InsightCloud

API/Developer Documentation

Version 0.4 Beta

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InsightCloud – API/Developer Documentation

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Revision Table

Version Number	Date	Description	Authors
0.0 Beta	08/15/2014	First Draft for initial release	DigitalGlobe
0.1 Beta	02/11/2015	Second Draft updated to include new features and updated widgets.	DigitalGlobe
0.2 Beta	04/21/2015	Third Draft updated to include new features and updated widgets.	DigitalGlobe
0.3 Beta	05/27/2015	Fourth Draft updated to include new features and updated widgets.	DigitalGlobe
0.4 Beta	06/09/2015	Fifth Draft updated to include new features and updated widgets.	DigitalGlobe

1 Scope

1.1 Identification

This document applies to InsightCloud Version 0.4 Beta Dated 06/09/2015.

1.2 System Overview

The DigitalGlobe InsightCloud combines an open data processing environment with powerful geospatial analytic algorithms and easy to use tools. The result is that our customers are able to cost effectively exploit massive amounts of location data in near real-time. The InsightCloud abstracts data management, application logic, and the user experience. Our customers can fuse DigitalGlobe Geospatial Big DataTM with their native and 3rd party sources. Experts can design custom Map Algebra algorithms within our framework and our Open APIs enable our analytics to integrate into end user workflows.

Insight Explorer	A portfolio of "easy button" analytic applications that enable interactive mission planning and collaborative mapping at global scale
GBD Analytic Toolkit	A portfolio of geospatial analytic tools that enable interactive analysis of massive volumes of raster and vector data to enable mission planning, predictive modeling, and real-time situational awareness. The GBD Analytic Toolkit leverages the core algorithms of Signature Analyst TM a patented tool that discover unseen patterns in spatial data.
Geospatial Data Hub	A big data processing and exploitation environment built on the Cloudera Enterprise Data Hub that has been adapted to process and exploit high resolution imagery, terrain, map features, human geography, movement tracks, and social media at global scale.

InsightCloud can be delivered via an On-Premise or Software as a Service (SaaS) model. Our On-Premise solution operates within the emerging IC ITE and DCGS Architectures. Our SaaS model runs in the Amazon Cloud and our Classified Datacenter in Herndon, VA.

1.3 Document Overview

The purpose of this document is to:

• Identify the REST service calls made by the software.

• Provide example calls and example results for reference

2 Reference Documents

Document Name	Ver	Location
InsightCloud General Users Guide	0.0	
(GUG)	Beta	

3 CAS Authentication

The following is a sample Groovy script that walks through the authentication and access steps for users who want to access our data via direct calls through REST services. Before running the script, users may need to import the insightcloud.digitalglobe.der cert into the JRE cacerts file by downloading the cert and running this command:

sudo keytool -import -trustcacerts -alias insightcloud.digitalglobe.der -file /home/<user>/insightcloud.digitalglobe.der -keystore /usr/lib/jvm/java-7-oracle/jre/lib/security/cacerts

The sample Groovy script:

```
import java.io.IOException
import java.util.logging.Logger
import java.util.regex.Matcher
import java.util.regex.Pattern
import org.apache.commons.httpclient.HttpClient
import org.apache.commons.httpclient.NameValuePair
import org.apache.commons.httpclient.methods.PostMethod
import org.apache.commons.httpclient.methods.GetMethod
import org.apache.commons.httpclient.methods.DeleteMethod

@Grab("commons-httpclient:commons-httpclient:3.1")

class Client
{
    static final Logger LOG = Logger.getLogger(Client.class.getName())
    String getServiceTicket(String server, String ticketGrantingTicket, String service)
    {
        if (!ticketGrantingTicket)
            return null
```

```
HttpClient client = new HttpClient()
  PostMethod post = new PostMethod("$server/$ticketGrantingTicket")
  post.setRequestBody([new NameValuePair("service", service)].toArray(new
NameValuePair[1]))
  try
   client.executeMethod(post)
   String response = post.getResponseBodyAsString()
   switch (post.getStatusCode())
   {
     case 200:
      return response
     default:
      LOG.warning("Invalid response code ( $post.getStatusCode() ) from CAS server!")
      LOG.info("Response (1k): " + response.substring(0, Math.min(1024, response.length())))
      break
   }
  }
  catch (final IOException e)
   LOG.warning(e.getMessage())
  finally
   post.releaseConnection()
  return null
 String getTicketGrantingTicket(String server, String username, String password)
  HttpClient client = new HttpClient()
  PostMethod post = new PostMethod(server)
  post.setRequestBody([new NameValuePair("username", username),new
NameValuePair("password", password)].toArray(new NameValuePair[2]))
  try
   client.executeMethod(post)
   String response = post.getResponseBodyAsString()
   switch (post.getStatusCode())
   {
     case 201:
      Matcher matcher = Pattern.compile(".*action=\".*/(.*?)\".*").matcher(response)
      if (matcher.matches())
        return matcher.group(1)
      LOG.warning("Successful ticket granting request, but no ticket found!")
      LOG.info("Response (1k): " + response.substring(0, Math.min(1024, response.length())))
      break
     default:
      LOG.warning("Invalid response code (${post.getStatusCode()}) from CAS server!")
      LOG.info("Response: $response")
      break
   }
  }
```

```
catch (final IOException e)
    LOG.warning(e.getMessage())
  finally
    post.releaseConnection()
  return null
 void notNull(Object object, String message)
  if (object == null)
    throw new IllegalArgumentException(message)
 void getServiceCall(HttpClient client, String service, String serviceTicket) {
    GetMethod method = new GetMethod(service)
    method.setQueryString([new NameValuePair("ticket", serviceTicket)].toArray(new
NameValuePair[1]))
    try
     client.executeMethod(method)
     String response = method.getResponseBodyAsString()
     switch (method.getStatusCode())
      case 200:
        LOG.info("Response: $response")
        break
      default:
        LOG.warning("Invalid response code (" + method.getStatusCode() + ") from CAS
server!")
        LOG.info("Response: $response")
        break
    catch (final IOException e)
     LOG.warning(e.getMessage())
    finally
    {
      method.releaseConnection()
 void logout(String server, String ticketGrantingTicket) {
    HttpClient client = new HttpClient()
    DeleteMethod method = new DeleteMethod("$server/$ticketGrantingTicket")
    try
     client.executeMethod(method)
     switch (method.getStatusCode())
      case 200:
```

```
LOG.info("Logged out")
        break
       default:
        LOG.warning("Invalid response code (" + method.getStatusCode() + ") from CAS
server!")
        LOG.info("Response: $response")
        break
    catch (final IOException e)
     LOG.warning(e.getMessage())
    finally
    {
       method.releaseConnection()
    }
 }
 public static void main(String[] args)
     String server = "https://insightcloud.digitalglobe.com/cas/v1/tickets"
     String username = "user.name"
     String password = "user.password"
     String authEndpoint = "https://insightcloud.digitalglobe.com/monocle-
3/i spring cas security check"
     String apiEndpoint = "https://insightcloud.digitalglobe.com/monocle-
3/app/broker/mrgeo/Comms/datasources"
     Client client = new Client()
     // get a ticket-granting ticket from CAS
     String ticketGrantingTicket = client.getTicketGrantingTicket(server, username, password)
     println "TicketGrantingTicket is $ticketGrantingTicket"
     // get a service ticket to access the app
     String serviceTicket = client.getServiceTicket(server, ticketGrantingTicket, authEndpoint)
     println "ServiceTicket is $serviceTicket"
     // CAS puts something in the client's store, so must reuse the client
     HttpClient http = new HttpClient()
     // authenticate with the ticket
     client.getServiceCall(http, authEndpoint, serviceTicket)
     // actually make the API call we want
     client.getServiceCall(http, apiEndpoint, serviceTicket)
     // logout from CAS
     client.logout(server, ticketGrantingTicket)
 }
```

4 External REST calls

The following are examples of the interaction between the UI and the external services REST calls that are triggered by each widget.

4.1 Terrain

4.1.1 Comms

The Comms widget provides the analyst with a visual output of radio frequency propagation using a set of criteria and an available DEM. It calculates radio frequency propagation loss against surrounding terrain based on Longley-Rice Irregular Terrain Model algorithm for radio frequency propagation loss. RF propagation result is filtered based on a supplied maximum path loss. The end result for each cell is the number of cells within a radius of interest below or equal to the maximum path loss.

4.1.1.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
BBOX	Float	<none></none>	False	False	Coordinates in decimal degrees, separated by commas, of the bounding box corners. In order, these coordinates are Lower Left Lon, Lower Left Lat, Upper Right Lon, Upper Right Lat; bbox always surrounds the origin point. BBOX=49.122,14.554,4 9.134,14.565 for example
Datasource	String	ASTER1	True	False	The analytic to operate on such as ASTER1
frequency	Float	300.0	False	False	The frequency of radio signal in MHz (20 MHz to 20 GHz)
outerRadius	Float	3000.0	False	False	The outer radius of the source transmission to consider for each cell

Parameters	Type	Default	Optional	Multiple	Description
					(meters).
					The height of the
transmitterHeight	Float	10.0	False	False	transmitting antenna
transmitterrieight	Tioat	10.0	raise	raise	above the terrain
					(meters).
					An x/y coordinate pair
					for a transmitting
					tower's location. Repeat
transmitterCoord	Point2	<none></none>	True	True	parameter for multiple
					transmitters. Can be
					substituted with
					inputPoints1 data source
					The height of the
receiverHeight	Float	10.0	False	False	receiving antenna above
					the terrain (meters).
					A measure used to
					describe the expected
					number of
confidence	Float	0.5	False	False	measurements be a
					given signal strength
					from multiple locations
					at a time t (0.0 to 1.0)
					The Earth's conductivity
earthConductivity	Float	0.005	False	False	for the terrain of the
cartificonductivity	Tioat	0.003	1 disc	1 disc	region of interest
					(Siemens per meter)
					The Earth's dielectric
earthDialectric	Float	15.0	False	False	constant for the terrain
cartiiBiaicetiie	Tiout	13.0	T disc	1 disc	of the region of interest
					(Relative permittivity)
					The polarity of the radio
polarity	Integer	0	False	False	signal (0 = horizontal
					and 1 = vertical).
					A measure used to
reliability	Float	0.5	False	False	describe the expected
Tollwolling	1 Iout		T uibe	- uibe	percentage over a period
					of time at a target

Parameters	Type	Default	Optional	Multiple	Description
					location the signal will
					be at least a given signal
					strength (0.0 to 1.0)
					A description of the
					environment of the
					region of interest (1 =
					Equatorial, 2 =
					Continental Subtropical,
					3 = Maritime
radioClimate	Integer	5	False	False	Subtropical, 4 = Desert,
					5 = Continental
					Temperate, 6 =
					Maritime Temperate,
					Over Land, 7 =
					Maritime Temperate,
					Over Sea).
					The Atmospheric
surfaceRefractivity	Float	301.0	False	False	Bending Constant (N-
					Units).
					Determines the type of
					color scheme (one of
colorType	String	COLORSCALE	True	False	COLOR,
					COLORSCALE,
					COLORMAP)
		204:215+48+39			
		+148,153:252+			
		141+89+148,10			Color values separated
colorString	String	2:254+224+139	True	False	by '+' 1:255+0+0+148
		+148,51:145+2			for example
		07+96+148,0:2			
		6+152+80+148			
					The filetpye of the
£1T	G4 ·	IZM/Z	T	F-1	return, PNG, GeoTIFF,
fileType	String	KMZ	True	False	and KMZ are supported;
					DOWNLOAD only
					Resulting filename;
fileName	String	<none></none>	True	False	DOWNLOAD only
					DO WILDOWD Only

Table 4.1 Comms RFP Parameters

Origin Array String (transmitterCoord)

Origin Array String must be built in one of two ways. With only one Orgin point "ORIGINPOINT:-117.96122799195+38.019902697754" or with multiple points* "ORIGINPOINT:-117.96122799195+38.019902697754,originPoint:-

117.97152767457+38.044965258789,originPoint:-

117.9198576001+38.027627459717,originPoint:-

117.97959575928+38.033807269287"

**User beware*: Comms RFP multiple point Origin Array String has little testing; issues may be present.

Parameters	Limits
Longitude	Between -180 and 180 degrees inclusive
Latitude	Between -90 and 90 degrees inclusive
Datasource	One of: ASTER1, SRTM3, SAAB2M
OuterRadius	Between 1 and 50000 meters inclusive
TransmitterHeight	Between 0 and 5000 meters inclusive
ReceiverHeight	Between 0 and 5000 meters inclusive
Confidence	Between 0 and 1 inclusive
Reliability	Between 0 and 1 inclusive
Polarity	One of '0', '1' where 0=horizontal and 1=vertical
FrequencyMhz	Between 1 and 20000 inclusive
FrequencyGhz	Between 0.001 and 20 inclusive
outputType	One of 'MAX', 'SUM' (may be any case)
fileType	One of 'PNG', 'GEOTIFF', 'KMZ' (may be any case)

Table 4.2 Comms RFP Parameter Limits

4.1.1.2 Steps for REST View

Basic call format: https://iipbeta.digitalglobe.com/monocle-

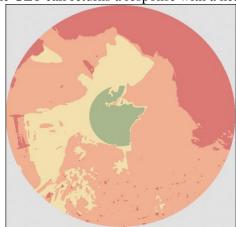
3/app/broker/mrgeo/Comms;REQUEST=Execute;DataSource={source};BBOX={LLLon,LLLat,URLon,URLat};Operation=LegionRfPropagationOperation;ColorType={type};ColorString={string};originPoint={Lon+Lat};outerRadius={value};transmitterHeight={value};receiverHeight={value};confidence={value};earthConductivity={value};earthDialectric={value};polarity={value};reliability={value};radioClimate={value};surfaceRefractivity={value};frequency={value}

1. Submit a GET request to view a Comms RFP analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/Comms;REQUEST=Execute;DataSource=SAAB2M;BBO X=49.121966550803,14.553690517217,49.134085237527,14.565494088272; Operation=LegionRfPropagationOperation;ColorType=colorscale;ColorString =204:215+48+39+148,153:252+141+89+148,102:254+224+139+148,51:126 +152+80+148,0.0001:26+152+80+148;originPoint=49.128025894165+14.55 959230423;outerRadius=653;transmitterHeight=5;receiverHeight=5;confiden ce=.5;earthConductivity=0.005;earthDialectric=15;polarity=0;reliability=.5;ra dioClimate=1;surfaceRefractivity=301;frequency=15000

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:



4.1.1.3 Steps for REST Download

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/Comms;REQUEST=Execute;DataSource={source};BBOX={LLLon,LLLat,URLon,URLat};Operation=LegionRfPropagationOperation;ColorType={type};ColorString={string};originPoint={Lon+Lat};outerRadius={value};transmitterHeight={value};receiverHeight={value};confidence={value};earthConductivity={value};redioClimate={value};surfaceRefractivity={value};frequency={value};fileType={type};filename={string}

1. Submit a GET request to download a Comms RFP analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/Comms/download;REQUEST=Execute;DataSource=SAAB2 M;BBOX=49.121966550803,14.553690517217,49.134085237527,14.565494 088272;Operation=LegionRfPropagationOperation;ColorType=colorscale;ColorString=204:215+48+39+148,153:252+141+89+148,102:254+224+139+148,51:126+152+80+148,0.0001:26+152+80+148;originPoint=49.128025894165

+14.55959230423;outerRadius=653;transmitterHeight=5;receiverHeight=5;confidence=.5;earthConductivity=0.005;earthDialectric=15;polarity=0;reliability=.5;radioClimate=1;surfaceRefractivity=301;frequency=15000;fileType=kmz;filename=CommsTEST

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a download; save or open at user discretion.

4.1.2 Cumulative Viewshed (Cumulative VS)

The Cumulative Viewshed analytic computes a viewshed within a given area of interest from a specified observation point and a search radius. The resulting image creates a Cumulative Exposure Grid (CEG) where each pixel represents the percentage of the surrounding area that is viewable within the specified search radius.

4.1.2.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
Left	Float	<none></none>	False	False	Longitude in decimal degrees of the lower left bounding box corner
Bottom	Float	<none></none>	False	False	Latitude in decimal degrees of the lower left bounding box corner
Right	Float	<none></none>	False	False	Longitude in decimal degrees of the upper right bounding box corner
Тор	Float	<none></none>	False	False	Latitude in decimal degrees of the upper right bounding box corner
Datasource	String	ASTER1	True	False	The analytic to operate on such as ASTER1
ObserverHeight	Float	2	True	False	Height of the observer's view above the current elevation (meters)
TargetHeight	Float	0.01	True	False	Maximum height of the target above the elevation of its location (meters)

Parameters	Type	Default	Optional	Multiple	Description
InnerRadius	Float	0	True	False	Inner radius of region around observer cell to compute the viewshed (meters)
OuterRadius	Float	10000	True	False	Outer radius of region around observer cell to compute the viewshed (meters)
UpperVertAngle	Float	90	True	False	Upper angle of the observer's view above the horizon (degrees)
LowerVertAngle	Float	-90	True	False	Lower angle of the observer's view below the horizon (degrees)
sAzimuth	Float	0	True	False	Beginning azimuth angle of the observer's view in the horizontal plane with north equal to 0 (degrees)
eAzimuth	Float	360	True	False	Ending azimuth angle of the observer's view in the horizontal plane with north equal to 0 (degrees)
ColorType	String	COLORSCALE	True	False	Determines the type of color scheme (one of COLOR, COLORSCALE, COLORMAP)
Color	String	1:215+48+39+14 8,2:252+141+89 +148,3:254+224 +139+148, 4:217+239+139+ 148,5:145+207+ 96+148,6:26+15 2+80+148	True	False	Color values separated by '+' 1:255+0+0+148 for example
fileType	String	KMZ	True	False	The filetpye of the return, PNG, GeoTIFF, and KMZ are supported; DOWNLOAD only

Parameters	Type	Default	Optional	Multiple	Description
fileName	String	<none></none>	True	False	Resulting filename; DOWNLOAD only
normalize	String	RADIUS	True	False	Optional parameter to normalize results (RADIUS, or MINMAX). If not set then results are defaulted to RADIUS.
normalizeScaleV alue	String	100	True	False	Optional parameter as the maximum of the linear scale range after normalizing.

Table 4.3 Cumulative Viewshed Parameters

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Bottom	Between -90 and 90 degrees inclusive
Тор	Between -90 and 90 degrees inclusive
Datasource	One of: ASTER1, SRTM3, SAAB2M
ObHeight	Between 0.01 and 20000 meters inclusive
TargHeight	Between 0.01 and 20000 meters inclusive
InnerRadius	Between 0 and 50000 meters inclusive and ALSO less than OuterRadius
OuterRadius	Between 1 and 50000 meters inclusive
UVA	Between -90 and 90 degrees inclusive
LVA	Between -90 and 90 degress inclusive and ALSO is less than UpperVertAngle
sAzimuth	Between 0 and 360 degrees and ALSO is less than eAzimuth
eAzimuth	Between 0 and 360 degrees
normalize	One of 'RADIUS', 'MINMAX' (may be any case)
normalizeScaleV alue	Between 1.0 and 1000 inclusive
fileType	One of 'PNG', 'GEOTIFF', 'KMZ' (may be any case)

Table 4.4 Cumulative Viewshed Parameter Limits

4.1.2.2 Steps for REST View

Basic Call: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/massvs;DataSource={source};Left={value};Bottom={value};Right={value};Top={value};ObHeight={value};TargHeight={value};InnerRadius={value};LVA={value};UVA={value};sAzimuth={value};eAzimuth={value};colorType={type};color={string};normalize={string};normalizeScaleValue={value};OuterRadius={value}

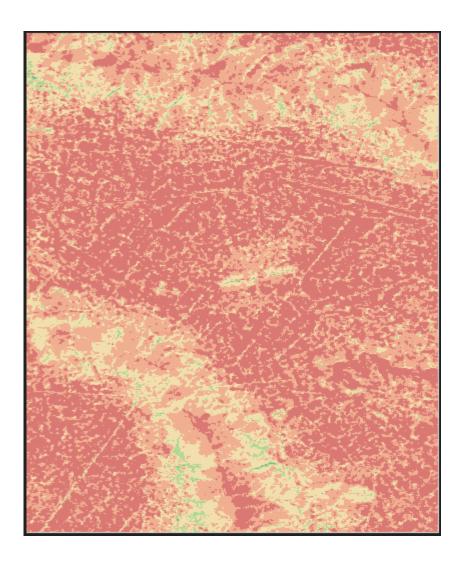
1. Submit a GET request to view a Cumulative Viewshed analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/massvs;DataSource=ASTER1;Left=68.025135546875;Bottom =33.896753222656;Right=70.332264453125;Top=35.187646777344;ObHeight=2.0 0;TargHeight=0.01;InnerRadius=0;LVA=-

90.0; UVA=90.0; sAzimuth=0; eAzimuth=360; colorType=Colorscale; color=80:26+15 2+80+148,60:145+207+96+148,40:254+224+139+148,20:252+141+89+148,0:215+48+39+148; normalize=MINMAX; normalizeScaleValue=100; OuterRadius=1000.0

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
 - 3. The GET call returns a response with a header of 200 OK and a body of:



4.1.2.3 Steps for REST Download

Basic Call: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/massvs;DataSource={source};Left={value};Bottom={value};Right={value};Top={value};ObHeight={value};TargHeight={value};InnerRadius={value};LVA={value};UVA={value};sAzimuth={value};eAzimuth={value};colorType={type};color={string};normalize={string};normalizeScaleValue={value};OuterRadius={value};fileType={type};filename={string}

1. Submit a GET request to download a Cumulative Viewshed analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/massvs;DataSource=ASTER1;Left=68.025135546875;Bottom=33. 896753222656;Right=70.332264453125;Top=35.187646777344;ObHeight=2.00;TargHe ight=0.01;InnerRadius=0;LVA=-

90.0; UVA = 90.0; sAzimuth = 0; eAzimuth = 360; colorType = Colorscale; color = 80:26 + 152 + 80 + 148, 60:145 + 207 + 96 + 148, 40:254 + 224 + 139 + 148, 20:252 + 141 + 89 + 148, 0:215 + 48 + 39 + 148, 20:252 + 141 + 148, 20:252 +

48; normalize = MINMAX; normalize Scale Value = 100; Outer Radius = 1000.0; file Type = kmz; file name = CumVSTEST

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a download; save or open at user discretion.

4.1.3 Sightline

The SightLine analytic provides the analyst with a visual line of sight output for any origin point and a given elevation model. This ability to quickly identify areas of high/low visibility provides a logistic advantage to analysts who need to ensure the success of a route where concealment or exposure becomes an issue.

