Coverage API

Introduction

Use Nearmap Coverage API to get a list of surveys by date for a location, which you can then use with Nearmap's Tile API.

There are three ways you can retrieve coverage (surveys):

- Retrieve Coverage for a Given Polygon
- Retrieve Coverage for a Given Point
- Retrieve Coverage for a Given Tile Coordinate

This API also follows our new standard for Nearmap APIs, as explained in Tile API.

This guide includes the following sections:

- Authentication
- URL Requests
- Rate Limit
- Retrieved Coverage Fields
- Retrieve Coverage for a Given Polygon
- Retrieve Coverage for a Given Point
- Retrieve Coverage for a Given Tile Coordinate
- Additional Examples
- Troubleshooting

Authentication

Access to Nearmap imagery is only available to authenticated subscribers. Tiles may be requested from Nearmap servers with an **API Key**. Please refer to the API Key Authentication guide for details on how to obtain and use an API Key.

URL Requests

Nearmap's Coverage API is designed to be accessed by an application in an automated fashion via URL requests. We recommend that you use a mapping framework designed to consume tiled maps, such as OpenLayers, Leaflet, Google Maps JavaScript API, etc.

Rate Limit

Nearmap's Coverage API has a rate limit, meaning that there is a restriction on the number of requests that can be made against an endpoint.

Retrieved Coverage Fields

The retrieved coverage is returned as surveys in a JSON format, from most recent to least recent.

The surveys JSON includes the following fields:

- **captureDate** - the survey date in the location of the survey (see Survey Date and Photo Time)
- **firstPhotoTime** - the date and time in UTC of the first photo taken in the survey
- **id** - the survey ID
- **lastPhotoTime** - the date and time in UTC of the last photo taken in the survey
- **location** - the location of the survey, includes country, region, and state. The region is usually a city or a locale, comprised of a number of surveys.
- **onlineTime** - the time in UTC the survey became available online
- **pixelSize** - the Ground Sample Distance in meters
- **resources** - the resources available for the survey, which are the tiles. The tile set uses the Google Maps Tile Coordinates.
  - **tiles** -
    - **id** - the ID of the tile set
    - **scale** - the maximum zoom level for the tile set
    - **type** - the resource type of the tiles. The available values are:
      - Vert - for vertical imagery
      - North - for North panorama imagery
      - South - for South panorama imagery
      - East - for East panorama imagery
      - West - for West panorama imagery
- **timezone** - the universal timezone abbreviation of the location of the survey
- **utcOffset** - the difference in minutes between UTC and the local timezone
- **limit** - the limit of the total number of surveys returned, as specified in the request

- **offset** - the offset of the first survey to be displayed, as specified in the request
- **total** - the total number of surveys available for this request

Retrieve Coverage for a Given Polygon

This API retrieves coverage (surveys) for a given polygon.

API URL Format

```
https://api.nearmap.com/coverage/v2/poly/{polygon}?apikey={YOUR_API_KEY}
```

Read more about the API URL format.

Parameters

Required	Name	API / query	Type	Description
	polygon	API	string	The polygon for which the surveys are retrieved. The polygon is depicted by a set of **LONG,LAT** points, where **the first and the last points must be the same**. For example: **138.59707796614592,-34.91729448760797** 138.61703360121672,-34.91729448760797 138.61703360121672,-34.927709974005474 138.59707796614592,-34.927709974005474 **138.59707796614592,-34.91729448760797** Notes: - The API returns all surveys partially intersecting the requested polygon. - The **LONG** comes before the **LAT**
	apikey	query	string	Your API key. See API Key Authentication for more information.
	since	query	string	The first day from which to retrieve the surveys (inclusive). The two possible formats are: - For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys since this date. - For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys since 5 months ago. The **since** and **until** parameters are used to further restrict the surveys that are returned.
	until	query	string	The last day from which to retrieve the surveys (inclusive). The two possible formats are: - For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys until this date. - For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys until 5 months ago. The **since** and **until** parameters are used to further restrict the surveys that are returned.
	limit	query	integer	The limit of the total number of surveys returned. The default value is **20**. The surveys are returned from the most recent to the least recent survey.
	offset	query	integer	The offset of the first survey to be displayed. With no offset, the first survey to be displayed is the most recent one. If the offset is 3 for example, the first survey to be displayed is the 4th recent one.

