# **Arrow Platform**

**REST APIs** 





#### Arrow API Context

Arrow is set up to enable automatic, machine-to-machine, plan submission and result retrieval via REST APIs or Curl Commands

<b>External System</b> (e.g., Dynamics, Salesforce)	Arrow	Meta-driven Reports (for External System)
<b>System submits</b> Lat / longs and other meta- data about sites in an opportunity	<b>Arrow processes route paths</b> to each site submitted by the external system	Summary reports become available for retrieval
Specific meta data fields, e.g. site's expected revenue, can be customized to	Fiber paths, plan details, and financial statistics are generated for each request	Reports are fully customizable, and can be tailored client's needs
client's specific requirements		Typical reports include:
		• Fiber path(s) KML
		<ul> <li>Fiber and Equipment CapEx Summary</li> </ul>
		Target Location(s) connection length
		Reports can be retrieved as a single zip file of all reports or can be called individually



#### Arrow API Endpoints Summary There are 4 API endpoints that can be called by external systems

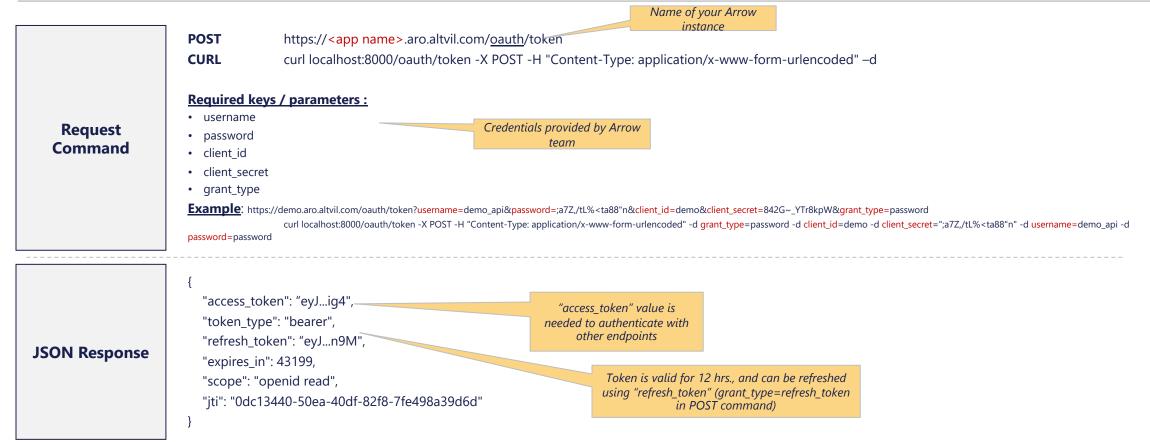
1 OAuth Authentication	<ul> <li>Log in and receive authentication token</li> <li>Use this token for all communication with other endpoints (e.g., submit plan)</li> </ul>
2 Submit Plan	Used to submit a plan to Arrow system
3 List of Available Reports	<ul> <li>Returns a list of reports and the way to call them</li> <li>Set up as a dynamic list of reports, which allows for easy addition and modification of existing reports, as needed</li> </ul>
4 Retrieve Individual Report	<ul> <li>Called to fetch individual report</li> <li>Report format can be specified (e.g., csv, json)</li> </ul>

Details on the following pages

#### API Details: OAuth Authentication

"OAuth" endpoint is used to log in and receive authentication token required to interact with all other Arrow endpoints