4.1.3.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
Left	Float	<none></none>	False	False	Longitude in decimal degrees of the lower left bounding box corner
Bottom	Float	<none></none>	False	False	Latitude in decimal degrees of the lower left bounding box corner
Right	Float	<none></none>	False	False	Longitude in decimal degrees of the upper right bounding box corner
Тор	Float	<none></none>	False	False	Latitude in decimal degrees of the upper right bounding box corner
OrgArrayString	String	<none></none>	False	False	Can be built in one of two ways. With only one Origin point (See below)
Datasource	String	ASTER1	True	False	The analytic to operate on such as ASTER1
ObserverHeight	Float	2	True	False	Height of the observer's view above the current elevation (meters)
TargetHeight	Float	0.01	True	False	Maximum height of the target above the elevation of its location (meters)

Parameters	Type	Default	Optional	Multiple	Description
					Inner radius of region
InnerRadius	Float	0	True	False	around observer cell to
Innerradius	Tioat				compute the viewshed
					(meters)
					Outer radius of region
OuterRadius	Float	10000	True	False	around observer cell to
OuterRadius	Tioat	10000	Truc	Taise	compute the viewshed
					(meters)
					Upper angle of the
UpperVertAngle	Float	90	True	False	observer's view above the
					horizon (degrees)
					Lower angle of the
LowerVertAngle	Float	-90	True	False	observer's view below the
				horizon (degrees)	
					Beginning azimuth angle
sAzimuth	Elect	0	True	False	of the observer's view in
SAZIIIIuuii	Float				the horizontal plane with
					north equal to 0 (degrees)
	Float	360	True	False	Ending azimuth angle of
a A =:					the observer's view in the
eAzimuth					horizontal plane with
					north equal to 0 (degrees)
					Defines how viewsheds
					from multiple sources are
					aggregated. The default
outputType	String	MAX	True	False	MAX simply overlaps the
					viewsheds while SUM
					will add 1 to an output
					pixel for each overlap.
					Determines the type of
1 70	g	COLODIALD	T.	F 1	color scheme (one of
colorType	String	COLORMAP	True	False	COLOR, COLORSCALE,
					COLORMAP)
		1.0.055.0.110			Color values separated by
color	String	1:0+255+0+148, 0:255+0+0+148	True	False	'+' 1:255+0+0+148 for
	Dunig		1100	1	example
					The filetpye of the return,
fileType	String	KMZ	True	False	PNG, GeoTIFF, and KMZ
					are supported;
	1		<u> </u>	<u> </u>	

Parameters	Type	Default	Optional	Multiple	Description
					DOWNLOAD only
fileName	String	<none></none>	True	False	Resulting filename; DOWNLOAD only

Table 4.5 Sightline Parameters

Origin Array String

Origin Array String must be built in one of two ways. With only one Orgin point "ORIGINPOINT:-117.96122799195+38.019902697754" or with multiple points* "ORIGINPOINT:-117.96122799195+38.019902697754,originPoint:-

117.97152767457+38.044965258789,originPoint:-

117.9198576001+38.027627459717,originPoint:-

117.97959575928+38.033807269287"

^{*}*User beware*: Sightline multiple point Origin Array String has little testing; issues may be present.

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Bottom	Between -90 and 90 degrees inclusive
Тор	Between -90 and 90 degrees inclusive
Datasource	One of: ASTER1, SRTM3, SAAB2M
ObserverHeight	Between 0.01 and 20000 meters inclusive
TargetHeight	Between 0.01 and 20000 meters inclusive
InnerRadius	Between 0 and 50000 meters inclusive and ALSO less than OuterRadius
OuterRadius	Between 1 and 50000 meters inclusive
UpperVertAngle	Between -90 and 90 degrees inclusive
LowerVertAngle	Between -90 and 90 degress inclusive and ALSO is less than UpperVertAngle
sAzimuth	Between 0 and 360 degrees and ALSO is less than eAzimuth
eAzimuth	Between 0 and 360 degrees
outputType	One of 'MAX', 'SUM' (may be any case)
fileType	One of 'PNG', 'GEOTIFF', 'KMZ' (may be any case)

Table 4.6 Sightline Parameter Limits

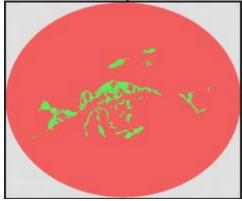
4.1.3.2 Steps for REST View

Basic Call: https://iipbeta.digitalglobe.com/monocle-3/app/broker/mrgeo/sightline;
DataSource={source};Left={value};Bottom={value};Top={value};Right={value};OrgArrayString=ORIGINPOI
NT:{Lon+Lat};ObHeight={value};TargHeight={value};OuterRadius={value};LVA={value};UVA={value};sAzim
uth={value};eAzimuth={value};outputType={string};colorType={type};color={string}

1. Submit a GET request to view a Sightline analytic. The REST call via monocle-3 application will look similar to the following:

 $https://iipbeta.digitalglobe.com/monocle-3/app/broker/mrgeo/sightline;\\ DataSource=ASTER1;Left=69.482239816957;Bottom=34.070273567385;Top=34.250575106212;Right=69.699134183043;OrgArrayString=ORIGINPOINT:69.590687+34.160425;ObHeight=2.00;TargHeight=0.01;OuterRadius=10000;LVA=90.0;UVA=90.0;sAzimuth=0;eAzimuth=360;outputType=MAX;colorType=ColorMap;color=1:0+255+0+148,0:255+0+0+148$

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:



4.1.3.3 Steps for REST Download

Basic Call: https://iipbeta.digitalglobe.com/monocle-3/app/broker/mrgeo/sightline;
DataSource={source};Left={value};Bottom={value};Top={value};Right={value};OrgArrayString=ORIGINPOI
NT:{Lon+Lat};ObHeight={value};TargHeight={value};OuterRadius={value};LVA={value};UVA={value};sAzim
uth={value};eAzimuth={value};outputType={string};colorType={type};color={string};fileType={type};filena
me={string}

1. Submit a GET request to download a Sightline analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/mrgeo/sightline/download; DataSource=ASTER1;Left=69.482239816957;Bottom=34.070273567385;Top=34.2

50575106212;Right=69.699134183043;OrgArrayString=ORIGINPOINT:69.590687 +34.160425;ObHeight=2.00;TargHeight=0.01;OuterRadius=10000;LVA=90.0;UVA=90.0;sAzimuth=0;eAzimuth=360;outputType=MAX;colorType=ColorMap;color=1:0+255+0+148,0:255+0+0+148;fileType=kmz;filename=SightlineTEST

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a download; save or open at user discretion.

4.1.4 Sitescan

The Sitescan analytic computes the Topographic Position Index (TPI). The TPI algorithm compares each target raster cell and an annular neighborhood defined between the inner and outer radii, and performs a basic landform classification to isolate the Ridge, Upper Slope, Middle Slope, Flat Slope, Lower Slope and Valley classes.

4.1.4.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
Left	Float	<none></none>	False	False	Longitude in decimal degrees of the lower left bounding box corner
Bottom	Float	<none></none>	False	False	Latitude in decimal degrees of the lower left bounding box corner
Right	Float	<none></none>	False	False	Longitude in decimal degrees of the upper right bounding box corner
Тор	Float	<none></none>	False	False	Latitude in decimal degrees of the upper right bounding box corner
Datasource	String	ASTER1	True	False	The analytic to operate on such as ASTER1
InnerRadius	Float	0	True	False	The inner radius of the annular neighborhood around each cell (meters).

Parameters	Type	Default	Optional	Multiple	Description
outerRadius	Float	1000	True	False	The outer radius of the annular neighborhood around each cell (meters).
colorType	String	COLORMAP	True	False	Determines the type of color scheme (one of COLOR, COLORSCALE, COLORMAP)
Color	String	1:215+48+39+1 48,2:252+141+ 89+148,3:254+ 224+139+148, 4:217+239+139 +148,5:145+20 7+96+148,6:26 +152+80+148	True	False	Color values separated by '+' 1:255+0+0+148 for example
fileType	String	KMZ	True	False	The filetpye of the return, PNG, GeoTIFF, and KMZ are supported; DOWNLOAD only
fileName	String	<none></none>	True	False	Resulting filename; DOWNLOAD only

Table 4.7 Sitescan Parameters

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Bottom	Between -90 and 90 degrees inclusive
Тор	Between -90 and 90 degrees inclusive
DataSource	One of: ASTER1, SRTM3
OuterRadius	Between 1 and 25000 inclusive
InnerRadius	Between 0 and 25000 inclusive and ALSO less than OuterRadius
fileType	One of 'PNG', 'GEOTIFF', 'KMZ' (may be any case)

Table 4.8 Sitescan Parameter Limits

4.1.4.2 Steps for REST View

Basic Call: https://iipbeta.digitalglobe.com/monocle-

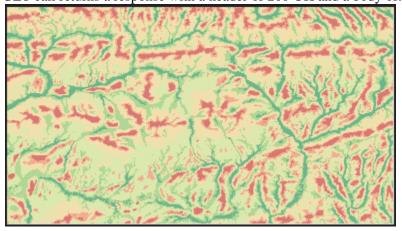
3/app/broker/mrgeo/sitescan;DataSource={source};Left={value};Bottom={value};Right={value};Top={value};ColorType={type};Color={string};OuterRadius={value};InnerRadius={value}

1. Submit a GET request to view a Cumulative Viewshed analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/sitescan;DataSource=ASTER1;Left=68.601917773438;Bottom =34.219476611328;Right=69.755482226563;Top=34.864923388672;ColorType=ColorMap;Color=1:215+48+39+148,2:252+141+89+148,3:254+224+139+148,4:217+239+139+148,5:145+207+96+148,6:26+152+80+148;OuterRadius=1000.00;InnerRadius=0.00

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:



4.1.4.3 Steps for REST Download

Basic Call: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/sitescan;DataSource={source};Left={value};Bottom={value};Right={value};Top={value};ColorType={type};Color={string};OuterRadius={value};InnerRadius={value};fileType={type};filename={string}

1. Submit a GET request to download a Sitescan analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/sitescan;DataSource=ASTER1;Left=68.601917773438;Bottom=34.219476611328;Right=69.755482226563;Top=34.864923388672;ColorType=ColorMap;Color=1:215+48+39+148,2:252+141+89+148,3:254+224+139+148,4:217+239+139+148,5:145+207+96+148,6:26+152+80+148;OuterRadius=1000.00;InnerRadius=0.00;fileType=kmz;filename=SitescanTEST

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a download; save or open at user discretion.

4.1.5 Touchdown (HLZ)

The Touchdown (HLZ) identifies suitable landing pad locations for different helicopters based on an origin location (dropped on the map in the viewport), LiDAR/DEM elevation source, Helicopter Type, Time of Day and Environmental Conditions.

4.1.5.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
Left	Float	<none></none>	False	False	Longitude in decimal degrees of the lower left bounding box corner
Bottom	Float	<none></none>	False	False	Latitude in decimal degrees of the lower left bounding box corner
Right	Float	<none></none>	False	False	Longitude in decimal degrees of the upper right bounding box corner
Тор	Float	<none></none>	False	False	Latitude in decimal degrees of the upper right bounding box corner
Datasource	String	<none></none>	False	False	The elevation dataset to operate on such as BUCKEYE
Color	String	0,255,0	True	False	RGB color to render the HLZ
HlzDiameter	Float	25	True	False	Diameter of the HLZ touchdown area (meters)
MaxHlzSlope	Float	7	True	False	Maximum slope of the HLZ touchdown area (percent)

Parameters	Type	Default	Optional	Multiple	Description
ObstacleRadius	Float	125	True	False	Radius of obstacle avoidance (meters)
ApproachAngle	Float	10	True	False	Angle of approach to the HLZ
HoverHeight	Float	0	True	False	Hover height above HLZ (meters)
fileType	String	KMZ	True	False	The filetpye of the return, PNG, GeoTIFF, and KMZ are supported; DOWNLOAD only
fileName	String	<none></none>	True	False	Resulting filename; DOWNLOAD only

Table 4.9 HLZ/Touchdown Parameters

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Bottom	Between -90 and 90 degrees inclusive
Тор	Between -90 and 90 degrees inclusive
Datasource	One of: SAAB2m
hlzDiameter	Between 0 and 250 meters inclusive
maxHlzSlope	Between 0 and 90 degrees inclusive
obstacleRadius	Between 0 and 500 meters inclusive
approachAngle	Between 0 and 90 degrees inclusive
hoverHeight	Between 0 and 100 meters inclusive
fileType	One of 'PNG', 'GEOTIFF', 'KMZ' (may be any case)

Table 4.10 HLZ/Touchdown Parameter Limits

There are three pseudo-parameters in Touchdown (HLZ) that are used in the UI to quickly set the parameters for HLZ Diameter, Maximum HLZ Slope, Obstacle Radius, Approach Angle, and Hover Height. These pseudo-parameters are not involved in the REST calls to retrieve HLZ rasters.

Pseudo-Parameter	UI Name	REST Call Name
Helicopter Type	MH-6 / AH-6	MH-6%2520%252F%2520AH-6

Pseudo-Parameter	UI Name	REST Call Name
Helicopter Type	UH-72A / OH-58D	UH-72A%2520%252F%2520OH-
Tiencopier Type	011-72/17 011-30D	58D
		AH-
Helicopter Type	AH-1W/Z / AH-64 / UH-1Y/N	1W%252FZ%2520%252F%2520AH
Tiencopier Type	AH-1W/Z/AH-04/OH-11/IV	-64%2520%252F%2520UH-
		1Y%252FN
		UH-
Helicopter Type	UH-60A/L/M / SH-60	60A%252FL%252FM%2520%252F
		%2520SH-60
Helicopter Type	MV-22B / CV-22B	MV-22B%2520%252F%2520CV-
Tiencopier Type	WIV-22B / CV-22B	22B
Helicopter Type	CH-47(D/F)	CH-47(D%252FF)
Helicopter Type	CH-53(E/K)	CH-53(E%252FK)
Helicopter Type	Sling Load Aircraft	Sling%2520Load%2520Aircraft
Haliaantan Tuna	Cling Lord long lines	Sling%2520Load%2520long%2520li
Helicopter Type	Sling Load long lines	nes
Time of Day	Day	DAY
Time of Day	Night	NIGHT
Environment	Desert/Snow	DESERT%252FSNOW
Environment	Mountain	MOUNTAIN
Environment	Jungle	JUNGLE
Environment	Urban	URBAN

Table 4.11 HLZ/Touchdown Pseudo-Parameters

4.1.5.2 Steps for Parameter REST call

1. Submit a GET request to see the set parameter values for the combined pseudo-parameters. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/hlz/parameters;HelicopterType=MH-6%2520%252F%2520AH-6;TimeOfDay=DAY;Environment=URBAN

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a JSON response:

```
"hlzDiameter": 10,"maxHlzSlope": 8,"obstacleRadius": 50,"approachAngle": 14
```

4.1.5.3 Steps for REST View

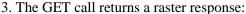
Basic Call: https://iipbeta.digitalglobe.com/monocle-

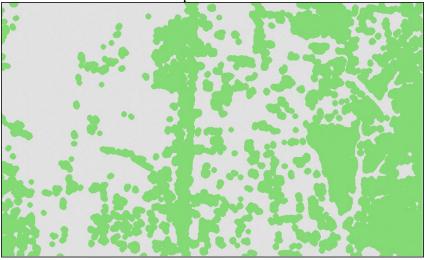
3/app/broker/mrgeo/hlz;DataSource={source};Left={value};Bottom={value};Top={value};Right={value};Color={string};HlzDiameter={value};MaxHlzSlope={value};ObstacleRadius={value};ApproachAngle={value};HoverHeight={value}

1. Submit a GET request to view an HLZ/Touchdown analytic. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/mrgeo/hlz;DataSource=SAAB2M;Left=49.36853232269257;Bottom=14.761829611770372;Top=14.772204077356609;Right=49.385784291076384;Color=64,215,39,148;HlzDiameter=25;MaxHlzSlope=15;ObstacleRadius=125;ApproachAngle=10;HoverHeight=0

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)





4.1.5.4 Steps for REST Download

Basic Call: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/mrgeo/hlz;DataSource={source};Left={value};Bottom={value};Top={value};Right={value};Color={string};HlzDiameter={value};MaxHlzSlope={value};ObstacleRadius={value};ApproachAngle={value};HoverHeight={value};fileType={type};filename={string}

1. Submit a GET request to download an HLZ/Touchdown analytic. The REST call via monocle-3 application will look similar to the following:

https://insightcloud.digitalglobe.com/monocle-

3/app/broker/mrgeo/hlz/download;DataSource=SAAB2M;Left=49.36853232269257;Bott om=14.761829611770372;Top=14.772204077356609;Right=49.385784291076384;Colo r=64,215,39,148;HlzDiameter=25;MaxHlzSlope=15;ObstacleRadius=125;ApproachAngl e=10;HoverHeight=0;fileType=kmz;filename=HLZTEST

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a download; save or open at user discretion.

4.2 Text

SMA submits different calls for each of the sub-widgets, depending on the active sub-widgets.

4.2.1 Social Media Analytics

The InsightCloud Social Media widget provides the analyst with a visual output of up-to-the-second geolocated social media from Twitter and RSS feeds, based on user-defined queries.

General note: the GET call returns an application/json response that changes depending on if and what dimension is used. Below, sections have been divided by the dimensions to provide examples of each type of resulting response.

4.2.1.1 Parameters

Parameters	Type	Default	Optional	Multiple	Description
BBOX	Float	<none></none>	True	False	Coordinates in decimal degrees, separated by commas, of the bounding box corners. In order, these coordinates are Lower Left Lon, Lower Left Lat, Upper Right Lon, Upper Right Lat; bbox always surrounds the origin point. BBOX=49.122,14.554,4

Parameters	Type	Default	Optional	Multiple	Description
					9.134,14.565 for example
datetimerange	String	<none></none>	True	False	Date and time restriction on the range of data returned by the request. datetimerange=2015-02-11T08:33:46.812Z,2015-02-11T14:33:46.812Z for example
poly	String	<none></none>	True	True*	Coordinates in decimal degrees poly=%5B%5B%5B%5B%5 B- 77.116721,39.002453% 5D,%5B- 77.514975,38.77156%5 D,%5B- 77.185385,38.587165% 5D,%5B- 76.82009,38.72872%5D ,%5B- 76.905234,39.01099%5 D,%5B- 77.116721,39.002453% 5D%5D%5D%5D for example *Note: multiple polygons can be specified under poly
dimension	String	<none></none>	True	False	Additional filters for the analytic, displaying specific data in specific fashion. dimension=datetime, for example Possible dimensions are: For Timeline: datetime For Word Cloud values: term

Parameters	Type	Default	Optional	Multiple	Description
					sigterm
					hashtag
					For Top Ten values:
					topten
					For Statistics:
					stats
					For Map Aggregations:
					geohash
query		<none></none>	True	True	Used for specifying
					search terms to narrow
	String				results. Query follows
					basic Elastisearch query
					logic.
					query=+dmvmusic+AND+
					positiveSentiment:%3E0.9
					6, for example.
	String	<none></none>	True	False	The filetype of the
					return, SHP packaged in
format					ZIP is supported;
					DOWNLOAD only
					format=shp for example
stream-shape-file	String	<none></none>	True	False	Method of downloading
					the return, streaming is
					supported;
					DOWNLOAD only
					stream-shape-file=true for
					example

Table 4.12 Social Media Parameters

Parameters	Limits
Longitude	Between -180 and 180 degrees inclusive
Latitude	Between -90 and 90 degrees inclusive

Table 4.13 Social Media Parameter Limits

4.2.1.2 Differences in REST View - Map - Cluster vs Kernel Density

Note: Sections detailing REST View for maps are capable of using Cluster or KD calls; the examples in later sections are given using Cluster calls.

4.2.1.2.1 Cluster, Cluster Sentiment

Note: Both Cluster and Cluster Sentiment are triggered via the same call; Sentiment makes use of the pos_sentiment_avg and neg_sentiment_avg.

1. InsightCloud Social Media submits a GET call

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-78.086426,38.470804,-75.88916,39.314123&datetimerange=2015-04-20T05:00:00.000Z,2015-04-20T17:00:00.000Z&dimensions=geohash

And returns a response with a header of 200 OK and a body of "took": 288, "timed_out": false, " shards": { "total": 5, "successful": 5, "failed": 0 }, "hits": { "total": 2123960, "max score": 0, "hits": [] }, "aggregations": { "results": { "doc_count": 17443, "geohash": { "buckets": ["key": "dqcjr3", "doc_count": 1035, "pos_sentiment_avg": { "value": 0.7295101769110421 }, "geo_lat_avg": { "value": 38.89866278000012 "geo_lon_avg": { "value": -77.01465590579697 "neg_sentiment_avg": { "value": 0.2704898230889579 }, {

```
"key": "dqbdbu",
    "doc_count": 1,
    "pos_sentiment_avg": {
        "value": 0.7105759793035298
        },
        "geo_lat_avg": {
            "value": 38.477259
        },
        "geo_lon_avg": {
            "value": -78.012127
        },
        "neg_sentiment_avg": {
            "value": 0.2894240206964702
        }
        }
        }
     }
}
```

4.2.1.2.2 Kernel Density, KD Sentiment

Note: Both Kernel Density and Kernel Density Sentiment are triggered via the same call; KD Sentiment makes use of the positiveSentiment and negativeSentiment.

Note: For any KD call be sure to include the pageSize=100000 in the call.

1. InsightCloud Social Media submits a GET call

"_score": 1,

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-78.086426,38.470804,-75.88916,39.314123&datetimerange=2015-04-20T05:00:00.000Z,2015-04-20T17:00:00.000Z&pageSize=100000
```

And returns a response with a header of 200 OK and a body of {
 "took": 475,
 "timed_out": false,
 "_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
 },
 "hits": {
 "total": 17443,
 "max_score": 1,
 "hits": [
 {
 "_index": "orbit-2015-04-20",
 "_type": "tweet",
 "_id": "590116320173281280",

```
" source": {
      "text": "@ThePlumLineGS none of that tells us if those people didn't have
insurance before Obamacare. 1/2",
      "screenName": "conncarroll",
      "loc hash": "dqcj4wfs7tkwyp0cf777",
      "retweets": null,
      "gnipLanguage": "en",
      "friendsCount": 821,
      "actorDescription": "Communications Director for Sen. Mike Lee (R-UT)",
      "followersCount": 6946,
      "negativeSentiment": 0.5707486331604419,
      "favoritesCount": 0,
      "positiveSentiment": 0.429251366839558,
      "userMentions": [
       "20508720:Greg Sargent"
      "process_version": "20140909T120800Z",
      "twitterCountryCode": "US",
      "twitterLanguage": null,
      "device": "Twitter for iPhone",
      "created": "2015-04-20T11:34:29.000Z",
      "geo": {
       "lat": 38.885494,
       "lon": -77.230297
      },
      "actorDisplayName": "Conn Carroll",
      "listedCount": 332,
      "exactGeo": "true",
      "verb": "post",
      "countryCode": "United States",
      "statusesCount": 38557,
      "id": "590116320173281280",
      "actorLanguages": [
       "en"
      ],
      "actorId": "15739391",
      "placeGeoType": "Polygon"
     }
   },
   . . .
     "_index": "orbit-2015-04-20",
    " type": "tweet",
    "_id": "590197855345893376",
    "_score": 1,
    "_source": {
      "text": "@CoCoaaChanell_ Georgia ave nw",
      "screenName": "ICYUNVKAY",
      "loc_hash": "dqck2w9u2v9b34wvwzh2",
      "retweets": null,
```