	fields	query	string	This is a comma-separated list of field names that will appear in the response. The **id** field will always be among the returned fields, even if not specified. If this parameter is not used in the URL request, then all the fields are returned. The available values are: • **captureDate** • **firstPhotoTime** • **id** • **lastPhotoTime** • **location** • **onlineTime** • **pixelSize** • **resources** • **timezone** • **utcOffset** Note: the **fields** values are case sensitive.
	sort	query	string	The field by which to sort the surveys. Only one field can be specified. If this parameter is not used in the URL request, then the surveys are sorted by **captureDate** in descending order. To sort in ascending order, pass the field name, e.g **sort=lastPhotoTime**. This will sort the surveys according to the **lastPhotoTime** from earliest to latest. To sort in descending order, pass the field name with the "-" prefix, e.g. **sort=-pixelSize**. This will sort the surveys according to the **pixelSize** from the largest to the smallest. If you sort by location, the following are the precedence rules for comparing location objects: • country • state • region For example, "NZ, MWT, PalmerstonNorth" will come after "AU, NSW, Williamstown" if sorted in ascending order. The available values are: • **captureDate** • **firstPhotoTime** • **id** • **lastPhotoTime** • **location** • **onlineTime** • **pixelSize** • **timezone** • **utcOffset**

Example

In this example we request surveys for a given polygon, limiting the response to two surveys:

```
Request:
https://api.nearmap.com/coverage/v2/poly/138.59707796614592,-34.91729448760797
,138.61703360121672,-34.91729448760797,138.61703360121672,-34.927709974005474,
138.59707796614592,-34.927709974005474,138.59707796614592,-34.91729448760797
?apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&limit=2

Response:
{
        "surveys": [
                {
                        "captureDate": "2018-10-29",
                        "firstPhotoTime": "2018-10-29T00:33:23Z",
                        "id": "100-353f704a-dcaa-11e8-b148-c715c343620e",
                        "lastPhotoTime": "2018-10-29T04:45:23Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-10-31T01:13:43Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "3540420e-dcaa-11e8-b14b-5b94392a0156",
                                                "scale": 21,
                                                "type": "Vert"
                                        },
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                },
                {
                        "captureDate": "2018-08-22",
                        "firstPhotoTime": "2018-08-22T00:17:33Z",
                        "id": "100-4c51ffe8-ab52-11e8-9b7a-b3f8ca0bcb81",
                        "lastPhotoTime": "2018-08-22T02:51:17Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-08-29T06:10:59Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "4c55ec3e-ab52-11e8-9b7d-437267690635",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACST",
                        "utcOffset": 34200
                }
        ],
        "limit": 2,
        "offset": 0,
        "total": 66
}
```

Responses

The following table describes the possible HTTP response status codes to the URL request and the surveys response fields:

Code	Description
200	OK. Surveys in JSON format as shown in the example above. The survey fields are described in the Retrieved Coverage Fields section.
	The surveys are returned from most recent to least recent.
400	Bad Request. Returned when the request is invalid. This means either the format is wrong, or a value is out of range.
401	Unauthorized. Returned when the API key is invalid.
403	Forbidden. Returned when not allowed to access the requested location.
404	Not Found. Returned when cannot find any surveys for the requested condition.
429	Too Many Requests. Returned when the rate limit is reached.
5XX	Server Error. Returned when something is wrong in the server side.

Retrieve Coverage for a Given Point

This API retrieves coverage (surveys) for a given LONG,LAT point.

API URL Format

```
https://api.nearmap.com/coverage/v2/point/{point}?apikey={YOUR_API_KEY}
```

Read more about the API URL format.

Parameters

Required	Name	API / query	Type	Description
	point	API	string	The point for which the surveys are retrieved. The point is the longitude and latitude of the location on which to center the image, in the format **LONG,LAT**. For example, -122.008946,37.334849.
				Note: the **LONG** comes before the **LAT**.
	apikey	query	string	Your API key. See API Key Authentication for more information.
	since	query	string	The first day from which to retrieve the surveys (inclusive).
				The two possible formats are:
				• For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys since this date. • For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys since 5 months ago.
	until	query	string	The last day from which to retrieve the surveys (inclusive).
				The two possible formats are:
				• For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys until this date. • For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys until 5 months ago.
	limit	query	integer	The limit of the total number of surveys returned. The default value is **20**. The surveys are returned from the most recent to the least recent survey.
	offset	query	integer	The offset of the first survey to be displayed. With no offset, the first survey to be displayed is the most recent one. If the offset is 3 for example, the first survey to be displayed is the 4th recent one.

