In May 2013 President Obama signed into law Executive Order 13642, *Making Open and Machine Readable the New Default for Government Information*, in order to promote continued job growth, Government efficiency, and the social good that can be gained from opening Government data to the public. In order to facilitate the Open Data initiatives, Government information is managed as an asset throughout its life cycle to promote interoperability and openness, and, wherever possible and legally permissible, released to the public in ways that make the data easy to find, accessible, and usable.

NASA is committed to making its data available and machine-readable through an Application Programming Interface (API) to better serve its user communities. As such, the NASA TechPort system provides a RESTful web services API to make technology project data available in a machine-readable format. This API can be used to export TechPort data into either an XML or a JSON format, which can then be further processed and analyzed.

Complete documentation (in Swagger 2.0 format) of the available objects, properties, RESTful URIs is available in the online API specification at [http://techport.nasa.gov/api/specification](http://techport.nasa.gov/api/specification).

In general, queries can be issued to the system with the following URI format:

```
GET /api/projects/{id_parameter}
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required?</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>id_parameter</code></td>
<td>Yes</td>
<td>Type: int</td>
<td>The id value of the TechPort record. ID values can be obtained through the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Default: None</td>
<td>standard TechPort search feature and are visible in the website URLs, e.g.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><a href="http://techport.nasa.gov/view/00000">http://techport.nasa.gov/view/00000</a>,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>where 00000 is the ID value. Alternatively, a request to /api/projects</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>will display all valid IDs in the system.</td>
</tr>
</tbody>
</table>
Example usage:
http://techport.nasa.gov/api/projects/17792
Output: The output of this query is a JSON response with all field data of the TechPort record.

Example usage:
http://techport.nasa.gov/api/projects/17792.xml
Output: The output of this query is an XML response with all field data of the TechPort record.

Example usage:
http://techport.nasa.gov/api/projects
Output: The output of this query is a JSON response that lists all valid TechPort IDs that can be further queried with the API.

Example usage:
http://techport.nasa.gov/api/projects?updatedSince=2017-09-01
Output: The output of this query is a JSON response that lists all valid TechPort IDs that have been updated since September 1, 2017. The “updatedSince” parameter corresponds to the “lastUpdated” field within an individual item.

Example usage:
http://techport.nasa.gov/api/projects.xml
Output: The output of this query is an XML response that lists all valid TechPort IDs that can be further queried with the API.

Example usage:
http://techport.nasa.gov/api/
http://techport.nasa.gov/api/specification (alternate)
Output: The output of this query is a JSON response that describes the complete TechPort API specification in the swagger format.