API Setup

Third party packages used in this example:

```
<dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-lang3</artifactId>
    <version>3.9</version>
</dependency>

<dependency>
    <groupId>commons-io</groupId>
    <artifactId>commons-io</artifactId>
    <version>2.6</version>
</dependency>

<dependency>
    <groupId>commons-net</groupId>
    <artifactId>commons-net</artifactId>
    <version>3.6</version>
</dependency>

<dependency>
    <groupId>org.apache.httpcomponents</groupId>
    <artifactId>httpclient</artifactId>
    <version>4.5.8</version>
</dependency>

<dependency>
    <groupId>org.apache.httpcomponents</groupId>
    <artifactId>httpcore</artifactId>
    <version>4.4.8</version>
</dependency>

<dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
</dependency>
```

JDK: 1.8

All samples provided as JUNIT test cases

Authentication Token:

I use Certificates Authentication and not Id/Pass. The HTTP client class will require you to pass your token (you can modify the code as needed to obtain a token from the Auth Service…Here I assume you have a token).

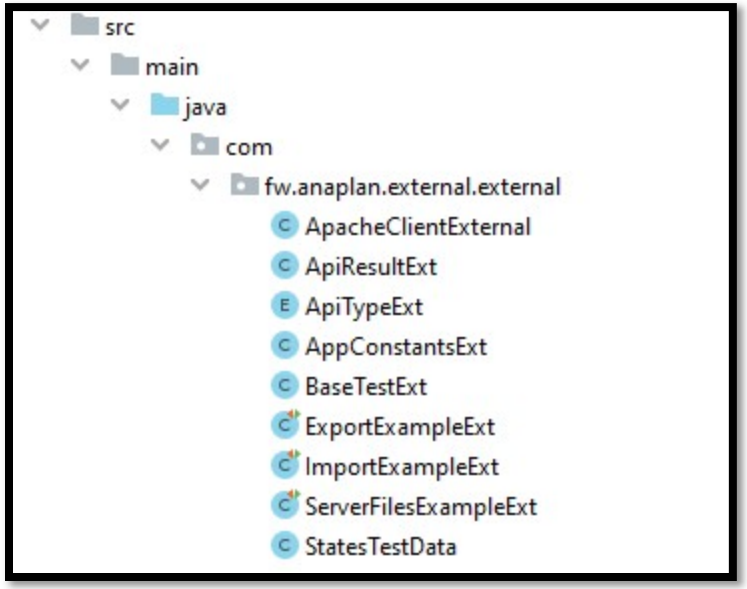
Copy token to file `C:\\Developer\\anaplan\\token.txt` and maintain as needed (Tokens are valid for only ~30 minutes).

See **BaseTestExt.java** where token is read from file and passed to client

```
public void initClient() {

    String token = null;

    try {
        token = new String(Files.readAllBytes(Paths.get( first: "C:\\Developer\\anaplan\\token.txt")));

        System.out.println("=====================================");
        System.out.println(token);
        System.out.println("=====================================");

        Assert.assertTrue( message: "Token is missing from input file. ", !StringUtils.isEmpty(token));

        this.client = new ApacheClientExternal(token);
    } catch (IOException e) {
        e.printStackTrace();
        Assert.fail("Error reading token from text file: " + e.getMessage());
    }
}
```

Setup steps:

1. Create a sample JAVA project
    a. I recommend a Maven project and add above dependency
2. Add package com.fw.anaplan.external.external
3. Copy classes attached to package



4. Update AppConstantsExt.java

a. Add Workspace ID and Model ID

b. Add Proxy, if used

```java
package com.fw.anaplan.external.external;

public class AppConstantsExt {

    // TODO add your workspace id and model id
    public static final String WORKSPACE_ID = "xx",
            MODEL_ID = "xx";

    //TODO Add your custom proxy if used
    public static final String PROXY_HOST = "xxx";
    public static final int PROXY_PORT = 82;

    public static final String API_URL = "https://api.anaplan.com/2/0/workspaces/" + WORKSPACE_ID + "/models/" + MODEL_ID + "/";
}
```

