

# Edig@s Datatype Documentation for Electronic Documents



The European message format for the gas market

*Version 6.1*

*Document Version: 2*

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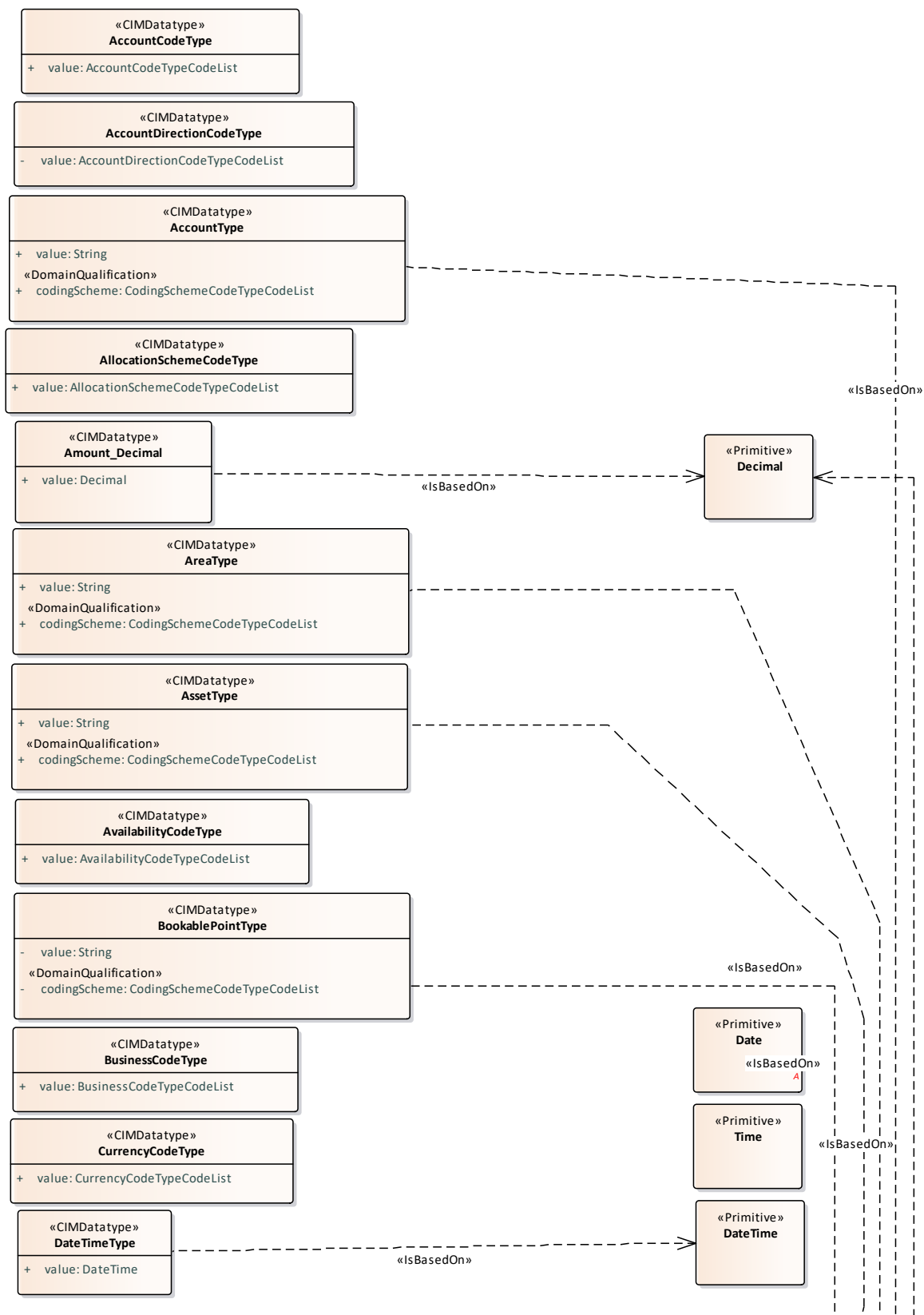
# 1 Datatype Model Detail

