

# Namespace Weather.Data.Nws

## Classes

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A representation of alert features from the National Weather Service (NWS) API.

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## Enums

### [AlertCategory](#)

A representation of the category of an alert from the National Weather Service (NWS) API.

### [AlertCertainty](#)

A representation of the likelihood an event will occur in relation to an alert from the National Weather Service (NWS) API.

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A representation of the latest message type of an alert from the National Weather Service (NWS) API.

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# Class Alert

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll








A representation of alert features from the National Weather Service (NWS) API.

```
public class Alert
```

## Inheritance

[object](#)  ← Alert

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,  
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,  
[object.ToString\(\)](#) 

## Properties

### Id

Gets or sets the id of the alert.

```
[JsonPropertyName("id")]  
public string Id { get; set; }
```

## Property Value

[string](#) 

The id of the alert.

## Properties

Gets or sets the properties of the alert.

```
[JsonPropertyName("properties")]  
public AlertProperties Properties { get; set; }
```

## Property Value

[AlertProperties](#)

The properties of the alert.

## Type

Gets or sets the type of the alert.

```
[JsonPropertyName("type")]  
public string Type { get; set; }
```

## Property Value

[string](#)

The type of the alert.

# Enum AlertCategory

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

A representation of the category of an alert from the National Weather Service (NWS) API.

```
[Flags]  
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertCategory
```

## Fields

**CBRNE = 1**

A Chemical, Biological, Radiological, Nuclear or High-Yield Explosive alert.

**Env = 2**

An Environmental alert.

**Fire = 4**

A Fire alert.

**Geo = 8**

A Geological alert.

**Health = 16**

A Health alert.

**Infra = 32**

An Infrastructure alert.

**Met = 64**

A Meteorological alert.

**Other = 128**

An alert not described by the other values.

Rescue = 256

A Rescue alert.

Safety = 512

A Safety alert.

Security = 1024

A Security alert.

Transport = 2048

A Transportation alert.

# Enum AlertCertainty

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

A representation of the likelihood an event will occur in relation to an alert from the National Weather Service (NWS) API.

```
[Flags]  
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertCertainty
```

## Fields

**Likely = 1**

An event is likely to happen in association with the alert.

**Observed = 2**

An event has been observed in association with the alert.

**Possible = 4**

An event is possible in association with the alert.

**Unknown = 8**

The likelihood of an event is unknown in association with the alert.

**Unlikely = 16**

An event is unlikely to occur in association with the alert.

# Enum AlertMessageType

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

A representation of the latest message type of an alert from the National Weather Service (NWS) API.

```
[Flags]  
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertMessageType
```

## Fields

**Ack = 1**

The message is an acknowledgement.

**Alert = 2**

The message is a new alert.

**Cancel = 4**

The message is a cancellation of an alert.

**Error = 8**

The message was issued in error.

**Update = 16**

the message is an update to an alert.

# Class AlertProperties

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
public class AlertProperties
```

## Inheritance

[object](#)  ← AlertProperties

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### AffectedZones

```
[JsonPropertyName("affectedZones")]  
public IEnumerable<string> AffectedZones { get; set; }
```

### Property Value

[IEnumerable](#)  <[string](#)  >

## AreaDescription

```
[JsonPropertyName("areaDesc")]  
public string AreaDescription { get; set; }
```

### Property Value

[string](#) 



# Category

```
[JsonPropertyName("category")]  
public AlertCategory Category { get; set; }
```

## Property Value

[AlertCategory](#)

# Certainty

```
[JsonPropertyName("certainty")]  
public AlertCertainty Certainty { get; set; }
```

## Property Value

[AlertCertainty](#)

# Description

```
[JsonPropertyName("description")]  
public string Description { get; set; }
```

## Property Value

[string](#)

# Effective

```
[JsonPropertyName("effective")]  
public DateTime Effective { get; set; }
```

## Property Value

[DateTime](#)

## Ends

```
[JsonPropertyName("ends")]  
public DateTime? Ends { get; set; }
```

## Property Value

[DateTime](#)?

## Event

