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## Project One™: API Integration Overview

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## Introduction

The certification of devices for network access and use can be complex. In order to streamline the device certification process, Plasma and AT&T have teamed up to create Project One™.

In Project One™, AT&T deploys Plasma's C2M® platform to streamline the device certification process for vendors. In this document, we will go over the detailed interface functional requirements for Project One™, as well as how users can do everything from account creation to OEM data publishing all within one platform

## Purpose

This document explains the implementation of APIs to support IMEI integration, where the APIs will publish IMEI data from OEM vendors to the C2M® system.

In addition, APIs will publish data from the OEM self-reported IRS IMEI datasets. This includes information on all manufactured devices of specific model and type.

## Assumptions

- OEM has credentials to access the C2M system to publish data
- APIs will be exposed as RESTFUL APIs
- OEM will publish the IMEI data using restful API

## Overview

Plasma provides a Business Process Management platform called C2M®. Currently, C2M® is deployed for AT&T, providing several automated business processes. The internal name of the deployment is Project One. Plasma is enabling AT&T's vendor to publish the OEM data instead of emailing the files.

This process will communicate via Restful API's by performing the following steps:

1. C2M® will expose one feed to push the data
2. C2M® will provide the interface to create a single developer account per vendor using Project One

## REST Web Services Security

### Secure Communication (HTTPS)

All communication between AT&T and Plasma's Web Services must be done through a SSL secured connection.

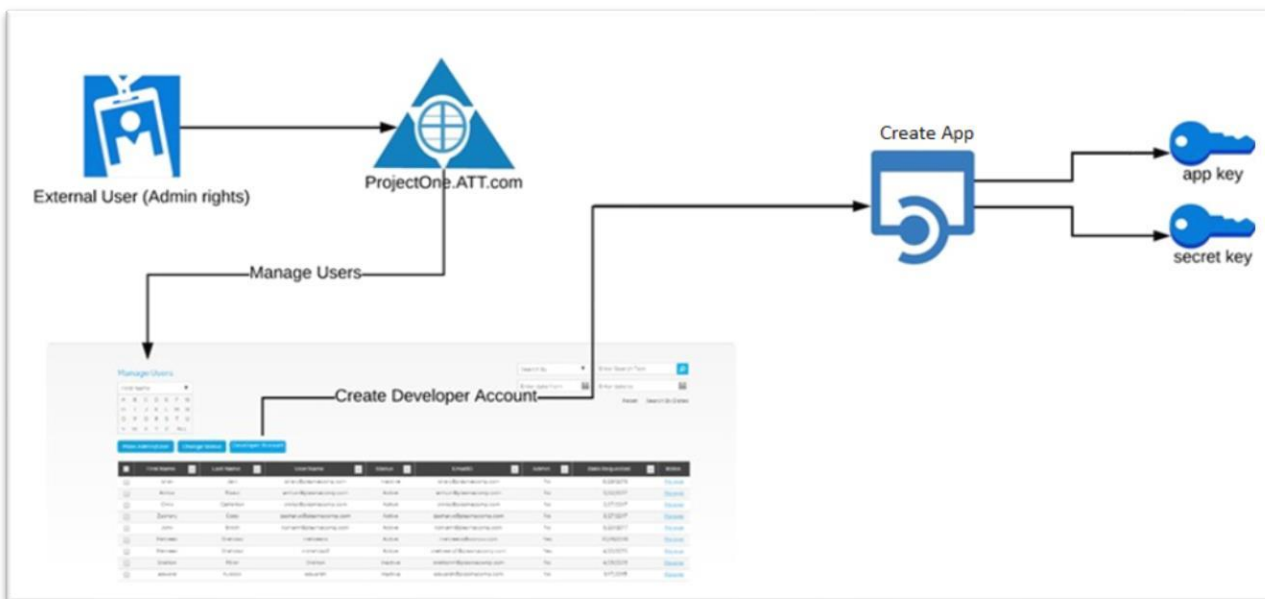
### API URLs

Production <https://ice-projectone.att.com/>

Account Management (Production) <https://projectone.att.com>

### Process Flow Diagram

**Purpose:** To create a user interface allowing OEMs to send IMEI data through an API call.



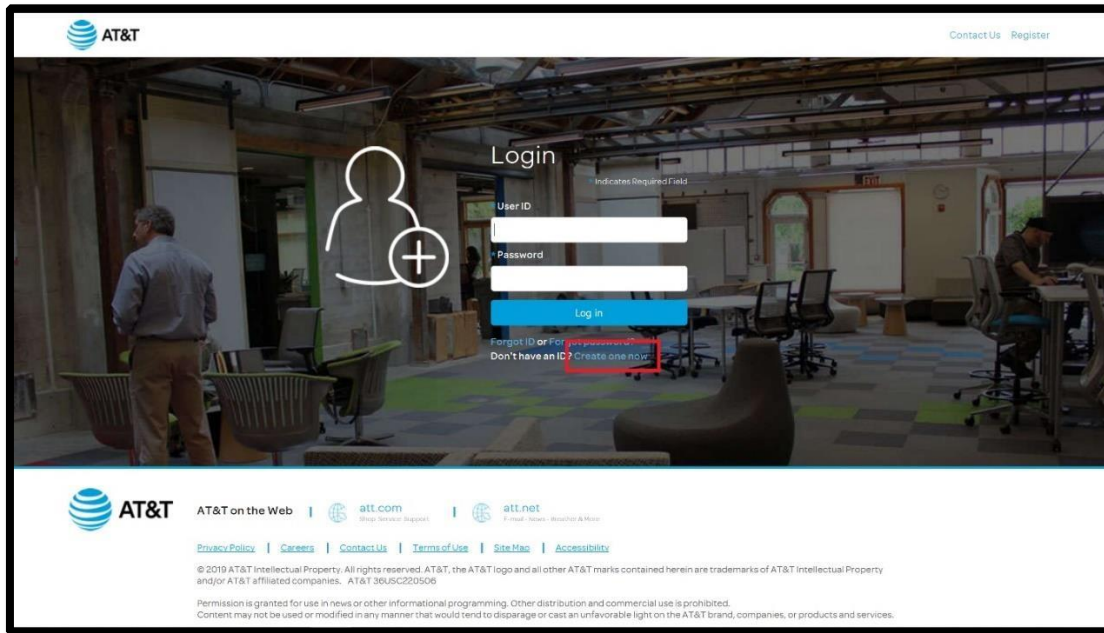
### User Account Management

An OEM must have an account to login to create a developer app or view an existing developer app key and secret key.

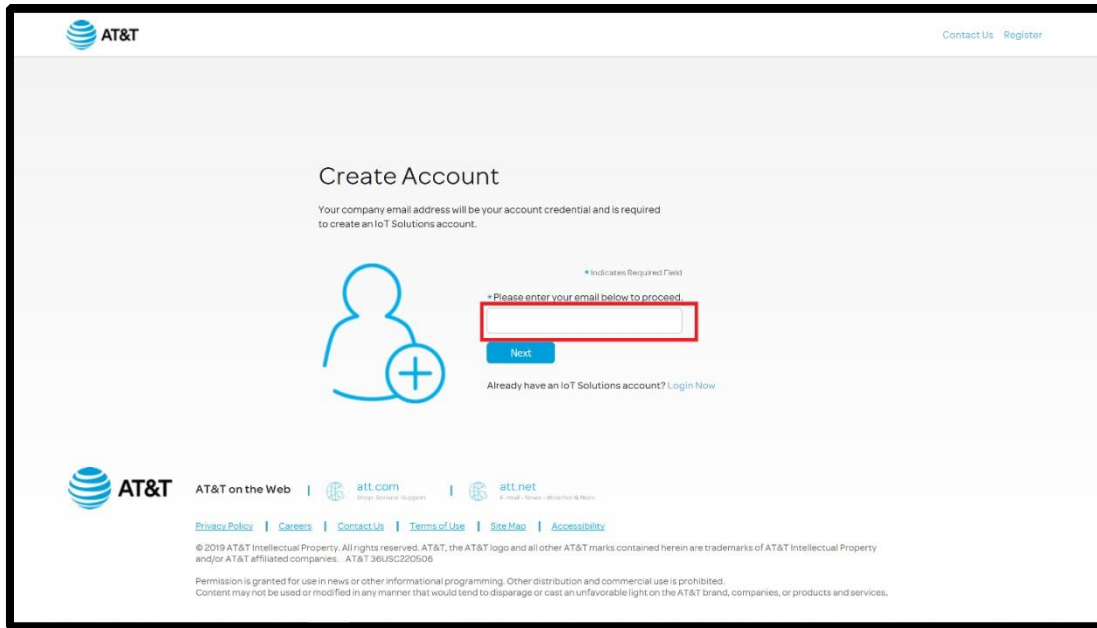
The following instructions detail how to request a new account, generate keys, and view or modify existing keys for the purpose of generating an app key and secret key for file uploads. Both keys are used to make a post IMEI data call to submit .csv files.

