

# General - Weather Process

## Model Documentation



**Version 6.0**

***Document Version: 1***

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# 1 Model Detail

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## 2 Weather Document usage decision table

The following decision table provides a summary of the message requirements depending on the type of message:

| Weather Document                                | Weather Forecast  | Weather Results                                    |
|---|---|--|
| identification                                  | Mandatory.  |  |
| version   | Mandatory.  |  |
| documentCode                                    | AMK = Weather Forecast Document   | AML = Weather Results Document.                    |
| creationDateTime                                | Mandatory.  |  |
| validityPeriod                                  | Mandatory.  |  |
| issuer_MarketParticipant.identification         | Mandatory; codingScheme = 305 (EIC Party X code).   |  |
| issuer_MarketParticipant.marketRole.roleCode    | ZUH = Weather Data Provider.  | ZUH = Weather Data Provider.                       |
| recipient_MarketParticipant.identification      | Mandatory; codingScheme = 305 (EIC Party X code).   |  |
| recipient_MarketParticipant.marketRole.roleCode | ZUW = Transmission System Operator<br>ZSH = Balance Responsible Party.  |  |
| WeatherStation_ResourceObject.identification    | Mandatory; codingScheme = 305 (EIC Resource Object W code) or ZSO.  |  |
| WeatherStation_ResourceObject.alternate         | May be used; codingScheme = 305 (EIC Resource Object W code) or ZSO.  |  |
| Period.timeInterval                             | Mandatory.  |  |
| Period.status.statusCode                        | 03G = Estimated value.  | 04G = Provisional value<br>05G = Definitive value. |
| Period.windDirection_Name.text                  | May be used. Wind direction in 10-degree increments (000-350)   |  |
| amount  | Mandatory   |  |
| quantityCode                                    | ZXU = Index of confidence<br>Note: If this code is present the MeteorologicalPropertyCode and PhysicalPropertyCode must be absent (XoR).  |  |
| Composition.MeteorologicalPropertyCode          | ZXP = Windspeed. This shall be expressed in meters per second (msc).<br>ZXQ = Minimum temperature. This shall be expressed in degrees celsius<br>ZXR = Maximum temperature. This shall be expressed in degrees celsius<br>ZXS = Cloudiness. This shall be expressed in Okta units<br>ZXV = Solar irradiance.<br>Note: If this code is present the quantityCode and PhysicalPropertyCode must be absent (XoR). |  |
| Composition.physicalPropertyCode                | TC = Temperature. This shall be expressed in degrees celsius.<br>Note: If this code is present the quantityCode and MeteorologicalPropertyCode must be absent (XoR).  |  |
| text  | May be used   |  |

## 3 Weather Process

### 3.1 Business Process

The objective of the weather process is to define a document to provide weather forecast and realisation data that can be used as a general process.

A Weather Document can enable the transmission of forecast and realisation information that is normally sent from a weather analysis source.

It may also be used to provide market participants with weather information whenever necessary.

#### 3.1.1 Weather information workflow

The Weather Data Provider determines the weather forecast for a designated area. This is then sent to the Transmission System Operator or Balance Responsible Party who processes the information as required.

The Weather Data Provider then waits for an evolution to the weather information to occur.

An evolution could be

- A change in the forecast where a new revision has to be sent.
- An evolution of the forecast during the day where some results are already available.
- The end of day where the realised results are available
- The end of day validated results.

Whenever any of these events occur the Weather Data Provider sends the resulting information to the Transmission System Operator or Balance Responsible Party.

The Weather document may be used to send information to a market participant that is normally not provided in the general day to day messages.

The information that is required may be agreed for systematic periodic transmission or on a one off basis.