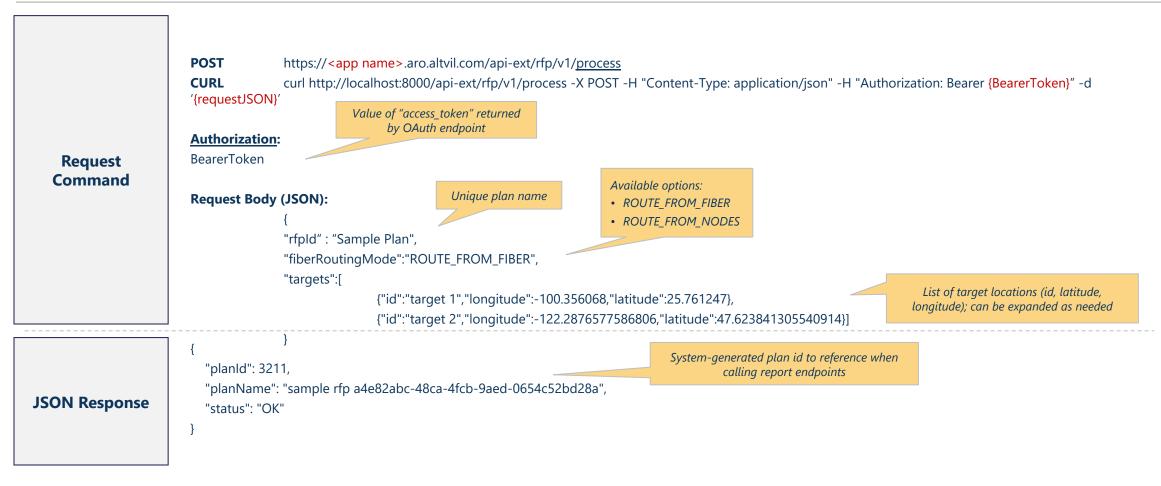
#### **O**Auth Authentication



#### API Details: Submit Plan

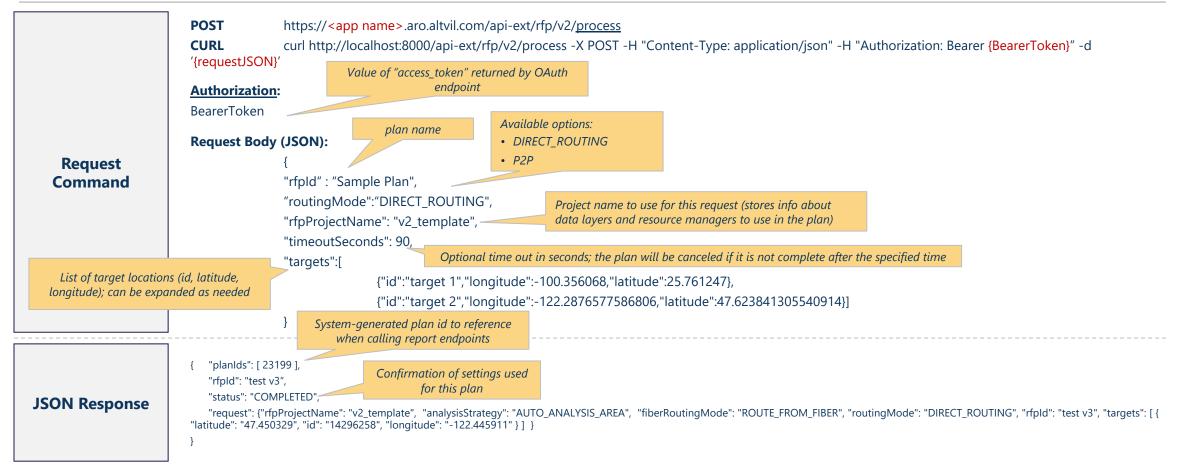
## "Process" v1 endpoint is used to define and submit basic RFP plan to Arrow

#### **2** Submit RFP v1 Plan



#### API Details: Submit Plan "Process" v2 endpoint is used to define and submit Direct Routing-type plans to Arrow

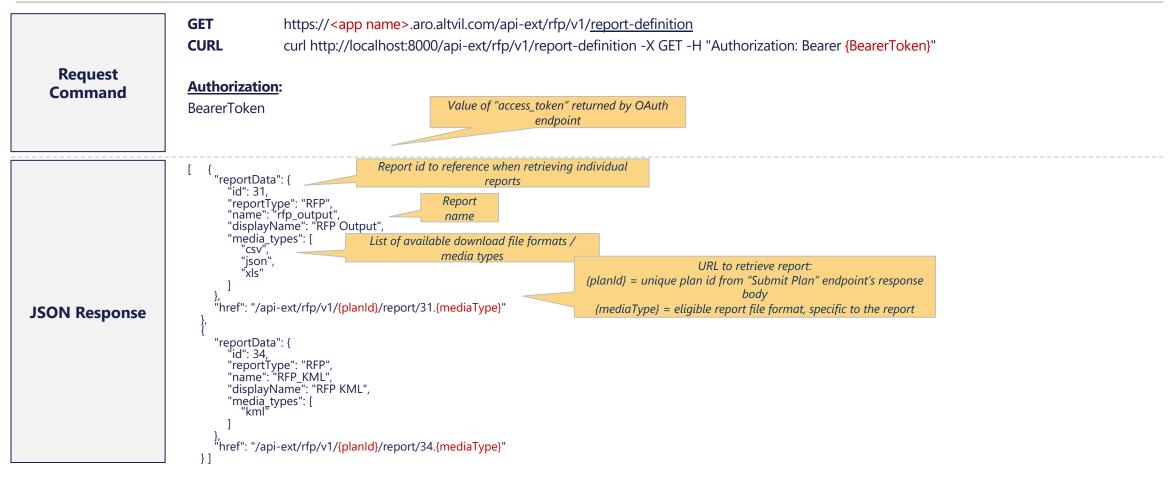
#### **2** Submit RFP v2 Plan



#### API Details: List of Available Reports

# "Report-definition" endpoint returns a dynamic list of available reports and the way to call them

#### **3** List of Available Reports



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### "Report" endpoint is used to fetch individual reports, once the plan is processed

#### **4** Retrieve Individual Reports

Request Command	GET       https:// <app name="">.aro.altvil.com/api-ext/rfp/v1/{planld}/report/{id}.{mediaType}         CURL       curl http://localhost:8000/api-ext/rfp/v1/{planld}/report/{id}.{mediaType} -X GET -H "Authorization: Bearer {BearerToken}"         Authorization:       Value of "access_token" returned by OAuth endpoint         BearerToken       Variables:         • {planld} - Unique report id provided in plan submission response         • {id} - id identifying specific report, from report-definition endpoint response         • {mediaType} - file extension code from list of available media types associated with given report         Example: https://demo.aro.altvil.com/api-ext/rfp/v1/3211/report/31.csv</app>
Response	"location_id","link_status","length_meters","segment_guid","segment_name","fiber_source" "target 2","not connected","0.0","NA","NA","NA","" "target 1","connected","4675.427178876296","NA","NA","Red Alestra" <i>Response data structure / layout depends on the media type selected for the report, e.g. csv</i>

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