## How to request a new account

1. Go to <https://projectone.att.com>, please login if you already have an account else follow the below steps to create an account.
2. Click [Create one now](#)



3. Enter your email address in the required field

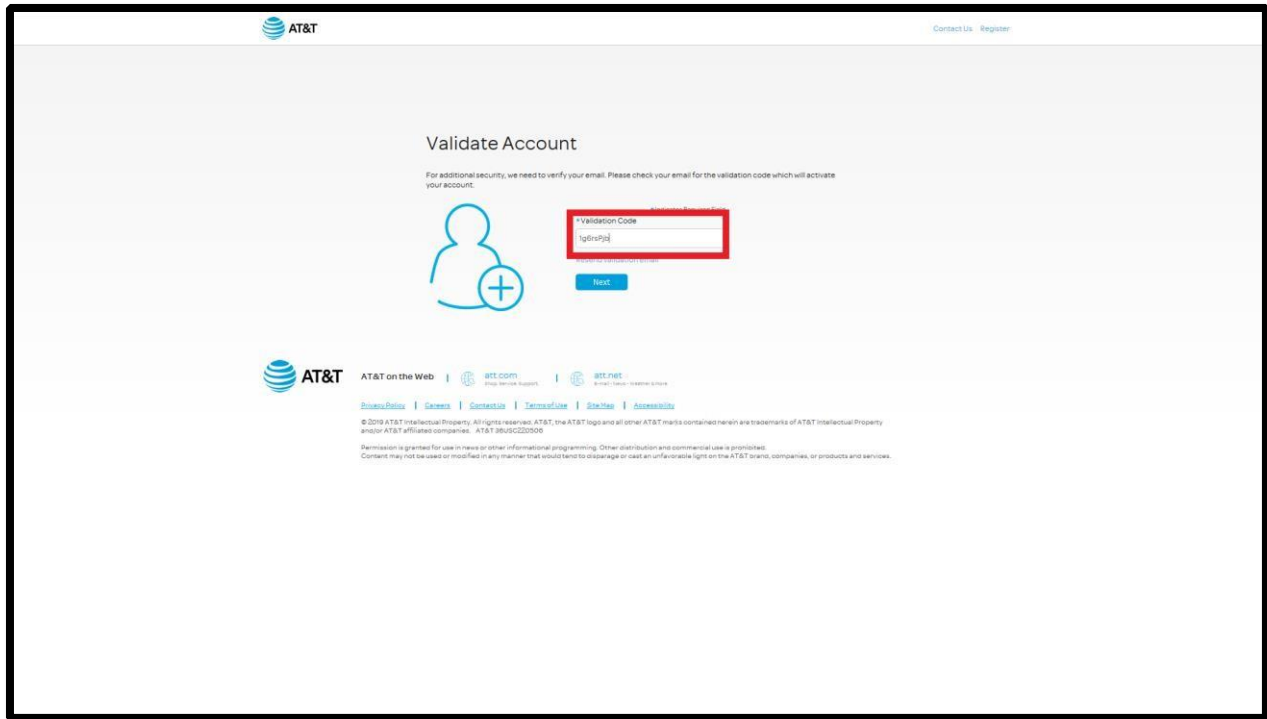


4. An email will be sent to the email address entered and contain the validation code

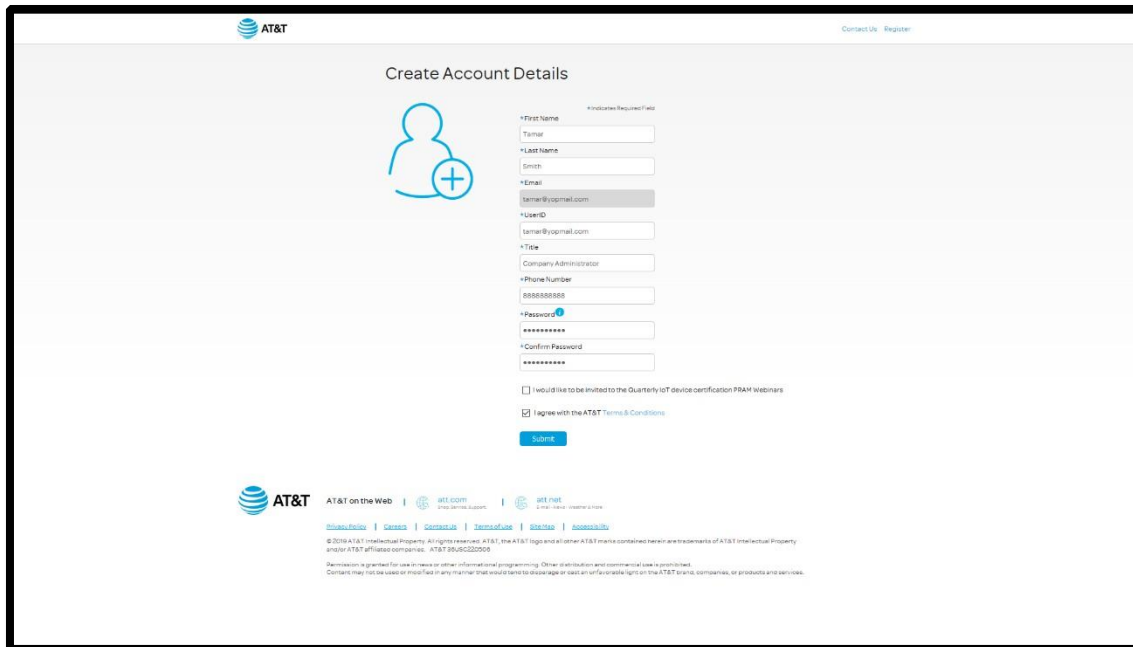


5. Enter the validation code received (by email).

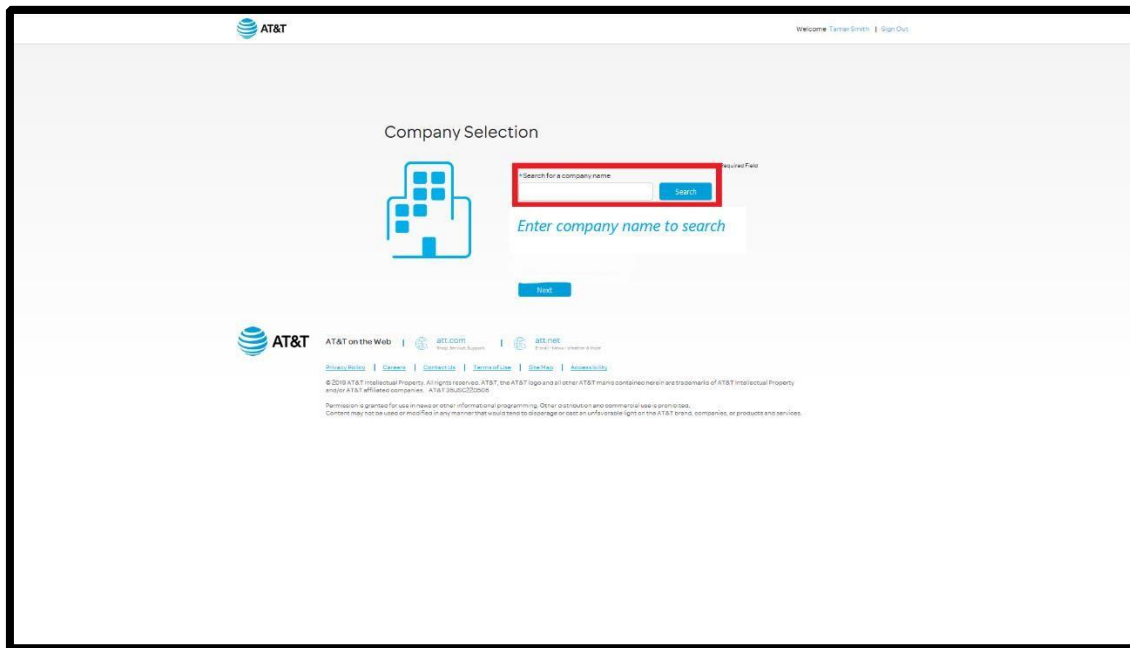




6. Enter the account details in the required fields and select **I agree with AT&T** then **Submit**.  
*Note: The password entered must be alphanumeric and contain at least one number and special character.*