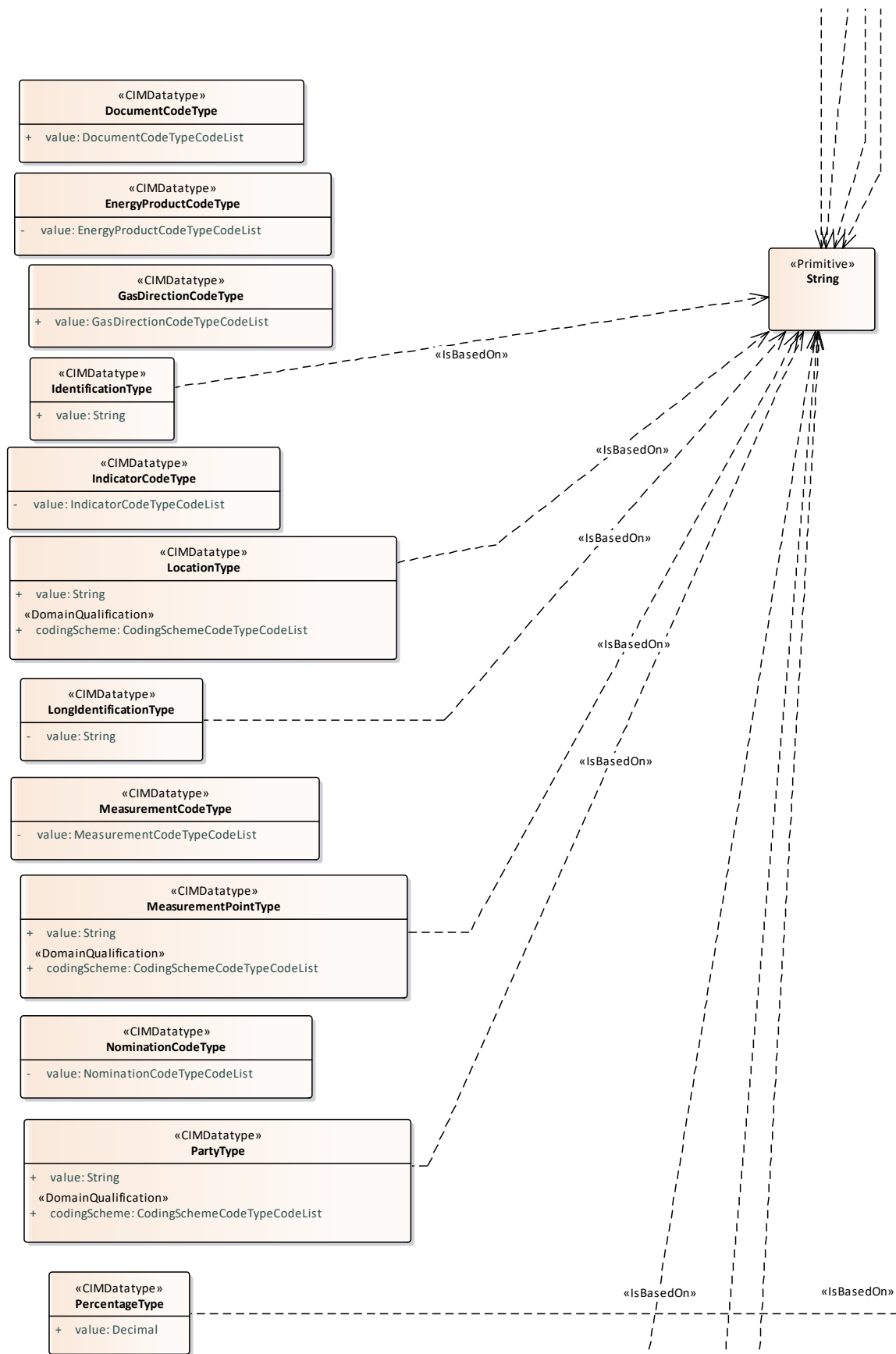
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