onboarding team information about this site using [this registration form](#).
3. After the third-party supplies the registration form, the Con Edison GBC technical onboarding team will set up the third-party on the GBC Share My Data platform and provide OAuth credentials, API subscription keys and instructions via email.
4. The third-party must update their website and notify the Con Edison GBC technical onboarding team to start the customer authorization testing. (Currently third-party vendors are not allowed to access the GBC test environment. The Con Edison GBC technical onboarding team will assist in this process)
5. The third-party must notify Con Edison whenever there is a change to the registration information that was provided to Con Edison by emailing the updated registration form.
6. A third-party vendor's website must complete both information flows of customer authorization (section 3.1)
7. **NOTE:** Third-party vendors can request a mock customer authorization application code via an email to the Con Edison GBC technical onboarding team if needed.

## **Phase 2: API Testing**

1. After a successful customer authorization in phase 1, the third-party can proceed to test the Share my Data APIs.
2. Third-parties are required to send the completed status of API testing to the Con Edison GBC technical onboarding team for review.

## **STAGE 2: Production**

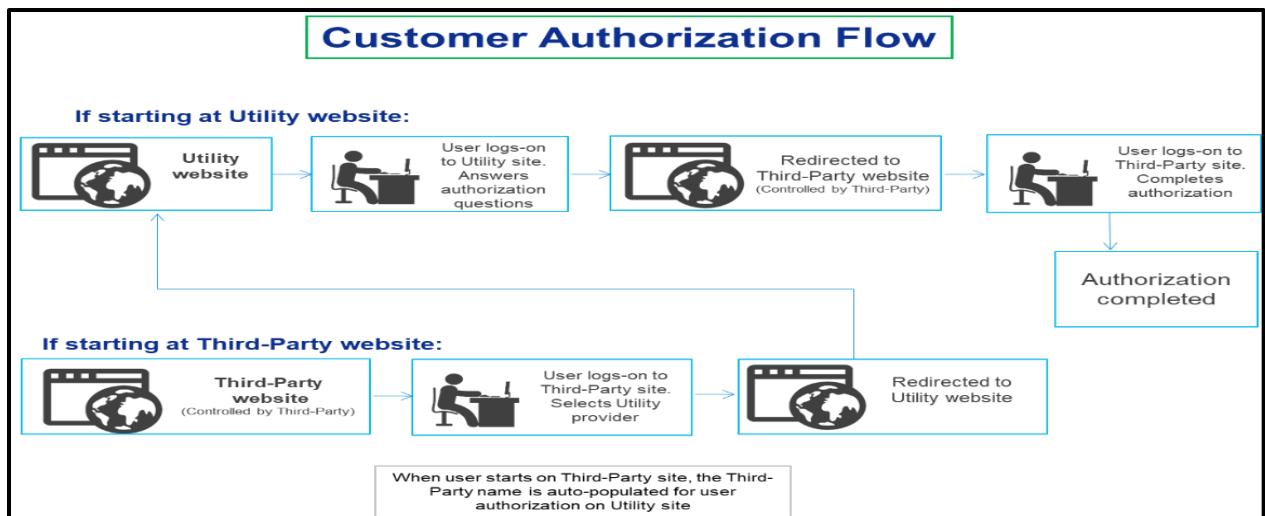
Once all testing stages have been completed, third-party vendors are ready for the production stage. To set up the production environment, steps 1-4 listed above from the Phase 1 testing phase should be repeated for production.

**NOTE:** Third-party vendors are required to fill in the registration form with the production data.

Upon completion of all the steps above, the Con Edison GBC technical onboarding team will then activate the third-party vendor in production.