7. Search for the company name

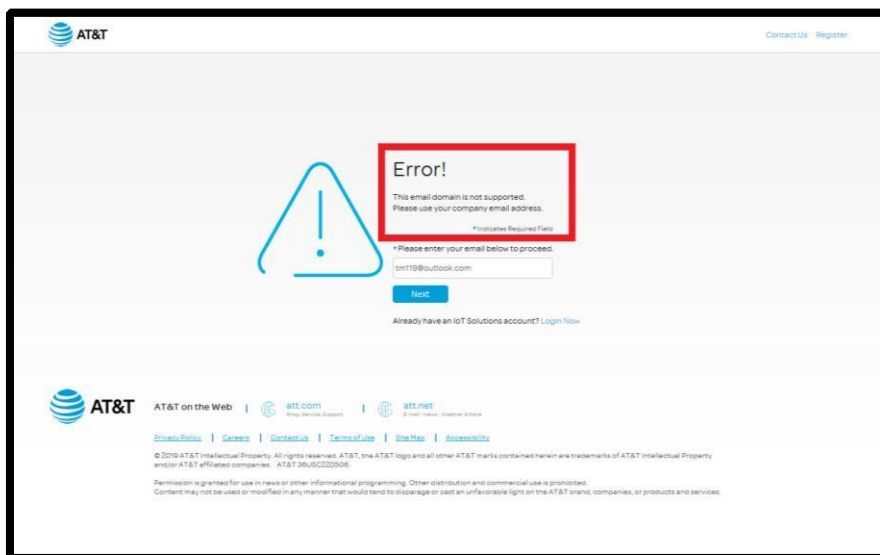


Exceptions

If an email address domain is unsupported or already exists, a different page will be displayed.

Unsupported domain

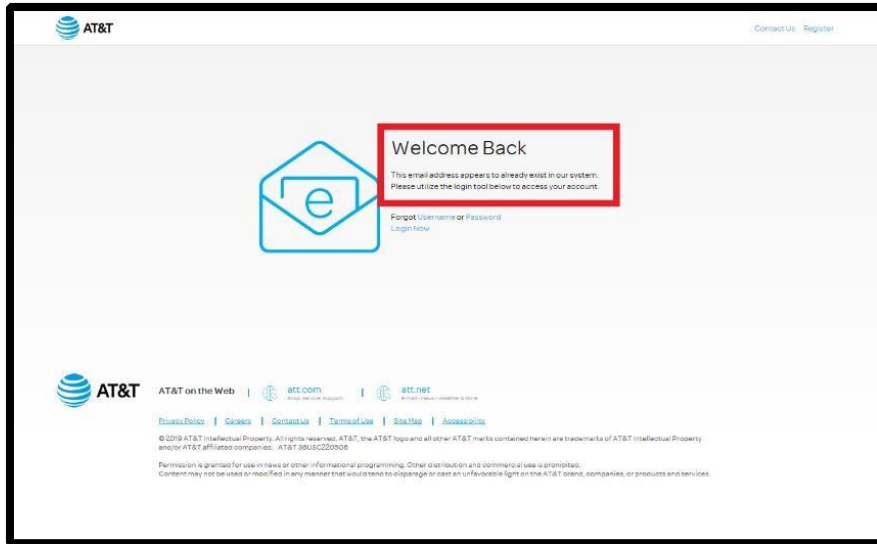
This screen will display if an email address with an unauthorized domain is entered at step 3.





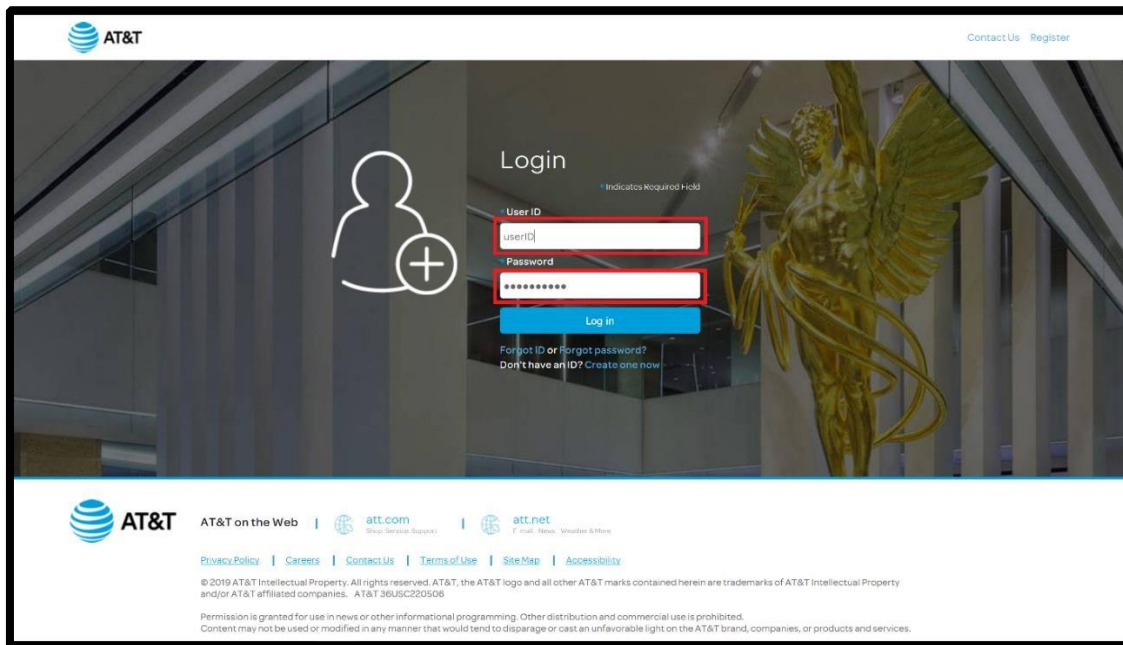
Existing email address

This screen will display if an email address is already associated with an account.