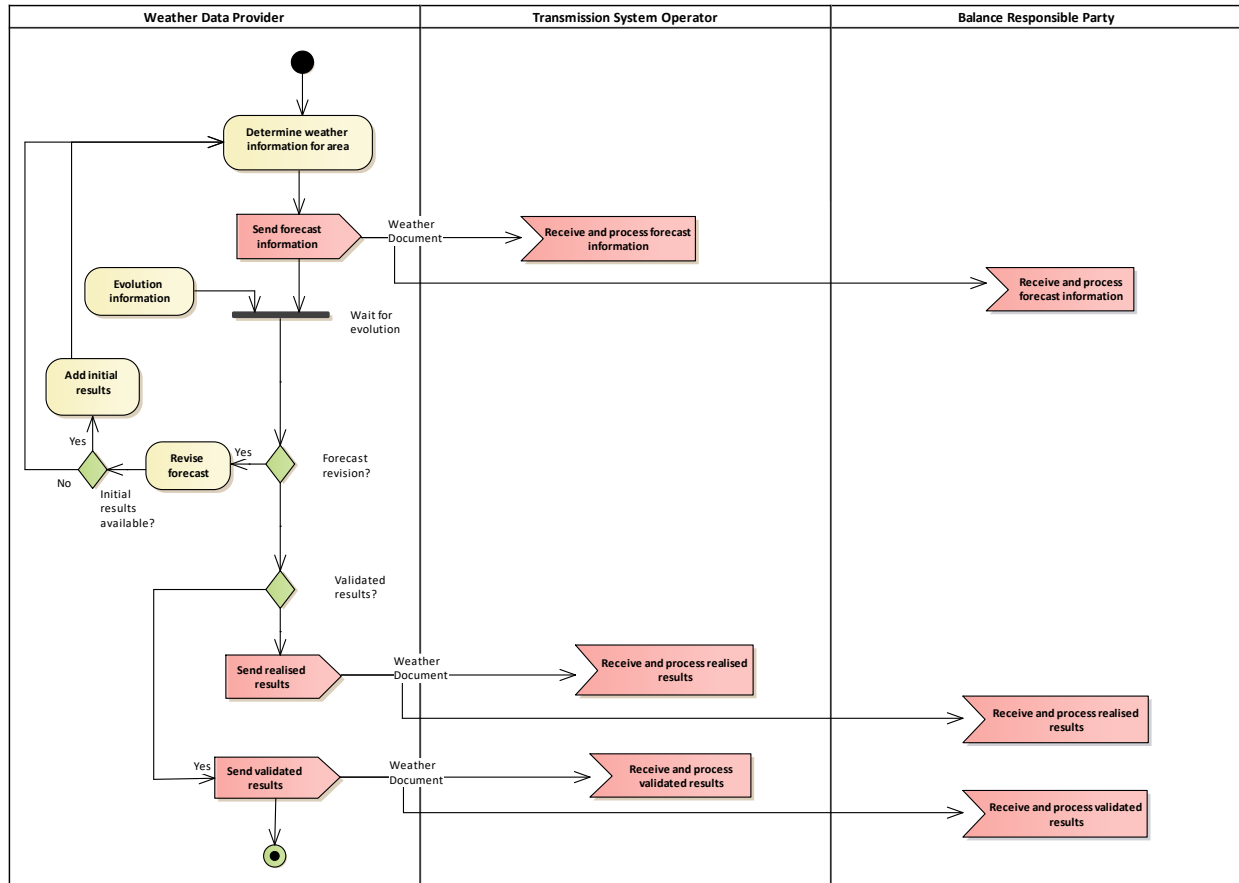
The Weather Data Provider, based on previous agreement, will assemble the required information together in a Weather Document. The information is assembled at the connection point level and the characteristics requested.

Once assembled, the Weather document is transmitted to the recipient.

On reception the recipient verifies if the information in the document is usable and if it transmits a positive acknowledgement to the originator. This terminates the Weather process.

If the information cannot be used the recipient transmits a negative acknowledgement to the originator.

The originator resolves the inconsistencies and retransmits the Weather Document to the recipient.

Figure: 1 Weather information workflow91  
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## 3.2 Weather Document (WETHER)