5. Update ApacheClientExternal.java

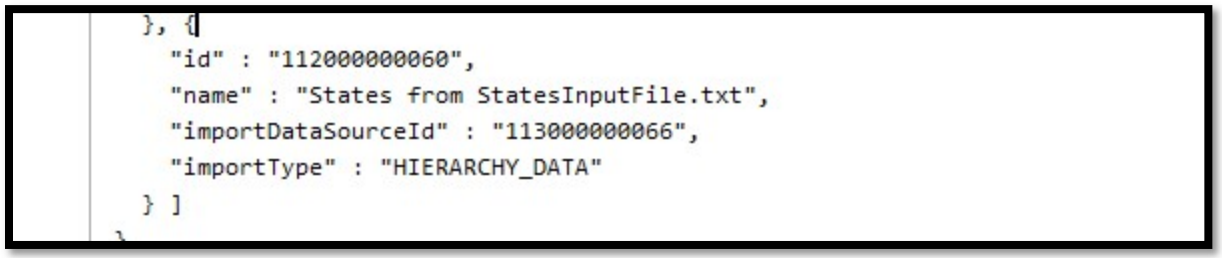
a. Use as below if Proxy is needed

b. Else use httpClient = HttpClientBuilder.create().build();

```
private void initHttpClient() {

    // For Proxy - remove is not required
    HttpHost proxyHostObject = new HttpHost(AppConstantsExt.PROXY_HOST.replace( target: "https://", replacement: ""),
            AppConstantsExt.PROXY_PORT);

    httpClient = HttpClientBuilder.create().setProxy(proxyHostObject)
            .setProxyAuthenticationStrategy(new ProxyAuthenticationStrategy())
            .build();

    /**
     * Use for Proxy else use only  'httpClient = HttpClientBuilder.create().build();'
     */
    httpClient = HttpClientBuilder.create().setProxy(proxyHostObject)
            .setProxyAuthenticationStrategy(new ProxyAuthenticationStrategy())
            .build();
```