```
"gnipLanguage": "ht",
"friendsCount": 1974,
"actorDescription": null,
"followersCount": 3695,
"negativeSentiment": 0.14609735712941835,
"favoritesCount": 0,
"positiveSentiment": 0.8539026428705817,
"userMentions": [
 "444059071:July12GloDay&"
],
"process_version": "20140909T120800Z",
"twitterCountryCode": "US",
"twitterLanguage": null,
"device": "Twitter for Android",
"created": "2015-04-20T16:58:28.000Z",
"geo": {
 "lat": 38.752285,
"lon": -76.967777
"actorDisplayName": "□Unapologetic□",
"listedCount": 7,
"exactGeo": "true",
"verb": "post",
"countryCode": "United States",
"statusesCount": 332498,
"id": "590197855345893376",
"actorLanguages": [
"en"
],
"actorId": "274127760",
"placeGeoType": "Polygon"
```

4.2.1.3 Steps for REST View - Map - Polygon

4.2.1.3.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-86.661093,33.797775,-68.204062,41.656827&datetimerange=2015-02-11T08:33:46.812Z,2015-02-11T14:33:46.812Z&dimensions=geohash&poly=%5B%5B%5B%5B-77.116721,39.002453%5D,%5B-77.514975,38.77156%5D,%5B-77.185385,38.587165%5D,%5B-76.82009,38.72872%5D,%5B-76.905234,39.01099%5D,%5B-77.116721,39.002453%5D%5D%5D

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. The GET call returns a response with a header of 200 OK and a body of: "took": 3, "timed_out": false, "_shards": {
 "total": 5, "successful": 5, "failed": 0 }, "hits": { "total": 10104, "max_score": 0, "hits": [] **}**, "aggregations": { "results": { "doc_count": 12, "geohash": { "buckets": ["key": "dqcj", "doc count": 11, "pos_sentiment_avg": { "value": 0.670301599842486 }, "geo_lat_avg": { "value": 38.91293973636363 "geo_lon_avg": { "value": -77.04957312727274 "neg_sentiment_avg": { "value": 0.3296984001575139 "key": "dqch", "doc count": 1, "pos_sentiment_avg": { "value": 0.3507113975563318 "geo_lat_avg": { "value": 38.778515 "geo_lon_avg": { "value": -77.328831 },

4.2.1.3.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/twitter/tweets?bbox=-79.52822,37.422876,-74.913962,39.372867&datetimerange=2015-02-11T08:44:08.099Z,2015-02-11T14:44:08.099Z&dimensions=geohash&poly=%5B%5B%5B%5B-77.116721,39.002453%5D,%5B-77.514975,38.77156%5D,%5B-77.185385,38.587165%5D,%5B-76.82009,38.72872%5D,%5B-76.905234,39.01099%5D,%5B-77.116721,39.002453%5D%5D%5D%5D

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 71.
"timed out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
"hits": {
 "total": 2711576,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 3408,
  "geohash": {
    "buckets": [
      "key": "dqcjr",
      "doc_count": 799,
      "pos sentiment avg": {
       "value": 0.7422933619868444
      "geo_lat_avg": {
```

```
"value": 38.90321275043809
 },
 "geo_lon_avg": {
  "value": -77.01566461595745
 "neg_sentiment_avg": {
  "value": 0.2577066380131556
 "key": "dqcjq",
 "doc_count": 248,
 "pos_sentiment_avg": {
  "value": 0.7637154226459237
 },
 "geo_lat_avg": {
  "value": 38.908804034677416
 "geo_lon_avg": {
  "value": -77.04847070967742
 "neg_sentiment_avg": {
  "value": 0.23628457735407635
 "key": "dqcm0",
 "doc_count": 205,
 "pos_sentiment_avg": {
  "value": 0.6561236585687696
 "geo_lat_avg": {
  "value": 38.86956396097561
 "geo_lon_avg": {
  "value": -76.97113467804878
 "neg_sentiment_avg": {
  "value": 0.34387634143123036
},
 "key": "dqc5z",
 "doc_count": 1,
 "pos_sentiment_avg": {
  "value": 0.8806847602460081
 "geo_lat_avg": {
  "value": 38.651515
```

```
"geo_lon_avg": {
 "value": -77.033559
"neg_sentiment_avg": {
 "value": 0.11931523975399197
"key": "dqbvp",
"doc count": 1,
"pos_sentiment_avg": {
 "value": 0.9699143364937929
"geo_lat_avg": {
 "value": 38.848734
"geo_lon_avg": {
 "value": -77.35278
"neg_sentiment_avg": {
 "value": 0.030085663506207064
"key": "dqbur",
"doc_count": 1,
"pos_sentiment_avg": {
 "value": 0.5915799026738225
},
"geo_lat_avg": {
 "value": 38.738652
"geo_lon_avg": {
 "value": -77.384079
"neg_sentiment_avg": {
 "value": 0.4084200973261774
```

4.2.1.4 Steps for REST View - Map - Viewport

4.2.1.4.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T08:40:49.189Z,2015-01-06T14:40:49.189Z&dimensions=geohash

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
     "took": 31,
     "timed_out": false,
     "_shards": {
      "total": 5.
      "successful": 5,
      "failed": 0
     },
     "hits": {
      "total": 31525,
      "max score": 0,
      "hits": []
     "aggregations": {
      "results": {
       "doc_count": 34,
        "geohash": {
         "buckets": [
           "key": "dqcjqg",
           "doc_count": 25,
           "pos_sentiment_avg": {
            "value": 0.7983437071177996
           },
            "geo_lat_avg": {
            "value": 38.91033374
           "geo_lon_avg": {
             "value": -77.04519927999999
           },
           "neg_sentiment_avg": {
            "value": 0.2016562928822006
           }
          },
           "key": "dqcjq9",
           "doc_count": 3,
           "pos_sentiment_avg": {
            "value": 0.4121081723523579
```

```
"geo_lat_avg": {
 "value": 38.8992784
"geo_lon_avg": {
 "value": -77.0533106
"neg_sentiment_avg": {
 "value": 0.5878918276476421
"key": "dqcjqe",
"doc_count": 2,
"pos_sentiment_avg": {
 "value": 0.4998790527569388
"geo_lat_avg": {
 "value": 38.9131671
"geo_lon_avg": {
 "value": -77.0516438
"neg_sentiment_avg": {
 "value": 0.5001209472430611
"key": "dqcjqd",
"doc_count": 2,
"pos_sentiment_avg": {
 "value": 0.2991928639266216
"geo_lat_avg": {
 "value": 38.9053894
"geo_lon_avg": {
 "value": -77.0491438
"neg_sentiment_avg": {
 "value": 0.7008071360733784
"key": "dqcjmz",
"doc_count": 2,
"pos_sentiment_avg": {
 "value": 0.4167714925966823
"geo_lat_avg": {
```

```
"value": 38.9315
},

"geo_lon_avg": {

"value": -77.0816445
},

"neg_sentiment_avg": {

"value": 0.5832285074033177
}

}

}

}

}
```

4.2.1.4.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T08:27:41.613Z,2015-01-06T14:27:41.613Z&dimensions=geohash

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 737,
"timed out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
},
"hits": {
 "total": 5328188,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 6008,
  "geohash": {
   "buckets": [
      "key": "dqcjr3",
      "doc_count": 439,
      "pos_sentiment_avg": {
       "value": 0.7361871467903729
```

```
"geo_lat_avg": {
  "value": 38.898663930296095
 "geo_lon_avg": {
  "value": -77.01455421184524
 "neg_sentiment_avg": {
  "value": 0.2638128532096273
 "key": "dqcjpv",
 "doc_count": 66,
 "pos_sentiment_avg": {
  "value": 0.5885989451953397
 "geo_lat_avg": {
  "value": 38.87530555151516
 "geo_lon_avg": {
  "value": -76.99730191515152
 "neg_sentiment_avg": {
  "value": 0.41140105480466016
 "key": "dqcm18",
 "doc_count": 60,
 "pos_sentiment_avg": {
  "value": 0.6136319339400401
 "geo_lat_avg": {
  "value": 38.85039603333334
 "geo_lon_avg": {
  "value": -76.91875035833333
 "neg_sentiment_avg": {
  "value": 0.3863680660599598
},
 "key": "dqchd8",
 "doc_count": 1,
 "pos_sentiment_avg": {
  "value": 0.8467092769608828
 },
```

```
"geo_lat_avg": {
 "value": 38.764113
"geo_lon_avg": {
 "value": -77.226845
"neg_sentiment_avg": {
 "value": 0.1532907230391172
"key": "dqchcg",
"doc_count": 1,
"pos_sentiment_avg": {
 "value": 0.6457682687943539
"geo_lat_avg": {
 "value": 38.821843
"geo_lon_avg": {
 "value": -77.260872
"neg_sentiment_avg": {
 "value": 0.3542317312056461
"key": "dqch6x",
"doc_count": 1,
"pos_sentiment_avg": {
 "value": 0.7930498893936041
"geo_lat_avg": {
 "value": 38.75835
"geo_lon_avg": {
 "value": -77.23079
"neg_sentiment_avg": {
 "value": 0.20695011060639587
```

4.2.1.5 Steps for REST View - Query – Simple Stats

4.2.1.5.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T08:40:49.189Z,2015-01-06T14:40:49.189Z&dimensions=stats

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 5,
"timed out": false,
"_shards": {
 "total": 5.
 "successful": 5,
 "failed": 0
},
"hits": {
 "total": 31525,
 "max score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 34,
  "article_count": {
   "value": 7
```

4.2.1.5.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T08:59:59.395Z,2015-01-06T14:59:59.395Z&dimensions=stats
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
    "took": 405,
    "timed_out": false,
    "_shards": {
```

```
"total": 5,
    "successful": 5,
    "failed": 0
},
    "hits": {
        "total": 5328188,
        "max_score": 0,
        "hits": []
},
    "aggregations": {
        "results": {
            "doc_count": 6985,
            "user_count": {
                  "value": 2350
            }
        }
        }
    }
}
```

4.2.1.6 Steps for REST View - Query – Stats with Query

4.2.1.6.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/rss/sentences?bbox=43.004092,16.155678,43.580874,1 6.478058&dimensions=stats&query=category:"TOP+STORIES"

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 227,
"timed_out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
},
"hits": {
 "total": 28981,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 34,
  "article_count": {
   "value": 7
```

```
}
}
}
}
```

4.2.1.6.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/twitter/tweets?bbox=-77.464757,38.300103,-77.455744,38.30514&dimensions=stats&query=hashtags:"fredericksburg"+AND +hashtags:"healthcare"

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
   "took": 277,
   "timed out": false,
   "_shards": {
   "total": 5,
    "successful": 5,
    "failed": 0
   },
   "hits": {
    "total": 12,
    "max_score": 0,
    "hits": []
   'aggregations": {
    "results": {
     "doc_count": 0,
     "user_count": {
      "value": 0
```

4.2.1.7 Steps for REST Stored Query (Twitter)

4.2.1.7.1 Retrieve List of Stored Queries

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/userprofile/api/workspace

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. IF there is at least one saved query: Call returns a response with a header of 200 OK and a body of "name": "dc poly + query", "date": 1429109533966, "widgetProperties": { "sma": { "timeline": ["2015-04-15T08:39:38.392Z", "2015-04-15T14:39:38.392Z"], "query": " job", "exactGeo": false }, "zoom": 8, "map": { "bottom": 36.8230375524398, "left": -79.25097659375056, "top": 40.90573836891383, "right": -74.72460940625007 "polygon": ["x": -77.1306152656253, "y": 39.53000605266768 "x": -77.63598635937566, "y": 38.93859246551812 "x": -76.57580569531302, "y": 38.613124896049655 "x": -76.35607913281257, "y": 39.16042422628807

> "x": -77.1306152656253, "y": 39.53000605266768

},

{

```
"name": "fburg",
  "date": 1429109073328,
  "widgetProperties": {
   "sma": {
    "timeline": [
      "2015-04-15T08:39:38.392Z",
      "2015-04-15T14:39:38.392Z"
     "exactGeo": false
  },
  "zoom": 15,
  "map": {
   "bottom": 38.28391651997817,
   "left": -77.48768112182604,
   "top": 38.3160799152471,
   "right": -77.45231887817316
  "polygon": null
1
```

ELSE (there is no saved query):

Call returns a response with a header of 204 No Content and an empty body.

4.2.1.7.2 Save New Query

1. Submit a POST request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/userprofile/api/workspace

```
With a source body {"time":"","date":1429109073328,"map":{"left":-77.48768112182604,"right":-77.45231887817316,"top":38.3160799152471,"bottom":38.28391651997817},"zoom":15,"query":"","timeline":"","polygon":[],"widgetProperties":{"sma":{"timeline":["2015-04-15T08:39:38.392Z","2015-04-
```

15T14:39:38.392Z"],"exactGeo":false}},"name":"fburg"}

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The POST call returns a response with a header of 200 OK and a body of:

```
],
    "exactGeo": false
    }
},
"zoom": 15,
"map": {
    "bottom": 38.28391651997817,
    "left": -77.48768112182604,
    "top": 38.3160799152471,
    "right": -77.45231887817316
    },
    "polygon": null
}
```

4.2.1.7.3 Load Query

- 1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following:
 - https://iipbeta.digitalglobe.com/monocle-3/app/broker/userprofile/api/workspace
- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"name": "dc poly + query",
"date": 1429109533966,
"widgetProperties": {
 "sma": {
  "timeline": [
   "2015-04-15T08:39:38.392Z",
   "2015-04-15T14:39:38.392Z"
  "query": " job",
  "exactGeo": false
},
"zoom": 8,
"map": {
 "bottom": 36.8230375524398,
 "left": -79.25097659375056,
 "top": 40.90573836891383,
 "right": -74.72460940625007
"polygon": [
   "x": -77.1306152656253,
   "y": 39.53000605266768
```

```
"x": -77.63598635937566,
   "y": 38.93859246551812
   "x": -76.57580569531302,
   "y": 38.613124896049655
   "x": -76.35607913281257,
   "y": 39.16042422628807
   "x": -77.1306152656253,
   "y": 39.53000605266768
"name": "fburg",
"date": 1429109073328,
"widgetProperties": {
 "sma": {
  "timeline": [
   "2015-04-15T08:39:38.392Z",
   "2015-04-15T14:39:38.392Z"
  ],
  "exactGeo": false
"zoom": 15,
"map": {
 "bottom": 38.28391651997817,
 "left": -77.48768112182604,
"top": 38.3160799152471,
 "right": -77.45231887817316
"polygon": null
```

FOLLOWING THIS in the UI:

Various calls made to return the viewport, zoom level, etc to the values stored in the saved query (See: Map call, Query call, Timeline call, Top Ten call, Tweets call, Word Cloud call)

4.2.1.7.4 Delete Query from list

1. Submit a DELETE request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/userprofile/api/workspace?name=fburg

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The DELETE call returns a response with a header of 200 OK and a body of:

```
"name": "dc poly + query",
"date": 1429109533966,
"widgetProperties": {
 "sma": {
  "timeline": [
   "2015-04-15T08:39:38.392Z",
   "2015-04-15T14:39:38.392Z"
  "query": " job",
  "exactGeo": false
"zoom": 8,
"map": {
 "bottom": 36.8230375524398,
 "left": -79.25097659375056,
 "top": 40.90573836891383,
 "right": -74.72460940625007
"polygon": [
   "x": -77.1306152656253,
   "y": 39.53000605266768
   "x": -77.63598635937566,
   "y": 38.93859246551812
   "x": -76.57580569531302,
   "y": 38.613124896049655
   "x": -76.35607913281257,
   "y": 39.16042422628807
   "x": -77.1306152656253,
```

4.2.1.8 Steps for REST View - Timeline

4.2.1.8.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&dimensions=datetime

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

 {
 "took": 605

```
"took": 605,
"timed_out": false,
" shards": {
 "total": 875,
 "successful": 875,
 "failed": 0
"hits": {
 "total": 2700261,
 "max score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc count": 7658,
  "datetime": {
   "buckets": [
      "key_as_string": "2014-09-07T23:00:00.000+0000",
      "key": 1410130800000,
      "doc_count": 1,
      "articles": {
       "value": 1
    },
      "key_as_string": "2014-09-08T00:00:00.000+0000",
      "key": 1410134400000,
```

```
"doc_count": 1,
       "articles": {
        "value": 1
       "key_as_string": "2014-09-08T01:00:00.000+0000",
       "key": 1410138000000,
       "doc_count": 0,
       "articles": {
        "value": 0
      },
       "key_as_string": "2015-02-11T11:00:00.000+0000",
       "key": 1423652400000,
       "doc_count": 2,
       "articles": {
        "value": 2
      },
       "key_as_string": "2015-02-11T12:00:00.000+0000",
       "key": 1423656000000,
       "doc_count": 2,
       "articles": {
        "value": 1
      },
       "key_as_string": "2015-02-11T13:00:00.000+0000",
       "key": 1423659600000,
       "doc count": 5,
       "articles": {
        "value": 1
4.2.1.8.2
               Twitter
```

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/twitter/tweets?bbox=41.426181,14.409367,46.040439, 16.988408&dimensions=datetime

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. The GET call returns a response with a header of 200 OK and a body of: "took": 41807, "timed out": true, "_shards": { "total": 2505, "successful": 2505, "failed": 0 "hits": { "total": 526626807, "max_score": 0, "hits": [] "aggregations": { "results": { "doc_count": 3007934, "datetime": { "buckets": ["key_as_string": "2014-09-26T01:00:00.000+0000", "key": 1411693200000, "doc_count": 617 "key_as_string": "2014-09-26T02:00:00.000+0000", "key": 1411696800000, "doc_count": 1091 "key_as_string": "2014-09-26T03:00:00.000+0000", "key": 1411700400000, "doc count": 796 }, "key_as_string": "2015-02-11T11:00:00.000+0000", "key": 1423652400000, "doc_count": 372 "key_as_string": "2015-02-11T12:00:00.000+0000", "key": 1423656000000, "doc_count": 730

```
"key_as_string": "2015-02-11T13:00:00.000+0000",
    "key": 1423659600000,
    "doc_count": 420
    }
}
```

4.2.1.9 Steps for REST View - Top Ten

4.2.1.9.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:00:46.674Z,2015-01-06T15:00:46.674Z&dimensions=topten

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 431,
"timed_out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
},
"hits": {
 "total": 31525,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 34,
  "neg_sentiment": {
   "value": 0.30509988195404286
  "pos_sentiment": {
   "value": 0.6949001180459573
  "categories": {
   "doc_count_error_upper_bound": 0,
   "sum_other_doc_count": 0,
```

```
"buckets": [
   "key": "TOP STORIES",
   "doc_count": 34,
   "articles": {
    "value": 7
"sources": {
"doc_count_error_upper_bound": 0,
"sum_other_doc_count": 0,
"buckets": [
   "key": "WXIX",
   "doc_count": 20,
   "articles": {
    "value": 1
   }
   "key": "Business Standard",
   "doc_count": 5,
   "articles": {
    "value": 1
   "key": "Reuters",
   "doc_count": 3,
   "articles": {
    "value": 1
   "key": "BBC News",
   "doc_count": 2,
   "articles": {
    "value": 1
   "key": "Daily Times",
   "doc_count": 2,
   "articles": {
    "value": 1
   }
  },
```

4.2.1.9.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T08:59:59.395Z,2015-01-06T14:59:59.395Z&dimensions=topten

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 5458,
"timed_out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
"hits": {
 "total": 5328188,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 6985,
  "neg_sentiment": {
   "value": 0.3182736035511819
  },
```

```
"users": {
"doc_count_error_upper_bound": 20,
"sum_other_doc_count": 6491,
"buckets": [
   "key": "PapiZachary",
   "doc_count": 65
   "key": "Septemberlovee_",
   "doc count": 59
   "key": "badesammy",
   "doc_count": 56
   "key": "MistaLeVar",
   "doc_count": 55
  },
   "key": "UrLesly",
   "doc_count": 46
   "key": "iDIKher",
   "doc_count": 46
   "key": "Chris301Tweets",
   "doc_count": 43
   "key": "crowneedqueen_",
   "doc_count": 43
   "key": "TheNames_Steven",
   "doc_count": 41
   "key": "BasedAaron92",
   "doc_count": 40
"pos_sentiment": {
 "value": 0.6817263964488178
"userlangs": {
```

```
"doc_count_error_upper_bound": 0,
 "sum_other_doc_count": 4,
 "buckets": [
   "key": "en",
   "doc_count": 6836
   "key": "es",
   "doc_count": 50
   "key": "pt",
   "doc_count": 27
  },
   "key": "fr",
   "doc_count": 22
   "key": "ja",
   "doc_count": 15
   "key": "ar",
   "doc_count": 12
   "key": "tr",
   "doc_count": 9
   "key": "gb",
   "doc count": 8
  },
   "key": "de",
   "doc_count": 5
   "key": "ru",
   "doc_count": 5
"hashtags": {
 "doc_count_error_upper_bound": 5,
 "sum_other_doc_count": 1523,
 "buckets": [
  {
```

```
"key": "closefcps",
   "doc_count": 128
   "key": "snow",
   "doc_count": 83
   "key": "dc",
   "doc_count": 82
   "key": "job",
   "doc_count": 63
   "key": "aneventnottobemissed",
   "doc_count": 52
   "key": "ourlivesmatter",
   "doc_count": 52
   "key": "jobs",
   "doc_count": 50
   "key": "dcsnow",
   "doc_count": 44
   "key": "snowday",
   "doc count": 39
   "key": "tweetmyjobs",
   "doc_count": 24
"countries": {
"doc_count_error_upper_bound": 0,
"sum_other_doc_count": 0,
"buckets": [
   "key": "us",
   "doc_count": 6985
```

```
},
"devices": {
"doc_count_error_upper_bound": 0,
"sum_other_doc_count": 162,
"buckets": [
   "key": "Twitter for iPhone",
   "doc_count": 4214
   "key": "Twitter for Android",
   "doc_count": 961
   "key": "Twitter Web Client",
   "doc_count": 779
   "key": "Instagram",
   "doc_count": 384
   "key": "Tweetbot for iOS",
   "doc count": 284
  },
   "key": "Twitter for iPad",
   "doc_count": 55
   "key": "Foursquare",
   "doc_count": 44
   "key": "TweetMyJOBS",
   "doc_count": 41
   "key": "iOS",
   "doc_count": 35
   "key": "Tweetbot for Mac",
   "doc_count": 26
"tweetlangs": {
"doc_count_error_upper_bound": 0,
"sum_other_doc_count": 133,
```

```
"buckets": [
  "key": "en",
  "doc_count": 6300
 },
  "key": "und",
  "doc_count": 312
  "key": "es",
  "doc_count": 90
  "key": "tl",
  "doc_count": 44
  "key": "pt",
  "doc_count": 26
  "key": "ht",
  "doc_count": 21
 },
  "key": "ja",
  "doc_count": 16
  "key": "tr",
  "doc_count": 15
  "key": "fr",
  "doc_count": 14
  "key": "in",
  "doc_count": 14
```

4.2.1.10 Steps for REST View - Tweets/Articles Panel

4.2.1.10.1 RSS - Articles

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:05:14.942Z,2015-01-06T15:05:14.942Z

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
     "took": 269,
     "timed out": false,
     " shards": {
      "total": 5.
      "successful": 5,
      "failed": 0
     },
     "hits": {
      "total": 34,
      "max score": 1,
      "hits": [
         "_index": "orbitrss-2015-01-06",
        " type": "sentences",
        " id":
    "a48df4fc7d91ddbc6b3a43d3352f66672d733e323d0eb119f2b0cf62c90585e86e4162bf82
    8f2f1e3008978".
        "_score": 1,
        " source": {
          "postedTime": "2015-01-06T09:31:15.000Z",
          "text": "Strong currents force expanded search area for AirAsia plane - Cincinnati
```

News, FOX19-WXIX TV\nSITE SEARCH\nStrong currents force expanded search area for AirAsia plane\nPosted:\nTuesday, January 6, 2015 3:04 AM EST\nUpdated:\nTuesday, January 6, 2015 4:25 AM EST\n(AP Photo/Tatan Syuflana). Indonesian Armed Forces Chief, Gen. Moeldoko, center, walks upon arrival following a search operation for the victims of AirAsia Flight 8501 at the airport in Pangkalan Bun, Indonesia, Tuesday, Jan. 6, 2015. The search operat...\n(AP Photo/Achmad Ibrahim, Pool). Muslim clerics read Quran verses as they perform a prayer for the victims of Air Asia Flight 8501 inside an Indonesian Air Force NAS 332 Super Puma helicopter flying over the Java Sea off Pangkalan Bun, Central Borneo, I...\n(AP Photo/Achmad Ibrahim)AP Photo/Tatan Syuflana). A U.S. navy crew member walks out a helicopter upon arrival following their search operation for the victims of AirAsia Flight 8501 at the airport in Pangkalan Bun, Indonesia, Tuesday, Jan. 6, 2015. Th...\n(AP Photo/Achmad Ibrahim, Pool). A Muslim cleric pauses as he reads a book of Quran verses during a prayer for the victims of AirAsia Flight 8501 inside an Indonesian Air Force NAS 332 Super Puma helicopter flying over the Java Sea off Pangkalan Bun, C...\n(AP Photo/Achmad Ibrahim, Pool). Muslim clerics pray before embarking on a flight with Indonesian Air Force NAS 332 Super Puma helicopter to fly over the Java Sea where