### 3.2.1 Weather Document Contextual Model

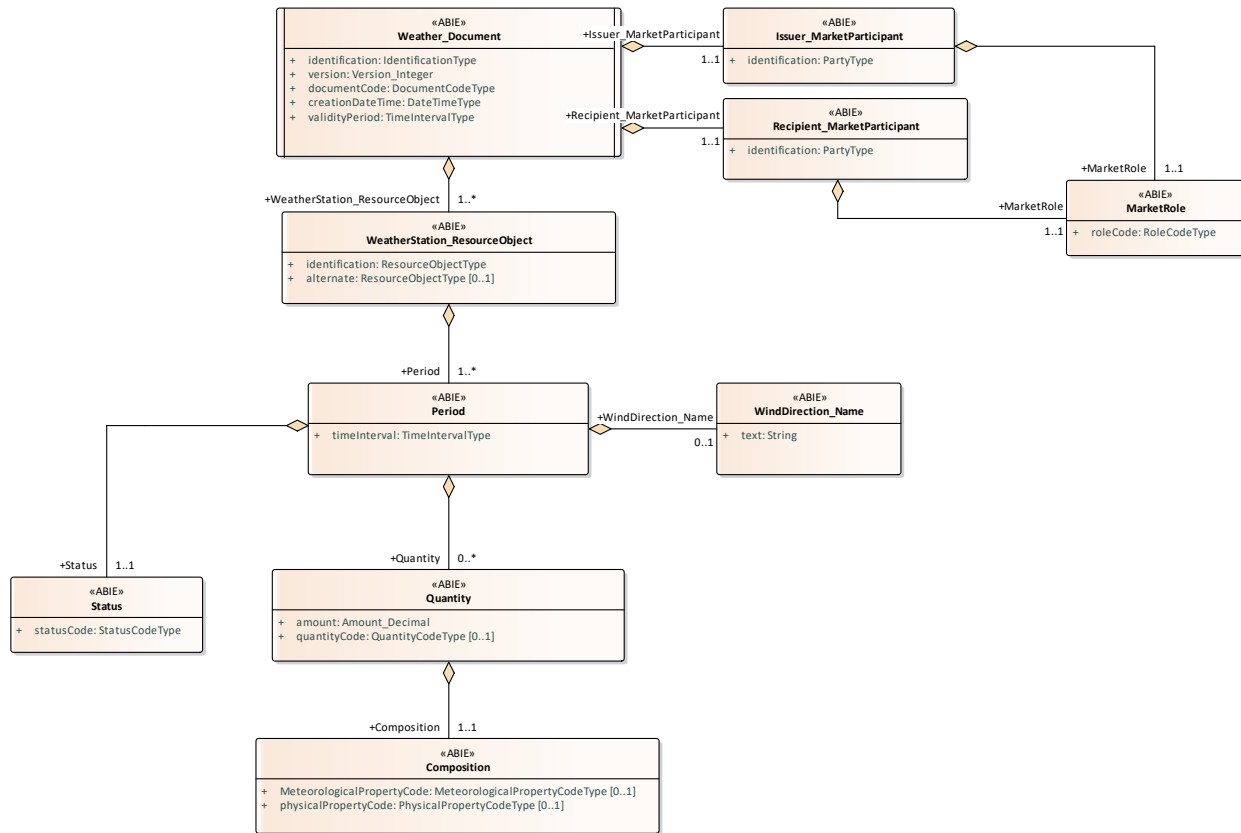


Figure: 2 Weather Document Contextual Model

### 3.2.2 Weather Document Assembly Model

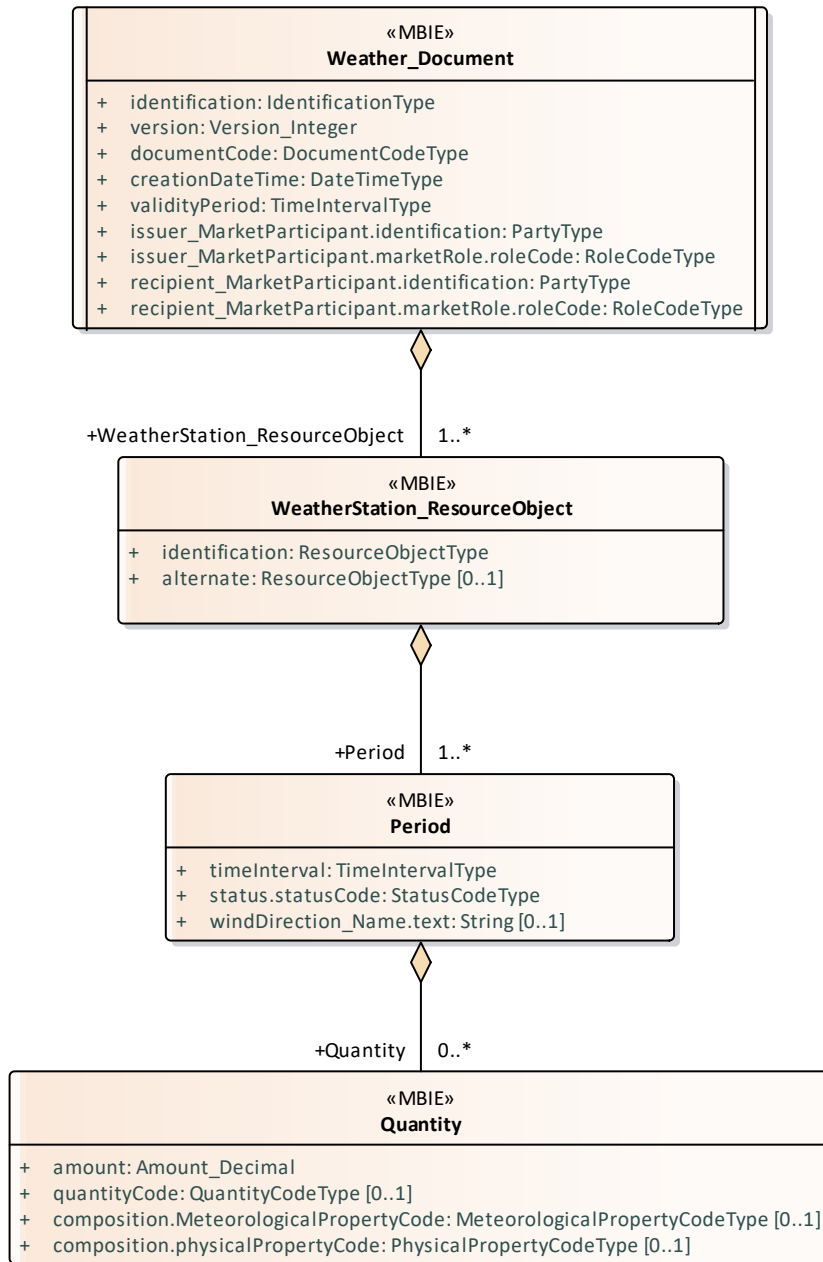


Figure: 3 **Weather Document Assembly Model**



### 3.2.2.1 Weather\_Document

This class provides the basic information needed to describe most electronic documents.

#### 3.2.2.1.1 Attributes

| Attribute                                       | Description   | Multiplicity |
|---|---|--------------|
| identification                                  | A unique identification of a document that is assigned by the issuer.<br>This identifies the document being reported.   |              |
| version   | Version of the document being sent.<br>The first version number for a given document identification shall normally be 1.<br>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.<br>The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document. |              |
| documentCode                                    | Coded representation of the type of the electronic document.  |              |
| creationDateTime                                | Date and time of the creation of the current document expressed in UTC.   |              |
| validityPeriod                                  | The start and end date and time of the period of validity covered in the document.  |              |
| issuer_MarketParticipant.identification         | The identification of the party participating in the market.<br>--- The issuer of the Document.   |              |
| issuer_MarketParticipant.marketRole.roleCode    | A code identifying the role played by a market participant in the market.<br><br>--- The issuer of the Document.<br>--- The role of the issuer.   |              |
| recipient_MarketParticipant.identification      | The identification of the party participating in the market.<br>--- The recipient of the document.  |              |
| recipient_MarketParticipant.marketRole.roleCode | A code identifying the role played by a market participant in the market.<br><br>--- The recipient of the document.<br>--- The role of the recipient.   |              |

### 3.2.2.2 WeatherStation\_ResourceObject

The identification of a resource object.