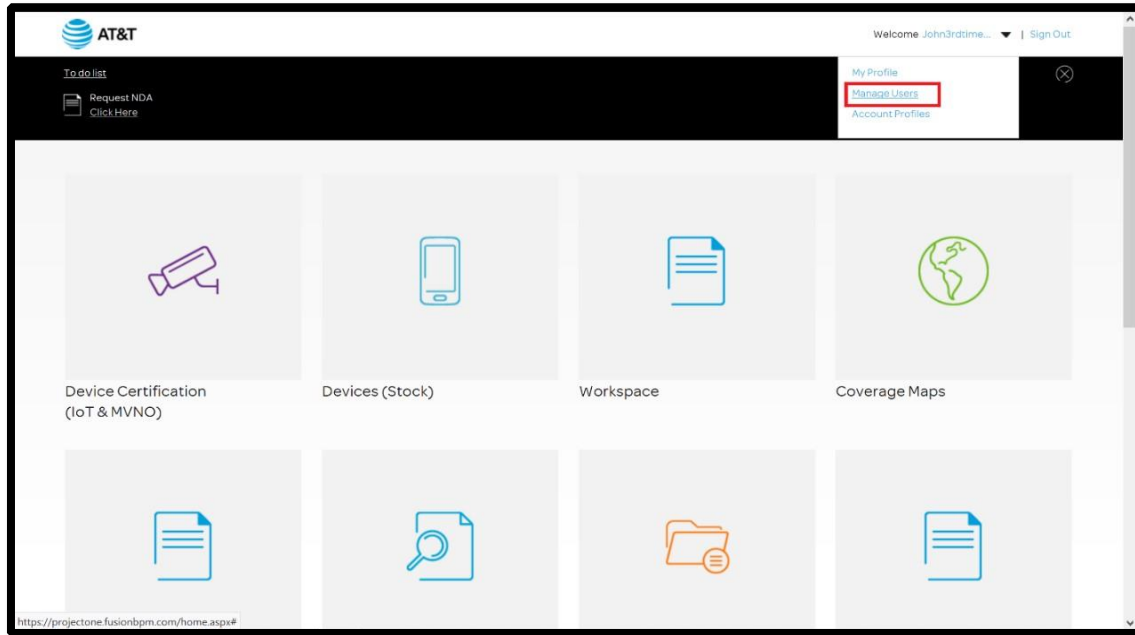


How to Generate Keys – Developer App

1. Go to <https://projectone.att.com>
2. Enter **UserID** and **Password** to login.



3. Select **Manage Users** from the dropdown menu near **Welcome**. (A new browser tab will open.)

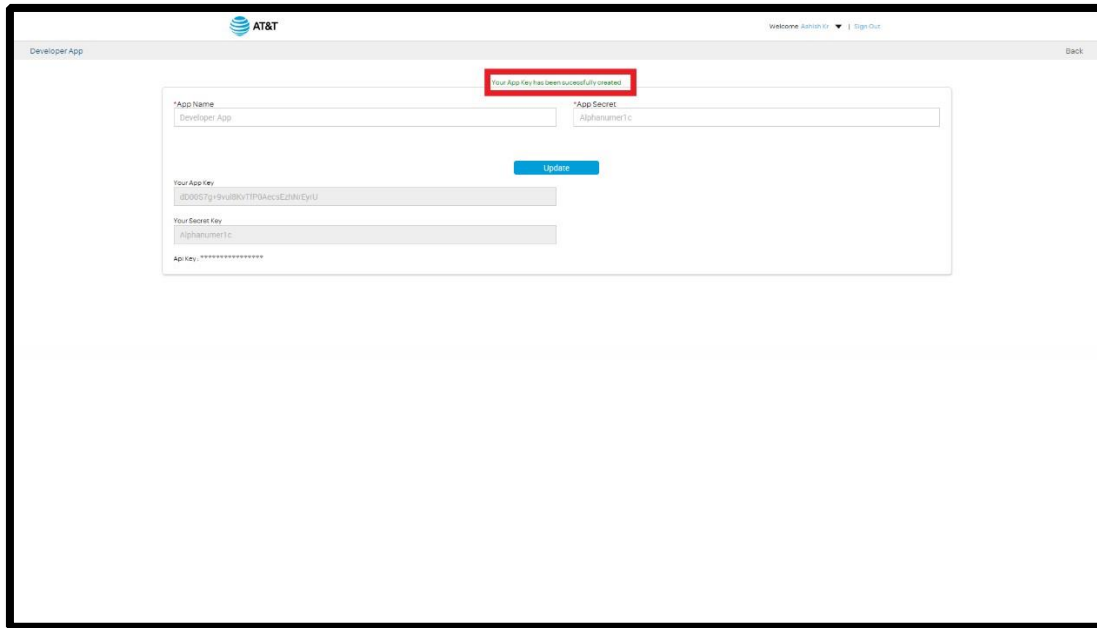


4. Select **Developer App**



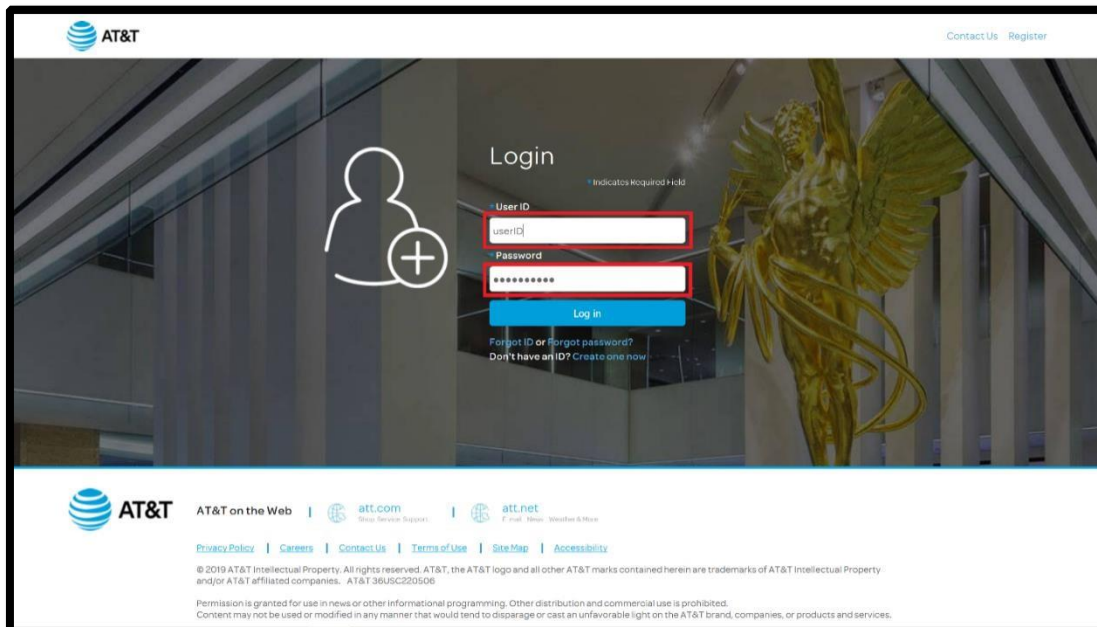
5. Enter a friendly name in the **App Name** field and enter a key that is alphanumeric with at least one special character in the **App Secret** field.  
 Enter First Name, Last Name, Email etc. (to make the user account at the company level).  
*NOTE – Please use a new User Name*

6. After selecting **Save**, a success message will appear.

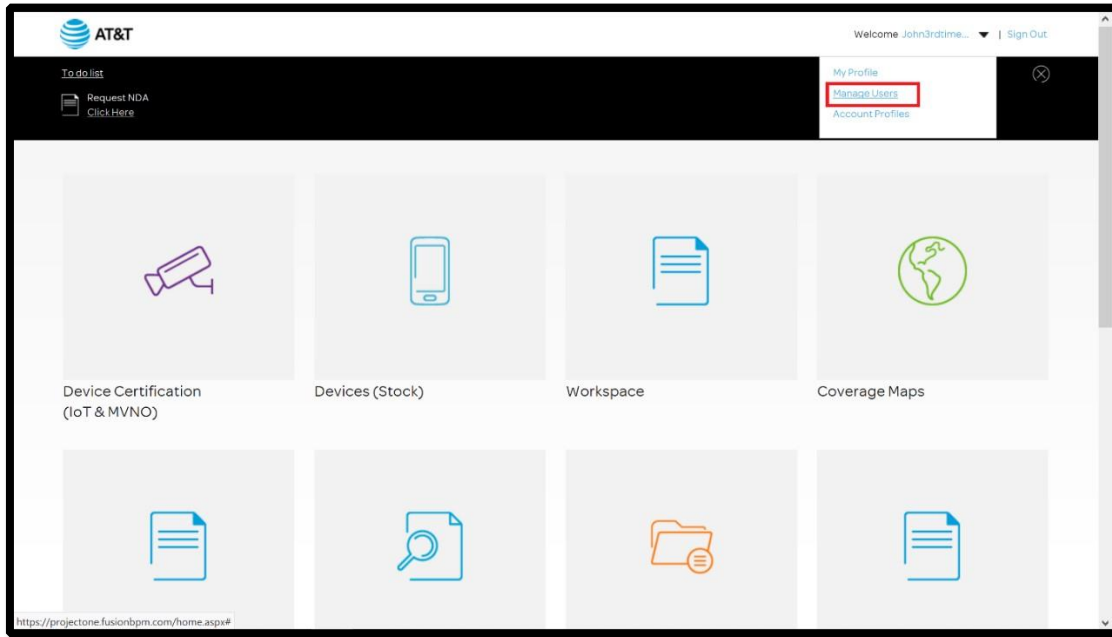


## How to View /Modify Existing Keys

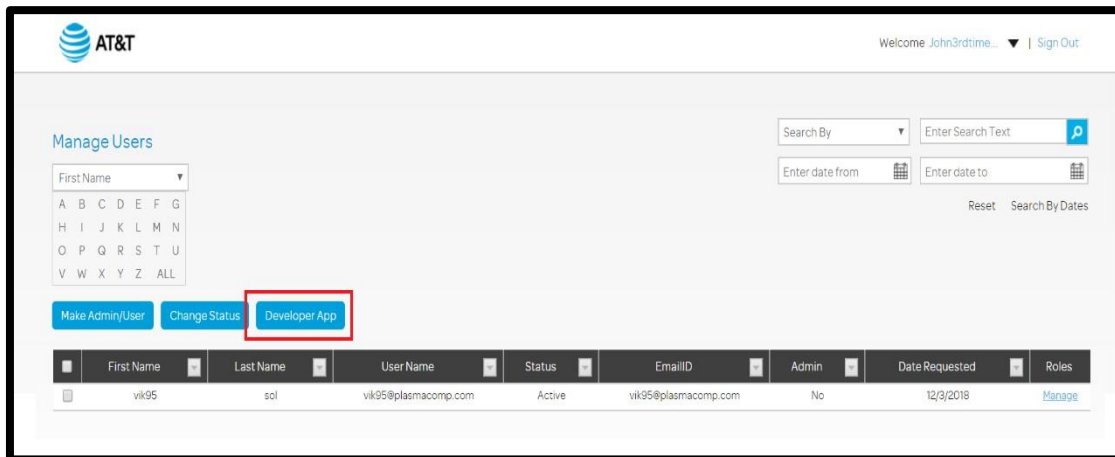
1. Go to <https://projectone.att.com>
2. Enter UserID and Password to login