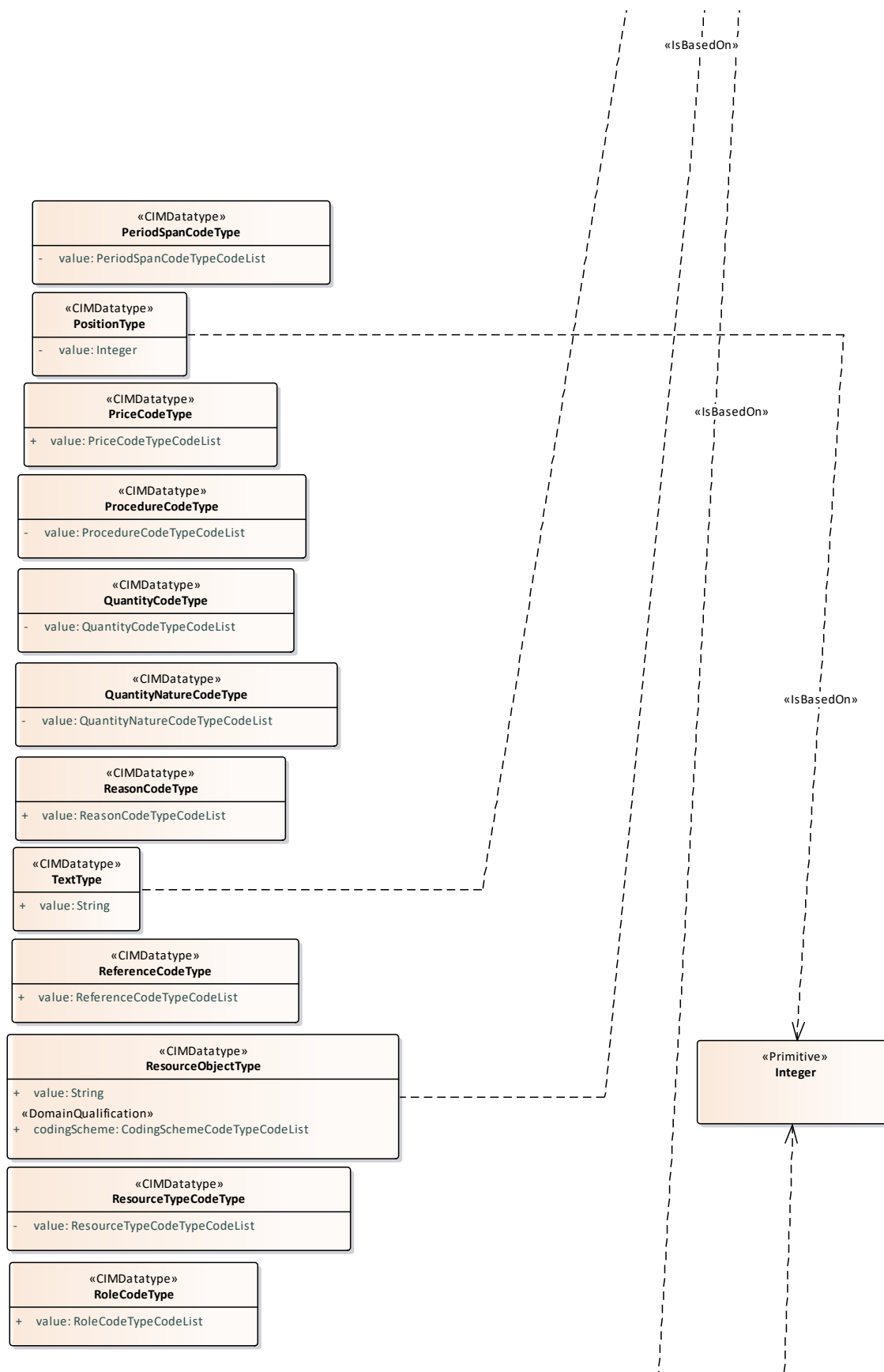
This document provides the complete list of Edig@s Datatypes.