AirAsia Flight 8501 went down and pray for the victims, at Iskandar Airport in Pang...\nAlso on FOX19.com More>>\nUpdated:\nTuesday, January 6 2015 4:14 AM EST2015-01-06 09:14:47 GMT\nAirAsia Flight 8501 crashed into the Java Sea with 162 people on board, halfway into a Dec. 28 flight from Surabaya, Indonesia, to Singapore. Dozens of bodies have been recovered, and search teams have detected... Full Story >\nAirAsia Flight 8501 crashed into the Java Sea with 162 people on board, halfway into a Dec. 28 flight from Surabaya, Indonesia, to Singapore. Dozens of bodies have been recovered, and search teams have detected what is... Full Story >\nUpdated:\nMonday, January 5 2015 9:05 PM EST2015-01-06 02:05:24 GMT\nHighlighting the depth of Indonesia's air safety problems, the transportation ministry announced harsh measures Monday against everyone who allowed AirAsia Flight 8501 to take off without proper permits -... Full Story >\nThe search operation for AirAsia Flight 8501 will spread slightly eastward on Tuesday as the weather and currents drag wreckage in that direction, the head of Indonesia's rescue agency said. Full Story >\nTuesday, January 6 2015 4:41 AM EST2015-01-06 09:41:36 GMT\nSnowfall totals expected by 9 a.m. Tuesday. (FOX19 NOW)\nThe first snow system of 2015 arrived across the Tri-State overnight, dropping the heaviest accumulations in the northern Cincinnati suburbs. Full Story >\nThe first snow system of 2015 arrived across the Tri-State overnight, dropping the heaviest accumulations in the northern Cincinnati suburbs. Full Story >\nEx-Virginia Gov. Bob McDonnell makes bid to avoid prison\nFormer Virginia Gov. Bob McDonnell, once a top Republican prospect for national office, faces sentencing Tuesday for selling the influence of his office to the CEO of a dietary supplements company. Full Story >\nFormer Virginia Gov. Bob McDonnell, once a top Republican prospect for national office, faces sentencing Tuesday for selling the influence of his office to the CEO of a dietary supplements company. Full Story >\n2 New York City police officers shot, wounded in the Bronx\nTwo New York City police officers responding to a robbery in the Bronx were shot and wounded Monday night, and a manhunt was underway for at least two suspects, authorities said. Full Story >\nTwo New York City police officers responding to a robbery in the Bronx were shot and wounded Monday night, and a manhunt was still underway hours later for a pair of suspects, authorities said. Full Story >\nUS says NKorea sanctions step 1 in Sony response\nThe United States says its new round of sanctions against North Korea is just the opening salvo in its response to an unprecedented cyberattack on Sony. Yet there may be little else the U.S. can do to further... Full Story >\nThe United States says its new round of sanctions against North Korea is just the opening salvo in its response to an unprecedented cyberattack on Sony. Yet there may be little else the U.S. can do to further isolate a... Full Story >\nSpaceX shoots for launch to station, rocket landing on barge\nSpaceX is making another supply run to the International Space Station for NASA. But it's the rocket's return - not its takeoff - that has space fans talking. Full Story >\nSpaceX is making another supply run to the International Space Station for NASA. But it's the rocket's return - not its takeoff that has space fans talking. Full Story >\nSnow expected from Midwest to Northeast, then bitter cold\nA winter weather system expected to dump more than a foot of snow in some places has begun its trek east, with a separate blast of arctic air on its heels. Full Story >\nA winter weather system expected to dump more than a foot of snow in some places has begun its trek east, with a separate blast of arctic air right on its heels. Full Story >\n \n7-year-old crash survivor may be able to help investigators determine what brought plane down Full Story >\n7-year-old crash survivor may be able to help investigators determine what brought plane down Full Story >\nWith Mario Cuomo's death, Democrats lose a liberal lion who epitomized an older party Full Story >\nWith Mario Cuomo's death, Democrats lose a liberal lion who epitomized an older party Full

Story >\nRoad salt buries cars in Chicago after wall collapse at Morton Salt facility Full Story >\nRoad salt buries cars in Chicago after wall collapse at Morton Salt facility Full Story >\nMother of 2 US citizens seeks refuge in Philadelphia church to avoid deportation to Honduras Full Story >\nMother of 2 US citizens seeks refuge in Philadelphia church to avoid deportation to Honduras Full Story >\nRuling opens door for medical malpractice lawsuits over health care aboard cruise ships Full Story >\nRuling opens door for medical malpractice lawsuits over health care aboard cruise ships Full Story >\n \nBy ACHMAD IBRAHIM\nAssociated Press\nPANGKALAN BUN, Indonesia (AP) - Strong currents forced Indonesia to expand the search area for the crashed AirAsia plane Tuesday, as rough seas and bad weather pushed debris and made it difficult to reach suspected chunks of the fuselage on the ocean floor.\nWith only 37 bodies recovered since Flight 8501 crashed Dec. 28, there are also concerns that it will become harder to find the remaining corpses.\n\"Time is of the essence,\" said the National Search and Rescue Agency's director of operation, Suryadi B. Supriyadi. \"But it seems like it is hard to beat the weather.\"\nThe search operation will expand by about 185 square kilometers (71 square miles), search and rescue chief Henry Bambang Soelistyo said.\nIndonesia has suffered a string of accidents in recent years. It deregulated its aviation industry in the 1990s, and dozens of new carriers have made air travel affordable for the first time for many in the world's fourth most populous nation.\nExperts say poor maintenance, rule-bending and a shortage of trained personnel are largely to blame. Infrastructure has also failed to keep pace with exploding demand.\nThe country's transportation ministry cracked down Monday after it was discovered that Flight 8501 did not have a permit to fly between Surabaya, Indonesia, and Singapore on the day of the crash. The ministry suspended several officials, including the airport operator and those who were in the control tower.\nAll AirAsia flights on that route also have been canceled, pending an investigation.\nIt is not known what caused the Airbus A320 to crash into the Java Sea 42 minutes after takeoff, though Indonesia's Meteorology, Climatology and Geophysics Agency says bad weather appears to have been a factor.\nJust before losing contact, the pilot told air traffic control he was approaching threatening clouds, but was denied permission to climb to a higher altitude because of heavy air traffic. No distress signal was issued.\nSonar has identified five large objects that are believed to be pieces of the fuselage on the ocean floor, but strong currents, silt and mud have kept divers from seeing or reaching the objects.\nNo pings have been detected from the plane's all-important cockpit voice and flight data recorders. That's because high waves have prevented the deployment of ships that drag ping locators. The batteries in the pingers on the black boxes are likely to go dead in about 20 more days.\n\"We are confident that rescuers would be able to locate them in time,\" said Nurcahyo Utomo, an investigator for Indonesia's National Committee on Transportation Safety.\nThe search for the remaining 125 bodies has been exhausting for family members anxiously waiting to identify and bury their loved ones.\nEight Islamic clerics flew in a helicopter over the site Monday and scattered rice into the sea, a local tradition, and prayed for those who perished.\nAssociated Press writers Niniek Karmini and Ali Kotarumalos in Jakarta contributed to this report.\nCopyright 2015 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.\nSearching for Malaysian Airlines Flight 370 More>>\n",

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"titleNegative": 0.08136906873976942,
"loc_hash": "dqcjqg2v2n29ppn2ykd7",
"descriptionPositive": 0.999209798049941,
"luceneScore": 0.2857142857142857,
```

[&]quot;negativeSentiment": 0.20764616598326996,

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     "author": "",
     "gazIndexId": "300897",
     "nerScore": 0.9990962622238176.
     "sentence": "More>>\nUpdated:\nTuesday, January 6 2015 4:14 AM EST2015-01-
06 09:14:47 GMT\nAirAsia Flight 8501 crashed into the Java Sea with 162 people on
board, halfway into a Dec. 28 flight from Surabaya, Indonesia, to Singapore.",
      "process_version": "20140909T120800Z",
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     "geo": {
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      "lon": -77.0460882
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898331&cid=52778701371572&ei=ArOrVMjNCIPDggf5dg&url=http://
www.independent.ie/world-news/asia-pacific/airasia-plane-recovery-team-shift-search-
area-as-bad-weather-continues-30885303.html\"><img
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898331&cid=52778701371572&ei=ArOrVMjNCIPDggf5dg&url=http://
www.fox19.com/story/27768085/strong-currents-force-expanded-search-area-for-airasia-
plane\"><b>Strong currents force expanded search area for AirAsia
plane</b></a><br><font size=\"-1\"><b><font
color=\"#6f6f6f\">WXIX</font></b></font><br/>color=\"-1\">(AP Photo/Tatan
Syuflana). Indonesian Armed Forces Chief, Gen. Moeldoko, center, walks upon arrival
following a search operation for the victims of AirAsia Flight 8501 at the airport in
Pangkalan Bun, Indonesia, Tuesday, Jan. 6, 2015. The search operat.</font><br/>font
```

```
size= \"-1 \">< a
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778701371572&ei=ArOrVMjNCIPDggf5dg&url=http://timesofindia.indiatime
s.com/world/rest-of-world/AirAsia-crash-Search-to-continue-with-waves-forecast-2-3-
metres/articleshow/45771078.cms\">AirAsia crash: Search to continue with waves
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articles »</b></nobr></a></font></div></font></rable>",
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    "_source": {
      "postedTime": "2015-01-06T10:06:49.000Z",
     "text": "US concerns over rising Pak-India tension\nPasaki encourages dialogue
between Pakistan, India\nTweet\nWASHINGTON - The United States on Monday
expressed concern over rising Pakistan-India tensions and the exchange of fire along the
working boundary, which has claimed four Pakistani civilian lives.\nState Department
spokesperson Jen Psaki said that Washington encourages Islamabad and New Delhi to
engage in a dialogue. "We certainly remain concerned and watch over tensions along the
border. We encourage dialogue between the (two) countries," Psaki said, when the issue
of flare-up in border tensions between Pakistan and India was raised at the daily
briefing.\nWhen her attention was drawn to the reports of four Pakistanis deaths in Indian
fire in Sialkot sector, the spokesperson said that she did not have any confirmation but
added the US would obviously sympathise with families on loss of any lives. "Our hearts
will go out to the families for any lives lost," he added. In response to another question,
the spokesperson noted that Washington has been supporting dialogue between
Islamabad and New Delhi.\nShe said that there have been some steps in the past and
positive exchanges over the years but obviously more work needs to be done. On US-
Pakistan Strategic Dialogue, she said that the two sides work on a range of issues
including counterterrorism and security issues.\n \n",
      "titleNegative": 0.5001209472430611,
      "loc_hash": "dqcjqeutws45mqjs8j7v",
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     "luceneScore": 0.5.
      "negativeSentiment": 0.009471888063340072,
     "ccScore": 0.5981308411214954,
```

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     "author": "",
     "gazIndexId": "299942",
     "nerScore": 0.9954744977517948,
     "sentence": "US concerns over rising Pak-India tension\nPasaki encourages
dialogue between Pakistan, India\nTweet\nWASHINGTON - The United States on
Monday expressed concern over rising Pakistan-India tensions and the exchange of fire
along the working boundary, which has claimed four Pakistani civilian lives.",
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style=\"font-size:85%;font-family:arial,sans-serif\"><a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFQi
CNG0PUKF_K6UroqLl8035u_x7gLY9A&clid=c3a7d30bb8a4878e06b80cf16b898
331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://www.dailytimes.com.pk/national/06-Jan-2015/us-concerns-
over-rising-pak-india-tension\"><img
src=\"//t3.gstatic.com/images?q=tbn:ANd9GcTzyRHwvMm6MvpJ8VxeVYtU6G6j9TT
XQy09y_5IfPSj9O4fqXdjuftJ6SLRdXB6tEBxwb4VHB4\" alt=\"\" border=\"1\"
width=\"80\" height=\"80\"><br/>font size=\"-2\">Daily
Times</font></a></font><font style=\"font-
size:85%;font-family:arial,sans-serif\"><br/>div style=\"padding-top:0.8em;\"><img
alt=\''\'' height=\'''\'' width=\'''' ></div><div class=\'''lh\''><a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFQi
CNG0PUKF K6UroqLl8035u x7gLY9A&clid=c3a7d30bb8a4878e06b80cf16b898
331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://www.dailytimes.com.pk/national/06-Jan-2015/us-concerns-
over-rising-pak-india-tension\"><b>US concerns over rising Pak-India
tension</b></a><br><font size=\"-1\"><b><font color=\"#6f6f6f\">Daily
Times</font></b></font><br/>font size=\"-1\">WASHINGTON - The United States on
Monday expressed concern over rising Pakistan-India tensions and the exchange of fire
along the working boundary, which has claimed four Pakistani civilian lives. State
Department spokesperson Jen Psaki said that ...</font><br/>font size=\"-1\"><a
```

```
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFOi
CNGoXacz3Bafbi0Bb7 prLw0gn3t2A&clid=c3a7d30bb8a4878e06b80cf16b89833
1&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://time.com/3655351/india-pakistan-kashmir-border-clashes-
flee/">Thousands Flee Homes as Clashes by India-Pakistan Border Escalate</a><font
size=\"-1\" color=\"#6f6f6f\"><nobr>TIME</nobr></font></font><br/>font size=\"-
1\"><a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFQi
CNHZCexh6fvgEdUkFqVbTNvSdFRsaw&clid=c3a7d30bb8a4878e06b80cf16b898
331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://indianexpress.com/photos/picture-gallery-others/thousands-flee-
their-homes-as-pakistani-shelling-intensifies-in-j-k/">Thousands flee their homes as
Pakistani shelling intensifies in JK</a><font size=\"-1\" color=\"#6f6f6f\"><nobr>The
Indian Express</nobr></font></font><br/>font size=\"-1\"><a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFOi
CNHmpqDLI9EHouZp_OrR10wuPoNIJw&clid=c3a7d30bb8a4878e06b80cf16b89
8331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://nation.com.pk/national/06-Jan-2015/people-forced-to-vacate-
homes-midst-of-india-pakistan-clashes\">People forced to vacate homes midst of India
Pakistan clashes</a><font size=\"-1\" color=\"#6f6f6f\"><nobr>The
Nation</nobr></font></font><br/>font size=\"-1\" class=\"p\"><a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFQi
CNG8i7Q5bBPANST09zfcHxglxH12XQ&clid=c3a7d30bb8a4878e06b80cf16b898
331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://www.ptinews.com/news/5542777 Pak-Rangers-not-accepting-
protest-notes-over-ceasefire--BSF-.html\"><nobr>Press Trust of
India</nobr></a>&nbsp;-<a
href=\"http://news.google.com/news/url?sa=t&fd=R&ct2=us&usg=AFOi
CNFHDTrRIVOkLRPIB71ZLImadKrTsg&clid=c3a7d30bb8a4878e06b80cf16b898
331&cid=52778702951678&ei=3birVJCAGoXngAf0-
4GgDQ&url=http://tribune.com.pk/story/817341/counter-terrorism-the-cost-of-war-
for-pakistan/"><nobr>The Express Tribune</nobr></a></font><br/>cfont class=\"p\"
size=\"-1\"><a class=\"p\"
href=\"http://news.google.com/news/more?ncl=dqyTJtRrGMbpJbMgizUHD5bdJQcfM&
amp;authuser=0&ned=us&topic=h\"><nobr><b>all 408 news
articles »</b></nobr></a></font></div></font>
     "locType": "Building",
     "category": "TOP STORIES"
```

4.2.1.10.2 Twitter - Tweets

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-

76.713142,39.029141&datetimerange=2015-01-06T09:06:07.397Z,2015-01-06T15:06:07.397Z

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. The GET call returns a response with a header of 200 OK and a body of: "took": 1317, "timed_out": false, "_shards": { "total": 5, "successful": 5, "failed": 0 }, "hits": { "total": 7160, "max_score": 1, "hits": ["_index": "orbit-2015-01-06", "_type": "tweet", "_id": "552392722808832000", "_score": 1, "_source": { "text": "Finally home Zzzzzzz", "screenName": "PrettiLilLiiar", "loc_hash": "dqcm89cvbmvz57n4m7tk", "retweets": null, "gnipLanguage": "en", "friendsCount": 817, "actorDescription": "Jamaican || Tourism & Social Media", "followersCount": 539, "negativeSentiment": 0.12350527515535029, "favoritesCount": 0, "positiveSentiment": 0.8764947248446497, "process version": "20140909T120800Z", "twitterCountryCode": "US", "twitterLanguage": null, "device": "Twitter for iPhone", "created": "2015-01-06T09:14:22.000Z", "geo": { "lat": 38.946179, "lon": -76.967793 }, "actorDisplayName": "Shea Powell", "listedCount": 10, "exactGeo": "true", "verb": "post",

"countryCode": "United States",

```
"statusesCount": 59149,
      "id": "552392722808832000",
      "actorLanguages": [
       "en"
      "actorId": "97049501",
      "placeGeoType": "Polygon"
   },
   . . .
    "_index": "orbit-2015-01-06",
    "_type": "tweet",
    "_id": "552394727916859394",
    "_score": 1,
    "_source": {
      "text": "Tonight a theater became a classroom for youth & leaders to
experience & discuss the \"masterful\"... http://t.co/GFHYJWP6b6",
      "screenName": "jonctaylor",
      "loc_hash": "dqcjr374rg8jb2vq1muw",
      "retweets": null,
      "gnipLanguage": "en",
      "friendsCount": 780,
      "actorDescription": "#lifetogether",
      "followersCount": 874,
      "negativeSentiment": 0.15185095588180453,
      "favoritesCount": 0,
      "positiveSentiment": 0.8481490441181956,
      "process_version": "20140909T120800Z",
      "twitterCountryCode": "US",
      "twitterLanguage": null,
      "device": "Instagram",
      "created": "2015-01-06T09:22:20.000Z",
      "geo": {
       "lat": 38.898874,
       "lon": -77.020694
      },
      "actorDisplayName": "jt",
      "listedCount": 21,
      "exactGeo": "true",
      "verb": "post",
      "countryCode": "United States",
      "statusesCount": 11229,
      "id": "552394727916859394",
      "actorLanguages": [
       "en"
      ],
      "actorId": "14708751",
      "placeGeoType": "Polygon"
```

```
}
}
}
```

4.2.1.11 Steps for REST View - Word Cloud

The Word Cloud has two primary options for dimensions settings, plus an extra dimension option for Twitter. The three dimension options are: *term*, *sigterm*, and the Twitter-only option of *hashtag*.

4.2.1.11.1 RSS

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **RSS**:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:00:46.674Z,2015-01-06T15:00:46.674Z&dimensions=sigterm

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"took": 355,
"timed_out": false,
"_shards": {
 "total": 5,
 "successful": 5,
 "failed": 0
"hits": {
 "total": 31525,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 34.
  "term": {
   "doc_count": 34,
   "buckets": [
      "key": "currents",
      "doc_count": 20,
      "score": 48.42048205295751,
      "bg count": 233
      "key": "expanded",
      "doc_count": 20,
```

```
"score": 44.192278987719654,
 "bg_count": 255
 "key": "area",
 "doc_count": 20,
 "score": 43.162841877792374,
 "bg_count": 261
},
...
 "key": "2",
 "doc_count": 8,
 "score": 1.29361381766588,
 "bg_count": 1195
 "key": "over",
 "doc_count": 3,
 "score": 0.6137543252595157,
 "bg_count": 366
 "key": "as",
 "doc count": 8,
 "score": 0.6020317222699723,
 "bg_count": 2182
```

4.2.1.11.2 Twitter

1. Submit a GET request to retrieve InsightCloud Social Media information. The REST call via monocle-3 application will look similar to the following for **Twitter**:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:01:57.051Z,2015-01-06T15:01:57.051Z&dimensions=hashtag
```

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:

{
  "took": 745,
  "timed_out": false,
  "_shards": {
```

```
"total": 5,
 "successful": 5,
 "failed": 0
},
"hits": {
 "total": 5328188,
 "max_score": 0,
 "hits": []
"aggregations": {
 "results": {
  "doc_count": 7029,
  "term": {
   "doc_count_error_upper_bound": 5,
   "sum_other_doc_count": 1308,
   "buckets": [
     "key": "closefcps",
     "doc_count": 129
    },
      "key": "snow",
      "doc_count": 83
      "key": "dc",
     "doc_count": 82
    },
      "key": "weather",
     "doc_count": 8
      "key": "closeacps",
      "doc_count": 7
      "key": "fail",
      "doc_count": 7
```

4.2.1.12 Steps for REST Download

4.2.1.12.1 RSS

1. Submit a GET request to download the results of an InsightCloud Social Media query. The REST call via monocle-3 application will look similar to the following for **RSS**: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/rss/sentences?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:05:14.942Z,2015-01-

06T15:05:14.942Z&pageSize=22&format=shp&stream-shape-file=true

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a response with a header of 200 OK, a Content-Type of application/octet-stream, and downloads a zip file containing a shapefile; save or open at user discretion.

4.2.1.12.2 Twitter

1. Submit a GET request to download the results of an InsightCloud Social Media query. The REST call via monocle-3 application will look similar to the following for **Twitter**: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/sma/sma/twitter/tweets?bbox=-77.262458,38.758259,-76.713142,39.029141&datetimerange=2015-01-06T09:06:07.397Z,2015-01-06T15:06:07.397Z&pageSize=22&format=shp&stream-shape-file=true

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call triggers a response with a header of 200 OK, a Content-Type of application/octet-stream, and downloads a zip file containing a shapefile; save or open at user discretion.

4.2.2 Unified Vector Index

The Unified Vector Index (UVI) provides the analyst with a tool for visually mapping all available vectors within a given aoi. Analysts may then refine the resulting vectors into a desired selection. These quickly polled and returned arrays of points, polylines, and polygons may then be used in further analytical studies of the area.

4.2.2.1 Aggregation Queries

4.2.2.1.1 Parameters

Parameters	Data Type	Parameter Type	Description
left	String	Query	Longitude in decimal degrees of the lower left bounding box corner
lower	String	Query	Latitude in decimal degrees of the lower left bounding box corner

Parameters	Data Type	Parameter Type	Description
right	String	Query	Longitude in decimal degrees of the upper right bounding box corner
upper	String	Query	Latitude in decimal degrees of the upper right bounding box corner
binCountX	Integer	Query	The number of horizontal partitions of the bounding box; total bins limited to 20 Note: total bins = binCountX x binCountY
binCountY	Integer	Query	The number of vertical partitions of the bounding box; total bins limited to 20 Note: total bins = binCountX x binCountY

Table 4.14 Aggregation UVI Parameters

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Lower	Between -90 and 90 degrees inclusive
Upper	Between -90 and 90 degrees inclusive
Source	Current source options are: ACLED, Anthrometer, Gazetteer, GDB, GDELT, HGIS, IIP-SA-Raster, ImageMining, InsightCloudMR, MASS Service, OSM, SETD, Tomnod *Note: Less in Staging

Table 4.15 Aggregation UVI Parameter Limits

4.2.2.1.2 List Available Sources

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/aggs/sources?left={value}&right={value}&upper={value}&lower={value}}

- 1. Submit a GET request to retrieve InsightCloud Anthrometer information. The REST call via monocle-3 application will look similar to the following:
 - https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/aggs/sources?north=42.631&east=37.2633&south=34.7208&west=32.3964
- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

4.2.2.1.3 List Available Sources (binned)

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/aggs/sources/binned?north={value}&east={value}&south={value}&we st={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/aggs/sources/binned?north=42.631&east=37.2633 &south=34.7208&west=32.3964&binCountX=1&binCountY=2

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. The GET call returns a response with a header of 200 OK and a body of:

```
],
    37.2633,
    42.631
   ],
    37.2633,
     38.6759
     32.3964,
    38.6759
    32.3964,
    42.631
"data": [
  "name": "Gazeteer",
  "count": 11895
 },
  "name": "Anthrometer",
  "count": 3
]
"xIndex": 0,
"yIndex": 1,
"north": 38.6759,
"east": 37.2633,
"south": 34.7208,
"west": 32.3964,
"geom": {
 "type": "Polygon",
 "coordinates": [
  [
     32.3964,
     38.6759
   ],
    37.2633,
    38.6759
   ],
```

```
37.2633,
       34.7208
      ],
       32.3964,
       34.7208
       32.3964,
       38.6759
  "data": [
    "name": "SETD",
    "count": 76063
    "name": "HGIS",
    "count": 58492
    "name": "Gazeteer",
    "count": 23292
   },
    "name": "OSM",
    "count": 2
    "name": "Anthrometer",
    "count": 1
"shards": 535
```

4.2.2.2 UVI in ESRI ArcMap Add-In

Note: Sources are subject to rapid change, and both the list of available sources as well as the vector count within each listed source may be different than the given examples. Basic principles still apply.