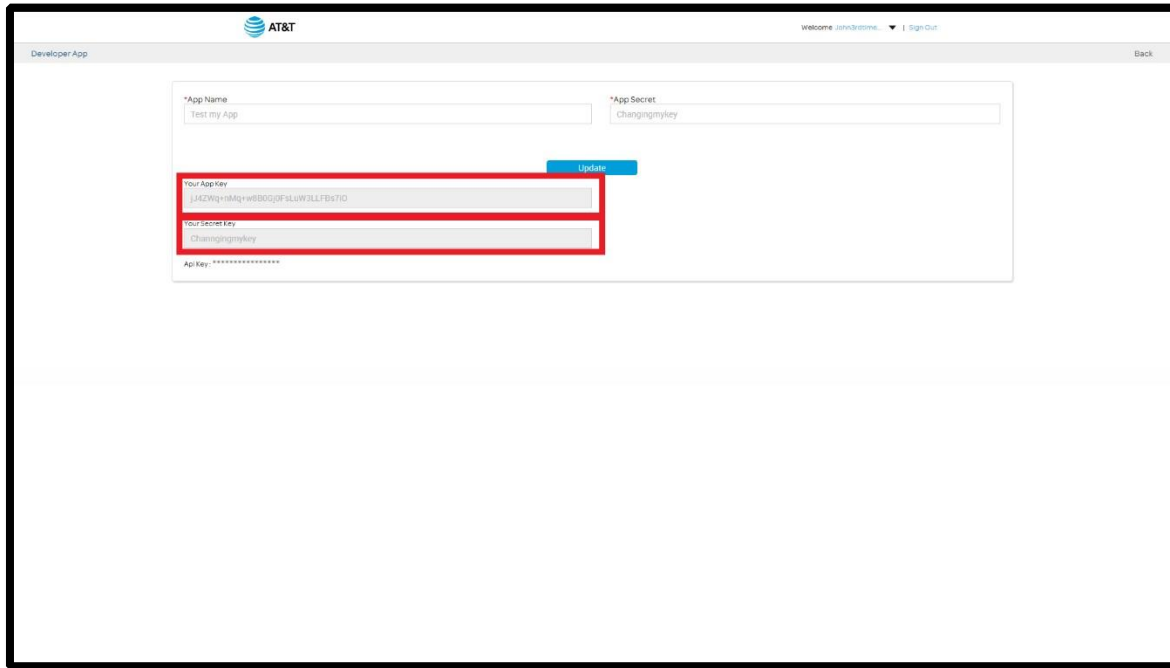
3. Select **Manage Users** from below the **Welcome** dropdown menu. (A new browser tab will open.)



4. Select **Developer App**



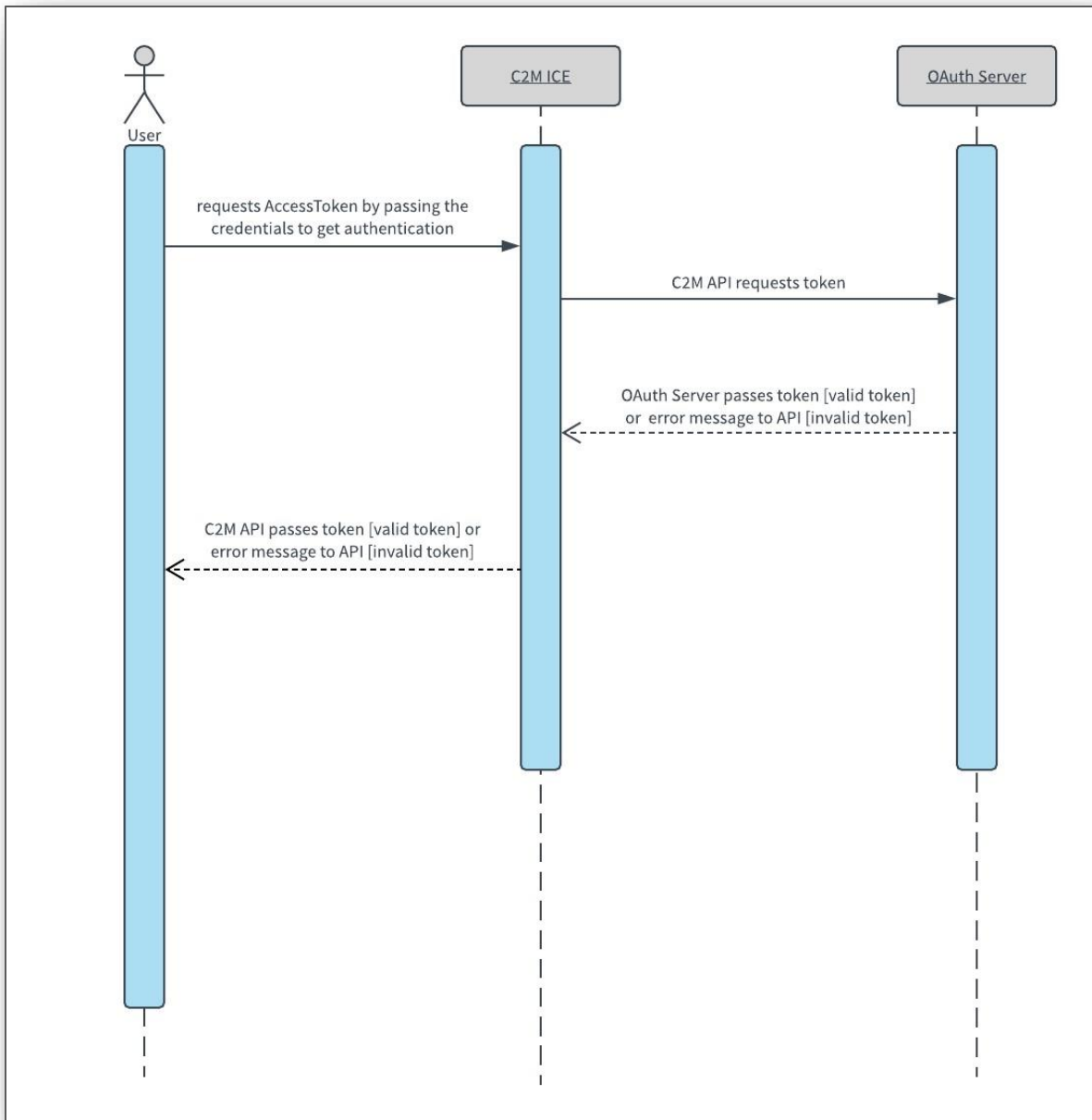
5. The App Key and Secret Key will display under **Your App Key** and **Your Secret Key**, respectively.



### Call to Authenticate the user

For making any call to C2M user will need to authenticate first via getting the authentication token. This token will be used in every call-in body parameter. If the token is expired, The API will send the error code and user can make another call (Refresh Token) to get the new token.

## Sequence Diagram



### Get Access Token

This is a key call for all other calls. This is used to get AccessToken by passing “User Name”, “Password”, “App Key” & “App Secret”. Which is provided by Plasma for authenticity to use API. After getting the AccessToken you can request others API call by providing this AccessToken.

