

List of stereotype to categorize subProfiles ShortCircuit Description Operation European Abstract Entsoe

Concrete Classes

AccountingPoint

RTD assembly model

An administrative point where Energy Supplier change can take place and for which commercial business processes are defined.

Native Members

description	0..1	<u>String</u>	The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.
mRID	1..1	<u>MeasurementPointID_String</u>	<p>A unique identification of the measurement point.</p> <p>In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification.</p> <p>Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context.</p> <p>Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this.</p> <p>For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.</p>

AccountingPoint

RTD contextual model

An administrative point where Energy Supplier change can take place and for which commercial business processes are defined.

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mRID	1..1	<u>MeasurementPointID_String</u>	<p>A unique identification of the measurement point.</p> <p>In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification.</p>

substations, etc.) identification.

Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context.

Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this.

For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.

DateAndOrTime

RTD contextual model

The Date and or the Time.

Native Members

dateTime	0 .. 1	DateTime	Date and time as per ISO 8601 YYYY-MM-DDThh:mm:ss.sssZ.
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MessageDocumentHeader

RTD contextual model

Native Members

creationDateTime	0 .. 1	ESMP_DateTime
MetaInformation	[0 .. 1]	MetaInformation

MetaInformation

RTD contextual model

Native Members

asset	0 .. 1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message.
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Note:

This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.

connectionId	0 .. 1	String	A reference (id) to the established connection used for the communication of this document.
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dataNeedId	0 .. 1	String	A reference (id) to a predefined filter on a documentType sometimes in combination with a specific timeperiod.
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Note:

e.g. Near realtime data for the past 3 month for

electricity only.

dataSourceId	0..1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
documentType	0..1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
finalCustomerId	0..1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
requestPermissionId	0..1	String	
Region	[0..1]	Region	

[Quantity](#)

[RTD contextual model](#)

Description of quantities needed in the data exchange.

The type of the quantity is described either by the role of the association or the quantityType attribute.

The quality attribute provides the information about the quality of the quantity (measured, estimated, etc.).

Native Members

quality	0..1	Quality_String	The description of the quality of the quantity.
quantity	1..1	Decimal	The quantity value. The association role provides the information about what is expressed.
type	1..1	QuantityTypeKind	The description of the type of the quantity.

Quantity

RTD assembly model

Description of quantities needed in the data exchange.

The type of the quantity is described either by the role of the association or the quantityType attribute.

The quality attribute provides the information about the quality of the quantity (measured, estimated, etc.).

Native Members

quality	0 .. 1	Quality_String	The description of the quality of the quantity.
quantity	1 .. 1	Decimal	The quantity value. The association role provides the information about what is expressed.
type	1 .. 1	QuantityTypeKind	The description of the type of the quantity.

Region

RTD contextual model

Native Members

connector	0 .. 1	String
country	0 .. 1	String

RegisteredResource

RTD contextual model

A resource that is registered through the market participant registration system. Examples include generating unit, load, and non-physical generator or load.

Native Members

mRID	1 .. 1	ResourceID_String	The unique identification of a resource. In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification. Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context. Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this. For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
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RTD_Envelope

RTD assembly model

Native Members

<code>messageDocumentHeader.creationDateTime</code>	0..1	ESMP_DateTime	
<code>messageDocumentHeader.metaInformation.asset</code>	0..1	String	<p>A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message.</p> <p>Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.</p>
<code>messageDocumentHeader.metaInformation.connectionId</code>	0..1	String	<p>A reference (id) to the established connection used for the communication of this document.</p>
<code>messageDocumentHeader.metaInformation.dataNeedId</code>	0..1	String	<p>A reference (id) to a predefined filter on a documentType sometimes in combination with a specific timeperiod.</p> <p>Note: e.g. Near realtime data for the past 3 month for electricity only.</p>
<code>messageDocumentHeader.metaInformation.dataSourceId</code>	0..1	String	<p>A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message.</p> <p>Note: This is applicable if you have the need to know the content without having to open</p>

the complete document.
DocumentType might contain messages not (yet) part of the MessageTypeList.

messageDocumentHeader.metaInformation.documentType	0..1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
messageDocumentHeader.metaInformation.finalCustomerId	0..1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
messageDocumentHeader.metaInformation.region.connector	0..1	String	
messageDocumentHeader.metaInformation.region.country	0..1	String	
messageDocumentHeader.metaInformation.requestPermissionId	0..1	String	
MarketDocument	[0..1]	RTD_MarketDocument	

RTD_Envelope

RTD contextual model

Native Members

MessageDocumentHeader [0..1] [MessageDocumentHeader](#)

MarketDocument [0..1] [RTD_MarketDocument](#)

RTD_MarketDocument

RTD assembly model

Native Members

createdDateTime	1..1	ESMP_DateTime	The date and time of the creation of the document.
mRID	1..1	ID_String	<p>The unique identification of the document being exchanged within a business process flow.</p> <p>In the ESMP context, the "model authority" is defined as a party (originator of the exchange) that provides an identification in the context of a business exchange such as document identification, ...</p> <p>Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context.</p> <p>Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this.</p> <p>For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.</p>

RTD_MarketDocument

RTD contextual model

An electronic document containing the information necessary to satisfy the requirements of a given business process.