4.2.2.2.1 Parameters

Parameters	Data Type	Parameter Type	Description
left	String	Query	Longitude in decimal degrees of the lower left bounding box corner
lower	String	Query	Latitude in decimal degrees of the lower left bounding box corner
right	String	Query	Longitude in decimal degrees of the upper right bounding box corner
upper	String	Query	Latitude in decimal degrees of the upper right bounding box corner
geometry	String	Path	The geometry type for which to list items or types (e.g. "Point")
type	String	Path	The vector item type for which to list items (e.g. "Road" or "Media Outlet")
ttl	String	Query	The time to live for the Elasticsearch paging session.
count	Integer	Query	The number of records to return per shard per page request.
fields	String	Path	The comma-separated list of fields to return for the items.
source	String	Path	The source for which to list items or types.
pagingId	String	Form	The paging session ID for which to retrieve a page.

Table 4.16 ESRI UVI Parameters

Parameters	Limits
Left	Between -180 and 180 degrees inclusive
Right	Between -180 and 180 degrees inclusive
Lower	Between -90 and 90 degrees inclusive
Upper	Between -90 and 90 degrees inclusive
Fields	Possible field options are: id, itemDate, ingestDate, ingestSource, name, itemType, format, source, geomType, geom, originalCrs, text, attributes, ingestAttributes
Source	Current source options are: ACLED, Anthrometer, Gazetteer, GDB,

Parameters	Limits			
	GDELT, HGIS, IIP-SA-Raster, ImageMining, InsightCloudMR, MASS			
	Service, OSM, SETD, Tomnod			
	*Note: Less in Staging			

Table 4.17 ESRI UVI Parameter Limits

4.2.2.2.2 List Available Sources

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/sources?left={value}&right={value}&upper={value}&lower={value}

2. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/sources?left=32.3964&right=37.2633&upper =42.631&lower=34.7208

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
    "shards": 175,
    "data": [
        {
            "name": "OSM",
            "count": 127599
        },
        {
            "name": "HGIS",
            "count": 58493
        }
    ]
}
```

4.2.2.2.3 List Available Geometries for a Given Source

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/{source}/geometries?left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/HGIS/geometries?left=32.3964&right=37.263
3&upper=42.631&lower=34.7208

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:

{
    "shards": 175,
    "data": [
        {
            "name": "Polygon",
            "count": 23635
        },
        {
             "name": "PolyLine",
            "count": 8091
        },
        {
             "name": "Point",
            "count": 26766
        }
        ]
```

4.2.2.4 List Available Item Types for a Given Geometry and Source
Basic call format: https://iipbeta.digitalglobe.com/monocle3/app/broker/vector/api/esri/{source}/{geometry}/types?left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/HGIS/Polygon/types?left=32.3964&right=37. 2633&upper=42.631&lower=34.7208

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
  "shards": 175,
  "data": [
     {
         "name": "Cropland",
         "count": 23137
     },
     {
         "name": "Religions",
         "count": 119
     },
     {
         "name": "Languages",
         "name": "Languages",
```

```
"count": 59
},
{
   "name": "Admin2",
   "count": 27
},
...
{
   "name": "Admin1 Unemployment",
   "count": 6
},
{
   "name": "Political Party",
   "count": 6
},
{
   "name": "Admin0",
   "count": 1
}
```

4.2.2.5 List Available Vector Items for Given Item Type, Geometry, and Source (Returns Default Fields)

Basic call format: https://iipbeta.digitalglobe.com/monocle-

 $3/app/broker/vector/api/esri/{source}/{geometry}/{type}?left={value}&right={value}&upper={value}&count={value}}$

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/HGIS/Polygon/Admin0?left=32.3964&right=37.2633&upper=42.631&lower=34.7208&count=100

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:

{
    "displayFieldName": "",
    "features": [
        {
            "attributes": {
                "vector_name": "SYRIAN ARAB REPUBLIC",
                "item_NAME_FAO": "Syrian Arab Republic",
                "item_VALIDTO": "Present",
                "item_NAME_VARIA": "Syrian Arab Republic|Alaouites|United Arab Republic",
                "item_Shape_Length": "24.598553",
                "item_ISO3": "SYR",
                 "item_NAME_LOCAL": "Suriyah",
```

```
"item_Shape_Area_dbl": 18.423695,
"vector_itemType": "Admin0",
"item_ISO2": "SY",
"item_ISON": "760.0",
"item Shape Length dbl": 24.598553,
"item_SOURCE": "www.gadm.org",
"item_FIPS": "SY",
"item_ISON_dbl": 760,
"item_VALIDFR": "Unknown",
"item_NAME_ENGLI": "Syria",
"vector_source": "www.gadm.org",
"item_NAME_FRENC": "Syrienne, République Arabe",
"item_NAME_ISO": "SYRIAN ARAB REPUBLIC",
"item_Shape_Area": "18.423695"
"geometry": {
 "rings": [
    35.859859467000035,
    34.85949707000009
    35.859859467000035,
    34.85930633500004
    35.86071777300009,
    34.85931396500007
   ],
    35.859859467000035,
    34.85949707000009
 ],
    42.220829010000045,
    37.27747726400008
   ],
    42.220829010000045,
    37.27747726400008
 ]
 "spatialReference": {
```

```
"wkid": 4326
 "spatialReference": {
  "wkid": 4326
 "geometryType": "esriGeometryPolygon",
 "fields": [
   "alias": "Name",
   "name": "vector_name",
   "length": 32,
   "type": "esriFieldTypeString"
   "alias": "Item Type",
   "name": "vector_itemType",
   "length": 22,
   "type": "esriFieldTypeString"
   "alias": "NAME FAO",
   "name": "item_NAME_FAO",
   "length": 34,
   "type": "esriFieldTypeString"
}
```

4.2.2.2.6 List Available Vector Items for Given Item Type, Geometry, and Source (Returns Selected Fields)

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/{source}/{geometry}/{type}/{fields}?left={value}&right={value}&upper={value}&lower={value}&count={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-
```

- 3/app/broker/vector/api/esri/HGIS/Polygon/Political%20Party/ingestDate %2CingestSource?left=32.3964&right=37.2633&upper=42.631&lower=3 4.7208&count=100
- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
"displayFieldName": "",
"features": [
  "attributes": {
   "vector_ingestSource": "HGIS",
   "vector_ingestDate": "2015-03-09T21:53:13Z"
  },
  "geometry": {
   "rings": [
       36.73624420200008,
       36.31853103600008
       36.754726410000046,
       36.29829025300006
      ],
       36.193588257000044,
       35.214267731000064
   "spatialReference": {
    "wkid": 4326
"spatialReference": {
 "wkid": 4326
"geometryType": "esriGeometryPolygon",
"fields": [
  "alias": "Ingest Date",
  "name": "vector_ingestDate",
  "length": 38,
  "type": "esriFieldTypeDate"
  "alias": "Ingest Source",
  "name": "vector_ingestSource",
  "length": 24,
  "type": "esriFieldTypeString"
]
```

4.2.2.2.7 List Available Geometries Matching A Given Query

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/geometries?q={query}&left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/query/geometries?q=highway&left=32.3964&right=37.2633&upper=42.631&lower=34.7208
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
    "data": [
        {
            "name": "PolyLine",
            "count": 106
        }
     ],
        "shards": 540
}
```

4.2.2.2.8 List Available Vector Item Types Matching Given Geometry and Ouerv

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/{geometry}/types?q={query}&left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/query/PolyLine/types?q=highway&left=32.39
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

64&right=37.2633&upper=42.631&lower=34.7208

```
{
    "data": [
        {
            "name": "Roads",
            "count": 102
        },
        {
            "name": "Roads Local",
        }
```

```
"count": 4
}
],
"shards": 540
}
4.2.2.2.9 List Available Vector Items Matching Given Query, Geometry
Type, and Item Type
```

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/{geometry}/{type}/{fields}?q={query}&left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/PolyLine/Roads%20Local/itemDate%2 CingestSource%2Cname%2Ctext?q=highway&left=32.3964&right=37.26 33&upper=42.631&lower=34.7208&count=100

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of: "displayFieldName": "", "features": ["attributes": { "vector_name": "Road Highway Tartus - Arida", "vector ingestSource": "HGIS-with-raw", "vector_text": "SYR | Road Highway Tartus - Arida | No | MapCruzin | 0.05605598 | Secondary", "vector_itemDate": "2015-06-01T18:57:02Z" }, "geometry": { "paths": [35.99193040000006, 34.732430700000066], 35.99178280000007, 34.73246640000008 35.99085780000007, 34.73273130000007],

```
35.989278600000034,
34.73321210000006
35.98748530000006,
34.73374680000006
35.98499730000009,
34.73449690000007
35.97952370000007,
34.73615950000004
35.97637960000009,
34.73708350000004
35.973414700000035,
34.737972900000045
35.97197680000005,
34.73839670000007
35.97028460000007,
34.73890360000007
35.96821860000006,
34.739517500000034
35.9645000000000044,
34.74065450000006
35.96286370000007,
34.741061700000046
35.961689000000035,
34.74116140000007
35.96024270000004,
34.741293100000064
```

```
35.958588200000065,
34.741428900000074
35.956250700000055,
34.74159690000005
35.95441620000008,
34.74177230000004
35.95279810000005,
34.74248200000005
35.950802500000066,
34.74349140000004
35.94768160000007,
34.74503180000005
35.94519400000007,
34.74622160000007
35.94390150000004,
34.74684110000004
35.94301020000006,
34.74727270000005
35.942315800000074,
34.74760770000006
35.94151970000007,
34.74803630000008
35.940456700000084,
34.74855050000008
```

```
35.939428500000076,
       34.74902290000006
       35.93917110000007,
       34.74916230000008
       35.938868900000045,
       34.74923170000005
   ],
    "spatialReference": {
     "wkid": 4326
 },
"spatialReference": {
"wkid": 4326
},
"geometryType": "esriGeometryPolyline",
"fields": [
  "alias": "Name",
  "name": "vector_name",
  "length": 1,
  "type": "esriFieldTypeString"
 },
  "alias": "Ingest Source",
  "name": "vector_ingestSource",
  "length": 1,
  "type": "esriFieldTypeString"
 },
  "alias": "Text",
  "name": "vector_text",
  "length": 1,
  "type": "esriFieldTypeString"
 },
  "alias": "Item Date",
  "name": "vector_itemDate",
  "length": 1,
  "type": "esriFieldTypeDate"
 }
```

] }

4.2.2.2.10 Retrieve Page of Vector Items by Type and Query (GET)

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/{geometry}/{type}/paging?q={query}&left={value}&right={value}&upper={value}&lower={value}&ttl={value}&count={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/esri/query/PolyLine/Roads%20Local/paging?q=hi ghway&left=32.3964&right=37.2633&upper=42.631&lower=34.7208&ttl=5m&count=500

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

"pagingId":

c2Nhbjs1NDA7NTkyNzY1ODp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU5MjQ1MjQ6VmVxUVhVa" mpRWnk1dUVlM3ppcXN6QTs1OTI0NTI1OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTkyNjExMDp0 TWZsVUZoX1QzV21BQmJfek5pYWVROzU5MjQ1MjY6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1 OTI2MTg5OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTkyNzY2MDp2YV8tc2pLdFNndWVEVzQzdVh RXNDN1WGZaUnc7NTkyNDUyOTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5MjY0NTA6ZkhzU1 Tp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU5MjQ1MzA6VmVxUVhVampRWnk1dUVlM3ppcXN6Q $\label{eq:linear_stress} Jfek5pYWVROzU5Mjc2NjI6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1OTI3NjYxOnZhXy1zakt0U2d1Z$ URXNDN1WGZaUnc7NTkyNDUzMTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5MjQ1MzI6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI2MTE0OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTkyN DUzMzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5MjQ1MzQ6VmVxUVhVampRWnk1dUVlM3ppcCUGlrNTA1MV9BOzU5MjQ1MzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI2NDUxOmZIc1N zY6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI2MTkxOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7 NTkyNjE5MjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU5MjYxMTU6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MTE2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTkyNDUzNzpWZXFRWFVqalFurnerspace and the property of theaeTV1RWUzemlxc3pBOzU5MjQ1Mzg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI0NTM5OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTkyNjExNzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU5Mj VYZlpSdzs1OTI2MTE4OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTkyNjE5MzpaYmh6Ykt2MFNCb URCUGlrNTA1MV9BOzU5MjYxOTU6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1OTI2MTk0OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTkyNjQ4NzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU5Mjc3MD Y6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1OTI3NjY2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NT kyNjE0NTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU5MjY0NTM6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1OTI2NDUy0mZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTkyNzY2Nzp2YV8tc2pLdFNndW VEVzQzdVhmWlJ3OzU5MjQ1NDA6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI2NDU00mZIc1 NUbk9fUS1Xc0RfVmU3U2NKWIE7NTkyNDU0MTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5Mjc 2Njg6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1OTI2MTE5OnRNZmxVRmhfVDNXbUFCYl96TmlhZV E7NTkyNjQ5NjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU5MjQ1NDI6VmVxUVhVampRWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMM3ppcXN6QTs1OTI3Njk4OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyNDU0MzpWZXFRWFVqal FYVWpqUVp5NXVFZTN6aXFzekE7NTkyNjQ1NTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU5Mjc2

Njk6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1OTI0NTkwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE73ppcXN6QTs1OTI2NDg4OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTkyNDU0NjpWZXFRWFVqalFa eTV1RWUzemlxc3pBOzU5MjYxNTI6dE1mbFVGaF9UM1dtOUJiX3pOaWFlUTs1OTI2NDU2OmZIc1N Ubk9fUS1Xc0RfVmU3U2NKWlE7NTkyNDU0NzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5MjYx MjA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MTk3OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7N TkyNzY3MDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU5MjYxMjE6dE1mbFVGaF9UM1dtQUJiX3pO aWFIUTs1OTI0NTQ4OIZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTkyNzY3MTp2YV8tc2pLdFNndWV EVzQzdVhmWlJ3OzU5MjYxMjI6dEImbFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFVGaF9UM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFUM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFUM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiS3YwUFUM1dtQUJiX3pOaWFlUTs1OTI2MjI0OlpiaHpiSAWflUTs1OTI2MjI0OlpiaHpiSAWflUTS1OTI2MjI0OlpiaHpiSAWflUTs1OTI2MjI0OlpiaHpiSAWflUTs1OTI2MjI0OlpiaHpiSAWflUTS1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTI2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWflUTs1OTi2Mji0OlpiaHpiSAWOJtREJQaWs1MDUxX0E7NTkyNzY3Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU5MjQ1NDk6VmVPNDQ1NDk6VmVPNxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI2MTQ2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTky NzY5OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU5Mjc2NzQ6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSC0M3VYZldzs1OTI3NzA4OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyNDU5MTpWZXFRWFVqalFaeTV1RW Uzemlxc3pBOzU5Mjc2NzM6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1OTI0NTUwOlZlcVFYVWpqUV p5NXVFZTN6aXFzekE7NTkyNDU1MTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU5MjQ1NTI6VmV xUVhVampRWnk1dUVlM3ppcXN6QTs1OTI3Njc1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyND 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sVUZoX1QzV21BQmJfek5pYWVROzU5MjQ2MjE6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1OTI3 NzU1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyNjE3OTp0TWZsVUZoX1QzV21BQmJfek5pYW LVdzRF9WZTdTY0paUTs1OTI3NzU4OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyNjIwNTp0TWZ sVUZoX1QzV21BQmJfek5pYWVROzU5MjY1NTI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1OTI2Mj U5MjY1NDg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1OTI2MjAyOnRNZmxVRmhfVDNXbUFCYI96 TmlhZVE7NTkyNjE5MTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU5Mjc3NDk6dmFfLXNqS3RTZ3 VIRFc0M3VYZlpSdzs1OTI0NjI3OIZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTkyNjMwMTpaYmh6Ykt 2MFNCbURCUGlrNTA1MV9BOzU5MjY1NDI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1OTI2MTgy OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTkyNjI5MzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BO mlhZVE7NTkyNjI5NzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU5MjYzMDg6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1OTI3NzU2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTkyNjE3ODp0TWZsVULNDN1WThYNJE3ODp0TWZsVULNDN1W

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4.2.2.2.11 Retrieve Page of Vector Items by Type (GET)

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/{source}/{geometry}/{type}/paging?left={value}&right={value}&u pper={value}&lower={value}&ttl={value}&count={value}

1. Submit a GET request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/OSM/Point/Tower/paging?left=32.3964&right=37.2633&upper=42.631&lower=34.7208&ttl=5m&count=500

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

"pagingId":

"c2NhbjsxNzU7MTc1OTczMjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjA2MTI6dE1mbFVGaF9 UM1dtQUJiX3pOaWFlUTsxNzYwNTk0OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTc2MTg1NDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NTk3NTI6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNz YwNiI0OnRNZmxVRmhfVDNXbUFCYI96TmlhZVE7MTc2MTO4NDpmSHNTVG5PX1EtV3NEX1ZlN1 FZTN6aXFzekE7MTc1OTc0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE1MTA6ZkhzU1RuT1 9RLVdzRF9WZTdTY0paUTsxNzYwNTk1OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTc1OTczNDp WZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4NTU6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzsxNzU 5NzYwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc2MTg3Mzp2YV8tc2pLdFNndWVEVzQzdVhmWIJ3OzE3NTk3MzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNzYwNjA1OnRNZmxVRmhfVDNX bUFCYl96TmlhZVE7MTc2MTQ4NTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzE3NTk3NTM6VmVxU VhVampRWnk1dUVlM3ppcXN6QTsxNzU5NzM2OIZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc1OTc 0NjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4NTY6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzsx NzYxODgxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MDU5Njp0TWZsVUZoX1QzV21BQmJfek RXNDN1WGZaUnc7MTc2MTg1ODp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWVEVzQzdVhmWlJ3OzE3NjA2MTM6dE1mbF10dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFNdWTM6dFVGaF9UM1dtQUJiX3pOaWFlUTsxNzU5NzM3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc2MTg3 Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NTk3NjE6VmVxUVhVampRWnk1dUVlM3ppcXN6QT sxNzU5NzM4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc2MDYyMjpaYmh6Ykt2MFNCbURCUGlr NTA1MV9BOzE3NjE4NTk6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzsxNzYxODgyOnZhXy1zakt0U2d1Z URXNDN1WGZaUnc7MTc2MDU5Nzp0TWZsVUZoX1OzV21BQmJfek5pYWVROzE3NjA2MjE6dE1mb FVGaF9UM1dtQUJiX3pOaWFlUTsxNzYxODYwOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTg3MDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NjA1OTg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs

p5NXVFZTN6aXFzekE7MTc2MDU5MjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjA2MTY6Wm Tc2NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzc6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSd zsxNzU5NzQwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc2MTg2Mzp2YV8tc2pLdFNndWVEVzQ zdVhmWlJ3OzE3NjA2MDI6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzYxNDk3OmZIc1NUbk9fUS1 bFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYxODg1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTg 2Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NTk3NDE6VmVxUVhVampRWnk1dUVlM3ppcXN6 QTsxNzYxODcxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTg2NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NTk3NDg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNzU5NzQyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFzekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc4NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc4NjE4Nzg6dmZYFxekE7MTc1OTc2MzpWZXFRWFVqalFaeTV1RWUzemlxc4NjE4Nzg6dmZYFxekE7MZFxeTg4OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NTk3NDU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNzYxODc0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc1OTc1NTpWZXFRWFVqalFaeTV1 RWUzemlxc3pBOzE3NjA1OTg6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzYxNDg2OmZIc1NUbk9f US1Xc0RfVmU3U2NKWlE7MTc2MDU5NTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjE1MDk6 ZkhzU1RuT19RLVdzRF9WZTdTY0paUTsxNzYxNDg3OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7MTcTFfQTsxNzYxNTAzOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7MTc2MTQ5ODpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzE3NjA2MDQ6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzYxODgzOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTg2Njp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NjA2MTQ6 c2MTg3OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NjA1OTk6dE1mbFVGaF9UM1dtQUJiX3pOallered for the compact of the compWFIUTsxNzYwNTk0OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7MTc2MTg2OTp2YV8tc2pLdFNndWVEIDAMART AND STANFORM AND STANFORVzQzdVhmWlJ3OzE3NTk3NTk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNzYxNTA1OmZlc1NUb k9fUS1Xc0RfVmU3U2NKWIE7MTc2MTQ4OTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzE3NjA2MT Q6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzU5NzQ3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7M Tc2MTUxODpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzE3NjE1MDA6ZkhzU1RuT19RLVdzRF9WZTd TY0paUTsxNzYwNjAwOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTc2MTQ5OTpmSHNTVG5PX1 EtV3NEX1ZlN1NjSlpROzE3NjA2Mjc6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYxNDkwOmZIc1N Ubk9fUS1Xc0RfVmU3U2NKWlE7MTc2MDYwMzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjA 1OTc6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzYwNjIwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7 MTc2MTUxMTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzE3NjE0OTE6ZkhzU1RuT19RLVdzRF9WZT dTY0 pa UTs x Nz YwNjA5Olpia HpiS3 YwU0Jt REJQaWs 1MDUxX0E7MTc 2MDYyNTp 0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3NjA2MTg6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzU5NzUwOlZlcVFAMAND AND SAMAND SAMAND AND SAMAND AND SAMAND AND SAMAND AND SAMAND AND SAMAND SAMAND AND SAMAND AND SAMAND AND SAMAND AND SAMAND AND SAMAND ANYVWpqUVp5NXVFZTN6aXFzekE7MTc2MDYwNzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3NjA 7MTc1OTc2NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjA2MDU6WmJoemJLdjBTQm1EQlBpa zUwNTFfQTsxNzYwNjE2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTc2MDYwMjp0TWZsVUZoX 10zV21BOmJfek5pYWVROzE3NiA1OTM6WmJoemJLdiBTOm1EOlBpazUwNTFfOTsxNzYwNiIxOlpia HpiS3YwU0JtREJQaWs1MDUxX0E7MTc2MDYxOTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3Nj A2MjM6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYwNjA4OnRNZmxVRmhfVDNXbUFCYl96Tmlh ZVE7MTc2MDYxNzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjE1MTQ6ZkhzU1RuT19RLVdzRight New York National New York New York National National NatiF9WZTdTY0paUTsxNzYxODkwOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTg4Nzp2YV8tc2pL ZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTUxMjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzE3 NjE1MDI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTsxNzYxNDkyOmZIc1NUbk9fUS1Xc0RfVmU3U2N KWIE7MTc1OTc2MjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzE3NjA2MTU6dE1mbFVGaF9UM1dtQ UJiX3pOaWFIUTsxNzYxNTA3OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7MTc2MTQ5MzpmSHNTVG12MTQ5MzpmShNTVG12MTQ5MxTQ5MzpmShNTVG12MTQ5MzpmShNTVG12MTQ5MzpmShNTVG12MTQ5MzpmShNTVG12MTQ5MzpmShNTZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7MTc2MDU5OTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE 3NjA2MDQ6dE1mbFVGaF9UM1dtQUJiX3pQaWFlUTsxNzYxNTAxOmZlc1NUbk9fUS1Xc0RfVmU3U2 NKWIE7MTc2MTO5NDpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzE3NjE1MTU6ZkhzU1RuT19RLVdz RF9WZTdTY0paUTsxNzYwNjA3OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7MTc1OTc1NjpWZXFRWF VqalFaeTV1RWUzemlxc3pBOzE3NjE0OTU6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTsxNzYxNTE5Om ZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7MTc2MDYwNjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE 3NjE4NzU6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzsxNzYwNjExOlpiaHpiS3YwU0JtREJQaWs1MDUxX 0E7MTc2MDYyNDpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjA2MTU6WmJoemJLdjBTQm1EQ lBpazUwNTFfQTsxNzYwNjAwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7MTc2MTg4NDp2YV8tc2pLdFfqANDp2YV8tc2pLdffqANDp2YV8tc2pldffqANDp2YV8tcNndWVEVzQzdVhmWlJ3OzE3NTk3NTg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTsxNzYwNjA4OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7MTc2MDYyNjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3Nj E1MDQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTsxNzYwNjEyOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7MTc2MDYyMjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3NjE1MTc6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTsxNzYxODc2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MTQ5NjpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzE3NjA2MDk6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYwNjExOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTc2MDYxNzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzE3NjA2MTA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYxODkxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MDYxMzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjA2MTg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzU5NzUxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7MTc2MTg4MDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzE3NjA2MjA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTsxNzYxNTA2OmZlc1NUbk9fUS1Xc0RfVmU3U2NKWIE7MTc2MDYyMzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE3NjA2MTA6WmJoemJLdjBTQm1EQlBpazUwNTFfQTsxNzYxODg2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7MTc2MDYwMTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzE7dG90YWxfaGl0czo2Ow==""

4.2.2.2.12 Retrieve Page of Vector Items (POST)

1. Submit a POST request to retrieve InsightCloud ESRI UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/esri/paging

With a header Content-type:application/x-www-form-urlencoded and a body of the paging ID generated in Section: Retrieve Page of Vector Items by Type (GET) or in Section: Retrieve Page of Vector Items by Type and Query (GET)

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
     properties: {
     id: "OSM-node-1612839439",
     ingestDate: "2015-04-10T00:14:21Z",
     test: "tower",
     ingestAttributes:
        "osm.host": "10.0.65.150",
        "osm.database": "osm"
      },
      source: null,
      originalCrs: "EPSG:4326",
      ingestSource: "OSM",
      name: null,
      itemType: "Tower",
      format: "OSM",
      asstributes:
        " osm.user.id.dbl": 196617,
        " osm.version.int": 1,
        "_osm.user.name": "venerdi",
        "_osm.changeset.dbl": 10547383,
```

```
"_osm.changeset.int": 10547383,
    "power": "tower",
    "_osm.version.dbl": 1,
    "_osm.changeset": "10547383",
    "_osm.user.id": "196617",
    "_osm.version": "1",
    "_osm.user.id.int": 196617
    },
    "itemDate": "2012-01-31T09:27:41Z"
    },
    "type": "Feature",
    "geometry": {
    "type": "Point",
    "coordinates":
    [
        34.051577,
        31.16638
    ]
    },
...
]
```

4.2.2.3 UVI in Web application

4.2.2.3.1 Parameters

Parameters	Data Type	Parameter Type	Description
left	String	Query	Longitude in decimal degrees of the lower left bounding box corner
lower	String	Query	Latitude in decimal degrees of the lower left bounding box corner
right	String	Query	Longitude in decimal degrees of the upper right bounding box corner
upper	String	Query	Latitude in decimal degrees of the upper right bounding box corner
type	String	Path	The vector item type for which to list items (e.g. "Road" or "Media Outlet")
ttl	String	Query	The time to live for the Elasticsearch paging session.
count	Integer	Query	The number of records to return per shard per page request.
fields	String	Path	The comma-separated list of fields to return for the

Parameters	Data Type	Parameter Type	Description
			items.
source	String	Path	The source for which to list items or types.
pagingId	String	Form	The paging session ID for which to retrieve a page.