```
[JsonPropertyName("event")]  
public string Event { get; set; }
```

## Property Value

[string](#)

## Expires

```
[JsonPropertyName("expires")]  
public DateTime Expires { get; set; }
```

## Property Value

[DateTime](#)

## Geocode

```
[JsonPropertyName("geoCode")]  
public GeoCode Geocode { get; set; }
```

## Property Value

## Headline

```
[JsonPropertyName("headline")]  
public string? Headline { get; set; }
```

## Property Value

[string](#)

## Id

```
[JsonPropertyName("id")]  
public string Id { get; set; }
```

## Property Value

[string](#)

## Instruction

```
[JsonPropertyName("instruction")]  
public string? Instruction { get; set; }
```

## Property Value

[string](#)

## MessageType

```
[JsonPropertyName("messageType")]  
public AlertMessageType MessageType { get; set; }
```

## Property Value

[AlertMessageType](#)

## Onset

```
[JsonPropertyName("onset")]  
public DateTime? Onset { get; set; }
```

## Property Value

[DateTime](#)?

## References

```
[JsonPropertyName("references")]  
public IEnumerable<AlertReference> References { get; set; }
```

## Property Value

[IEnumerable](#) <[AlertReference](#)>

## Response

```
[JsonPropertyName("response")]  
public AlertResponse Response { get; set; }
```

## Property Value

[AlertResponse](#)

## Sender

```
[JsonPropertyName("sender")]
```

```
public string Sender { get; set; }
```

## Property Value

[string](#)

## SenderName

```
[JsonPropertyName("senderName")]  
public string SenderName { get; set; }
```

## Property Value

[string](#)

## Sent

```
[JsonPropertyName("sent")]  
public DateTime Sent { get; set; }
```

## Property Value

[DateTime](#)

## Severity

```
[JsonPropertyName("severity")]  
public AlertSeverity Severity { get; set; }
```

## Property Value

[AlertSeverity](#)

## Status

```
[JsonPropertyName("status")]  
public AlertStatus Status { get; set; }
```

## Property Value

[AlertStatus](#)

## Urgency

```
[JsonPropertyName("urgency")]  
public AlertUrgency Urgency { get; set; }
```

## Property Value

[AlertUrgency](#)

# Class AlertReference

Namespace: [Weather.Data.Nws](#)








Assembly: Weather.dll

```
public class AlertReference
```

## Inheritance

[object](#)  ← AlertReference

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,  
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,  
[object.ToString\(\)](#) 

## Properties

### Id

```
[JsonPropertyName("@id")]  
public string Id { get; set; }
```

### Property Value

[string](#) 

### Identifier

```
[JsonPropertyName("identifier")]  
public string Identifier { get; set; }
```

### Property Value

[string](#) 

# Sender

```
[JsonPropertyName("sender")]  
public string Sender { get; set; }
```

## Property Value

[string](#)

# Sent

```
[JsonPropertyName("sent")]  
public DateTime Sent { get; set; }
```

## Property Value

[DateTime](#)



# Enum AlertResponse

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertResponse
```

## Fields

AllClear = 7

Assess = 6

Avoid = 4

Evacuate = 1

Execute = 3

Monitor = 5

None = 8

Prepare = 2

Shelter = 0

# Enum AlertSeverity

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertSeverity
```

## Fields

Extreme = 0

Minor = 3

Moderate = 2

Severe = 1

Unknown = 4

# Enum AlertStatus

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
[Flags]  
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertStatus
```

## Fields

Actual = 1

Draft = 16

Exercise = 2

System = 4

Test = 8

# Enum AlertUrgency

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
[JsonConverter(typeof(JsonStringEnumConverter))]  
public enum AlertUrgency
```

## Fields

Expected = 1

Future = 2

Immediate = 0

Past = 3

Unknown = 4

# Class AlertsResponse

Namespace: [Weather.Data.Nws](#)








Assembly: Weather.dll

```
public class AlertsResponse
```

## Inheritance

[object](#)  ← AlertsResponse

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### Features

```
[JsonPropertyName("features")]  
public IEnumerable<Alert> Features { get; set; }
```

## Property Value

[IEnumerable](#)  <[Alert](#)>

## Pagination