## 2.1 Third-Party website URIs required for Customer Authorization process

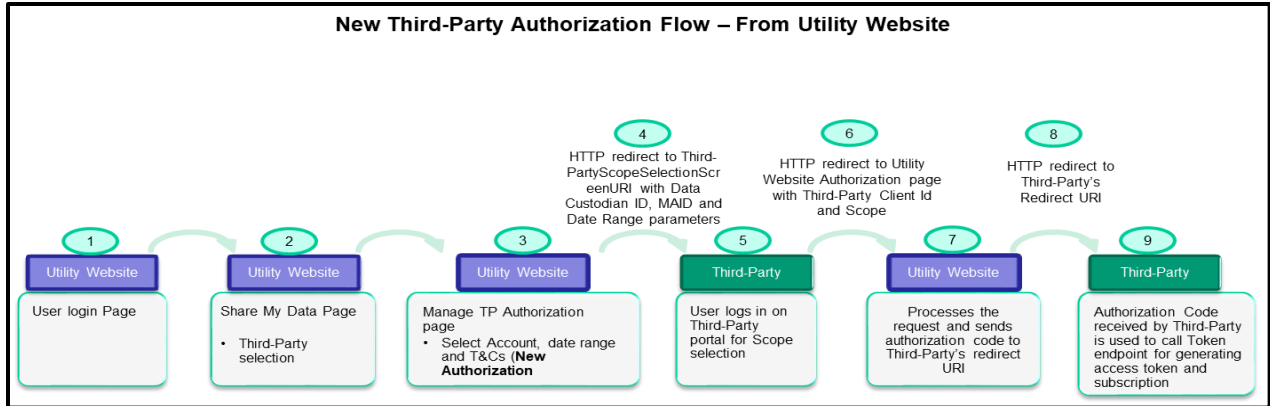
The following diagram displays the customer authorization flow.



A customer can start the authorizations of data from either the utility website or the third-party vendor's website. The flow of the information is explained in the following sections.

### 2.1.1 If Customer starts authorization at the Utility Company's website:

The following diagram outlines the steps that need to be followed when the customer authorization begins at the utility's website.



1. **Customer Login:** Customer logs into the Utility's website
2. **Third-Party Selection:** Customer navigates to the Share My Data page and selects a registered third-party to give an explicit authorization to share data.
3. **Manage Third-Party Authorization:** Customer selects an account to share data with the third-party, a date range and accepts the Terms and Conditions for authorization (the third-party's name is auto-populated as per selection in previous step)

Share this service account data

Account Number: [REDACTED]

With this third-party application

**GBC 2 Third-Party**  
GBC 2 Mock Up

How long would you like to share your date? ▼

How long would you like to share your date?

Share once (you will need to reauthorize in the future)

Share it until I revoke it

Share until a specific date

party company in accordance with the [TERMS AND CONDITIONS](#)

Submit

4. **Redirection to Third-Party:** Customer is redirected to the third-party's Scope Selection URI:

- Utility will redirect customer to Third-Party Scope Selection Screen URI
- Customer logs onto Third-Party website

**NOTE:**

- A customer's registration/ user authentication/ user authorization process will be controlled by the third-party portal
- Along with the registration details, the third-party will have to capture a customer's account type details i.e., CECONY or ORU, which will be used in the Share My Data's authorization process.

As part of this redirection, the Utility will pass the following parameters along with the scope selection screen URI:

**<<ThirdPartyScopeSelectionScreenURI>>?accountid=<<Customerselectedaccount>>&startdate=<<MM/DD/YYYY>>&enddate=<<MM/DD/YYYY>>&DataCustodianID=ConEdison**

**Note:**

- 'DataCustodianID=ConEdison' parameter is a static parameter-value pair to help the third-party identify the customer's Utility to display the appropriate scope list. DataCustodianID parameter value will be ORU for Orange and Rockland customers.

5. **Authorization Confirmation at Third-party website:** A customer can select one or more scopes from the Scope selection screen and confirm authorization in the third-party website while creating or updating the authorization.

- The scope selection screen will list all the available scope strings for a retail customer to give access to a third-party. It could be a checkbox or any preferable html tag.
- Below is a sample representation of scopes on a third-party portal.



