## OSPO HMS Fire - v2

Domain Portfolio: Weather Imagery | Domain: Natural Disasters | API Name: OSPO HMS Smoke - v2

Standard HTTP Cache-Control headers are used to define caching length. The TTL value is provided in the HTTP Header as an absolute time value using the "Expires" parameter. Example: "Expires: Fri, 12 Jul 2013 12:00:00 GMT".

An IBM Business Geography: Global

Attribution Required: NO

Attribution Requirements: N/A

## **Overview**

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Weather

The Feature Data Service (FDS) API provides geographic features for a number of products. The client can use these features to render a visual representation of data.

- FDS provides geometric vector data where each feature can be a set of points, a polygon or set of polygons, a linestring or set of linestrings, or any other valid GeoJSON type
- Each feature is described by a set of geographic coordinates and a set of properties.
- Each feature is uniquely identified by the combination of its product key, feature key and valid time; the valid time is used to assign the feature to a unique feature set.
- For additional details about FDS, please see the <u>Weather Company Data | Data Visualization Weather Imagery | Common Usage Guide</u>

Using FDS products requires a multi-step workflow to retrieve the necessary data for the specific product data request. Step 2 requires the 'time' value parameter, found in the response from Step 1.

- Step 1: Get Product Info Provides time-based labels for the feature sets that are currently available.
- Step 2: Get Features for a Single Tile Provides all geographic features for a single tile, taken from a single feature set within a specific product.

## **URL Construction**

Step 1: Get Product Info

Required Parameters: productKey, apiKey=yourApiKey || Optional Parameters: meta, max-times https://api.weather.com/v2/vector-api/products/productKey>/info?apiKey=yourApiKey

The [/products/{productKey}/info] request provides the labels for the feature sets that are currently available. These labels are required as input for the subsequent [/products/{productKey}/features] request, and they are invoked in that request's 'time' parameter.

https://api.weather.com/v2/vector-api/products/635/info?meta=true&max-times=12&apiKey=yourApiKey

Step 2: Get Features for a Single Tile

**Required Parameters:** productKey, time, lod, x, y, apiKey=yourApiKey || Optional Parameters: declutter, tile-size https://api.weather.com/v2/vector-api/products/com/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector-api/v2/vector

The [/products/{productKey}/features] request provides a set of features for a single tile, from a particular feature set within a particular product. Each feature contains a small set of key metadata properties, including its ID and valid time, which are required as input for any subsequent [/products/{productKey}/feature-details] request, as the 'feature-id' and 'valid-time' parameters.

## Product Data Dictionary: 635 - OSPO HMS Fire

The source of the data is the Hazard Mapping System (HMS) from NOAA's Office of Satellite and Product Operations (OSPO).

The JSON data includes the following fields:

<b>Field</b> Found in the GeoJSON response, in each feature's <b>properties</b> field	Description
yearday	Detection day, in yyyydd format, where ddd is the current day number, with leading zeroes as needed Examples: 2016341 is December 6, 2016; Dec 6 is Day 341/366 (Leap Year) 2018018 is January 18, 2018; Jan 18 is Day 018/365
time	Detection time in UTC, in 24-hour hhmm format
satellite	Source satellite, such as GOES-EAST or Suomi NPP
method-of-detection	Automated fire detection algorithm from the detecting satellite, or ANALYSIS if the fire has been manually plotted from an analyst's observation of a fire signature in the satellite imagery