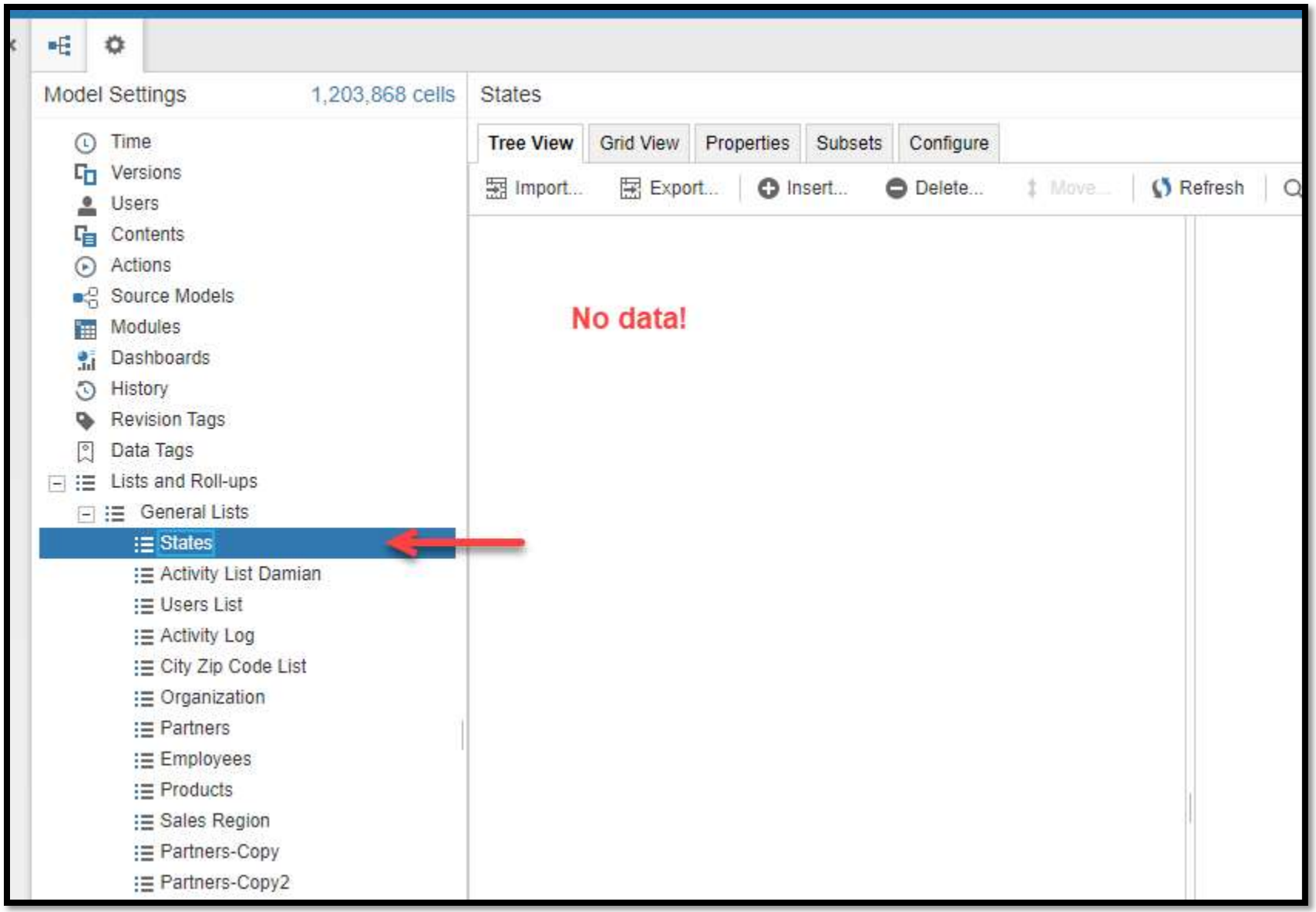
6. Compile

Sample: Imports

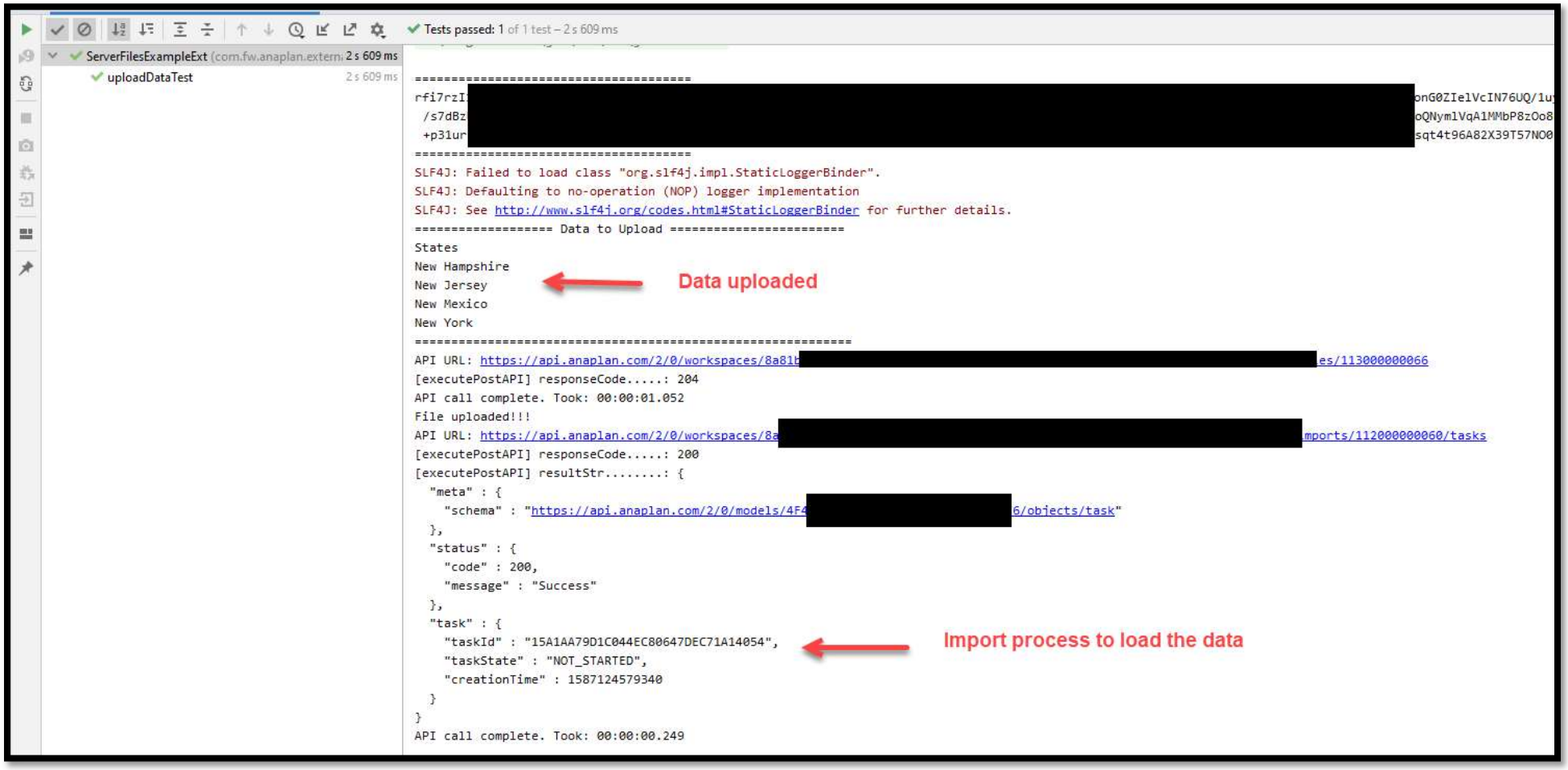


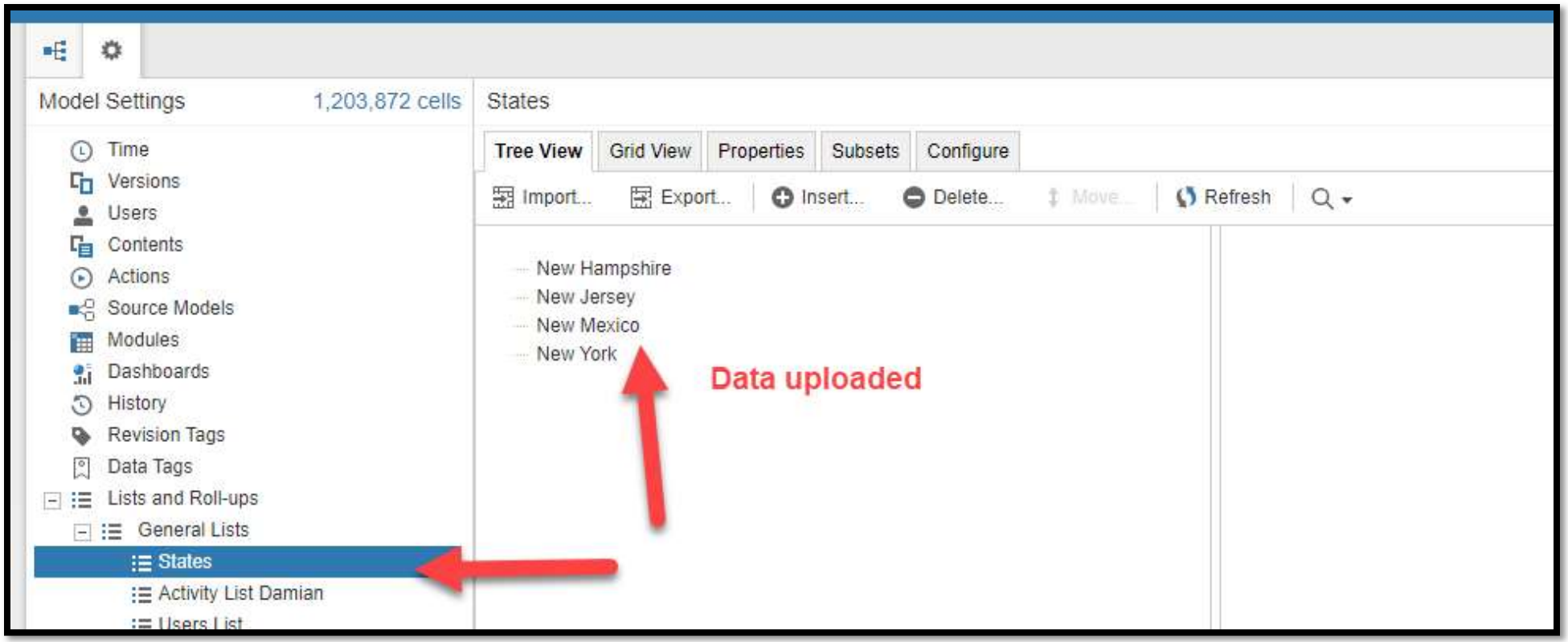
File Upload

1. Delete contents of the State list in Anaplan…List is now empty
2. Open **ServerFilesExampleExt.java**
    a. See test case **uploadDataTest**
    b. Read comments
    c. Then execute test to
        i. Upload data to Anaplan
        ii. Run Import to load data into list
3. Go back to Anaplan and check the States list…you will see data.


Model Settings
1,203,868 cells
Time
Versions
Users
Contents
Actions
Source Models
Modules
Dashboards
History
Revision Tags
Data Tags
Lists and Roll-ups
General Lists
States
Activity List Damian
Users List
Activity Log
City Zip Code List
Organization
Partners
Employees
Products
Sales Region
Partners-Copy