Select Authorization Scope:

- Consumption Scope
- Billing Information Scope
- RealTime Scope
- RetailCustomer Scope

Select Company for this Authorization:

[Continue](#)

Scope Name	Scope Value
Consumption Scope	FB=1_3_4_5_7_10_13_14_18_32_33_35_37_38_41_44;IntervalDuration=Monthly_3600_900_300;BlockDuration=Monthly_Daily;HistoryLength=63113904;
Billing Scope	FB=1_3_6_10_13_14_15_16_28_32_33_35_37_38_41_44;IntervalDuration=Monthly;BlockDuration=Monthly;HistoryLength=63113904;
Real-Time Scope	FB=1_3_4_5_7_13_14_18_32_33_35_37_38_41_44;IntervalDuration=900_300;BlockDuration=Daily;HistoryLength=86400;
Retail Customer Scope	FB=1_3_13_14_46_47;

**Note:** The Share My Data system will accept ONLY the above scope strings.

- Third-Party should pass selected scopes separated by a ' | ' pipe symbol to the Utility after the customer has selected which scopes, they want to share with the third-party. For example:

```
scope= <<selected scope 1 value>> | <<selected scope 2 value>> | <<selected scope 3 value>>
```

- If a third-party does not pass the valid scope values, the authorization process will fail. The customer can select a minimum of 1 and a maximum of 4 scope strings at the third-party scope selection screen.
  - Please note the URL should be encoded.
6. **Redirect Customer back to Utility:** The third-party portal will internally invoke the Utility's siteCoreAuthorizationPageRedirectUri along with its Client ID and user selected scope string as mentioned below:

**Test Environment:**

**Utility CECONY website URL for redirection.**

Please redirect to the following in test environment:

```
https://uat10.coned.com/en/accounts-billing/dashboard/billing-andusage/share-my-data-connections/third-party-authorization/redirect?client_id=Thirdparty_CLIENT_ID_HERE&scope=FB%3D1_3_4_5_7_10_13_14_18_32_33_35_37_38_41_44%3BIntervalDuration%3DMonthly_3600_900_300%3BBlockDuration%3DMonthly_Daily%3BHistoryLength%3D63113904%3B%7CFB%3D1_3_6_10_13_14_15_16_28_32_33_35_37_38_41_44%3BIntervalDuration%3DMonthly%3BBlockDuration%3DMonthly%3BHistoryLength%3D63113904%3B%7CFB%3D1_3_4_5_7_13_14_18_32_33_35_37_38_41_44%3BIntervalDuration%3D900_300%3BBlockDuration%3DDaily%3BHistoryLength%3D86400&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXXX&startDate=MM/DD/YYYY&endDate=MM/DD/YYYY&response_type=code
```

**Utility's ORU website URL for redirection:**

```
https://uat10.oru.com/en/accounts-billing/dashboard/billing-andusage/share-my-data-connections/third-party-
```

authorization/redirect?client\_id=Thirdparty\_CLIENT\_ID\_HERE&scope=FB%3D1\_3\_4\_5\_7\_10\_13\_14\_18\_32\_33\_35\_37\_38\_41\_44%3BIntervalDuration%3DMonthly\_3600\_900\_300%3BBlockDuration%3DMonthly\_Daily%3BHistoryLength%3D63113904%3B%7CFB%3D1\_3\_6\_10\_13\_14\_15\_16\_28\_32\_33\_35\_37\_38\_41\_44%3BIntervalDuration%3DMonthly%3BBlockDuration%3DMonthly%3BHistoryLength%3D63113904%3B%7CFB%3D1\_3\_4\_5\_7\_13\_14\_18\_32\_33\_35\_37\_38\_41\_44%3BIntervalDuration%3D900\_300%3BBlockDuration%3DDaily%3BHistoryLength%3D86400&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXXX&startDate=MM/DD/YYYY&endDate=MM/DD/YYYY&response\_type=code

### **Production Environment:**

Please redirect URI to the following in production.

