Getting Started with Remote APIs

In just a few short paragraphs we're going to walk you through the steps necessary to get up and running with our Remote APIs!

Register Your Application

Each test application that you're going to develop needs its own API Key. If you haven't already done so visit My Page and register your application. This process will generate an API Key and Secret Key that you'll need in the next step.

Get an Access Token

Now that you've registered your application and have your keys ready we'll need to authenticate with the server to obtain an access token. The Remote API supports both the 'client credentials grant' and 'authorization code grant' OAuth flows in production. However, the Developer Portal only implements the client credentials grant type.

Using HTTP Basic Authentication with your API Key as your username and your Secret Key as your Password, invoke this:

Request

HTTP Method: GET

HTTP Headers:

- Authorization: Basic{Base64 encoded username:password}
- Accept: application/json

URL: https://developer.gm.com/api/v1/oauth/access_token

Response

HTTP Status Code: 200

```
{
"access_token":"490699ea3c903790c600f82042f27947",
"expires_in":"599",
"token_type":"bearer"
}
```

Fetch Vehicle Data

Using the Access Token generated in the previous step we can now invoke some services. Every service in the API requires that you provide an Authorization and Accept HTTP header. Fetch the first 2 vehicles on an account:

Request

HTTP Method: GET

HTTP Headers:

- Authorization: Bearer 490699ea3c903790c600f82042f27947
- Accept: application/json

URL: https://developer.gm.com/api/v1/account/vehicles?offset=0&size=2

Response

HTTP Status Code: 200

```
{
"vehicles":
{
"size":2,
"next":2,
"vehicle":[
{
"vin":"1GKUKEEF9AR000010",
"make":"GMC",
"model":"Denali",
"year":2010,
"manufacturer":"General Motors",
"phone":3132200010,
"unitType":"EMBEDDED",
"primaryDriverId":548392002,
"url":"https:\/\/developer.gm.com\/api\/v1\/account\/subscribers\/1GKUKEEF9AR000010"
},
{
"vin":"1G1PJ5S95B7000009",
"make":"Chevrolet",
"model":"Cruze",
"year":2011,
"manufacturer":"General Motors",
"phone":8035553074,
"unitType":"EMBEDDED",
"primaryDriverId":548392002,
"url":"https:\/\/developer.gm.com\/api\/v1\/account\/subscribers\/1G1PJ5S95B7000009"
}
]
}
}
```

Invoke a Vehicle Command

Vehicle commands require communication with the vehicle and as such follow this asynchronous pattern:

1. HTTP POST to vehicle command service and the service will respond with an initial status.

HTTP Headers:

- Authorization: Bearer 490699ea3c903790c600f82042f27947
- Accept: application/json

URL: https://developer.gm.com/api/v1/account/vehicles/1GKUKKEEF9AR000010/command/lockDoor

Response

HTTP Status Code: 202

```
{
"commandResponse":
{
"requestTime":"2012-06-18T07:56:03Z",
"completionTime":"2012-06-18T07:56:03Z",
"url":"https:\/\/developer.gm.com\/api\/v1\/account\/vehicles\/1GKUKEEF9AR000010\/requests\/24",
"status":"inProgress",
"type":"lockDoor"
}
}
```

2. Poll the progress URL for updates on your request until it has completed.

Request

HTTP Method: GET

HTTP Headers:

- Authorization: Bearer 490699ea3c903790c600f82042f27947
- Accept: application/json

URL: https://developer.gm.com/api/v1/account/vehicles/1GKUKKEEF9AR000010/requests/24

Response

HTTP Status Code: 200

```
{
"commandResponse":
{
"requestTime":"2012-06-18T07:56:03Z",
"completionTime":"2012-06-18T07:56:18Z",
"url":"https:\/\/developer.gm.com\/api\/v1\/account\/vehicles\/1GKUKEEF9AR000010\/requests\/24",
"status":"success",
"type":"lockDoor"
}
}
```