Partners-Copy2
States
Tree View
Grid View
Properties
Subsets
Configure
Import...
Export...
Insert...
Delete...
Move...
Refresh
No data!

Run the Code


Tests passed: 1 of 1 test – 2 s 609 ms
ServerFilesExampleExt (com.fw.anaplan.extern 2 s 609 ms
uploadDataTest 2 s 609 ms
==========
rfi7rzI[redacted]onG0ZIelVcIN76UQ/1u
/s7dBz[redacted]oQNymlVqA1MMbP8zOo8
+p31ur[redacted]sqt4t96A82X39T57NO0
==========
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
========== Data to Upload ==========
States
New Hampshire
New Jersey
New Mexico
New York
Data uploaded
==========
API URL: https://api.anaplan.com/2/0/workspaces/8a81b[redacted]es/113000000066
[executePostAPI] responseCode.....: 204
API call complete. Took: 00:00:01.052
File uploaded!!!
API URL: https://api.anaplan.com/2/0/workspaces/8a[redacted]mports/112000000060/tasks
[executePostAPI] responseCode.....: 200
[executePostAPI] resultStr........: {
"meta" : {
"schema" : "https://api.anaplan.com/2/0/models/4F4[redacted]6/objects/task"
},
"status" : {
"code" : 200,
"message" : "Success"
},
"task" : {
"taskId" : "15A1AA79D1C044EC80647DEC71A14054",
"taskState" : "NOT_STARTED",
"creationTime" : 1587124579340
}
}
Import process to load the data
API call complete. Took: 00:00:00.249


Model Settings
1,203,872 cells
Time
Versions
Users
Contents
Actions
Source Models
Modules
Dashboards
History
Revision Tags
Data Tags
Lists and Roll-ups
General Lists
States
Activity List Damian
Users List
States
Tree View
Grid View
Properties
Subsets
Configure
Import...
Export...
Insert...
Delete...
Move...
Refresh
New Hampshire
New Jersey
New Mexico
New York
Data uploaded