## 181 2 Edig@s Datatypes









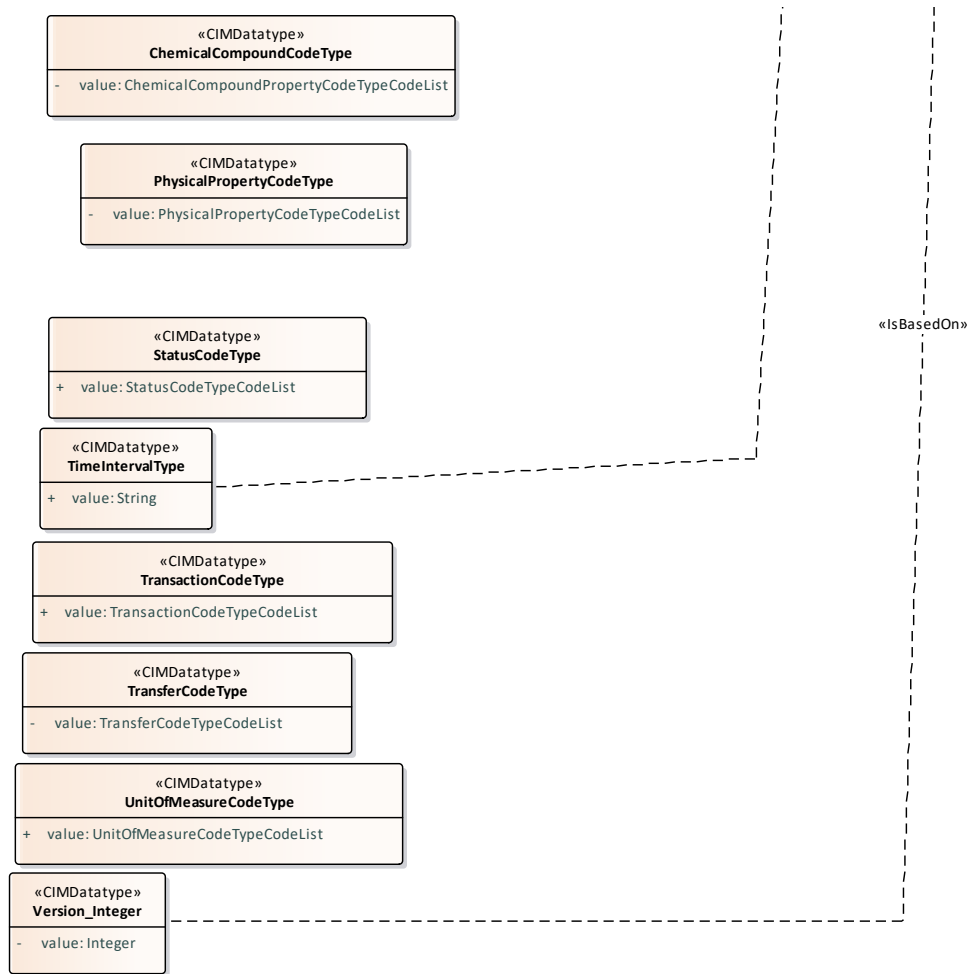


Figure: 1 Datatypes

185  
186  
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## 3 Datatype list

### 3.1 Date Stereotype «Primitive»

The identification of a particular calendar day, expressed by some combination of the data elements calendar year, calendar month, calendar week, calendar day or day of the year.

### 3.2 Time Stereotype «Primitive»

The time of the day that respects the ISO 8601 formatting standard.

### 3.3 DateTime Stereotype «Primitive»

The date and time that respects the ISO 8601 formatting standard.

### 3.4 Decimal Stereotype «Primitive»

A number that may have a fraction separated by a decimal point.

### 3.5 Integer Stereotype «Primitive»

A whole value without a decimal fraction.

### 3.6 String Stereotype «Primitive»

A suite of alphanumeric characters.

### 3.7 AccountCodeType Stereotype «CIMDatatype»

A datatype for a codelist identifying the type of an account.

#### 3.7.1 List of Attributes

| Name  | Datatype                | Constraints |
|-------|-------------------------|-------------|
| value | AccountCodeTypeCodeList |             |

### 3.8 AccountDirectionCodeType Stereotype «CIMDatatype»

A datatype for a codelist indicating whether an account entry is debit or credit.

#### 3.8.1 List of Attributes

| Name  | Datatype                         | Constraints |
|-------|----------------------------------|-------------|
| value | AccountDirectionCodeTypeCodeList |             |

### 3.9 AccountType Stereotype «CIMDatatype»

A datatype identifying an account and its associated coding scheme.

#### 3.9.1 List of Attributes

| Name         | Datatype                     | Constraints   |
|--------------|------------------------------|---|
| value        | String                       | Type: OCL<br>Facet: maxLength<br>Detail: inv: self->maxLength(35) |
| codingScheme | CodingSchemeCodeTypeCodeList |   |

### 3.10 AllocationSchemeCodeType Stereotype «CIMDatatype»

A code list specifying various categories of status of a value.

