## Rest Resources

|  |  |  |
| --- | --- | --- |
| **Resource** | **URL** | **Returns** |
| ArcGIS Server  Base URL | http://<hostname>/arcgis/rest/services/ | List of services |
| <http://3dcities.esri.com/arcgis/rest/services/> | |
| SceneServer | <ags-base-url>/<server-name>/SceneServer | Server info and list of available caches |
| <http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer> | |
| Layer | <**scene-server-url**>/layers/<layer-name> | Info about single layer (see 3dSceneLayer.js) |
| <http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings> | |
| Node | < **layer-url** >/nodes/<node-id> | Node file (json) |
| [http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings /nodes/51](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings%20/nodes/51) | |
| Shared Resources | <**node-url**>/shared/ | Shared resource data bundle for a node (symbology and materials) |
| [[http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings /nodes/51](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings%20/nodes/51)/shared](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/caches/Buildings/nodes/51/shared) | |
| Features | <**node-url**>/features/<feature-data-bundle-id> | Feature data bundle. |
| [[http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings /nodes/51](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings%20/nodes/51)/features/3](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/caches/Buildings/nodes/51/features/3) | |
| Geometries | <**node-url**>/geometries/<geometry-data-bundle-id> | Geometry data bundle. |
| [[http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings /nodes/51](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings%20/nodes/51)/geometries/3](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/caches/Buildings/nodes/51/geometries/3) | |
| Textures | <**node-url**>/textures/<texture-bundle-id> | Texture bundle |
| [http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings /nodes/51](http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings%20/nodes/51)/textures/3 | |

## Rest Operations

|  |  |  |  |
| --- | --- | --- | --- |
| **Operation Name** | **Parent Resource** | **Parameters** | **Returns** |
| Search | Scene Server | Text query string | Search results |
| <http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer>/Search?queryString=”technopark” | | |
| FindNode | Cache | Extent | The node id |
| [http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings/FindNode?sphere=”{x:52.1,y:34.2,z:0,r:50}](%20http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings/FindNode?sphere=”%7bx:52.1,y:34.2,z:0,r:50%7d)”  JSON fragment needs to be URL-encoded: http://<server-url>/layers/PublicBuildings/FindNode?sphere=”%7Bx%3A52.1%2Cy%3A34.2%2Cz%3A0%2Cr%3A50%7D” | | |
| Query | Layer | Existing map server query parameters | Query results |
| <http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings/query?whereClause=”treeHeight> > 10” | | |
| GetFeature | Cache | Cache Feature ID | The complete feature (attributes + geom + sym/mat + textures) |
| <http://3dcities.esri.com/arcgis/rest/services/zurich/SceneServer/layers/PublicBuildings/GetFeature?featureId=309432971018> | | |

## Global Parameters

|  |  |  |
| --- | --- | --- |
| **Name** | **Values** | **Description** |
| f | *json, pjson, html* (default) | Output is formatted by default as html page, unless *f=json* is provided |
| expand | Json object names to be replaced, i.e. *featureData* within a *node index* document. The specified json objects must include a *href* property. | For each of the json object names in the parameter values, replaces their content with the document that the specified object’s *href* property points to. |
| For example, in order to get the entire data ‘tile’ data for a specific node: [<**node-url**>?**expand**=featureData,geometryData,textureData,sharedResource](.) |