### **Utility's CECONY website URL for redirection:**

[https://www.coned.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization/redirect?client\\_id=<<Third-Party Client ID>>&scope=<<Scope strings selected by user separated by ' | '>>&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXX&startDate= MM/DD/YYYY&endDate= MM/DD/YYYY&response\\_type=code](https://www.coned.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization/redirect?client_id=<<Third-Party Client ID>>&scope=<<Scope strings selected by user separated by ' | '>>&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXX&startDate= MM/DD/YYYY&endDate= MM/DD/YYYY&response_type=code)

### **Utility's ORU website URL for redirection:**

[https://www.oru.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization/redirect?client\\_id=<<Third-Party Client ID>>&scope=<< Scope strings selected by user separated by ' | '>>&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXXX&startDate= MM/DD/YYYY&endDate= MM/DD/YYYY&response\\_type=code](https://www.oru.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization/redirect?client_id=<<Third-Party Client ID>>&scope=<< Scope strings selected by user separated by ' | '>>&redirectUri=http%3A%2F%2Fhost%3F323%2Fapi%2Fappinfo%2Fcallback&MAID=XXXXXXX&startDate= MM/DD/YYYY&endDate= MM/DD/YYYY&response_type=code)

**NOTE:** The third-party must provide their "Client\_Id" and customer selected scope string "scope" in the URI query parameters when to redirect to utility website. The third-party should pass the accountid parameter value in the scope selection URI as the MAID parameter value in the redirect URI.

- Authorization Code generation at Utility:** Upon receiving the above request, the Utility will generate a one-time authorization code and redirect to the Third Party's registered redirect URI.



- Access Token Generation:** The third party uses this authorization code to make a request to the Token endpoint, which will finalize the authorization process and activate the authorization record, refer to the Third-Party [Exposed APIs list](#) and sample request below.

- Request/Response for Access Token generation:**

**Request:** The third-party vendors are required to generate the Third-party User Token (i.e., Access Token) during the authorization process:

**API:** `https://apit.coned.com/gbc/v1/oauth/v1/Token`

**Body:**

```
{
  "grantType": "authorization_code",
  "clientId": "<<Third-Party Client ID>>",
  "clientSecret": "<<Third-Party Client Secret>>",
  "redirectUri": "<<Third-Party registered redirect URI>>",
  "authCode": "<< code parameter you receive in the link from coned >>"
}
```

**Header:**

Content-Type	application/json
ocp-apim-subscription-key	(retrieve from developer's portal profile)

**NOTE:** Please use <https://api.coned.com/gbc/v1/oauth/v1/Token> for the production environment.

Response:

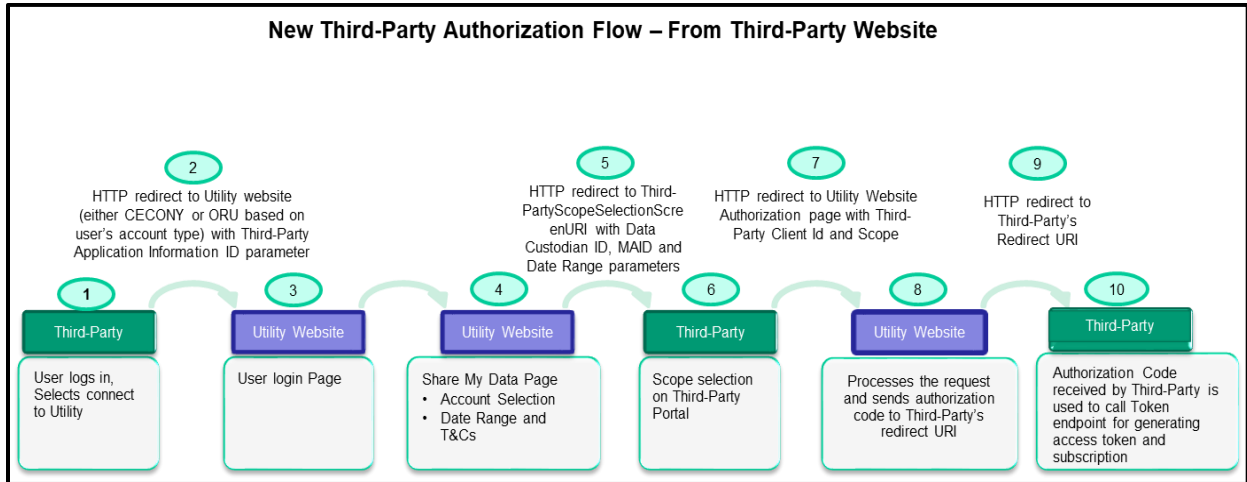
```
{
```

```
"access_token": "<<Access token for data exchange which will be valid for 1
hour from the time it is generated>>",
  "refresh_token": "<<token used to generate new access token once it is
expired>>",
  "token_type": "Bearer",
  "expires_in": 3600,
  "scope": "<<Customer selected scope string>>",
"resourceURI":
"https://api.coned.com/gbc/v1/resource/Batch/Subscription/<<subscription id
used for data exchange>>",
"authorizationURI":
https://api.coned.com/gbc/v1/resource/Authorization/<<authorization id used
for viewing or updating authorization details>>
"AccountNumber": "<<encoded customer account number.>>"
}
```

**NOTE:**

- Processing and storing the response will be controlled by the third-party.
- The access token will be active for 1 hour from the time of its creation. The Third-Party will have to invoke the token API along with the refresh token, their client credentials and scope to generate a new access token. [Refer to the below section 3.2 item number: 2 in this document for more details on how to create an access token using a refresh token.]
- Third-party should cache the access token and reuse the access token for subsequent API calls until the access token expires. Access token will be active for 1 hour.

## 2.1.2 If Customer starts authorization at Third-Party's website:



1. **Customer Login:** The customer logs into the third-party website and selects the Utility provider
2. **Select Utility:** The customer selects their Utility provider. (CECONY or ORU)

**NOTE:**

- A customer's registration/authentication/authorization process will be controlled by the Third-Party portal.
- Along with registration details, the third-party will have to capture the customer's account type details i.e., CECONY or ORU, which will be used in the Share My Data's authorization process.

3. **Redirection to Utility website:** The customer is redirected to the Utility's website.
  - As per the next step in the process, the retail customer will be redirected to the appropriate Utility's website for login once they select the Utility provider.

**NOTE:**

- The Utility has a separate website for its CECONY and ORU retail customers. Based on the retail customer's account type, the Third-Party will have to redirect the retail customer to the appropriate website. The redirection URL is mentioned below:

**Utility's CECONY website URL for customer redirection:**

<https://www.coned.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization?ThirdPartyId={applicationInformationId}>

**Utility's ORU website URL for customer redirection:**

<https://www.oru.com/accounts-billing/dashboard/billing-and-usage/share-my-data-connections/third-party-authorization?ThirdPartyId={applicationInformationId}>

\*Replace the following in **Test** environment:

- <https://uat10.coned.com>
- <https://uat10.oru.com>

"applicationInformationId" is the unique Third-Party registration ID received from the Utility post upon successful registration. A dummy value can be passed up until the third-party receives the registrationID.

4. Please follow **steps 3 – 9 in section 2.1.1** until the end.

### **2.1.3 Third-Party Mockup: For reference**

Mock-up code can be shared with third party vendors upon request to the Con Edison GBC technical onboarding team.

**NOTE:** This code is for reference purposes only and cannot be reused.

### **2.1.4 Share My Data API Testing**

Once successfully registered with the Utility, the third-party can verify the initial connection set up and Share My Data APIs on the Utility's test environment. They

can do this by importing the following POSTMAN collection and environment variables:

**POSTMAN Collection:**

<https://www.getpostman.com/collections/ed7df4694355c4831bd6>

**Environment Variable:** [download here.](#)

The third-party vendors are required to do the testing of APIs listed in [this document](#). After successful testing they are required to submit the status of each API test to Con Edison Share My Data GBC Team to mark the successful completion of the Share My Data testing.

