SEPA FFIMS API

Overview

Scottish Environment Protection Agency Future Flood and Incident Messaging Service API. This API exposes SEPA flood event messages. The underlying data the API access is updated in near-realtime, which means when calls are made to the API, the most current data available at the point in time the call is made is returned. Using this API requires the use of API keys, please email SEPA using the address in the 'contact' section to request approval and arrange for generation of a key. Any technical issues with this API should be initially address to the address in the 'contact' section. ##Contact Email address: ffw@sepa.org.uk

HTK

Paths

GET `/version` Get API Version

Get the current version of the API. This can be used as a health-check and for ensuring version matching.

This method does not require authentication.

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

GET `/sepa/ffims/v1/warnings` Get alerts and warnings

Returns the active alerts and warnings.

Parameters

Type	Name	Description	Schema
query	**severity** *optional*	Optional severity level.	string
query	**includeTest Areas** *optional*	Optional flag to include test areas.	boolean

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET /sepa/ffims/v1/warnings/location **Get alerts and warnings by location.**

Returns the active alerts and warnings within range of the specified x,y co-ordinates.

Parameters

Type	Name	Description	Schema
query	**includeTest Areas** *optional*	Optional flag to include test areas.	boolean
query	**x** *required*	Northings X co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)
query	**y** *required*	Eastings Y co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)
query	**radius** *required*	Range from X,Y co-ordinates. Units are in metres. Based on OS Grid system: https://epsg.io/27700	number (double)

Type	Name	Description	Schema
query	**srid** *optional*	Unique Spatial Reference Identifier.	integer (int32)

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET /sepa/ffims/v1/warnings/activity **Historical flood warning activity.**

Returns a summary of flood warning and subscriber contacts, over the last 7 days.

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET /sepa/ffims/v1/warning/type **Get warning type.**

Returns the warning type for this API instance.

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET /sepa/ffims/v1/warning/severities **Get a list of warning severities.**

Returns a list of warning severities used by this API instance.

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET `/sepa/ffims/v1/warning/area` Get alert or warning by area.

Returns the active alert or warning for the specified area.

Parameters

Type	Name	Description	Schema
query	**id** *required*	Area identifier.	string

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET `/sepa/ffims/v1/areas` Get Area details.

Returns the details of all the flood warning Areas.

Parameters

Type	Name	Description	Schema
query	**maxPoints** *optional*	Maximum number of points returned.	integer (int32)
query	**includeTest Areas** *optional*	Optional flag to include test areas.	boolean
query	**type** *optional*	Optional area type.	string

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET /sepa/ffims/v1/areas/location **Get Areas by location.**

Returns the details of all the flood warning Areas within range of the specified x,y co-ordinates.

Parameters

Type	Name	Description	Schema
query	**maxPoints** *optional*	Maximum number of points returned.	integer (int32)
query	**includeTest Areas** *optional*	Optional flag to include test areas.	boolean
query	**x** *required*	Northings X co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)
query	**y** *required*	Eastings Y co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)
query	**radius** *required*	Range from X,Y co-ordinates. Units are in metres. Based on OS Grid system: https://epsg.io/27700	number (double)
query	**srid** *optional*	Unique Spatial Reference Identifier.	integer (int32)

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

GET `/sepa/ffims/v1/area` **Get Area details**

Returns the details of the specified flood warning Area.

Parameters

Type	Name	Description	Schema
query	**maxPoints** *optional*	Maximum number of points returned.	integer (int32)
query	**id** *required*	Area identifier.	string

Responses

Code	Description	Links
200	OK *Content* **application/json**	No Links
400	Bad Request *Content* **/**	No Links

Type	Name	Scopes
apiKey	oauth2	

Components

Schemas

Version

Properties

Name	Description	Schema
version *optional*		string

WarningDTO

Warning details.

Properties

Name	Description	Schema
id *optional*	Warning area identifier.	string
name *optional*	Warning area name.	string
message *optional*	Message text.	string
severity *optional*	Severity level.	string
quickDialCode *optional*	Quick dial code.	string
uri *optional*	URI to the map of the reported area.	string
startTime *optional*	Start date and time.	string (date-time)
updatedTime *optional*	Last updated date and time.	string (date-time)
endTime *optional*	No longer in force date and time.	string (date-time)

ActivityDTO

Contains a list of events for a specific warning type.

Properties

Name	Description	Schema
type *optional*	Warning type for the contained events.	string
events *optional*	A list of events for this warning type.	< EventDTO > array

EventDTO

Contains a list of intervals, with activity counts, for an event.

Properties

Name	Description	Schema
severity *optional*	Severity level for the contained intervals.	string
intervals *optional*	A list of intervals containing activity and contact counts.	< IntervalDTO > array

IntervalDTO

Interval containing active and contact counts for the previous hour(s).

Properties

Name	Description	Schema
hour *optional*	Hour(s) window.	integer (int32)
active *optional*	Active alerts and warnings during this time period.	integer (int32)
contacted *optional*	Unique contacts (SMS, email or phone) during this time period.	integer (int32)

WarningTypeDTO

Flood warning type.

Properties

Name	Description	Schema
id *optional*	Warning type identifier.	integer (int32)
name *optional*	Warning type name.	string

SeverityDTO

Flood Severity.

Properties

Name	Description	Schema
name *optional*	Severity name.	string
states *optional*	List of warning states associated with this severity.	< string > array
activity *optional*	Indicates whether the severity is used by Activity reporting.	boolean

AreaDTO

Warning area details.

Properties

Name	Description	Schema
id *optional*	Unique identifier.	string
name *optional*	Name.	string
type *optional*	Type.	string
description *optional*	Description.	string
parentId *optional*	Parent area identifier.	string
quickDialCode *optional*	Quick dial code.	string
shape *optional*	Shape type.	string
uri *optional*	URI to the map of the reported area.	string
srid *optional*	Spatial Reference Identifier.	integer (int32)
createdDate *optional*	Creation date and time.	string (date-time)
updatedDate *optional*	Last updated date and time.	string (date-time)

PointDTO

Map co-ordinates. Based on OS Grid system: https://epsg.io/27700

Properties

Name	Description	Schema
x *optional*	Eastings X co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)
y *optional*	Northings Y co-ordinate. Based on OS Grid system: https://epsg.io/27700	number (double)