	fields	query	string	This is a comma-separated list of field names that will appear in the response.
				The **id** field will always be among the returned fields, even if not specified.
				If this parameter is not used in the URL request, then all the fields are returned.
				The available values are:
				captureDate **firstPhotoTime** **id** **lastPhotoTime** **location** **onlineTime** **pixelSize** **resources** **timezone** **utcOffset**
				Note: the **fields** values are case sensitive.
	sort	query	string	The field by which to sort the surveys.
				Only one field can be specified.
				If this parameter is not used in the URL request, then the surveys are sorted by **captureDate** in descending order.
				To sort in ascending order, pass the field name, e.g **sort=lastPhotoTime**. This will sort the surveys according to the **lastPhotoTime** from earliest to latest.
				To sort in descending order, pass the field name with the "-" prefix, e.g. **sort=-pixelSize**. This will sort the surveys according to the **pixelSize** from the largest to the smallest.
				If you sort by location, the following are the precedence rules for comparing location objects:
				- country - state - region
				For example, "NZ, MWT, PalmerstonNorth" will come after "AU, NSW, Williamstown" if sorted in ascending order.
				The available values are:
				captureDate **firstPhotoTime** **id** **lastPhotoTime** **location** **onlineTime** **pixelSize** **timezone** **utcOffset**

Example

In this example we retrieve surveys for a given LONG,LAT point, limiting the response to two surveys:

```
Request:
https://api.nearmap.com/coverage/v2/point/138.59707796614592,-34.91729448760797?
apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&limit=2

Response:
{
        "surveys": [
                {
                        "captureDate": "2018-10-29",
                        "firstPhotoTime": "2018-10-29T00:33:23Z",
                        "id": "100-353f704a-dcaa-11e8-b148-c715c343620e",
                        "lastPhotoTime": "2018-10-29T04:45:23Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-10-31T01:13:43Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "3540420e-dcaa-11e8-b14b-5b94392a0156",
                                                "scale": 21,
                                                "type": "Vert"
                                        },
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                },
                {
                        "captureDate": "2018-08-22",
                        "firstPhotoTime": "2018-08-22T00:17:33Z",
                        "id": "100-4c51ffe8-ab52-11e8-9b7a-b3f8ca0bcb81",
                        "lastPhotoTime": "2018-08-22T02:51:17Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-08-29T06:10:59Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "4c55ec3e-ab52-11e8-9b7d-437267690635",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACST",
                        "utcOffset": 34200
                }
        ],
        "limit": 2,
        "offset": 0,
        "total": 66
}
```

Responses

The possible HTTP response status codes to the URL request are the same as the previous API.

The survey fields are described in the Retrieved Coverage Fields section.

Retrieve Coverage for a Given Tile Coordinate

This API retrieves coverage (surveys) for a given tile (x/y/z) coordinate, using the Google Maps Tile Coordinates.

API URL Format

`https://api.nearmap.com/coverage/v2/coord/{z}/{x}/{y}?apikey={YOUR_API_KEY}`

Read more about the API URL format.

Parameters

Required	Name	API / query	Type	Description
	z	API	integer	The zoom level. The highest resolution is typically 21. Uses the Google Maps Tile Coordinates.
	x	API	integer	The X tile coordinate for which the surveys are retrieved (column). Uses the Google Maps Tile Coordinates.
	y	API	integer	The Y tile coordinate for which the surveys are retrieved (row). Uses the Uses the Google Maps Tile Coordinates.
	apikey	query	string	Your API key. See API Key Authentication for more information.
	since	query	string	The first day from which to retrieve the surveys (inclusive). There two possible formats are: • For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys since this date. • For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys since 5 months ago.
	until	query	string	The last day from which to retrieve the surveys (inclusive). There two possible formats are: • For a specific date: **YYYY-MM-DD**, e.g. 2015-10-31 to retrieve surveys until this date. • For a relative date: **xxY**, **xxM**, or **xxD**, e.g. 5M to retrieve surveys until 5 months ago.
	limit	query	integer	The limit of the total number of surveys returned. The default value is **20**. The surveys are returned from the most recent to the least recent survey.
	offset	query	integer	The offset of the first survey to be displayed. With no offset, the first survey to be displayed is the most recent one. If the offset is 3 for example, the first survey to be displayed is the 4th recent one.
	fields	query	string	This is a comma-separated list of field names that will appear in the response. The **id** field will always be among the returned fields, even if not specified. If this parameter is not used in the URL request, then all the fields are returned. The available values are: • **captureDate** • **firstPhotoTime** • **id** • **lastPhotoTime** • **location** • **onlineTime** • **pixelSize** • **resources** • **timezone** • **utcOffset** Note: the **fields** values are case sensitive.