## 2.2 Requirements for Batch Data Exchange (Third-Party Notify URI)

For an Asynchronous Data Exchange request, a Notification API should be created and exposed by the third-party. This API should be accessible to the Utility once a batch request's response is processed. The response to the notification uri from the utility includes the response and request ids for downloading the data.

Failing to be accessible will result in the response being deleted from the source location.

- API's URI should be provided by the third-party in 'third\_party\_notify\_uri' field during registration.
- This URI will be invoked by ConEdison internally once the Batch API's request (called by Third-Party Admin) is processed.
- This Third-Party API (Method: POST) request body will include one or more download links in ATOM feed format – one in each entry. Each file will contain data up to 25 Mbs.
- The Notification API should return a response code of 200 OK (on successful execution) to the Utility, which will mark the request 'completed' in the Share My Data system. File download should be asynchronous and should return '200 OK' response immediately.
- Response file processing by the third party must be asynchronous. The 200 OK response from the Third Party's Notification URI should not attempt to



download all response files before returning a 200 OK response code to the Share My Data API, since a notification could contain multiple 25 Mb files.

- Response files will be available for processing only for 48 hours (about 2 days) from the time it is generated, after which the third-party will have to re-initiate the Share My Data asynchronous request to access the required consumption data.
- Please note that the batch data processing could take up to couple of hours or days depends on the data size requested, We strongly recommend to request smaller data in our Test environment and not sending duplicate requests.

**NOTE:** The download API is required to have the same type of token as its batch request (**CAT /AT**)

**Sample Response Body:**

```
<feed xmlns:espi="http://naesb.org/espi"
xmlns="http://www.w3.org/2005/Atom">
```

```
<title type="text">Green Button Feed</title>
```

```
<id>uuid:121e0fb3-8e06-4067-a144-072e71a8ec6b;id=49</id>
```

```
<updated>2023-08-31T18:32:38Z</updated>
```

```
<entry>
```

```
<id>uuid:121e0fb3-8e06-4067-a144-072e71a8ec6b;id=50</id>
```

```
<title type="text"></title>
```

```
<updated>2023-08-31T18:32:38Z</updated>
```

<content type="xhtml">

<espi:batchList xmlns:espi="http://naesb.org/espi">

<espi:resources>

https://apit.coned.com/gbc/v1/resource/Batch/Download?requestId=39048ec8-7bc0-4ba2-8bd5-32d06738db04&responselId=b01d97c1-3b5e-4489-955a-fa866acefd75&SubscriptionId=34266&batchId=49779

</espi:resources>

<espi:resources>

https://apit.coned.com/gbc/v1/resource/Batch/Download?requestId=39048ec8-7bc0-4ba2-8bd5-32d06738db04&responselId=b01d97c1-3b5e-5589-955a-fa866acefd75&SubscriptionId=34266&batchId=49779

</espi:resources>

</espi:batchList>

</content>

</entry>

</feed>

**NOTE:** The subscriptionId value helps link the subscription with the data contained in the file it is associated with.

Example:

<https://api.coned.com/gbc/v1/resource/Batch/Download?subscriptionId=34266>

nld=12345&requestId=abcdef-fcf8-478c-b062-  
d98b58aa29dd&responseId=nghsjsshij-4fdd-8763-d2f34522ed22

## 3. POST ONBOARDING UPDATES

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### 3.1 Third-Party Registration Update

In the event a third-party need to update any fields associated to their registered information in the registration form, they need to update those fields and [resend the completed registration form](#) with any updated fields.