#### 3.10.1 List of Attributes

| Name | Datatype | Constraints |
|------|----------|-------------|
|------|----------|-------------|

|       |                                  |  |
|-------|----------------------------------|--|
| value | AllocationSchemeCodeTypeCodeList |  |
|-------|----------------------------------|--|

## 3.11 Amount\_Decimal Stereotype «CIMDatatype»

An amount that may be expressed as a decimal value.

### 3.11.1 List of Attributes

| Name  | Datatype | Constraints   |
|-------|----------|---|
| value | Decimal  | Type: OCL<br>Facet: fractionDigits<br>Detail: inv: self->fractionDigits(6)<br>Type: OCL<br>Facet: totalDigits<br>Detail: inv: self->TotalDigits(17) |

## 3.12 AreaType Stereotype «CIMDatatype»

An identification of an area within the gas environment and its associated coding scheme..

### 3.12.1 List of Attributes

| Name         | Datatype                     | Constraints   |
|--------------|------------------------------|---|
| value        | String                       | Type: OCL<br>Facet: maxLength<br>Detail: inv: self->maxLength(16) |
| codingScheme | CodingSchemeCodeTypeCodeList |   |

## 3.13 AssetType Stereotype «CIMDatatype»

An identification of an asset within the gas environment and its associated coding scheme..

### 3.13.1 List of Attributes

| Name         | Datatype                     | Constraints   |
|--------------|------------------------------|---|
| value        | String                       | Type: OCL<br>Facet: maxLength<br>Detail: inv: self->maxLength(16) |
| codingScheme | CodingSchemeCodeTypeCodeList |   |

## 3.14 AvailabilityCodeType Stereotype «CIMDatatype»

A codelist identifying various kinds of gas availability.

### 3.14.1 List of Attributes

| Name  | Datatype                     | Constraints |
|-------|------------------------------|-------------|
| value | AvailabilityCodeTypeCodeList |             |

## 3.15 BookablePointType Stereotype «CIMDatatype»

A bookable point may be defined as the identification of a (inter)connection point (EIC), the flow direction, the “to TSO” and “from TSO” or in the case of one Transmission System Operator at both sides of the connection point the “to Market area” and the “from Market area”; in case of an unbundled point “to TSO” or “from TSO” is not required.

### 3.15.1 List of Attributes

| Name  | Datatype | Constraints   |
|-------|----------|---|
| value | String   | Type: OCL<br>Facet: maxLength<br>Detail: inv: self->maxLength(35) |

|              |                              |  |
|--------------|------------------------------|--|
|              |                              |  |
| codingScheme | CodingSchemeCodeTypeCodeList |  |

### 3.16 BusinessCodeType Stereotype «CIMDatatype»

A codelist identifying the business meaning of an item.

#### 3.16.1 List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | BusinessCodeTypeCodeList |             |

### 3.17 CapacityCodeType Stereotype «CIMDatatype»

A codelist indicating whether capacity is of a bundled or unbundles nature.

#### 3.17.1 List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | CapacityCodeTypeCodeList |             |

### 3.18 ChemicalCompoundCodeType Stereotype «CIMDatatype»

A code list identifying chemical compound property types of information.

#### 3.18.1 List of Attributes

| Name  | Datatype                                 | Constraints |
|-------|--|-------------|
| value | ChemicalCompoundPropertyCodeTypeCodeList |             |

### 3.19 CurrencyCodeType Stereotype «CIMDatatype»

A codelist identifying a currency respecting the ISO 4217 standard.

#### 3.19.1 List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | CurrencyCodeTypeCodeList |             |

### 3.20 DateTimeType Stereotype «CIMDatatype»

A date and time that respects the ISO 8601 formatting standard.

#### 3.20.1 List of Attributes

| Name  | Datatype | Constraints |
|-------|----------|-------------|
| value | DateTime |             |

### 3.21 DocumentCodeType Stereotype «CIMDatatype»

A codelist identifying a type of document.

#### 3.21.1 List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | DocumentCodeTypeCodeList |             |

### 3.22 EnergyProductCodeType Stereotype «CIMDatatype»

A codelist identifying a type of gas.