Table 4.18 Web UVI Parameters

Parameters	Limits		
Left	Between -180 and 180 degrees inclusive		
Right	Between -180 and 180 degrees inclusive		
Lower	Between -90 and 90 degrees inclusive		
Upper	Between -90 and 90 degrees inclusive		
Fields	Possible field options are: id, itemDate, ingestDate, ingestSource, name, itemType, format, source, geomType, geom*, originalCrs, text, attributes,		
	ingestAttributes *Note: geom will always display, even if not specified		
Source	Current source options are: ACLED, Anthrometer, Gazetteer, GDB,		
	GDELT, HGIS, IIP-SA-Raster, ImageMining, InsightCloudMR, MASS		
	Service, OSM, SETD, Tomnod		
	*Note: less in Staging		

Table 4.19 Web UVI Parameter Limits

4.2.2.3.2 List Available Sources

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/sources?left={value}&right={value}&up

 $3/app/broker/vector/api/vectors/sources?left=\{value\}\&right=\{value\}\&upper=\{value\}\&lower=\{value\}\&upper=\{value\}\&lower=\{value\}\&upp$

- Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/sources?left=32.3964&right=37.2633&up
 - per=42.631&lower=34.7208
- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

3. The GET call returns a response with a header of 200 OK and a body of:

```
{
  "shards": 175,
  "data": [
     {
          "name": "OSM",
          "count": 127599
     },
     {
          "name": "HGIS",
          "count": 58493
     }
  ]
}
```

4.2.2.3.3 List Available Vector Types for a Given Source

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/{source}/types?left={value}&right={value}&upper={value}&lower={value}

1. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/HGIS/types?left=32.3964&right=37.2633&upper=42.631&lower=34.7208
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
  "data": [
    {
        "name": "GNDB",
        "count": 25065
    },
    {
        "name": "Cropland",
        "count": 23137
    },
    {
        "name": "Roads Local",
        "count": 7608
    },
    {
        "name": "Peaks",
        "count": 529
    },
    {
}
```

```
"name": "Earthquakes",
"count": 469
"name": "Roads",
"count": 326
"name": "Religious Institutions",
"count": 291
"name": "Springs",
"count": 140
"name": "Religions",
"count": 119
"name": "Water Lines 1993",
"count": 112
"name": "Tourist Locations",
"count": 98
"name": "Languages",
"count": 59
"name": "Bus Rail Stops",
"count": 39
"name": "Military Inst",
"count": 38
"name": "Admin2",
"count": 27
"name": "Admin2 Education",
"count": 27
"name": "Admin2 Employment",
"count": 27
```

```
},
 "name": "Admin2 Mortality",
"count": 27
 "name": "Admin2 Population",
 "count": 27
 "name": "Admin2 Poverty",
 "count": 27
 "name": "Admin2 Services",
 "count": 27
 "name": "Admin2 Unemployment",
 "count": 27
 "name": "Powerlines",
 "count": 25
},
 "name": "Rail Lines",
 "count": 19
 "name": "2012 Crisis External Camps",
 "count": 15
 "name": "Irrigation Zones 2008",
 "count": 15
 "name": "Mines",
 "count": 13
 "name": "Water Poly 1993",
 "count": 12
 "name": "Ethnicity",
 "count": 9
```

```
"name": "Oil Gas",
"count": 9
"name": "Embassy",
"count": 8
"name": "Internet Cafes",
"count": 8
"name": "2012 Crisis Conflict Areas",
"count": 7
"name": "Ports",
"count": 7
"name": "2012 Crisis External Refugee Registration",
"count": 6
"name": "Admin1",
"count": 6
"name": "Admin1 Education",
"count": 6
"name": "Admin1 Employment",
"count": 6
"name": "Admin1 Mortality",
"count": 6
"name": "Admin1 Population",
"count": 6
"name": "Admin1 Poverty",
"count": 6
"name": "Admin1 Services",
"count": 6
```

```
},
 "name": "Admin1 Unemployment",
"count": 6
 "name": "Political Party",
 "count": 6
 "name": "Substations",
 "count": 6
 "name": "Airfields",
 "count": 5
 "name": "Media Outlets",
 "count": 5
 "name": "Powerplants",
 "count": 5
},
 "name": "Palestinian Refugee Camps",
 "count": 4
 "name": "2012 Crisis Border Crossings",
 "count": 3
 "name": "Dams 2008",
 "count": 3
 "name": "Free Trade Zones",
 "count": 3
 "name": "Mineral Resources",
 "count": 2
 "name": "Admin0",
 "count": 1
```

```
"name": "Oil Gas Pipelines",
"count": 1
},
{
    "name": "Volcanoes",
    "count": 1
}
],
"shards": 540
```

4.2.2.3.4 List Available Vector Items For Given Source and Item type
Basic call format: https://iipbeta.digitalglobe.com/monocle3/app/broker/vector/api/vectors/{source}/{type}?left={value}&right={value}&upper={value}&lo
wer={value}&count={value}

 Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/HGIS/GNDB?left=32.3964&right=37.263

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

3&upper=42.631&lower=34.7208&count=100

```
"geometry": {
    "coordinates": [
    36.13333300000005,
    34.93333300000006
   "type": "Point"
  "properties": {
   "ingestDate": "2015-05-12T00:36:34Z",
   "id": "496065da-cf1e-45da-923f-aa026b84d587",
   "text": "SY | 345600.0 | 360800.0 | PPL | Beït Nâflé | UNK | SYR | NI37-05 |
34.933334 | 36.13333 | 37SBU3816269403 | 3.0 | BEITNAFLE | http://earth-
info.nga.mil/gns/html/namefiles.htm | -2540360.0 | -3487572.0",
   "ingestAttributes": {
    "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
    "originalLayer": "SYR_GNDB_120904_WGS84"
   "source": "http://earth-info.nga.mil/gns/html/namefiles.htm",
   "originalCrs": "EPSG:4326",
   "itemType": "GNDB",
   "name": "Beït Nâflé",
   "ingestSource": "HGIS",
```

```
"attributes": {
   "DSG": "PPL",
   "DMS_LONG.dbl": 360800,
   "RC.dbl": 3,
   "RC": "3.0",
   "MGRS": "37SBU3816269403",
   "GENERIC": "UNK",
   "SORT_NAME_": "BEITNAFLE",
   "ISO3": "SYR",
   "DMS_LAT": "345600.0",
   "UNI.dbl": -3487572,
   "DMS_LAT.dbl": 345600,
   "UFI.dbl": -2540360,
   "LAT": "34.933334",
   "SOURCE": "http://earth-info.nga.mil/gns/html/namefiles.htm",
   "LAT.dbl": 34.933334,
   "LONG.dbl": 36.13333,
   "JOG": "NI37-05",
   "UNI": "-3487572.0",
   "LONG": "36.13333",
   "DMS_LONG": "360800.0",
   "FULL_NAME_": "Beït Nâflé",
   "CC1": "SY",
   "UFI": "-2540360.0"
  },
  "format": "FileGDB",
  "access": {
   "users": [
    "_ALL_"
   ],
   "groups": [
    "_ALL_"
  },
  "itemDate": "2015-05-12T00:36:34Z"
 "type": "Feature"
},
 "geometry": {
  "coordinates": [
   36.929786000000036,
   35.96984400000008
  "type": "Point"
 "properties": {
  "ingestDate": "2015-05-12T00:36:36Z",
  "id": "5bf40bc5-c5d7-42a2-a6b4-f4a8c8fd2b35",
```

```
"text": "SY | 355811.0 | 365547.0 | AREA | Sahm al Misrad | UNK | SYR | NI37-01 |
35.969845 | 36.929787 | 37SCV1333382585 | 3.0 | SAHMALMISRAD | http://earth-
info.nga.mil/gns/html/namefiles.htm | -2546956.0 | -3506944.0",
   "ingestAttributes": {
    "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
    "originalLayer": "SYR_GNDB_120904_WGS84"
   },
   "source": "http://earth-info.nga.mil/gns/html/namefiles.htm",
   "originalCrs": "EPSG:4326",
   "itemType": "GNDB",
   "name": "Sahm al Misrad",
   "ingestSource": "HGIS",
   "attributes": {
    "DSG": "AREA",
    "DMS LONG.dbl": 365547,
    "RC.dbl": 3,
    "RC": "3.0",
    "MGRS": "37SCV1333382585",
    "GENERIC": "UNK",
    "SORT_NAME_": "SAHMALMISRAD",
    "ISO3": "SYR",
    "DMS_LAT": "355811.0",
    "UNI.dbl": -3506944,
    "DMS LAT.dbl": 355811,
    "UFI.dbl": -2546956,
    "LAT": "35.969845",
    "SOURCE": "http://earth-info.nga.mil/gns/html/namefiles.htm",
    "LAT.dbl": 35.969845,
    "LONG.dbl": 36.929787,
    "JOG": "NI37-01",
    "UNI": "-3506944.0".
    "LONG": "36.929787",
    "DMS_LONG": "365547.0",
    "FULL_NAME_": "Sahm al Misrad",
    "CC1": "SY",
    "UFI": "-2546956.0"
   },
   "format": "FileGDB",
   "access": {
    "users": [
     "_ALL_"
    ],
    "groups": [
     "_ALL_"
   "itemDate": "2015-05-12T00:36:36Z"
  "type": "Feature"
```

]

4.2.2.3.5 List Available Vector Item Types Matching A Query

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/query/types?left={value}&right={value}&upper={value}&lower ={value}

1. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/types?q=building&left=32.3964&right=37.2633&upper=42.631&lower=34.7208
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
    "data": [
        {
            "name": "Mines",
            "count": 6
        }
    ],
    "shards": 540
}
```

4.2.2.3.6 List Available Vector Items for Given Item Type and Query

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/query/{type}?q={query}&left={value}&right={value}&upper={value}&lower={value}&count={value}

1. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/Mines?q=building&left=32.3964&right=37.2633&upper=42.631&lower=34.7208&count=100
```

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

```
{
    "geometry": {
        "coordinates": [
        35.88300000000004,
        34.88300000000004
],
    "type": "Point"
```

```
"properties": {
   "ingestDate": "2015-06-01T18:56:17Z",
   "id": "882849e6-dc5e-463a-9023-84ddb3be1cc6",
   "text": "1,800 | Cement | Tartous Company for Cement & Building Materials | Syria |
Plant | -16 | SYR | 34.883 | 35.883 | UNK | Mining method is not known or is not
applicable because the operation is a processing plant rather than a mine | Tartous | USGS
| Active | The operation was producing in 2004 | t / yr",
   "ingestAttributes": {
    "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
    "originalLayer": "SYR Mines 120905 WGS84"
   },
   "source": "USGS",
   "originalCrs": "EPSG:4326",
   "itemType": "Mines",
   "name": null,
   "ingestSource": "HGIS-with-raw",
   "attributes": {
    "SITE.raw": "Tartous",
    "METHOD.raw": "UNK",
    "LATITUDE.dbl": 34.883,
    "STATUS.raw": "Active",
    "CAPACITY": "1,800",
    "ID.raw": "-16",
    "ID.int": -16,
    "LONGITUDE.raw": "35.883",
    "ISO3": "SYR",
    "STATUS": "Active",
    "LATITUDE": "34.883",
    "SITE": "Tartous",
    "LATITUDE.raw": "34.883",
    "SOURCE": "USGS",
    "SOURCE.raw": "USGS",
    "COMMODITY.raw": "Cement",
    "ID": "-16",
    "COMMODITY": "Cement",
    "COUNTRY.raw": "Syria",
    "FACILITY.raw": "Plant",
    "COMPANY": "Tartous Company for Cement & Building Materials",
    "STATUS_1": "The operation was producing in 2004",
    "UNITS": "t / yr",
    "ID.dbl": -16,
    "ISO3.raw": "SYR",
    "UNITS.raw": "t / yr".
    "COUNTRY": "Syria",
    "FACILITY": "Plant",
    "LONGITUDE.dbl": 35.883,
    "COMPANY.raw": "Tartous Company for Cement & Building Materials",
    "METHOD 1": "Mining method is not known or is not applicable because the
operation is a processing plant rather than a mine",
```

```
"STATUS 1.raw": "The operation was producing in 2004",
    "METHOD_1.raw": "Mining method is not known or is not applicable because the
operation is a processing plant rather than a mine",
     "CAPACITY.raw": "1,800",
    "LONGITUDE": "35.883",
     "METHOD": "UNK"
    },
   "format": "FileGDB",
    "access": {
     "users": [
      " ALL "
    ],
     "groups": [
      "_ALL_"
    "itemDate": "2015-06-01T18:56:20Z"
  "type": "Feature"
 },
  "geometry": {
    "coordinates": [
    37.159000000000005,
    36.203000000000009
    "type": "Point"
  },
  "properties": {
   "ingestDate": "2015-05-12T00:42:31Z",
   "id": "9eb61b90-9a03-4cc6-9998-efbf3f7c8d1f",
   "text": "920 | Cement | al-Chaba Cement & Building Materials (GOCBM, 100%) |
Syria | Plant | -22 | SYR | 36.203 | 37.159 | UNK | Mining method is not known or is not
applicable because the operation is a processing plant rather than a mine | Aleppo | USGS
| Active | The operation was producing in 2004 | t / yr",
    "ingestAttributes": {
    "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
     "originalLayer": "SYR_Mines_120905_WGS84"
    },
    "source": "USGS",
    "originalCrs": "EPSG:4326",
   "itemType": "Mines",
   "name": null,
    "ingestSource": "HGIS",
    "attributes": {
     "COMPANY": "al-Chaba Cement & Building Materials (GOCBM, 100%)",
    "STATUS 1": "The operation was producing in 2004",
     "UNITS": "t / yr",
    "LATITUDE.db1": 36.203,
```

```
"ID.dbl": -22,
    "COUNTRY": "Syria",
    "CAPACITY": "920",
    "CAPACITY.dbl": 920,
    "ID.int": -22.
    "FACILITY": "Plant",
    "LONGITUDE.dbl": 37.159,
    "ISO3": "SYR",
    "STATUS": "Active",
    "LATITUDE": "36.203",
    "SITE": "Aleppo",
    "SOURCE": "USGS",
    "CAPACITY.int": 920,
    "METHOD_1": "Mining method is not known or is not applicable because the
operation is a processing plant rather than a mine",
    "ID": "-22",
    "COMMODITY": "Cement",
    "METHOD": "UNK",
    "LONGITUDE": "37.159"
   "format": "FileGDB",
   "access": {
    "users": [
     "_ALL_"
    "groups": [
     "_ALL_"
   "itemDate": "2015-05-12T00:42:33Z"
  "type": "Feature"
1
```

4.2.2.3.7 List Available Vector Items by Source, Type, and Matching A Query, Returning Only Specified Fields

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/query/{type}/{fields}?q={query}&left={value}&right={value}&pper={value}&lower={value}&count={value}

2. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/query/Mines/geomType%2Csource?q=building&left=32.3964&right=37.2633&upper=42.631&lower=34.7208&count=100

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
      "properties": {
        "source": "USGS",
        "access": {
        "users": [
          "_ALL_"
         ],
         "groups": [
          "_ALL_"
      "type": "Feature",
      "geometry": {
       "type": "Point",
       "coordinates": [
         35.883000000000004,
         34.88300000000004
     },
      "properties": {
       "source": "USGS",
       "access": {
         "users": [
          "_ALL_"
         ],
         "groups": [
          "_ALL_"
      "type": "Feature",
      "geometry": {
       "type": "Point",
        "coordinates": [
        37.15900000000005,
         36.203000000000009
       ]
```

List Available Vector Items Matching A Query

4.2.2.3.8

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/items?q={query}&left={value}&right={value}&upper={value}&lower={value}&count={value}

3. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

```
https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/items?q=building&left=32.3964&right=37.2633&upper=42.631&lower=34.7208&count=100
```

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
      "geometry": {
       "coordinates": [
        36.733000000000006,
        34.917000000000009
       "type": "Point"
      "properties": {
       "ingestDate": "2015-05-12T00:42:31Z",
       "id": "0d3f6a01-0ce6-468c-9334-433430660262",
       "text": "120 | Cement | Rastan Co. for Cement and Building Materials (GOCBM,
    100%) | Syria | Plant | -17 | SYR | 34.917 | 36.733 | UNK | Mining method is not known
   or is not applicable because the operation is a processing plant rather than a mine | Rastan
   | USGS | Active | The operation was producing in 2004 | t / yr",
       "ingestAttributes": {
        "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
        "originalLayer": "SYR_Mines_120905_WGS84"
       },
       "source": "USGS",
       "originalCrs": "EPSG:4326",
       "itemType": "Mines",
       "name": null,
       "ingestSource": "HGIS",
       "attributes": {
        "COMPANY": "Rastan Co. for Cement and Building Materials (GOCBM, 100%)",
        "STATUS_1": "The operation was producing in 2004",
        "UNITS": "t / yr",
        "LATITUDE.dbl": 34.917,
        "ID.dbl": -17,
        "COUNTRY": "Syria",
        "CAPACITY": "120",
        "CAPACITY.dbl": 120,
        "ID.int": -17,
        "FACILITY": "Plant",
```

```
"LONGITUDE.dbl": 36.733,
    "ISO3": "SYR",
     "STATUS": "Active",
    "LATITUDE": "34.917",
    "SITE": "Rastan".
     "SOURCE": "USGS",
     "CAPACITY.int": 120,
    "METHOD_1": "Mining method is not known or is not applicable because the
operation is a processing plant rather than a mine",
    "ID": "-17",
     "COMMODITY": "Cement",
    "METHOD": "UNK",
    "LONGITUDE": "36.733"
    },
   "format": "FileGDB",
    "access": {
     "users": [
      "_ALL_"
     "groups": [
      "_ALL_"
   "itemDate": "2015-05-12T00:42:33Z"
  "type": "Feature"
  "geometry": {
    "coordinates": [
    37.15900000000005,
    36.203000000000009
    "type": "Point"
  "properties": {
   "ingestDate": "2015-05-12T00:42:31Z",
   "id": "9eb61b90-9a03-4cc6-9998-efbf3f7c8d1f",
   "text": "920 | Cement | al-Chaba Cement & Building Materials (GOCBM, 100%) |
Syria | Plant | -22 | SYR | 36.203 | 37.159 | UNK | Mining method is not known or is not
applicable because the operation is a processing plant rather than a mine | Aleppo | USGS
| Active | The operation was producing in 2004 | t / yr",
    "ingestAttributes": {
    "filePath": "/home/jeffrey.erikson/HGIS2/unzipped/Syria.gdb",
     "originalLayer": "SYR_Mines_120905_WGS84"
    },
    "source": "USGS",
   "originalCrs": "EPSG:4326",
   "itemType": "Mines",
```

```
"name": null,
   "ingestSource": "HGIS",
   "attributes": {
    "COMPANY": "al-Chaba Cement & Building Materials (GOCBM, 100%)",
    "STATUS 1": "The operation was producing in 2004",
    "UNITS": "t / yr",
    "LATITUDE.db1": 36.203,
    "ID.dbl": -22,
    "COUNTRY": "Syria",
    "CAPACITY": "920",
    "CAPACITY.dbl": 920,
    "ID.int": -22,
    "FACILITY": "Plant",
    "LONGITUDE.dbl": 37.159,
    "ISO3": "SYR",
    "STATUS": "Active",
    "LATITUDE": "36.203",
    "SITE": "Aleppo",
    "SOURCE": "USGS",
    "CAPACITY.int": 920,
    "METHOD_1": "Mining method is not known or is not applicable because the
operation is a processing plant rather than a mine",
    "ID": "-22",
    "COMMODITY": "Cement",
    "METHOD": "UNK",
    "LONGITUDE": "37.159"
   },
   "format": "FileGDB",
   "access": {
    "users": [
     "_ALL_"
    ],
    "groups": [
     "_ALL_"
   "itemDate": "2015-05-12T00:42:33Z"
  },
  "type": "Feature"
1
4.2.2.3.9
               List Available Vector Items Matching A Query, Returning Only
```

4.2.2.3.9 List Available Vector Items Matching A Query, Returning Only Specified Fields

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/query/items/{fields}?q={query}&left={value}&right={value}&upper={value}&lower={value}&count={value}

4. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/items/name%2Csource?q=building &left=32.3964&right=37.2633&upper=42.631&lower=34.7208&count=100

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of: "properties": { "source": "USGS", "name": null, "access": { "users": [" ALL "], "groups": ["_ALL_" "type": "Feature", "geometry": { "type": "Point", "coordinates": [36.733000000000006, 34.917000000000009] }, "properties": {

"source": "USGS",
"name": null,
"access": {
 "users": [
 "_ALL_"

1,

"groups": ["_ALL_"

"type": "Feature",
"geometry": {
 "type": "Point",
 "coordinates": [