### 3.2 Third-Party Token Generation

#### 1. Third-Party Admin Access Token [CAT]

- a. The Third-Party can generate this token following the successful completion of the onboarding process.
- b. This token can be used to retrieve data for all the customers who are actively authorized with the Third-Party. The type of data could be Usage, Billing, Real-Time and Account Details (Account number and Address) based on the scope of authorization granted to the Third-Party. [Refer to the Third-Party [Exposed APIs list](#) and sample request below]

#### **Sample Request Body:**

Example API request body below depicts the usage of client Id and client secret by the Third-Party to generate the Third-Party Admin - Access Token (i.e., Client Access token):

```
{
  "grantType":"client_credentials",
  "clientId":"<<Third-Party Client ID>>",
  "clientSecret":"<<Third-Party Client Secret>>",
  "redirectUri":"<<Third-Party registered redirect URI>>",
  "scope":" FB=3_35_47"
}
```

## 2. Third-Party User Access Token [AT]

- a. The Third-Party receives this token following the completion of the Customer Authorization process.
- b. This token can be used to retrieve a specific customer's Usage / Billing / Real-Time / Retail Customer data based on the scope provided during authorization. This token cannot be shared across multiple authorizations.

[Refer to the Third-party [Exposed APIs list](#) and sample request below]

### Sample Request Body:

Example API request body below depicts usage of Client Id and client secret to generate Third-Party User – Access Token (i.e., Access token):

```
{
  "grantType":"refresh_token",
  "clientId":"<<Third-Party Client ID>>",
  "clientSecret":"<<Third-Party Client Secret>>",
  "refreshToken":"<<Refresh token received during authorization>>",
  "subscriptionId": <<Valid subscription id of this authorization>>
}
```

## 4 KEY RESPONSIBILITIES – THIRD PARTY

The following are the Key responsibilities to be taken care of by the Third-Party during the Technical Onboarding process:

#	Key Responsibilities
1	The Third-Party will receive a Notification from the Utility to provide the required registration details.
2	The Third-Party will be responsible for: <ul style="list-style-type: none"> <li>Ensuring the registration form contains the correct details and their website is set up as per the process mentioned above in this document</li> <li>Notifying the Utility representative with the completed registration form</li> </ul>
3	The Third-Party Admin Token and user level access tokens are active only for 1 hour. The Third party should cache the token value for an hour and reuse it. After an hour, the Third-Party will have to request a new token by providing the refresh token, once the Client credentials and Subscription ID are received after successful authorization.
4	The Retail Customer API provides Account ID information (Account number, Address – street, city, state, postal code) for the corresponding subscription ID. The Third-Party is required to map and maintain the Account ID for its usage data.
5	The Third-Party will always receive up to the last two years of historical usage / billing data. They can apply a date filter to select the time range for requesting any customer's data within a 2 year time frame. Real-Time data only corresponds to electricity usage data for the last 24 hours with a latency of 45 minutes from the request processing time.
6	The Third-Party, upon data exchange requests, will be provided with "NET" consumption data for Solar accounts and only "consumption" data for Non-Solar accounts.
7	ESCO charges, if available, are applicable for the customer and included in the total bill displayed in the billing information.
8	The Third-Party, as part of Data exchange for NYPA customer(s) can access historical and real-time consumption data.

# APPENDIX

## Exposed Share My Data APIs

Please refer to the URL below to get details on the Green Button Share My Data REST API interfaces. This list of APIs details the standard Green Button Share My Data APIs in scope for an authorized Third-Party to request customer account information.

### QA API Definitions (Swagger)

<https://dcx-downloads-prod.azureedge.net/gbc-api-definitions/QA-DCX%20GBC%20API.swagger.json?sp=r&st=2023-04-14T12:19:25Z&se=2031-04-14T20:19:25Z&spr=https&sv=2021-12-02&sr=c&sig=fJ9Mpg%2FcxnnOUdRjw53bYksgv%2FASP4jC6TK05EdtT8l%3D>

### PROD API Definitions (Swagger)

<https://dcx-downloads-prod.azureedge.net/gbc-api-definitions/PROD-DCX%20GBC%20API%20V2.swagger.json?sp=r&st=2023-04-14T12:19:25Z&se=2031-04-14T20:19:25Z&spr=https&sv=2021-12-02&sr=c&sig=fJ9Mpg%2FcxnnOUdRjw53bYksgv%2FASP4jC6TK05EdtT8l%3D>

You can download the above definitions and render/upload in your choice of swagger viewer/editor. <https://editor.swagger.io> is commonly used. Below is an example of .JSON uploaded.