```
[JsonPropertyName("pagination")]  
public PaginationInfo Pagination { get; set; }
```

## Property Value

[PaginationInfo](#)

# Title

```
[JsonPropertyName("title")]  
public string Title { get; set; }
```

## Property Value

[string](#)

# Type

```
[JsonPropertyName("type")]  
public string Type { get; set; }
```

## Property Value

[string](#)

# Updated

```
[JsonPropertyName("updated")]  
public DateTime Updated { get; set; }
```

## Property Value

[DateTime](#)

# Class ErrorResponse

Namespace: [Weather.Data.Nws](#)








Assembly: Weather.dll

```
public class ErrorResponse
```

## Inheritance

[object](#)  ← ErrorResponse

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### CorrelationId

```
public string CorrelationId { get; set; }
```

### Property Value

[string](#) 

### Detail

```
public string Detail { get; set; }
```

### Property Value

[string](#) 

## Instance

```
public string Instance { get; set; }
```

## Property Value

[string](#)

## Status

```
public int Status { get; set; }
```

## Property Value

[int](#)

## Title

```
public string Title { get; set; }
```

## Property Value

[string](#)

## Type

```
public string Type { get; set; }
```

## Property Value

[string](#)



# Class GeoCode

Namespace: [Weather.Data.Nws](#)

Assembly: Weather.dll

```
public class GeoCode
```

## Inheritance

[object](#)  ← GeoCode

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### Same

```
[JsonPropertyName("SAME")]  
public IEnumerable<string> Same { get; set; }
```

## Property Value

[IEnumerable](#)  <[string](#)  >

### Ugc

```
[JsonPropertyName("UGC")]  
public IEnumerable<string> Ugc { get; set; }
```

## Property Value

[IEnumerable](#)  <[string](#)  >

# Class PaginationInfo

Namespace: [Weather.Data.Nws](#)








Assembly: Weather.dll

```
public class PaginationInfo
```

## Inheritance

[object](#)  ← PaginationInfo

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### Next

```
[JsonPropertyName("next")]  
public string Next { get; set; }
```

## Property Value

[string](#) 

# Namespace Weather.Services

## Classes

### [NwsService](#)

Provides a class for getting data from the National Weather Service (NWS) API.

## Interfaces

### [INwsService](#)

Provides an abstraction for getting data from the National Weather Service (NWS) API.

# Interface INwsService

Namespace: [Weather.Services](#)


Assembly: Weather.dll

Provides an abstraction for getting data from the National Weather Service (NWS) API.

```
public interface INwsService
```

## Remarks

For more information about the NWS API visit [their documentation](#).

The OneOf package used can be found [here](#).

## Methods

### GetAlertsAsync()

Gets the latest alerts from the NWS API as an asynchronous operation.

```
Task<OneOf<AlertResponse, ErrorResponse>> GetAlertsAsync()
```

## Returns

[Task](#) <OneOf<[AlertResponse](#), [ErrorResponse](#)>>

The task object containing the response from the API.

# Class NwsService

Namespace: [Weather.Services](#)

Assembly: Weather.dll

Provides a class for getting data from the National Weather Service (NWS) API.

```
public class NwsService : INwsService
```








## Inheritance

[object](#)  ← NwsService

## Implements

[INwsService](#)

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Remarks

For more information about the NWS API visit [their documentation](#) .

The OneOf package used can be found [here](#) .

## Constructors

### NwsService(HttpClient)

Initializes a new instance of the NwsService with the given HttpClient.

```
public NwsService(HttpClient client)
```

## Parameters

**client** [HttpClient](#) 

The HttpClient to use for calls to the NWS API.

# Methods

## GetAlertsAsync()

Gets the latest alerts from the NWS API as an asynchronous operation.

```
public Task<OneOf<AlertResponse, ErrorResponse>> GetAlertsAsync()
```

## Returns

[Task](#)  <OneOf<[AlertResponse](#), [ErrorResponse](#)>>

The task object containing the response from the API.

## Remarks

The API returns 500 alerts by default.