There may be as many Weather Station Resource Object classes as required to provide all the forecast or results information.

A weather station may be a main station or an alternate station to the main one. The alternate station is used in the case of the main station not operating.

#### 3.2.2.2.1 Attributes

| Attribute      | Description   | Multiplicity |
|----------------|---|--------------|
| identification | The identification of a resource object.  |              |
| alternate      | The identification of a resource object that can be used as an alternate to the main resource object. | [0..1]       |

### 3.2.2.3 Period

The period that the dependent information is for.

The main characteristics are optional to enable no value to be provided if there is none available. If a weather station has no information available then an appropriate status should be given.

#### 3.2.2.3.1 Attributes

| Attribute               | Description   | Multiplicity |
|-------------------------|---|--------------|
| timeInterval            | The start and end date and time for the period. The time is expressed in UTC.                                 |              |
| status.statusCode       | A code providing the status of an object.   |              |
| windDirection_Name.text | A string of characters providing the name of an object.<br>--- The name of the wind direction being reported. | [0..1]       |

### 3.2.2.4 Quantity

The quantity of an object.

#### 3.2.2.4.1 Attributes

| Attribute                               | Description   | Multiplicity |
|---|---|--------------|
| amount                                  | The amount of a quantity.<br>This information defines the quantity being reported for the characteristic in question. |              |
| quantityCode                            | A code defining the type of a quantity.   | [0..1]       |
| composition.MeteorologicalProperty Code |   | [0..1]       |
| composition.physicalPropertyCode        | A code defining a physical property.  | [0..1]       |

## 4 Document Change Log

### 4.1 Version

#### 4.1.1 Attributes

| Attribute            | Description      | Multiplicity |
|----------------------|------------------|--------------|
| Version 1 2020-06-29 | Initial release. |              |