<b>Vendor User Name</b>	<b>Assumption:</b> Vendor has its own login credentials
<b>Vendor Password</b>	
<b>App Key</b>	User will receive the App Key after the developer (Developer App) account is created.
<b>Secret Key</b>	
<b>API Key</b>	For the Secret Key, API Key, please refer to the <a href="#">Process Flow Diagram on page 5</a>

Method Details	
<b>HTTP Method :</b>	POST
<b>Method Name</b>	GetAccessToken
<b>Request Parameters</b>	UserName, Password, Appkey, AppSecret
<b>Request Format :</b>	JSON
<b>Response Format :</b>	JSON
<b>URL</b>	<a href="https://ice-projectone.att.com/JsonIce.svc/GetAccessToken">https://ice-projectone.att.com/JsonIce.svc/GetAccessToken</a>

### Parameters used in the API

Parameter	Required?	Type	Description
	Yes	Body	A string containing Email address and Password  JSON Sample: <pre>{   "UserName":"your username",   "Password":"your password",   "AppKey":"Your app key",   "AppSecret": "Your app secret key" }</pre>

### Sample Response Schema

#### Success

```
{
```



```

"code": "8054",
"message": "You have successfully logged in. Please find your AccessToken, AuthCode and RefreshToken in IceData.",
"status": "SUCCESS",
"icejdata": {
  "authcode": "3a9ff28d-c9e4-11e7-b2e3-00155dde170e",
  "accesstoken":
  "IYKod5oM6y9SDQfwLzuxIW+PILJY65hVOnbrPYP3D2qUkbesa/RMIWK608Rga63ldbspdUj9HUQ=",
  "refresh token":
  "IYKod5oM6y9SDQfwLzuxIW+PILJY65hVOnbrPYP3D2qUkbesa/RMId3agMNffcMgmV7u948BIVI=" }
}

```

### Fail

```

{
  "code": "8055",
  "message": "Invalid user name or password ",
  "status": "FAIL"
}

```

## Refresh Token

This method is used to get a new token from OAuth server if the current token is expired.

Method Details	
<b>HTTP Method :</b>	POST
<b>Method Name</b>	RefreshToken
<b>Request Parameters</b>	AuthCode, RefreshToken & AccessToken in request body
<b>Request Format :</b>	JSON
<b>Response Format :</b>	JSON
<b>URL</b>	<a href="https://ice-projectone.att.com/JsonIce.svc/RefreshToken">https://ice-projectone.att.com/JsonIce.svc/RefreshToken</a>

### Parameters used in the API

Parameter	Required?	Type	Description
<b>refresh token</b>	Yes	body	A string containing OAuth Code, Access token and Refresh Token.  <b>JSON Sample:</b> <pre>{   "AuthCode": "TestAuthCode",   "RefreshToken": "TestRefreshToken" }</pre>

## Sample Response Schema

### Success

```
{
  "code": "8035",
  "message": "Token refresh is success. Please find the new RefreshToken in IceData.",
  "status": "SUCCESS",
  "icejdata": {
    "accesstoken":
"iYKod5oM6y9SDQfwLzuxIW+PILJY65hVOnbrPYP3D2qUkbesa/RMIWK608Rga63IEaGbWkUgitc=",
    "refresh token":
"iYKod5oM6y9SDQfwLzuxIW+PILJY65hVOnbrPYP3D2qUkbesa/RMIId3agMNffcMg9BmsjP05EK8="  }
}
```

### Fail

#### Case 1:

```
{
  "code": "8010",
  "message": "JsonData is missing in body parameter.",
  "status": "Fail"
}
```

#### Case 2:

```
{
  "code": "8053",
  "message": " You are not authorized to make this call. Please look into description.",
  "status": "Fail"
}
```

#### Case 3:

```
{
  "code": "8037",
  "message": " AuthCode is missing in parameter.",
  "status": "Fail"
}
```

#### Case 4:

```
{
  "code": "8034",
  "message": "RefreshToken is missing in header.",
  "status": "Fail"
}
```

**Case 5:**

```
{
  "code": "8036",
  "message": "Token refresh is fail. Please find the detail in Description.",
  "status": "Fail"
}
```

### Sign Out

This method is used to forcefully expire the access token.

Method Details	
HTTP Method :	POST
Method Name	UserSignOut
Request Parameters	RefreshToken & AccessToken in request body
Request Format :	JSON
Response Format :	JSON
URL	<a href="https://ice-projectone.att.com/JsonIce.svc/UserSignOut">https://ice-projectone.att.com/JsonIce.svc/UserSignOut</a>

#### Parameters used in the API

Parameter	Required?	Type	Description
	Yes	Body	A string containing OAuth Code, Access token and Refresh Token.  <b>JSON Sample:</b> <pre>{   "AccessToken":"TestAccessToken",   "RefreshToken":"TestRefreshToken" }</pre>

## Sample Response Schema

### Success

```
{
  "code": "8038",
  "message": "Token expired successfully",
  "status": "Success"
}
```

### Fail

#### Case 1:

```
{
  "code": "8010",
  "message": "JsonData is missing in body parameter.",
  "status": "Fail"
}
```

#### Case 2:

```
{
  "code": "8053",
  "message": " You are not authorized to make this call. Please look into description.",
  "status": "Fail"
}
```

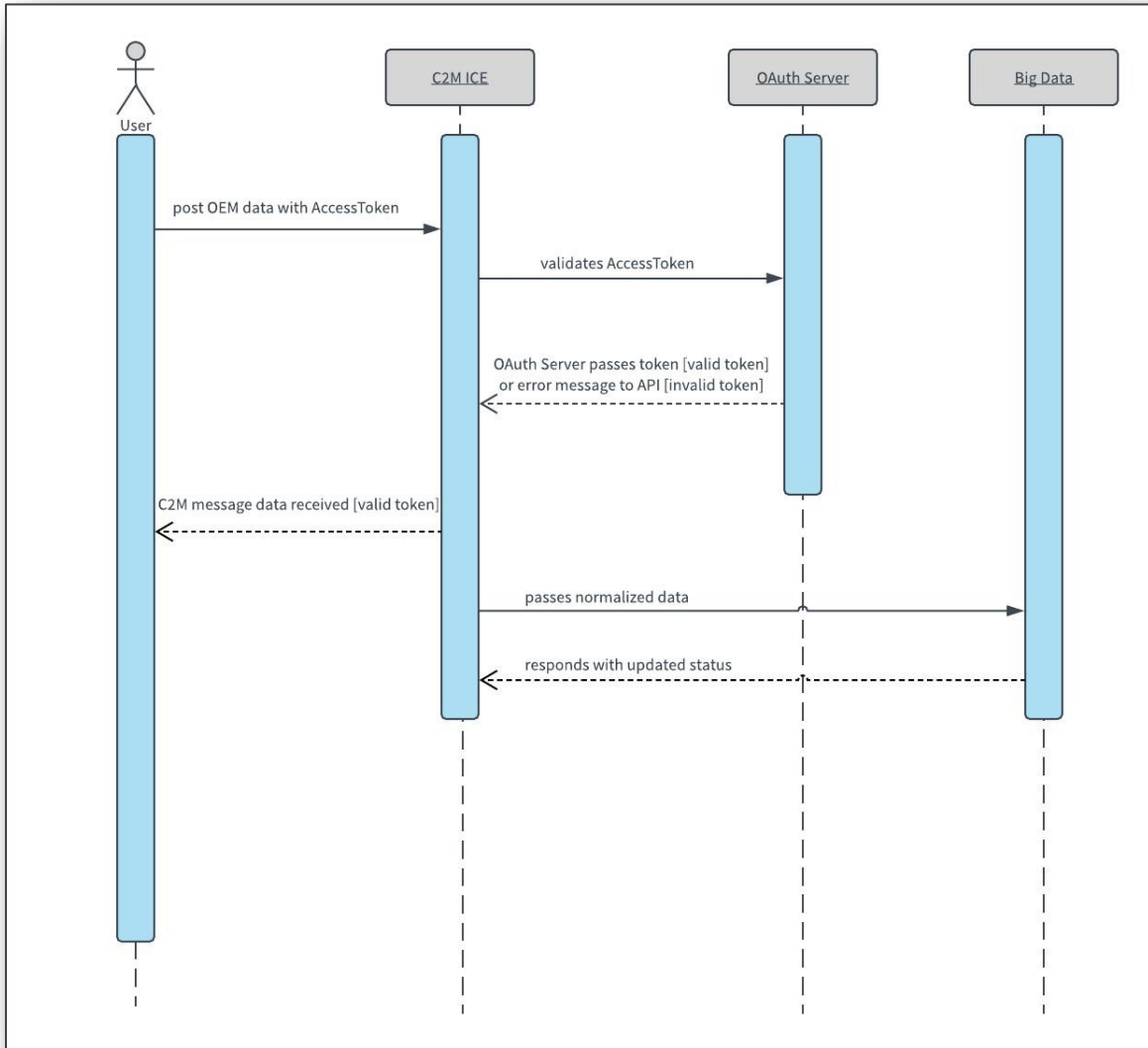
#### Case 3:

```
{
  "code": "8029",
  "message": "AccessToken is missing in parameter",
  "status": "Fail"
}
```