```
37.159000000000005,
36.203000000000009
]
}
}
```

4.2.2.3.10 Retrieve Page of Vector Items by Type and Query (GET)

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/{type}/paging?q={query}&left={value}&right={value}&u pper={value}&lower={value}&ttl={value}&count={value}

1. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/Roads/paging?q=highway&left=32. 3964&right=37.2633&upper=42.631&lower=34.7208&ttl=5m&count=50 0

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

"pagingId":
"c2Nhbjs1NDA7NTg5MTg5NjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NzI6VmVxUVhVam pRWnk1dUVlM3ppcXN6QTs1ODkxODk4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MTg3NzpW ZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4MzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1O DkzNDA4OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MTg1NDpWZXFRWFVqalFaeTV1RWUze mlxc3pBOzU4OTUwMDg6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkxODk3OlZlcVFYVWpqUVp5 NXVFZTN6aXFzekE7NTg5MzQ2MDp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTE4NzQ6VmVx IVhVampRWnk1dIJVJM3ppcXN6QTs1QDkzNDQ0QnRNZmxVRmhfVDNXbIJECYl96TmlhZVF7NTg5

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VFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzgzNjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OT M0Mjc6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkzODQyOmZIc1NUbk9fUS1Xc0RfVmU3U2NK WlE7NTg5MzQ3NDp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTE4ODY6VmVxUVhVampRWnk1dUVIM3ppcXN6QTs1ODkzNzYzOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg5NTAxODp2YV8tc2 OzU4OTM3NTg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkxOTM1OlZlcVFYVWpqUVp5NXVFZ

TN6aXFzekE7NTg5Mzc4MDpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTM0MTk6dE1mbFVGaF9 WZsVUZoX1QzV21BQmJfek5pYWVROzU4OTM1MzI6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODALGERAND AND STANDON STANDOkxOTIwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzU4MTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTM0NTY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkxOTEwOlZlcVFYVWpqUVp5 NXVFZTN6aXFzekE7NTg5Mzg0NjpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4OTE4ODk6VmVxUV 2Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTM1MzY6WmJoemJLdjBTQm1EQlBpazUwNTFfQ Ts1ODkzODA2OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5MzM5OTp0TWZsVUZoX1QzV21BQS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RfVmU3U2NKWIE7NTg5MTg0NDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTE4NjQ6VmS1Xc0RffVmS1Xc0RffVmS1VxUVhVampRWnk1dUVlM3ppcXN6QTs1ODkzNTY0OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5 MTkzODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM3OTk6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTg4OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MzU3NjpaYmh6Ykt2MFNCbURCU GlrNTA1MV9BOzU4OTM3NTc6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkxOTIxOlZlcVFYVWp qUVp5NXVFZTN6aXFzekE7NTg5Mzc4MTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTUwMDI6d mFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkzNDI4OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MTg5OTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTUwMTk6dmFfLXNqS3RTZ3VlRFc0M3VYZ lpSdzs1ODkzNDkzOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MTg5MDpWZXFRWFVqalFaeTblockers and the property of the prV1RWUzemlxc3pBOzU4OTM4NTU6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkxODQ1OlZlcVFY VWpqUVp5NXVFZTN6aXFzekE7NTg5MzQyMDp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTM 1 M j k 6 W m Joem J L d j B T Q m 1 E Q I B paz U w N T F f Q T s 1 O D k 0 O T k z O n Z h X y 1 z a k t 0 U 2 d 1 Z U R X N D N 1 W G Z a U n D N 1 W Gc7NTg5MTg2MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1ODI6WmJoemJLdjBTQm1EQlBp azUwNTFfQTs1ODkxOTM3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzQ5NTp0TWZsVUZoXNTp0TWZsVUZoXNTp0TWZsVUZoXNTp0TWZsVUZOXNTp0TWZsZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg5NTA2MTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTM3NjU6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkxOTIzOlZlcVFYVWpqUVp5NXVFZTN6aX FzekE7NTg5MzUzNzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTUwNTA6dmFfLXNqS3RTZ3V IRFc0M3VYZlpSdzs1ODkzODAwOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5NTAwNDp2YV8tc2 pLdFNndWVEVzQzdVhmWlJ3OzU4OTUwMjM6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODk0OTk2 OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5MzU2MjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BO zU4OTE5MTU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODk1MDM2OnZhXy1zakt0U2d1ZURXN DN1WGZaUnc7NTg5Mzg0MTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTM1ODk6WmJoemJLdj BTQm1EQlBpazUwNTFfQTs1ODkzNzg2OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5MzgzMTpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4OTE4ODc6VmVxUVhVampRWnk1dUVIM3ppcXN6QTs1OMANNSPROMENTATION AND STATEMENT AND STADkzNTc4OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5NTA4NTp2YV8tc2pLdFNndWVEVzQzdVhmbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkzNDI2OnRNZmxVRmhfVDNXbUFCYI96TmlhZVE7NTg5Mz gxNTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTM0NzU6dE1mbFVGaF9UM1dtQUJiX3pOaWFlU Ts1ODkzNzY2OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg5NTA1MTp2YV8tc2pLdFNndWVEVzQ zdVhmWlJ3OzU4OTM1MzA6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzNDIxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5NTAwNjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTUwMjQ6d mFfLXNqS3RTZ3VIRFc0M3VYZlpSdzs1ODk0OTk3OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5 TFfQTs1ODkzNDk2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MzUzOTpaYmh6Ykt2MFNCbUTpaYmh6Ymh6Ykt2MFNCbUTpaYmh6Ykt2MFNCbUTpaYmh6Ykt2MFNCbUTpaYmh6Ykt2MFNCbUTpaYmh6Ymh6Ykt2MFNCbUTpaYmh6Ymh6Ykt2MFNCbUTpaYmh6Ykt2MFNCbUTpaYRCUGlrNTA1MV9BOzU4OTM1NjE6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzNTkzOlpiaHpiS3 YwU0JtREJQaWs1MDUxX0E7NTg5MzYxMTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTM4MjI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNzgyOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7N Tg5MzgzNDpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTUwMzk6dmFfLXNqS3RTZ3VIRFc0M3V YZ lpS dzs 1 ODkz ODEw Om ZIc 1 NUbk 9 f US 1 Xc 0 R f V m U3 U2 N K W lE 7 N T g 5 N T A 5 N jp 2 Y V 8 tc 2 p L d F N n d W le 7 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T g 5 N T G 1 N T GVEVzQzdVhmWlJ3OzU4OTM0NTc6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkzNzY3OmZIc1NU bk9fUS1Xc0RfVmU3U2NKWIE7NTg5NTA1NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTM4MDI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODk1MDA3OnZhXv1zakt0U2d1ZURXNDN1WGZaUnc7 NTg5MzUzMTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTM1ODU6WmJoemJLdjBTQm1EQlBp azUwNTFfQTs1ODkzODE4OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5NTAyODp2YV8tc2pLdFN ndWVEVzQzdVhmWlJ3OzU4OTM1Mzg6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzNDAzOnRN ZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MzU2NTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4 OTM3ODU6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkxOTM2OlZlcVFYVWpqUVp5NXVFZTN6a XFzekE7NTg5MzU5NDpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTM2MTI6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzODMwOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5MTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NKWlE7NTbf5MTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NKWlE7NTbf5MTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12NUbk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12Nubk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12Nubk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12Nubk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12Nubk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWZX12Nubk9fUS1Xc0RfVmU3U2NtbffMTkyMjpWMthyMjpWMthyMjpWMthyMjpWMthyMjpWMthyMjpWMthyMithintyMithintyMithintyMithintyMithintyMithintyMithintyMithintyMithintyMithinFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1MzM6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkx

OTEyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5Mzg0MzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlp 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YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTM4MDM6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1O DkxODY2OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzU0MzpaYmh6Ykt2MFNCbURCUGlrNT A1MV9BOzU4OTE5Mzk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODkzNDc2OnRNZmxVRmhfV DNXbUFCYl96TmlhZVE7NTg5MzU2MzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTE5MjU6V Tg5MzgyNjpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4OTM3ODM6ZkhzU1RuT19RLVdzRF9WZTd1Ng5PROzU4DRT9WZTd1Ng5PROZU4DRT9EX1ZIN1NjSlpROzU4OTM0MzA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODk1MDk3OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5NTA1Mzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTUwMTE 6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkxOTAwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NT g5MzQ5Nzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTM0NjU6dE1mbFVGaF9UM1dtQUJiX3pO aWFIUTs10DkzNjEz0lpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5Mzg0NDpmSHNTVG5PX1EtV3NE X1ZIN1NjSlpROzU4OTE5MDU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODkzNTQwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MzU5MTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTUwM zA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkzNDAxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVEARAMART AND STANDAR STANDA7NTg5Mzc2OTpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4OTM0NDI6dE1mbFVGaF9UM1dtQUJiX3 pOaWFlUTs1ODkxODQ4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzU0NDpaYmh6Ykt2MFNTg5MzU0NDpaYmh6Ykt2MFNTg5Mz0NDpaYmh6Ykt2MFNTg5Mz0NDpaYmh6Ykt2MFNTg5Mz0NDpaYmh6Ykt2MFNTg5Mz0NDpaYmh6Ykt2MFNTg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmbyNtg5Mz0NDpaYmyNtgCbURCUGlrNTA1MV9BOzU4OTE4Njc6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODkzODQ4OmZ Ic1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5MTk0MTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4O WlE7NTg5MzgzNTpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4OTM4MTc6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTY2OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5NTAwMzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OTM3NzA6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODk1MDQ1OnZ 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dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkxODUxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg 5MTg3MDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM1NTM6WmJoemJLdjBTQm1EQlBpazUMDPWZXFRWFVqalFaeTV1RWUzemlxc4pWdqalFaeTV1RW1RWUzemlxc4pWdqalFaeTV1RW0dqalFaeTV1RW0dqalFaeTV1RW0dqalFaeTV1RW0dqalFawNTFfQTs1ODkzNjAwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5NTA0Njp2YV8tc2pLdFNndWV EVzQzdVhmWlJ3OzU4OTM1MDU6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkzNTU2OlpiaHpiS3 WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzNjA4OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5wNTFfQTs1ODkzNjAxOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MTk0NDpWZXFRWFVqalFaeTNTg5MTk0NDpWZXFRWFWqalFaeTNTg5MThttpfThttV1RWUzemlxc3pBOzU4OTE5Mjc6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODk1MDc0OnZhXy1z akt0U2d1ZURXNDN1WGZaUnc7NTg5MzgxMjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4OTM1NT NTg5MTk0NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM0MTA6dE1mbFVGaF9UM1dtQUJiX 3pOaWFIUTs1ODkzNDM2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5NTA5NTp2YV8tc2pLdF NndWVEVzOzdVhmWlJ3OzU4OTE4OTM6VmVxUVhVampRWnk1dUVlM3ppcXN6OTs1ODkzNTc5Ol piaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MzQ4Mzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4 OTUwOTI6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODk1MDI5OnZhXy1zakt0U2d1ZURXNDN1WGZ aUnc7NTg5MzQ1Mzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTE4NTI6VmVxUVhVampRWnk 1dUVIM3ppcXN6QTs1ODk1MDQ0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5MzUwODp0TWZs VUZoX1QzV21BQmJfek5pYWVROzU4OTM2MDk6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODkzN IJ3OzU4OTUwNzU6dmFfLXNqS3RTZ3VIRFc0M3VYZlpSdzs1ODkzNjIxOlpiaHpiS3YwU0JtREJQaWs1D2LQAWs1D2LQAWs1D2LQAWs1D2LQAWS1D2LQA

VdzRF9WZTdTY0paUTs1ODkzNDExOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MzQzOTp0T WZsVUZoX1QzV21BQmJfek5pYWVROzU4OTM0ODQ6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1OD kxODcxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5MzQ1NDp0TWZsVUZoX1QzV21BQmJfek5ptW2fVVQfVQffyFZTN6aXFzekE7NTg5MzQ1NDp0TWZsVUZoX1QzV21BQmJfek5ptW2fVQffyFZTN6aXFzekE7NTg5MzQ1NDp0TWZsVUZoX1QzV21BQmJfek5ptWZsVUZoX1QqzV21BQmJfek5ptWZsVUZoX1QzV21BQfek5ptWZsVUZoX1QzV21BQffek5ptWZsVUZoX1QzV21BQffektWZsVUZoX1QzV21BQffektWZsVUZoX1QzV21BQffektWZsVUZoX1QzV21BQffektWZsVUZoX1QzV21BQffektWZsVUZoX1QffektWZsVUZoX1QzV21BQffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QzV21BQffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffektWZsVUZoX1QffettWZsVUZoX1QffYWVROzU4OTM4NTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19WZTdTY0paUTs1ODkzNTA2OnRNZmxVRmhfVDNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzNTQ6ZkhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0paUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0puUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0puUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0puUTs1ODkzhzU1RuT19RLVdzrF9WZTdTY0puUTs10RLf0WZ0puUTs1ODkztyNTQf0WZ0puUTXbUFCYl96TmlhZVE7NTg5MzU1NTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTM2MDI6WmJ oemJLdjBTQm1EQlBpazUwNTFfQTs1ODkxOTQzOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg5Mz U1ODpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4OTUwOTE6dmFfLXNqS3RTZ3VlRFc0M3VYZl pSdzs1ODkzNTAyOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MzU4MzpaYmh6Ykt2MFNCbUR CUGlrNTA1MV9BOzU4OTM4MjE6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODk1MDM0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5MTkzMzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OTM0M c1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg5NTA4Mzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4OT M0NTk6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODkzNTA3OnRNZmxVRmhfVDNXbUFCYl96Tmlh dUVlM3ppcXN6QTs1ODkzNjA3OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MTg5NDpWZXFRWF VqalFaeTV1RWUzemlxc3pBOzU4OTUwOTg6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkzNTAzOn RNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5NTA4Njp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4mlhZVE7NTg5MzQ0MTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTM0ODg6dE1mbFVGaF9UU20X1QzV21BQmJfek5pYWVROzU40X1QzV21BQmJfek5pWffM1dtQUJiX3pOaWFlUTs1ODk1MDg0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5NTA2Njp2YV8tc2pLdFNndWVEVzOzdVhmWlJ3OzU4OTE4NTM6VmVxUVhVampRWnk1dUVlM3ppcXN6OTs1ODkz NDYzOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTt0b3RhbF9oaXRzOjEwMjs='

4.2.2.3.11 Retrieve Page of Vector Items by Query (GET)

Basic call format: https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/paging?q={query}&left={value}&right={value}&upper={value}&lower={value}&count={value}

2. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/query/paging?q=building&left=32.3964&right=37.2633&upper=42.631&lower=34.7208&ttl=5m&count=500

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

"c2Nhbjs1MzU7NzMyMTY0NjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjE1NTg6VmVxUVhVam pRWnk1dUVlM3ppcXN6QTs3MzIxNTc4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzY2MTp0 TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjM1NjU6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNTgxOnRNZmxVRmhfVDNXbUFCY196TmlhZVE7NzMyMTU1NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjE1NzM6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIxNTU2OlZlcVFYVWpqUVp5N XVFZTN6aXFzekE7NzMyMTY0NzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjE1NTk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIxNTk3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU3Mjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjMzNDk6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzIoNjcxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzU5Nzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjQ3NDY6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIxNTU3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU3MTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjMzNTA6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzIzNjYyOnRNZmxVRmhfVDNXbUFCY196TmlhZVE7NzMyNDY3Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjQ3NjU6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzINFC0M3VYZlpSdzs3MzIONjc0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMTU3MjpWZXFRWFVqalFaeTV1RWUze

mlxc3pBOzczMjM1ODI6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNTk5OnRNZmxVRmhfVDNXb UFCY 196 TmlhZVE7 Nz MyMz U3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz U3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz U3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz U3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz u3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz u3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz u3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz u3Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROz czMjM1OTg6dE1 mbFyCY196 TmlhZVE7 Nz MyMz u2Mz p 0 TWZ s VUZ o X1Qz V21BQmJ fek5pYWVROZ czMjM1OTg6dE1 mbFyCY196 Twl mbFyCY196 TwlVGaF9UM1dtQUJiX3pOaWFlUTs3MzIxNTg5OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzY2 Mzp0TWZsVUZoX1OzV21BOmJfek5pYWVROzczMjM1ODM6dE1mbFVGaF9UM1dtQUJiX3pOaWFlU Ts3MzIxNTc0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzYwOTp0TWZsVUZoX1QzV21BQm Jfek5pYWVROzczMjE2MTk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNjY3OnRNZmxVRmhf VDNXbUFCYl96TmlhZVE7NzMyMTU2MDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjE1ODg6V mVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNDE5OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMy NDY4Nzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE1ODY6VmVxUVhVampRWnk1dUVlM3ppc URCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1MV9BOzczMjE1NzU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzNTY2OmZIc11WnCUGlrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNTA1WnCuglrNNUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NkWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjENUbk9fUS1Xc0RfVmU3U2NkWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc2pBOzczMjENUbk9fUS1Xc0RfVmU3U2NkWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc2pBOzczMjENUbk9fUS1Xc0RfVmU3U2NkWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc2pBOzczMjENUbk9fUS1Xc0RfVmU3U2NkWlE7NzMyMTYxODpWZXFRWFVqalFaeTV1RWUzemlxc0PW1RWfVqalFaeTV1RWUzemlxc0PW1RWfVqalFaeTV1RWfVqaeTV1RWfQaeTV1RWfVqaeTV1RWfVqaeTV1RWfVqaeTV1RWfVqaeTV1RWfVqaeTV1RWfVqaeTV2NDg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIzMzU2OlpiaHpiS3YwU0JtREJQaWs1MDUxX0 E7NzMyNDc2MTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE1NjQ6VmVxUVhVampRWnk1dUVl M3ppcXN6QTs3MzIzNDgwOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyMzU4Nzp0TWZsVUZoXNLC2NUbk9fUS1Xc0Nubk91QzV21BQmJfek5pYWVROzczMjE1OTg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIxNTc5OlZl cVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU2NzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzczMj Unc7NzMyMTU3NjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjQ2Nzk6dmFfLXNqS3RTZ3VlRFc01QzV21BQmJfek5pYWVROzczMjM2MTI6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIxNjQ5OlZlcV FYVWpqUVp5NXVFZTN6aXFzekE7NzMyMTU2MTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjQ2ODk6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzI0NjczOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc 7NzMyMzU3NTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjM0ODI6ZkhzU1RuT19RLVdzRF9W ZTdTY0paUTs3MzI0NzAxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzM1ODpaYmh6Ykt2MFU2d1ZURXNDN1WGZaUnc7NzMyMzM10MzM1WfU2d1ZURXNDN1WfU2dFYVWpqUVp5NXVFZTN6aXFzekE7NzMyNDc1Nzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM1120zczMjM120zczMjM1120zczMjM120zczMjM1120zczMjM1120zczMjM1120zczMjM112MDA6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzI0Njc1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc 7NzMyMTYwMDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjE1ODQ6VmVxUVhVampRWnk1dU VlM3ppcXN6QTs3MzI0NzYwOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzY2NDp0TWZsVUZ oX1QzV21BQmJfek5pYWVROzczMjMzNjE6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzI0NzAyOnZ hXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyNDY5Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMj M2MDA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNDk5OmZIc1NUbk9fUS1Xc0RfVmU3U2NK WlE7NzMyNDY3Njp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjQ2ODA6dmFfLXNqS3RTZ3VlRFc $0 M3 VYZ lpS dzs 3 Mz \bar{l}xN \bar{j}YwO lZ lcVFYVWpqUVp5NXVFZTN6 aXFzekE7NzMyNDY5Mzp2YV8tc2pLdFy2NzMyNDY5Mzp2NzMyNzMyNzMyNdyNzMyNDY5Mzp2NzMyNzMyNdyNyNZMyNDY5MyNZNZMyNZMyNZMyNNZMyNDY5Mzp2NzMyNDY5MyNNZ$ jQ2ODE6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIxNjU2OlZlcVFYVWpqUVp5NXVFZTN6aXFze kE7NzMyMzM1NzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzczMjE1Njg6VmVxUVhVampRWnk1d UVIM3ppcXN6QTs3MzI0Njk0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzQyMDpaYmh6Ykt2 MFNCbURCUGlrNTA1MV9BOzczMiM1Nik6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNDM3OI piaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMyMTU4MDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjQ2ODQ6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIxNjU1OlZlcVFYVWpqUVp5NXVFZTN6aXFflxNjU1OlZlcVFYVWpqUVp5NXVFZTN6aXFflxNjU1OlZlcVFYVWpqUVp5NXVFZTN6aXFflxNqU10lZlcVFYVWpqUVp5NXVFZTN6aXfflxNqU10lZlcVFYVWpqUVp5NXVFZTN6aXfflxNqU10lZlcVFYVWpqUVp5NXVFXTN6aXfflxNqU10lZlcVFYVWpqUVp5NXVFXTN6aXfflxNqU10lZlcVFYVWpqUVp5NXVFXTN6aXfflxNqU10lZlcVFYVWpqUVp5NXVFXTN6aXfflxNqU10lQlcVp5NXVFXTN6aXfflxNqU10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVFXTN6aXfflxNqu10lQlcVp5NXVfxTnflxNqu10lQlcVp5zekE7NzMyMTU2NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1NzY6dE1mbFVGaF9UM1dtQNTpWZXFRWFVqalFaeTV1RWUzemlxc4pWqaeTV1RWUzemlxc4pWqqaeTV1RWUzemlxc4pWqaeTUJiX3pOaWFlUTs3MzIzNjEzOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NzMyMzY2Njp0TWZsVUZ ZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMzUwMjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzcz MjM1MDE6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNTg0OmZIc1NUbk9fUS1Xc0RfVmU3U2N KWIE7NzMyMzQ5NzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzczMjM2MTQ6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIxNjIxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyNDY3Nzp2YV8tc2pLd FNndWVEVzQzdVhmWlJ3OzczMjM1Njg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIxNTYyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzQ5ODpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzczMj M2NzM6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNTg1OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NzMyMzYwODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjQ3MTE6dmFfLXNqS3RTZ3V1 RFc0M3VYZlpSdzs3MzIzNTc3OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NzMyNDc1NDp2YV8tc2p LdFNndWVEVzQzdVhmWlJ3OzczMjE1OTY6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIxNjIyOl ZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMTY1OTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzc zMjM2MTU6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNDgxOmZIc1NUbk9fUS1Xc0RfVmU3U2 EQlBpazUwNTFfQTs3MzIxNTg3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMTU4MTpWZXFR

zczMjM2MjQ6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIxNjUwOlZlcVFYVWpqUVp5NXVFZTN6 aXFzekE7NzMyMzU3ODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjM1OTA6dE1mbFVGaF9U M1dtQUJiX3pOaWFlUTs3MzIzNjcxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NzMyMzU4OTp0TW ZsVUZoX1OzV21BQmJfek5pYWVROzczMiM1Nzk6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIxN TYzOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMTYwMjpWZXFRWFVqalFaeTV1RWUzemlxc3 pBOzczMjM2MTY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNDg4OmZIc1NUbk9fUS1Xc0RfVm U3U2NKWlE7NzMyMTU4NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1OTE6dE1mbFVGaF9 UM1dtQUJiX3pOaWFlUTs3MzIxNTgyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzM2MDpaY 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Ts3MzIxNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NEX1ZNTk0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NXVFZTN6aXFzekE7NzMyMzU0MjpmSHNTVG5PX1EtV3NXVFZTN6AXFzekPXTNTk0OlZlcVFYVWpqUVp5NXVFZTN6AXFTNAAXFIN1NjSlpROzczMjM2MTg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzI0NzY3OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WGZaUnc7NzMyNDY4NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjE2Mjc6VmVxUPLPNDN1WjC4NzWjCVhVampRWnk1dUVlM3ppcXN6QTs3MzIzMzY2OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMyMTY1 MjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjM1OTY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs 3MzIxNTY3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMTYxMzpWZXFRWFVqalFaeTV1RWU zemlxc3pBOzczMjQ3MTA6dmFfLXNqS3RTZ3VIRFc0M3VYZlpSdzs3MzIzNTcyOmZIc1NUbk9fUS1Xc 0RfVmU3U2NKWlE7NzMyNDY5OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM2Njg6dE1mbFV GaF9UM1dtQUJiX3pOaWFlUTs3MzI0NzUxOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzQ4NT pmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzczMjQ2ODY6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3Mz IzMzkwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMyMzUxNjpmSHNTVG5PX1EtV3NEX1ZlN1NjS1 pROzezMjQ3Njk6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIxNTkxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyNDY5MDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM0OTI6ZkhzU1RuT19RL VdzRF9WZTdTY0paUTs3MzIzNjQyOnRNZmxVRmhfVDNXbUFCY196TmlhZVE7NzMyNDcwNTp2YV czMjE1OTU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs3MzIxNjI4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzYzMzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzczMjQ3NTA6dmFfLXNqS3RTZ3 VIRFc0M3VYZlpSdzs3MzIzNTkzOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NzMyMzYxOTp0TWZs VUZoX1OzV21BOmJfek5pYWVROzczMjM0NDI6WmJoemJLdjBTOm1EOlBpazUwNTFfOTs3MzI0Njg 4OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMTY1MzpWZXFRWFVqalFaeTV1RWUzemlxc3pB OzczMjQ3NzM6dmFfLXNqS3RTZ3VIRFc0M3VYZlpSdzs3MzIzMzU0OlpiaHpiS3YwU0JtREJQaWs1MD UxX0E7NzMyMzUyOTpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzczMjM2MDM6dE1mbFVGaF9UM1d tQUJiX3pOaWFlUTs3MzI0Njk2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyNDcwNjp2YV8tc2pL dFNndWVEVzQzdVhmWlJ3OzczMjMzNjc6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzIzNTU2OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMzU3NjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzczMj M00DY6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNTE40mZIc1NUbk9fUS1Xc0RfVmU3U2NKLVdzNTE40mZIc1NUbk9fUS1Xc0RfVmU3U2NDA10mZic1NUbk9fUS1Xc0RfVmU50MZic1NUbk9fUS1Xc0RfVmU50MZic1NUbk9fUS1Xc0RfVmU50MZic1NUbk9fUS1Xc0RfVmU50MZic1NUbk9fUS1Xc0RfVmU50MZic1NUbk9fUS1Xc0WIE7NzMyMzQ5MzpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzczMjMzODk6WmJoemJLdjBTQm1EQINSPROZCZMjMzODk6WmJOemJLdjBTQm1EQINSPROZCZMjMzOCZMjMzODk6WmJoemJLdjBTQm1EQINSPROZCZMjMzOCZMjM

BpazUwNTFfQTs3MzIzNTMwOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NzMyMzQyMTpaYmh6Ykt2 MFNCbURCUGlrNTA1MV9BOzczMjM1NDQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNTc1O mZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NzMyNDcxODp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM2NzO6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs3MzIzNDg3OmZIc1NUbk9fUS1Xc0RfVmU3U2N KWIE7NzMyMTU3MTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjQ3NDk6dmFfLXNqS3RTZ3Vl RFc0M3VYZlpSdzs3MzI0Njk1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzY0MTp0TWZsVUZ oX1QzV21BQmJfek5pYWVROzczMjM1MTk6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzI0NzY4On ZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyNDcwMDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3Ozcz 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the firsteTV1RWUzemlxc3pBOzczMjM0Mzk6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzI0NzA3OnZhXy1zMDQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs3MzIzNTIyOmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE 7NzMyMTYxNDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzczMjMzNzI6WmJoemJLdjBTQm1EQlBpaz UwNTFfQTs3MzI0NzE1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NzMyMzYyMTp0TWZsVUZoX1Q zV21BQmJfek5pYWVROzczMjQ3MjU6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIzMzk0OlpiaHpiS 3YwU0JtREJQaWs1MDUxX0E7NzMyNDc1NTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM0MjI6 yMzM3NzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzczMjM0NDA6WmJoemJLdjBTQm1EQlBpazUw NTFfQTs3MzIzNDAxOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMyMzUwODpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzczMjQ3MjA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs3MzIzNTM00mZIc1NUbk9f US1Xc0RfVmU3U2NKWlE7NzMyMzU0ODpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzczMjM1NzM6Z 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U2d1ZURXNDN1WGZaUnc7NzMyNDczNzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjM0NTQ6W mJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzIzNDE2OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NzMyN DczNTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjQ3NDM6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSCM2NDM6dmFfLXNqSM2NDM6dmffLXNqSM2NDM6dmffNdM6dmFfLXNqSM2NDM6dmfflXNdM6dmfflXNqSM2NDM6dmfflXNqSM2NDM6dmfflXNqSM2NDM6dmfflXNqMfek5pYWVROzczMjM0MjY6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs3MzIxNjM0OlZlcVFYVWpqUV p5NXVFZTN6aXFzekE7NzMyNDc3MTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzczMjQ3MzI6dmFfLXNqS3RTZ3VIRFc0M3VYZlpSdzs3MzIxNjQ0OIZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NzMyMzY0

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4.2.2.3.12 Retrieve Page of Vector Items by Type (GET)

Basic call format: https://iipbeta.digitalglobe.com/monocle-

3/app/broker/vector/api/vectors/{source}/{type}/paging?left={value}&right={value}&upper={value}&lower={value}&ttl={value}&count={value}

1. Submit a GET request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/OSM/Tower/paging?left=32.3964&right=37.2633&upper=42.631&lower=34.7208&ttl=5m&count=500

- 2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)
- 3. The GET call returns a response with a header of 200 OK and a body of:

 $\label{thm:control} "c2Nhbjs1NDA7NTg4Njc2NjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODY4MDk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg2NzY3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4Njg0MDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODY3Njg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1$

ODg4MzQwOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4NjgzNjpWZXFRWFVqalFaeTV1RWUze mlxc3pBOzU4ODk5MDY6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg2NzcyOlZlcVFYVWpqUVp5N XVFZTN6aXFzekE7NTg4ODM2Mjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODY4MDc6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1QDg4MzQ1QnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4 ODQ3NzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg1MzE6WmJoemJLdjBTQm1EQlBpazUw NTFfQTs1ODg5OTQ1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODQxNjp0TWZsVUZoX1QzV2 1BQmJfek5pYWVROzU4ODg3NTg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg2Nzc3OlZlcVFYV WpqUVp5NXVFZTN6aXFzekE7NTg4Njg0NTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODY3Njk 6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4MzQxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4OTkxMDp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODY4Mzc6VmVxUVhVampRWnk1dUVlAMPWnk1dUVlAMPWnkM3ppcXN6QTs1ODg5OTgyOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODQ3OTpaYmh6Ykt2MFACAUNc7NTg4ODQ3OTpaYmh6Ykt2MFACAUNC7NTg4OTpaYmh6Ykt2MFACAUNC7NTg4ODQ3OTpaYmh6Ykt2MFACNCbURCUGlrNTA1MV9BOzU4ODgzNjg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4NzA4OmZI c1 NUbk9fUS1Xc0 RfVmU3U2NKW1E7NTg4OTkwNzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODY3NzQ6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4NzMxOmZIc1NUbk9fUS1Xc0RfVmU3U2N KWIE7NTg4ODU1ODpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOzU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOZU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOZU40Dg3MDk6ZkhzU1RuT19RLVd12NFNCbURCUGlrNTA1MV9BOZU40Dg3MDk6TNCbURCUGlrNTA1MV9TNCbURCUGlrNTA1MV9BOZU40Dg3MDk6TNCbURCUGlrNTA1MV9BOZU40Dg3zRF9WZTdTY0paUTs1ODg4MzQyOnRNZmxVRmhfVDNXbUFCY196TmlhZVE7NTg4ODM2NDp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODY4MDg6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1O Dg2Nzc4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODM0Njp0TWZsVUZoX1QzV21BQmJfek5p YWVROzU4ODY4NDE6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg5OTc3OnZhXy1zakt0U2d1Z LXNqS3RTZ3VIRFc0M3VYZlpSdzs1ODg2NzcwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODQ 3NjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg1MDk6WmJoemJLdjBTQm1EQlBpazUwNTFf QTs1ODg2ODM5OIZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODc0NTpmSHNTVG5PX1EtV3NE X1ZIN1NjSlpROzU4ODY3NzM6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg2ODEyOlZlcVFYVNLSPROME AND STANDARD STAND7NTg4ODc1OTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODY4NDQ6VmVxUVhVampRWnk1dUV YVWpqUVp5NXVFZTN6aXFzekE7NTg4ODczMzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODgz NzA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg5OTgzOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc 7NTg4NjgzODpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODgzNDQ6dE1mbFVGaF9UM1dtQUJiX3 pOaWFIUTs1ODg2Nzc1OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4NjgxMDpWZXFRWFVqalFae TV1RWUzemlxc3pBOzU4ODk5MDk6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg2NzgwOlZlcVFYV WpqUVp5NXVFZTN6aXFzekE7NTg4ODcxMTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODgzNj V1RWUzemlxc3pBOzU4ODgzNDc6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4NzYxOmZIc1NUb k9fUS1Xc0RfVmU3U2NKWlE7NTg4OTkyODp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODY4MT 7NTg4Njg1OTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODY3NzY6VmVxUVhVampRWnk1dUVl M3ppcXN6QTs1ODg4NTMyOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg4OTk0ODp2YV8tc2pLdFNn dWVEVzQzdVhmWlJ3OzU4ODk5MTI6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODkwMDAxOnZhXy 1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODczNDpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4ODk5 NTg4ODQxODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODk5Mjk6dmFfLXNqS3RTZ3VlRFc0M 3VYZlpSdzs1ODg5OTQ2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4OTkxMzp2YV8tc2pLdFNnd WVEVzQzdVhmWlJ3OzU4ODY4MTE6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODkwMDAyOnZ hXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODQwNjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4 $ODk5NjA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4MzcxOnRNZmxVRmhfVDNXbUFCYl96Tml\\ INFOCCE STANDARD STANDA$ hZVE7NTg4OTk5Nzp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODg0ODA6WmJoemJLdjBTQm1EQ lBpazUwNTFfQTs1ODg4NDExOnRNZmxVRmhfVDNXbUFCYI96TmlhZVE7NTg4ODM2NTp0TWZsV UZoX1OzV21BOmJfek5pYWVROzU4ODgzNDg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg2Nzgx OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODc0MjpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU 4ODk5MzA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NDE5OnRNZmxVRmhfVDNXbUFCYl96T mlhZVE7NTg4ODU0OTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODgzOTA6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg5OTYzOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4Njg1MTpWZXFR WFVqalFaeTV1RWUzemlxc3pBOzU4ODY4MTQ6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg2O DYwOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODc0NzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODg3MTQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4MzcyOnRNZmxVRmhfVDNXbUFCY196TmlhZVE7NTg4ODc2MDpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODk5MTQ6dmFfLXNqS

3RTZ3VlRFc0M3VYZlpSdzs1ODg2NzgyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODQxMDp0 pYWVROzU4ODg3Mzc6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg2Nzg0OlZlcVFYVWpqUVp5N XVFZTN6aXFzekE7NTg4ODM0OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4OTAwMDM6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg2ODQyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4OD WUzemlxc3pBOzU4ODk5NTA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg5OTg0OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODQ4MTpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODY4NjE6V mVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4MzkxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NX1EtV3NEX1ZIN1NjSlpROzU4ODg3NTI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg2Nzg1OlZlc2Nzg10lVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4Njg0MzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4OD Y4MTk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4MzgyOnRNZmxVRmhfVDNXbUFCYl96T mlhZVE7NTg4ODM4MTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODY4Njk6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4NzE1OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg4Njc5MDpWZX FRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg3Nj16ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4MzVROzU4ODY4MjA6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg2Nzg2OlZlcVFYVWpqUVp5NX VFZTN6aXFzekE7NTg4ODczMjpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4ODg0MDI6dE1mbFVGa F9UM1dtQUJiX3pOaWFlUTs1ODg4Nzg2OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg4ODM3NDp0 ODg4NzQ5OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg4OTkzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pLdFNndWVEVzQzdV12NtzMTp2YV8tc2pUtV2NtzMTp2YV8tc2pUtV2NtzMTp2YV8tc2pUtV2NtzMTp2YV8tc2pUtV2NtzMTp2YV8tc2pUtV2NtzMTp2YV8tc2pUtV2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMTp2TytQt2NtzMThmWlJ3OzU4ODY4MjU6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg4NzU3OmZIc1NUbk9fUS110Dg4NzU3OmZIc1NUbk9fUS10Dg4NzU50Dg4NzUXc0RfVmU3U2NKWlE7NTg4Njg2MjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg3MTY6ZkhzU 1RuT19RLVdzRF9WZTdTY0paUTs1ODg2NzkzOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODc2 MzpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODgzODO6dE1mbFVGaF9UM1dtOUJiX3pOaWFlUTs 1ODg5OTY1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODM2OTp0TWZsVUZoX1QzV21BQmJf ek5pYWVROzU4ODg1MzM6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2ODIzOlZlcVFYVWpqU Vp5NXVFZTN6aXFzekE7NTg4ODQ4MjpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODgzNTA6dE 1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg2Nzg3OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4O Dc0MDpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4ODY4NDY6VmVxUVhVampRWnk1dUVlM3ppc XN6QTs1ODg5OTE1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5MDAxNzp2YV8tc2pLdFNndWV EVzQzdVhmWlJ3OzU4ODg1NjI6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg4Nzg5OmZlc1NUbk9ffCParticles and the property of the property ofUS1Xc0RfVmU3U2NKWlE7NTg4ODQyMzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODk5NTY6 dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NzQ4OmZlc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg4NjgyNzpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODY4Njc6VmVxUVhVampRWnk1dUVlM3ppcX WUzemlxc3pBOzU4ODg3ODc6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4NTEzOlpiaHpiS3YwU 0JtREJQaWs1MDUxX0E7NTg4ODQ4NDpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg3MTc6Z khzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg2ODIxOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4 ODc3MDpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpROzU4ODk5ODE6dmFfLXNqS3RTZ3VlRFc0M3VYZl RWUzemlxc3pBOzU4ODk5MzI6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4Mzc1OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4Njg1MjpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg3MzU6Zk hzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg2ODM0OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4V1RWUzemlxc3pBOzU4ODg0ODM6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWDD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWDD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWDD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWDD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWDD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNloWd00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNLOWD00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNloWd00DM6WmJOemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2NzkyOlZlcVFYVNloWd00DM6WmJOemJLdjBTQm1EQlBpazUwNDfqTyVNloWd00DM6WmJOemJLdjBTQm1EQlBTQTg5MDAwNDp2YV8tc2pLdFNndWVEVzOzdVhmWlJ3OzU4ODg3NTE6ZkhzU1RuT19RLVdzRF9WZT dTY0paUTs1ODg2ODIyOlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODU0NjpaYmh6Ykt2MFNCb URCUGlrNTA1MV9BOzU4ODk5NTc6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NzkwOmZIc1N Ubk9fUS1Xc0RfVmU3U2NKWlE7NTg4OTk3OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODk5N DQ6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg5OTY3OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7 VIM3ppcXN6QTs1ODg5OTE3OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODcxODpmSHNTVG5 PX1EtV3NEX1ZlN1NjSlpROzU4ODg1MTE6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg4Nzg1Om1Dg4Nzg1OZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg4ODczNjpmSHNTVG5PX1EtV3NEX1ZIN1NjSlpROzU4O

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Control of the Control oU4ODg4MDA6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4NTM1OlpiaHpiS3YwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtREJQaWs1MLP10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYwU0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYw0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYw0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYw0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYw0JtW10PaUTs1ODg4NTM1OlpiaHpiSAYw0JtW10PaUTs1ODg4NTM1OlpiaHpiG4NTM1OlpiaHpiG4NTM1OlpiaHpiG4NTM1OlpiaHpiG4NTM1OlpiaHpiG4NTDUxX0E7NTg4OTk2OTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODg3NTY6ZkhzU1RuT19RLVdz RF9WZTdTY0paUTs1ODg5OTIwOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODM3ODp0TWZsV UZoX1QzV21BQmJfek5pYWVROzU4OTAwMDU6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NT E2OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg4ODgwMTpmSHNTVG5PX1EtV3NEX1ZlN1NjSlpRO zU4ODg0OTg6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg4NzIyOmZIc1NUbk9fUS1Xc0RfVmU3Uprediction and the property of t2NKWlE7NTg4ODQwODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg1NjQ6WmJoemJLdjBTQ m1EQlBpazUwNTFfQTs1ODg4NDg5OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg4OTk1Mjp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODg0MzY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4Nzc5OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWIE7NTg4Njg3MDpWZXFRWFVqalFaeTV1RWUzemlxc3pBOz

U4ODgzNTU6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4NTUxOlpiaHpiS3YwU0JtREJQaWs1MD k1dUVlM3ppcXN6QTs1QDg4NDI4QnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4QTk5MDp2YV8t c2pLdFNndWVEVzOzdVhmWlJ3OzU4ODk5Mzg6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NzY2 OzU4ODg1MTc6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg4ODA2OmZIc1NUbk9fUS1Xc0RfVm U3U2NKWlE7NTg4ODQxMjp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg3NzI6ZkhzU1RuT19 RLVdzRF9WZTdTY0paUTs1ODg4NTAwOlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg4ODU2NzpaY mh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg4MDI6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2RuT19RLVdzrF9WZTdTY0paUTs1ODALU2Rut19RLVdzrF9WZTdTY0paUTs1ODALU2Rut19RLVdzrF9WZTdTY0paUTs1ODALU2Rut19RLVdzrF9WZTdTY0paUTs1ODALU2Rut19RLVdxF9WZTdTY0paUTs1ODALU2Rut19RLVdxF9WZTdTY0paUTs1ODALU2Rut19RLVdxF9WZTdTY0paUTs1ODALU2Rut19RLVdxF9WZTdTY0paUTs1ODALU2Rut19RLVdxF9WZTdTY0paUTs10Rut19RUT9RT00AUT50RUT9RT0g5OTcwOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODM3OTp0TWZsVUZoX1QzV21BQmJfek5p YWVROzU4ODgzODY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4NzI0OmZIc1NUbk9fUS1Xc0R 19RLVdzRF9WZTdTY0paUTs1ODg4NzY3OmZIc1NUbk9fUS1Xc0RfVmU3U2NKWlE7NTg4ODgwNDp g4NDk1OlpiaHpiS3YwU0JtREJQaWs1MDUxX0E7NTg5MDAwODp2YV8tc2pLdFNndWVEVzQzdVhmWIJ3OzU4ODgzNTY6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg4NTQ1OlpiaHpiS3YwU0JtREJQa Ws1MDUxX0E7NTg4NjgyOTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg3NzM6ZkhzU1RuT19 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Dg5OTI1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODgxMDpmSHNTVG5PX1EtV3NEX1ZlN110DgxMDpmSHNTVG5PX1DqxT00DgxMDpmSHNTVG5PX1DqxT00DgxMDpmSHNTVG5PX1DqxT00DgxMDpmSHNTVG5PX1DqxT00DgxMDpmSHNTVG5PX1DqxT00DgxMDpmSHNTVG5PX1DqxT00DgxT00DXbUFCYl96TmlhZVE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc3pBOzU4ODg0MzA6dE1mb12VE7NTg4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc4PWTq4NjgwNTq4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc4PWTq4NjgwNTpWZXFRWFVqalFaeTV1RWUzemlxc4PWTq4NjgwNTq4FVGaF9UM1dtQUJiX3pOaWFIUTs1ODg4Mzk2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg5MDAxMTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODY4NTY6VmVxUVhVampRWnk1dUVlM3ppcXQmJfek5pYWVROzU4ODk5NTg6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg5OTg1OnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODM4ODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODY4Mz U6VmVxUVhVampRWnk1dUVlM3ppcXN6QTs1ODg5OTM2OnZhXy1zakt0U2d1ZURXNDN1WGZaUnLOFF AND STAND Saz UwNTFfQTs1ODg4MzY2OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4OTk5ODp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODk5MjY6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NTA3Olpia3ODQ6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4NDMxOnRNZmxVRmhfVDNXbUFCY196Tmlh ZVE7NTg4ODM5Nzp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTQ6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg2ODc4OlZlcVFYVWpqUVp5NXVFZTN6aXFzekE7NTg4ODM4OTp0TWZsV UZoX1QzV21BQmJfek5pYWVROzU4ODg4MTE6ZkhzU1RuT19RLVdzRF9WZTdTY0paUTs1ODg4ND Q3OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4ODU3MTpaYmh6Ykt2MFNCbURCUGlrNTA1M V9BOzU4ODg1MDU6WmJoemJLdjBTQm1EQlBpazUwNTFfQTs1ODg2ODA2OlZlcVFYVWpqUVp5NX VFZTN6aXFzekE7NTg4ODU1NDpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODk5NjQ6dmFfLXN qS3RTZ3VIRFc0M3VYZlpSdzs1ODg4MzYxOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4ODU2MzpaYmh6Ykt2MFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOzU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzRF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU4ODg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU40Dg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU40Dg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU40Dg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU40Dg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9BOZU40Dg3Mjg6ZkhzU1RuT19RLVdzrF9WZTdTY0paUFNCbURCUGlrNTA1MV9WZ0DG4WZ0zemlxc3pBOzU4ODg0Mzg6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg5OTQyOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg4ODM5ODp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg3NzU6Zkh 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196zQzdVhmWlJ3OzU4OTAwMDA6dmFfLXNqS3RTZ3VlRFc0M3VYZlpSdzs1ODg4NDQyOnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl96TmlhZVE7NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROzU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNXbUFCYl97NTg4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNZb4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODg0NTDfVDNZb4ODM5OTp0TWZsVUZoX1QzV21BQmJfek5pYWVROZU4ODfVDNZb4ODM5OTp0TWZsVUZoX1QzV21BQmfek5pYWVROZU4ODfVDNZb4ODM5OTp0TW5OTp0TWZb4ODM5OTp0TWZb4ODM5OTp0TWZb4ODM5OTp0TWZb4ODM5OTp0TWZb4ODMM6dE1mbFVGaF9UM1dtQUJiX3pOaWFlUTs1ODg5OTYyOnZhXy1zakt0U2d1ZURXNDN1WGZaUnc7NTg5MDAxNTp2YV8tc2pLdFNndWVEVzQzdVhmWlJ3OzU4ODY4MzA6VmVxUVhVampRWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprWnk1dUVlAMprM3ppcXN6QTs1ODg4NDA1OnRNZmxVRmhfVDNXbUFCYl96TmlhZVE7MTt0b3RhbF9oaXRzOjA7"

4.2.2.3.13 Retrieve Page of Vector Items (POST)

1. Submit a POST request to retrieve InsightCloud UVI information. The REST call via monocle-3 application will look similar to the following:

https://iipbeta.digitalglobe.com/monocle-3/app/broker/vector/api/vectors/paging

With a header Content-type:application/x-www-form-urlencoded and a body of the paging ID generated in Section: Retrieve Page of Vector Items by Type (GET) or in Section: Retrieve Page of Vector Items by Type and Query (GET)

2. If this is the first request of the session, user will be redirected to the CAS authentication page; enter credentials and CAS will redirect to the response (see 3.)