#### 3.22.1 List of Attributes

| Name  | Datatype                      | Constraints |
|-------|-------------------------------|-------------|
| value | EnergyProductCodeTypeCodeList |             |

## 3.23 FormulaType Stereotype «CIMDatatype»

An identification of a formula used to calculate a quantity.

### 3.23.1 List of Attributes

| Name  | Datatype | Constraints |
|-------|----------|-------------|
| value | String   |             |

## 3.24 GasDirectionCodeType Stereotype «CIMDatatype»

A codelist identifying a gas direction.

### 3.24.1 List of Attributes

| Name  | Datatype                     | Constraints |
|-------|------------------------------|-------------|
| value | GasDirectionCodeTypeCodeList |             |

## 3.25 IdentificationType Stereotype «CIMDatatype»

The identification of an object.

### 3.25.1 List of Attributes

| Name  | Datatype | Constraints  |
|-------|----------|--|
| value | String   | Type: OCL<br>Facet:maxLength<br>Detail: inv: self->maxLength(35) |

## 3.26 IndicatorCodeType Stereotype «CIMDatatype»

A list of two mutually exclusive Boolean values that express the only possible states of a property.

### 3.26.1 List of Attributes

| Name  | Datatype                  | Constraints |
|-------|---------------------------|-------------|
| value | IndicatorCodeTypeCodeList |             |

## 3.27 LocationType Stereotype «CIMDatatype»

The identification of a location and its associated coding scheme.

### 3.27.1 List of Attributes

| Name         | Datatype                     | Constraints  |
|--------------|------------------------------|--|
| value        | String                       | Type: OCL<br>Facet:maxLength<br>Detail: inv: self->maxLength(16) |
| codingScheme | CodingSchemeCodeTypeCodeList |  |

## 3.28 LongIdentificationType Stereotype «CIMDatatype»

An identification that is greater than 35 characters long. The maximum length permitted 512 characters.

### 3.28.1 List of Attributes

| Name  | Datatype | Constraints   |
|-------|----------|---|
| value | String   | Type: OCL<br>Facet:maxLength<br>Detail: inv: self->maxLength(512) |

## 3.29 MeasurementCodeType Stereotype «CIMDatatype»

272 A code list identifying a type or location of a measure unit.

### 273 **3.29.1** List of Attributes

| Name  | Datatype                    | Constraints |
|-------|-----------------------------|-------------|
| value | MeasurementCodeTypeCodeList |             |

## 274 **3.30 MeasurementPointType Stereotype «CIMDatatype»**

275 The identification of an (inter)connection point and its associated coding scheme.

### 276 **3.30.1** List of Attributes

| Name         | Datatype                     | Constraints  |
|--------------|------------------------------|--|
| value        | String                       | Type: OCL<br>Facet:maxLength<br>Detail: inv: self->maxLength(35) |
| codingScheme | CodingSchemeCodeTypeCodeList |  |

## 277 **3.31 MeteorologicalPropertyCodeType Stereotype «CIMDatatype»**

279 A code list identifying meteorological types of information.

### 280 **3.31.1** List of Attributes

| Name  | Datatype                               | Constraints |
|-------|--|-------------|
| value | MeteorologicalPropertyCodeTypeCodeList |             |

## 281 **3.32 NominationCodeType Stereotype «CIMDatatype»**

282 The identification of a type of nomination.

### 283 **3.32.1** List of Attributes

| Name  | Datatype                   | Constraints |
|-------|----------------------------|-------------|
| value | NominationCodeTypeCodeList |             |

## 284 **3.33 PartyType Stereotype «CIMDatatype»**

285 The identification of a market participant and its associated coding scheme.

### 286 **3.33.1** List of Attributes

| Name         | Datatype                     | Constraints  |
|--------------|------------------------------|--|
| value        | String                       | Type: OCL<br>Facet:maxLength<br>Detail: inv: self->maxLength(16) |
| codingScheme | CodingSchemeCodeTypeCodeList |  |

## 287 **3.34 PercentageType Stereotype «CIMDatatype»**

288 The expression of a percentage.

### 289 **3.34.1** List of Attributes

| Name  | Datatype | Constraints  |
|-------|----------|--|
| value | Decimal  | Type: OCL<br>Facet:totalDigits<br>Detail: inv: self->totalDigits(17) |

### 3.35 PeriodSpanCodeType Stereotype «CIMDatatype»

A codelist specifying various standardised periods in time.