The screenshot shows the Swagger Editor interface. On the left, the JSON definition is displayed in a code editor. On the right, the rendered API documentation is shown, including the title 'DCX GBC API V2 1.0', a description, and a list of endpoints.

```
1 swagger: '2.0'
2 info:
3   title: DCX GBC API V2
4   version: '1.0'
5   description: >-
6     The Green Button Connect API provides an access to RESTful services
7     provided
8     by ConEdison and Third Party Applications. These APIs allow application
9     developers full access, in Green Button Format, to Energy Usage
10    Information
11    for the purpose of developing new Green Button Applications.Access to
12    Green
13    Button APIs requires an OAuth2 Access Token. Insert Access Tokens in
14    the
15    field labelled 'Access Token: ' at the top of the page prior to
16    selecting
17    the 'Try It Out!' button:
18  host: api.coned.com
19  basePath: /gbc
20  schemes:
21  - https
22  securityDefinitions:
23  - apiKeyHeader:
24    type: apiKey
25    name: Ocp-Apim-Subscription-Key
26    in: header
27  - apiKeyQuery:
28    type: apiKey
29    name: subscription-key
30    in: query
31  security:
32  - apiKeyHeader: []
33  - apiKeyQuery: []
34  x-servers:
35  - url: https://api.coned.com
36  - url: https://webapi.coned.com
37  paths:
38  /v1/resource/ApplicationInformation:
39  get:
40  description: >-
41    An XML representation of all Application Information will be
42    returned.
43    To provide the required Bearer access token in the HTTP
44    Authorization
45    header, enter the "data_custodian_access_token" in the appropriate
46    field
47    at the top of this web page!
```

**DCX GBC API V2** 1.0  
[ Base URL: api.coned.com/gbc ]

The Green Button Connect API provides an access to RESTful services provided by ConEdison and Third Party Applications. These APIs allow application developers full access, in Green Button Format, to Energy Usage Information for the purpose of developing new Green Button Applications. Access to Green Button APIs requires an OAuth2 Access Token. Insert Access Tokens in the field labelled 'Access Token: ' at the top of the page prior to selecting the 'Try It Out!' button.

Schemes:

### Application Information

GET	/v1/resource /ApplicationInformation	Retrieve all Application Information Structure contents [FB_33]	<input type="button" value="Try It Out!"/>
POST	/v1/resource /ApplicationInformation	Add a new Application Information record for Third Party Registration [FB_33]	<input type="button" value="Try It Out!"/>
GET	/v1/resource /GBCStatusCheckAPI	DevOps Api Management refresh method	<input type="button" value="Try It Out!"/>
GET	/v1/resource /ApplicationInformation /{applicationInformation Id}	Retrieve an Application Information Structure using its Id [FB_03]	<input type="button" value="Try It Out!"/>

## DOCUMENT REFERENCES

---

#	Document	Document link / Reference ID
1	REQ.21 – Energy Services Provider Interface, NAESB 2010,	<a href="http://www.naesb.org/ESPI_Standards.asp">http://www.naesb.org/ESPI_Standards.asp</a>
2	The OAuth 2.0 Authorization Framework, RFC 6749	<a href="http://www.ietf.org/rfc/rfc6749.txt">http://www.ietf.org/rfc/rfc6749.txt</a>
3	The OAuth 2.0 Authorization Framework: Bearer Token Usage, RFC 6750	<a href="http://www.ietf.org/rfc/rfc6750.txt">http://www.ietf.org/rfc/rfc6750.txt</a>