```
3. The GET call returns a response with a header of 200 OK and a body of:
    {
     properties: {
     id: "OSM-node-1612839439",
     ingestDate: "2015-04-10T00:14:21Z",
     test: "tower",
     ingestAttributes:
        "osm.host": "10.0.65.150",
        "osm.database": "osm"
      source: null,
      originalCrs: "EPSG:4326",
      ingestSource: "OSM",
      name: null,
      itemType: "Tower",
      format: "OSM",
      asstributes:
        "_osm.user.id.dbl": 196617,
        "_osm.version.int": 1,
        "_osm.user.name": "venerdi",
        "_osm.changeset.dbl": 10547383,
        "_osm.changeset.int": 10547383,
        "power": "tower",
        "_osm.version.dbl": 1,
        __osm.changeset": "10547383",
        "_osm.user.id": "196617",
        "_osm.version": "1",
        " osm.user.id.int": 196617
       "itemDate": "2012-01-31T09:27:41Z"
     "type": "Feature",
     "geometry": {
     "type": "Point",
     "coordinates":
        34.051577,
       31.16638
```

}

}, ...

5 Appendix A - Acronyms

Acronym	Description
AOI	Area of Interest
CEG	Cumulative Exposure Grid
DEM	Digital Elevation Model
GIS	Geographic Information System
GPU	Graphics Processing Unit
HLZ	Helicopter Landing Zone
IED	Improvised Explosive Device
Lat/Lon	Latitude/Longitude
TPI	Topographic Position Index
UI	User Interface
UVI	Unified Vector Index
VS	Viewshed