#### 3.35.1 List of Attributes

| Name  | Datatype                   | Constraints |
|-------|----------------------------|-------------|
| value | PeriodSpanCodeTypeCodeList |             |

### 3.36 PhysicalPropertyCodeType Stereotype «CIMDatatype»

A code list identifying physical property types of information.

#### 3.36.1 List of Attributes

| Name  | Datatype                         | Constraints |
|-------|----------------------------------|-------------|
| value | PhysicalPropertyCodeTypeCodeList |             |

### 3.37 PositionType Stereotype «CIMDatatype»

The identification of a position in a sequential order.

#### 3.37.1 List of Attributes

| Name  | Datatype | Constraints |
|-------|----------|-------------|
| value | Integer  |             |

### 3.38 PriceCodeType Stereotype «CIMDatatype»

A code list identifying the type of a given price amount.

#### 3.38.1 List of Attributes

| Name  | Datatype              | Constraints |
|-------|-----------------------|-------------|
| value | PriceCodeTypeCodeList |             |

### 3.39 ProcedureCodeType Stereotype «CIMDatatype»

A code list identifying the auction procedure used in an auction.

#### 3.39.1 List of Attributes

| Name  | Datatype                  | Constraints |
|-------|---------------------------|-------------|
| value | ProcedureCodeTypeCodeList |             |

### 3.40 QuantityCodeType Stereotype «CIMDatatype»

A code list identifying different types of quantity.

#### 3.40.1 List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | QuantityCodeTypeCodeList |             |

### 3.41 QuantityNatureCodeType Stereotype «CIMDatatype»

A code list identifying the nature of the gas.

#### 3.41.1 List of Attributes

| Name  | Datatype                       | Constraints |
|-------|--------------------------------|-------------|
| value | QuantityNatureCodeTypeCodeList |             |

### 3.42 ReasonCodeType Stereotype «CIMDatatype»

A code list identifying the reason of an act.

#### 3.42.1 List of Attributes



| Name  | Datatype               | Constraints |
|-------|------------------------|-------------|
| value | ReasonCodeTypeCodeList |             |

### 3.43 ReferenceCodeType Stereotype «CIMDatatype»

The identification of a reference.

#### 3.43.1 List of Attributes

| Name  | Datatype                  | Constraints |
|-------|---------------------------|-------------|
| value | ReferenceCodeTypeCodeList |             |

### 3.44 ResourceObjectType Stereotype «CIMDatatype»

The identification of a given resource object and its associated coding scheme.

#### 3.44.1 List of Attributes

| Name         | Datatype                     | Constraints   |
|--------------|------------------------------|---|
| value        | String                       | Type: OCL<br>Facet: maxLength<br>Detail: inv: self->maxLength(16) |
| codingScheme | CodingSchemeCodeTypeCodeList |   |

### 3.45 ResourceTypeCodeType Stereotype «CIMDatatype»

A code list identifying a gas resource.

#### 3.45.1 List of Attributes

| Name  | Datatype                     | Constraints |
|-------|------------------------------|-------------|
| value | ResourceTypeCodeTypeCodeList |             |

### 3.46 RoleCodeType Stereotype «CIMDatatype»

A code list identifying various market roles within the gas sector.

#### 3.46.1 List of Attributes

| Name  | Datatype             | Constraints |
|-------|----------------------|-------------|
| value | RoleCodeTypeCodeList |             |

### 3.47 StatusCodeType Stereotype «CIMDatatype»

A code list identifying the status of an object.

#### 3.47.1 List of Attributes

| Name  | Datatype               | Constraints |
|-------|------------------------|-------------|
| value | StatusCodeTypeCodeList |             |

### 3.48 TextType Stereotype «CIMDatatype»

A textual description of a reason.

#### 3.48.1 List of Attributes

| Name  | Datatype | Constraints  |
|-------|----------|--|
| value | String   | Type: OCL<br>Facet: maxlength<br>Detail: inv: self->maxLength(512) |

### 3.49 TimeIntervalType Stereotype «CIMDatatype»

The identification of an interval of time expressed using ISO 8601.