#### Case 4:

```
{
  "code": "8034",
  "message": "RefreshToken is missing in header.",
  "status": "Fail"
}
```

## Call for Vendor Data Sequence Diagram



## Request Parameters

These are the parameter fields contained in the .csv file columns. (column names need to match exactly as below)

#	Field	Description
1.	HOST_MFR	A string containing the manufacturer name of the host device.
2.	Host_Model	A string containing the model of the host device.
3.	Host_SW_Ver	A string containing the software version of the host device.
4.	Host Device Unique ID	A string containing the 10-digit alphanumeric unique identifier of the host device generated AT&T during certification.
5.	IMEI	A string containing the 15-digit IMEI of the host device

## Parameters used in the API

Parameter	Required?	Type	Description
<b>apikey</b>	Yes	Query String	Encrypted User API Key
<b>data</b>	Yes	Body Parameter	
<b>token</b>	Yes	Header	For response of GetAccessToken column, <i>please refer to the <a href="#">Get Access Token response on page 8</a></i> <i>Use the access token generated</i>

## Sample Response Schema

**URL:** <https://ice-projectone.att.com/JsonIcc/svc/Upload?fileName=IMEI.csv>

Header Parameter: token

### Response 1

```
{
  "code": "8029",
  "message": "AccessToken is missing in parameter.",
  "status": "FAIL"
}
```

**Response 2**

```
{
  "code": "8053",
  "message": "Invalid AccessToken",
  "status": "FAIL"
}
```

**Response 3**

```
{
  "code": "9003",
  "detail": "Please upload .csv file.",
  "status": "Fail"
}
```

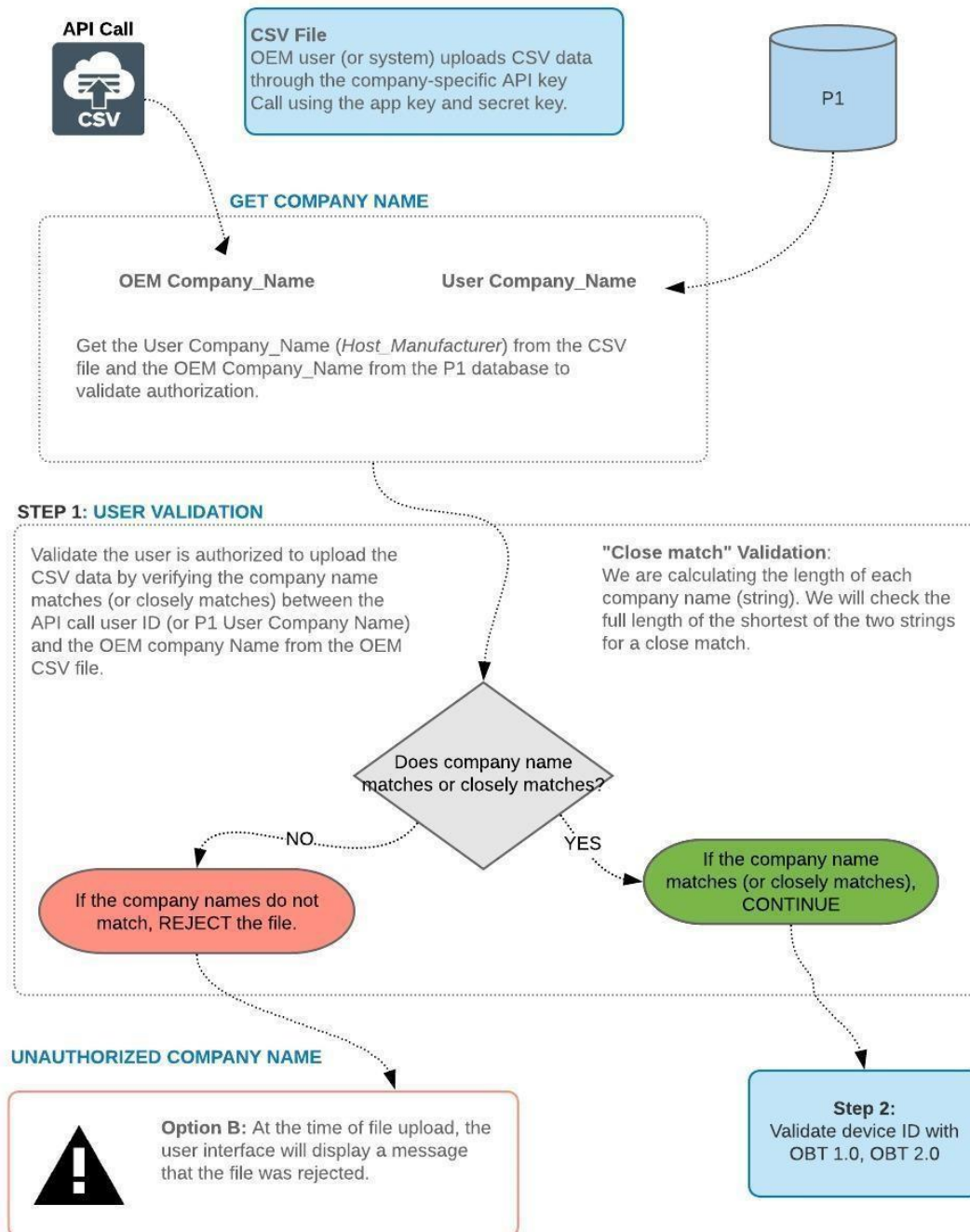
**Response 4**

```
{
  "code": "9004",
  "detail": "Invalid column name in csv file.",
  "status": "Fail"
}
```

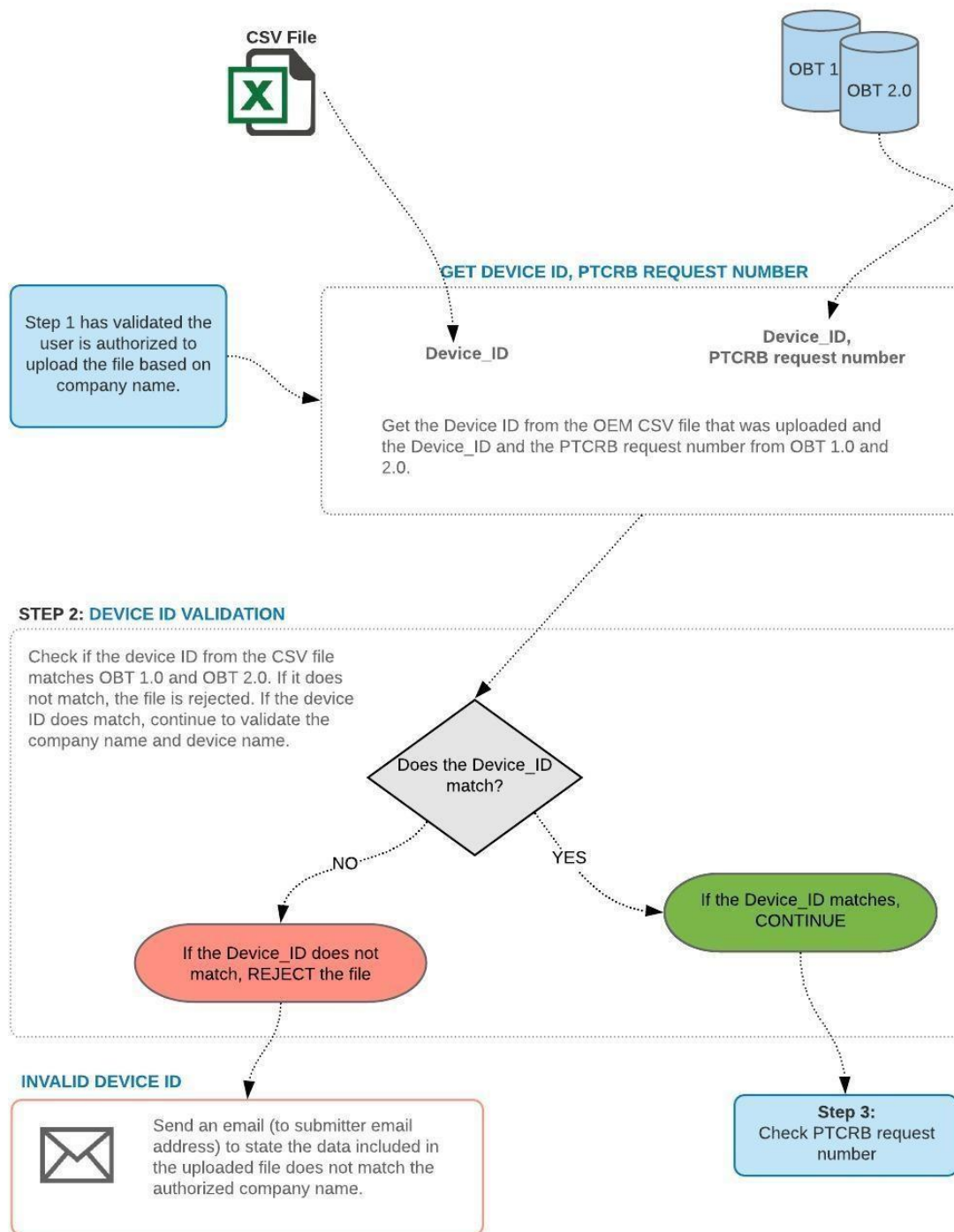
**Response 5**

```
{
  "code": "200",
  "message": "IMEI.csv file received successfully.",
  "status": "Success"
}
```