	sort	query	string	The field by which to sort the surveys.
				Only one field can be specified.
				If this parameter is not used in the URL request, then the surveys are sorted by **captureDate** in descending order.
				To sort in ascending order, pass the field name, e.g **sort=lastPhotoTime**. This will sort the surveys according to the **lastPhotoTime** from earliest to latest.
				To sort in descending order, pass the field name with the "-" prefix, e.g. **sort=-pixelSize**. This will sort the surveys according to the **pixelSize** from the largest to the smallest.
				If you sort by location, the following are the precedence rules for comparing location objects: • country • state • region For example, "NZ, MWT, PalmerstonNorth" will come after "AU, NSW, Williamstown" if sorted in ascending order. The available values are: • **captureDate** • **firstPhotoTime** • **id** • **lastPhotoTime** • **location** • **onlineTime** • **pixelSize** • **timezone** • **utcOffset**

Example

In this example we retrieve surveys for a given tile x/y/z coordinate, limiting the response to two surveys:

```
Request:
https://api.nearmap.com/coverage/v2/coord/16/57999/39561?
apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&limit=2

Response:
{
        "surveys": [
                {
                        "captureDate": "2018-10-29",
                        "firstPhotoTime": "2018-10-29T00:33:23Z",
                        "id": "100-353f704a-dcaa-11e8-b148-c715c343620e",
                        "lastPhotoTime": "2018-10-29T04:45:23Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-10-31T01:13:43Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "3540420e-dcaa-11e8-b14b-5b94392a0156",
                                                "scale": 21,
                                                "type": "Vert"
                                        },
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                },
                {
                        "captureDate": "2018-08-22",
                        "firstPhotoTime": "2018-08-22T00:17:33Z",
                        "id": "100-4c51ffe8-ab52-11e8-9b7a-b3f8ca0bcb81",
                        "lastPhotoTime": "2018-08-22T02:51:17Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-08-29T06:10:59Z",
                        "pixelSize": 0.069,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "4c55ec3e-ab52-11e8-9b7d-437267690635",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACST",
                        "utcOffset": 34200
                }
        ],
        "limit": 2,
        "offset": 0,
        "total": 66
}
```

Responses

The possible HTTP response status codes to the URL request are the same as the previous API.

he survey fields are described in the Retrieved Coverage Fields section.

Additional Examples

Using the **since** and **until** Parameters

The **since** and **until** parameters specify the dates for which to retrieve the surveys requested in the Coverage API.

In this example we retrieve surveys for a given polygon, **since** the 1st of Feb 2018 **until** 6 months ago:

```
Request:
https://api.nearmap.com/coverage/v2/poly/138.59707796614592,-34.91729448760797
,138.61703360121672,-34.91729448760797,138.61703360121672,-34.927709974005474,
138.59707796614592,-34.927709974005474,138.59707796614592,-34.91729448760797
?apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&since=2018-02-01&until=6M

Response:
{
        "surveys": [
                {
                        "captureDate": "2018-04-19",
                        "firstPhotoTime": "2018-04-19T00:10:27Z",
                        "id": "100-510ace40-49b2-11e8-bb72-ff76fb415264",
                        "lastPhotoTime": "2018-04-19T03:35:45Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-04-27T00:31:24Z",
                        "pixelSize": 0.066,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "510ce2e8-49b2-11e8-bb75-cf2f2247d124",
                                                "scale": 21,
                                                "type": "Vert"
                                        },
                                        {
                                                "id": "51100db0-49b2-11e8-bb79-170577ffc6a6",
                                                "scale": 20,
                                                "type": "East"
                                        },
                                        {
                                                "id": "510f5294-49b2-11e8-bb78-ffe46b70e235",
                                                "scale": 21,
                                                "type": "South"
                                        },
                                        {
                                                "id": "510e8e54-49b2-11e8-bb77-131ff6e28c7d",
                                                "scale": 21,
                                                "type": "North"
                                        },
                                        {
                                                "id": "5110ee88-49b2-11e8-bb7a-bf00b6fd0bbd",
                                                "scale": 20,
                                                "type": "West"
                                        }
                                ]
                        },
                        "timezone": "ACST",
                        "utcOffset": 34200
                },
                {
                        "captureDate": "2018-02-26",
                        "firstPhotoTime": "2018-02-26T01:26:09Z",
```

```
                        "id": "100-2d147328-2028-11e8-896f-57ffd8ddb571",
                        "lastPhotoTime": "2018-02-26T05:06:56Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-03-05T03:49:16Z",
                        "pixelSize": 0.066,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "2d15d33a-2028-11e8-8972-ab630c07c403",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                }
        ],
        "limit": 20,
        "offset": 0,
        "total": 2
}
```