### 334 3.49.1 List of Attributes

| Name  | Datatype | Constraints  |
|-------|----------|--|
| value | String   | Type: OCL<br>Facet: pattern<br>Detail: inv: self->Pattern((((((20[0-9]{2})[\-](0[13578]1[02])[\-](0[1-9]12[0-9]3[01])((0[0-9]{4})[\-](0[469])(11))[\-](0[1-9]12[0-9]30))T((01[0-9]2[0-3]):[0-5][0-9])Z)/)(([13579]26[02468]048][13579]01345789)(0[48][13579]01345789[2468]048)[02468]048)[02468]1235679)(0[48][02468]1235679[2468]048)[0-9][0-9][13579]26)[\-](02)[\-](0[1-9]1[0-9]2[0-9])T((01[0-9]2[0-3]):[0-5][0-9])Z)/)(([13579]26[02468]1235679)[13579]01345789)(0[01235679][13579]01345789[2468]1235679)[02468]048)[02468]1235679)(0[01235679][02468]1235679[2468]1235679)[0-9][0-9][13579]01345789)[\-](02)[\-](0[1-9]1[0-9]2[0-8])T((01[0-9]2[0-3]):[0-5][0-9])Z)/((((0[0-9]{4})-(0[13578]1[02])[\-](0[1-9]12[0-9]3[01])((0[0-9]{4})[\-](0[469])(11))[\-](0[1-9]12[0-9]30))T((01[0-9]2[0-3]):[0-5][0-9])Z)/)(([13579]26[02468]048][13579]01345789)(0[48][13579]01345789[2468]048)[02468]048)[02468]1235679)(0[48][02468]1235679[2468]048)[0-9][0-9][13579]26)[\-](02)[\-](0[1-9]1[0-9]2[0-8])T((01[0-9]2[0-3]):[0-5][0-9])Z)/((((0[0-9]{4})-(0[13578]1[02])[\-](0[1-9]12[0-9]3[01])((0[0-9]{4})[\-](0[469])(11))[\-](0[1-9]12[0-9]30))T((01[0-9]2[0-3]):[0-5][0-9])Z)/)(([13579]26[02468]048][13579]01345789)(0[48][13579]01345789[2468]048)[02468]048)[02468]1235679)(0[48][02468]1235679[2468]048)[0-9][0-9][13579]26)[\-](02)[\-](0[1-9]1[0-9]2[0-8])T((01[0-9]2[0-3]):[0-5][0-9])Z)))) |

### 335 3.50 TransactionCodeType Stereotype «CIMDatatype»

336 A code list identifying a specific type of transaction.

#### 337 3.50.1 List of Attributes

| Name  | Datatype                    | Constraints |
|-------|-----------------------------|-------------|
| value | TransactionCodeTypeCodeList |             |

### 338 3.51 TransferCodeType Stereotype «CIMDatatype»

339 A code list identifying the nature of a transfer.

### 340 **3.51.1** List of Attributes

| Name  | Datatype                 | Constraints |
|-------|--------------------------|-------------|
| value | TransferCodeTypeCodeList |             |

## 341 **3.52 UnitOfMeasureCodeType Stereotype «CIMDatatype»**

342 A code list identifying a unit of measure that respects the UN Recommendation 19 specification.

### 343 **3.52.1** List of Attributes

| Name  | Datatype                      | Constraints |
|-------|-------------------------------|-------------|
| value | UnitOfMeasureCodeTypeCodeList |             |

## 344 **3.53 Version\_Integer Stereotype «CIMDatatype»**

345 The specification of a sequential suite of a document in numeric form.

### 346 **3.53.1** List of Attributes

| Name  | Datatype | Constraints  |
|-------|----------|--|
| value | Integer  | Type: OCL<br>Facet: maxInclusive<br>Detail: inv: self->maxInclusive(999) |

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## 4 Document Change Log

### 4.1 Version

| Name                 | Datatype  | Constraints |
|----------------------|---|-------------|
| Version 1 2020-06-29 | Initial release   |             |
| Version 2 2021-03-23 | Release 6.1<br>Corrected validation for length of code for<br>resourceObject to MaxLength(16) |             |