CSV Validations:

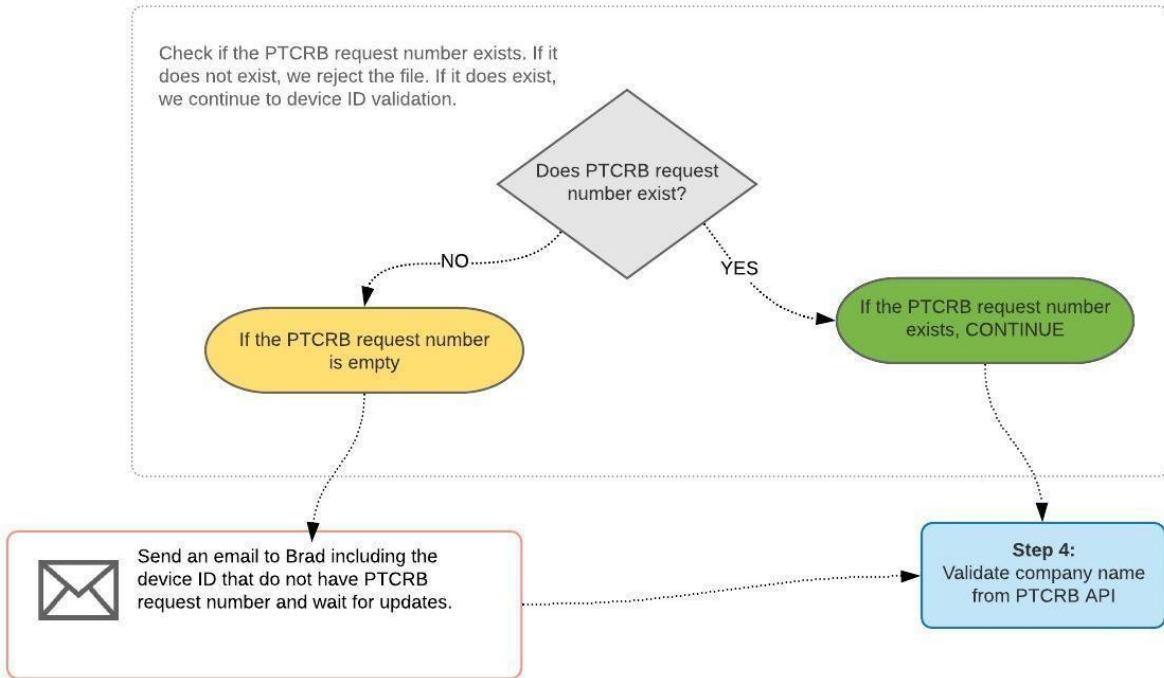


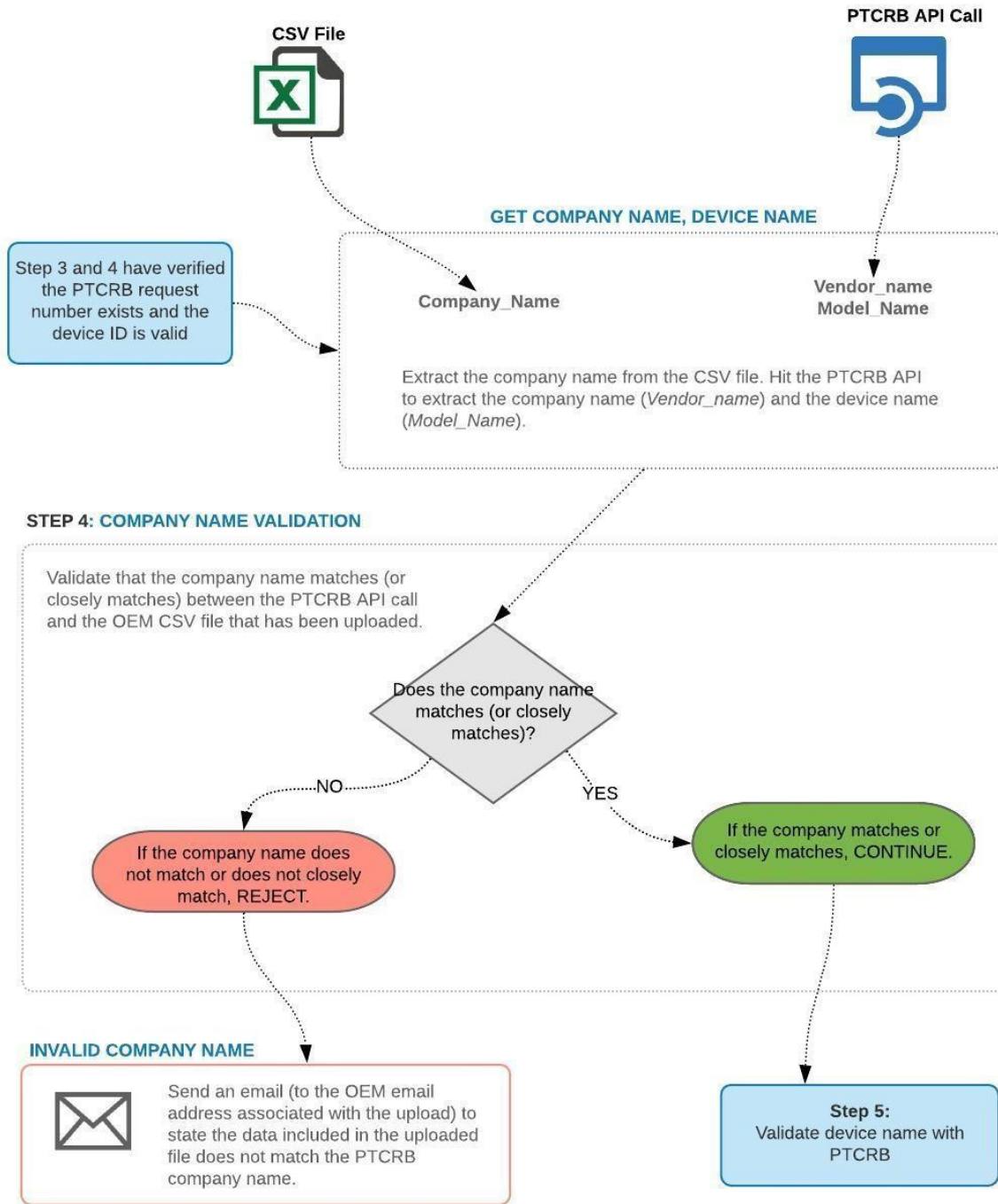




**STEP 3: PTCRB REQUEST CHECK**

Check if the PTCRB request number exists. If it does not exist, we reject the file. If it does exist, we continue to device ID validation.





**STEP 5: DEVICE NAME VALIDATION (PTCRB)**