Using the **fields** Parameter

The **fields** parameter specifies which fields will appear in the response when retrieving surveys using the Coverage API. Note that the **id** field is always returned, even if not specified.

In this example we retrieve surveys for a given polygon, requesting only the **captureDate** and **firstPhotoTime** fields, and limiting the response to 10 surveys:

```
Request:
https://api.nearmap.com/coverage/v2/poly/138.59707796614592,-34.91729448760797
,138.61703360121672,-34.91729448760797,138.61703360121672,-34.927709974005474,
138.59707796614592,-34.927709974005474,138.59707796614592,-34.91729448760797
?apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&fields=id,captureDate&limit=10

Response:
{
        "surveys": [
                {
                        "captureDate": "2018-10-29",
                        "firstPhotoTime": "2018-10-29T00:33:23Z",
                        "id": "100-353f704a-dcaa-11e8-b148-c715c343620e"
                },
                {
                        "captureDate": "2018-08-22",
                        "firstPhotoTime": "2018-08-22T00:17:33Z",
                        "id": "100-4c51ffe8-ab52-11e8-9b7a-b3f8ca0bcb81"
                },
                {
                        "captureDate": "2018-04-19",
                        "firstPhotoTime": "2018-04-19T00:10:27Z",
                        "id": "100-510ace40-49b2-11e8-bb72-ff76fb415264"
                },
                {
                        "captureDate": "2018-02-26",
                        "firstPhotoTime": "2018-02-26T01:26:09Z",
                        "id": "100-2d147328-2028-11e8-896f-57ffd8ddb571"
                },
                {
                        "captureDate": "2018-01-16",
                        "firstPhotoTime": "2018-01-15T22:36:22Z",
                        "id": "100-5b9060a6-04a1-11e8-a51e-d3d4da5bcad9"
                },
                {
                        "captureDate": "2017-11-21",
                        "firstPhotoTime": "2017-11-20T23:33:18Z",
                        "id": "100-8d0cfac6-d31a-11e7-b321-b3e831dd2b87"
                },
                {
                        "captureDate": "2017-10-02",
                        "firstPhotoTime": "2017-10-02T00:32:26Z",
                        "id": "100-ecc6b68e-b95f-11e7-92ea-17ff5cb53b71"
                },
                {
                        "captureDate": "2017-06-21",
                        "firstPhotoTime": "2017-06-21T02:05:25Z",
                        "id": "100-bfbe21ea-b95f-11e7-88df-632374f558b6"
                },
                {
                        "captureDate": "2017-05-09",
                        "firstPhotoTime": "2017-05-09T01:51:17Z",
                        "id": "100-ac6c05ee-b95f-11e7-84bb-cb4aa50875c6"
                },
                {
                        "captureDate": "2017-03-17",
                        "firstPhotoTime": "2017-03-16T23:17:20Z",
                        "id": "100-9aa1adfa-b95f-11e7-80d5-6b6ef8ac2f05"
                }
        ],
        "limit": 10,
        "offset": 0,
        "total": 66
}
```

Using the **sort** Parameter

The **sort** parameter specifies the field by which to sort the retrieved surveys requested by the Coverage API.

In this example we retrieve surveys for a given polygon, sorting the response fields according to the **lastPhotoTime** field in an ascending order, and limiting the response to three surveys:

```
Request:
https://api.nearmap.com/coverage/v2/poly/138.59707796614592,-34.91729448760797
,138.61703360121672,-34.91729448760797,138.61703360121672,-34.927709974005474,
138.59707796614592,-34.927709974005474,138.59707796614592,-34.91729448760797
?apikey=Yzc2MjEzMWUtY2Q4YS00NTM2LTgyMDgtMDljZjI2YTdhMTMz&sort=lastPhotoTime&limit=3


Response:
{
        "surveys": [
                {
                        "captureDate": "2009-10-19",
                        "firstPhotoTime": "2009-10-18T18:21:46Z",
                        "id": "100-c54f488e-b95d-11e7-bd8e-5f787b2dc397",
                        "lastPhotoTime": "2009-10-19T22:39:49Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-02-09T03:32:38Z",
                        "pixelSize": 0.08,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "c55168f8-b95d-11e7-bd91-43d8499f1906",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                },
                {
                        "captureDate": "2009-10-29",
                        "firstPhotoTime": "2009-10-28T15:52:19Z",
                        "id": "100-0647ec10-b95e-11e7-ac79-4fe499e7d4d3",
                        "lastPhotoTime": "2009-10-30T22:09:13Z",
                        "location": {
                                "country": "AU",
                                "region": "Adelaide",
                                "state": "SA"
                        },
                        "onlineTime": "2018-02-09T03:07:21Z",
                        "pixelSize": 0.08,
                        "resources": {
                                "tiles": [
                                        {
                                                "id": "064a0180-b95e-11e7-ac7c-2fae4102c9b7",
                                                "scale": 21,
                                                "type": "Vert"
                                        }
                                ]
                        },
                        "timezone": "ACDT",
                        "utcOffset": 37800
                },
                {
                        "captureDate": "2009-12-01",
                        "firstPhotoTime": "2009-11-30T16:03:36Z",
                        "id": "100-c735b188-b95d-11e7-bdec-8fc52cb7008c",
                        "lastPhotoTime": "2009-12-01T23:19:42Z",
```

```
                "location": {
                        "country": "AU",
                        "region": "Adelaide",
                        "state": "SA"
                },
                "onlineTime": "2018-02-09T02:47:48Z",
                "pixelSize": 0.08,
                "resources": {
                        "tiles": [
                                {
                                        "id": "c737c9a0-b95d-11e7-bdef-1f90b15ebb7e",
                                        "scale": 21,
                                        "type": "Vert"
                                }
                        ]
                },
                "timezone": "ACDT",
                "utcOffset": 37800
            }
    ],
    "limit": 3,
    "offset": 0,
    "total": 66
}
```

Troubleshooting

Not Authorized to Access Area

If you receive the following error:

```
{"error":"You are not authorized to access this area"}
```

Check whether the coordinates that you used are **LONG,LAT points**, and not LAT,LONG points. The order is crucial, otherwise you will be requesting surveys for an area that is outside your coverage area, and this error will be returned.

For example:

- The latitude and longitude for the Statue of Liberty is 40.688640, -74.043970. In the request we will change the order of the coordinates:

```
https://api.nearmap.com/coverage/v2/point/-74.043970,40.688640?apikey={YOUR_API_KEY}
```

- The latitude and longitude for the Sydney Opera House is -33.858060, 151.214850. In the request we will change the order of the coordinates:

```
https://api.nearmap.com/coverage/v2/point/151.214850,-33.858060?apikey={YOUR_API_KEY}
```

This error is also returned when you request coverage for an area you are not authorized to access, for example when your API key can be used only for Australian imagery, and you request coverage for an area in the United States.

It is also possible that you requested coverage for an area that Nearmap doesn't cover.

Invalid Polygon

If you receive the following error:

```
{"error": "geometry was not a valid sequence of x,y coordinates","code": "INVALID_POLYGON"}
```

Check whether you have an extra comma or space in your URL request.

This error is also returned when the polygon is given in the wrong format.

API Key Not Found

If you receive the following error:

```
{"error": "API key not found"}
```

Check whether you have are missing any part of the API key, or if you have an extra space in the API key.

This error is also returned when the API key is invalid. Check if the API Key that you are using is "Stale". You can confirm this and renew the API by following the instructions listed here.