Native Members

createdDateTime	1..1	ESMP_DateTime	The date and time of the creation of the document.
mRID	1..1	ID_String	<p>The unique identification of the document being exchanged within a business process flow.</p> <p>In the ESMP context, the "model authority" is defined as a party (originator of the exchange) that provides an identification in the context of a business exchange such as document identification, ...</p> <p>Master resource identifier issued by a model</p>

authority. The mRID is globally unique within an exchange context.

Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this.

For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.

TimeSeries

RTD assembly model

A set of time-ordered quantities being exchanged in relation to a product.

In the ESMP profile, the TimeSeries provides not only time-ordered quantities but also time-ordered information.

Native Members

dateAndOrTime.dateTime 0 .. 1 [DateTime](#)

Date and time as per ISO 8601 YYYY-MM-DDThh:mm:ss.sssZ.

--- A date and/or time associated with a TimeSeries.

registeredResource.mRID 0 .. 1 [ResourceID_String](#)

The unique identification of a resource.

In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification.

Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context.

Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this.

For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.

--- The identification of a resource associated with a TimeSeries.

version 1 .. 1 [ESMPVersion_String](#)

The identification of the version of the time series.

TimeSeries

RTD contextual model

A set of time-ordered quantities being exchanged in relation to a product.

In the ESMP profile, the TimeSeries provides not only time-ordered quantities but also time-ordered information.

Native Members

version 1 .. 1 [ESMPVersion_String](#)

The identification of the version of the time series.

RegisteredResource [0 .. 1] [RegisteredResource](#)

The identification of a resource associated with

a TimeSeries.

DateAndOrTime	[1..1] DateAndOrTime	A date and/or time associated with a TimeSeries.
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Enumerations

[CodingSchemeTypeList](#)

[ESMPEnumerations](#)

Codification scheme used to identify the coding scheme used for the set of coded values to identify specific objects.

EIC	The coding scheme is the Energy Identification Coding Scheme (EIC), maintained by ENTSO-E.
GS1	The coding scheme for the preceding attribute is the Global Location Number (GLN 13) or Global Service Relation Number (GSRN 18), maintained by GS1.
Andorra National coding scheme	The National coding scheme of the country in question.
Albania National coding scheme	The National coding scheme of the country in question.
Armenia National coding scheme	The National coding scheme of the country in question.
Austria National coding scheme	The National coding scheme of the country in question.
Azerbaijan National coding scheme	The National coding scheme of the country in question.
Bosnia and Herzegovina National coding scheme	The National coding scheme of the country in question.
Belgium National coding scheme	The National coding scheme of the country in question.
Bulgaria National coding scheme	The National coding scheme of the country in question.
Switzerland National coding scheme	The National coding scheme of the country in question.
Serbia and Montenegro National coding scheme	The National coding scheme of the country in question.
Czech Republic National coding scheme	The National coding scheme of the country in question.
Germany National coding scheme	The National coding scheme of the country in question.

Denmark National coding scheme	The National coding scheme of the country in question.
Estonia National coding scheme	The National coding scheme of the country in question.
Spain National coding scheme	The National coding scheme of the country in question.
Finland National coding scheme	The National coding scheme of the country in question.
France National coding scheme	The National coding scheme of the country in question.
United Kingdom National coding scheme	The National coding scheme of the country in question.
Georgia National coding scheme	The National coding scheme of the country in question.
Gibraltar National coding scheme	The National coding scheme of the country in question.
Greece National coding scheme	The National coding scheme of the country in question.
Croatia National coding scheme	The National coding scheme of the country in question.
Hungary National coding scheme	The National coding scheme of the country in question.
Ireland National coding scheme	The National coding scheme of the country in question.
Italy National coding scheme	The National coding scheme of the country in question.
Kyrgyzstan National coding scheme	The National coding scheme of the country in question.
Kazakhstan National coding scheme	The National coding scheme of the country in question.
Liechtenstein National coding scheme	The National coding scheme of the country in question.
Lithuania National coding scheme	The National coding scheme of the country in question.
Luxembourg National coding scheme	The National coding scheme of the country in question.
Latvia National coding scheme	The National coding scheme of the country in question.

Morocco National coding scheme	The National coding scheme of the country in question.
Moldavia National coding scheme	The National coding scheme of the country in question.
Macedonia National coding scheme	The National coding scheme of the country in question.
Netherlands National coding scheme	The National coding scheme of the country in question.
Nordic Regional coding scheme	The coding scheme of the Nordic region which covers Denmark, Finland, Norway and Sweden.
Norway National coding scheme	The National coding scheme of the country in question.
Poland National coding scheme	The National coding scheme of the country in question.
Portugal National coding scheme	The National coding scheme of the country in question.
Romania National coding scheme	The National coding scheme of the country in question.
Russian Federation National coding scheme	The National coding scheme of the country in question.
Sweden National coding scheme	The National coding scheme of the country in question.
Slovenia National coding scheme	The National coding scheme of the country in question.
Slovakia National coding scheme	The National coding scheme of the country in question.
Turkey National coding scheme	The National coding scheme of the country in question.
Ukraine National coding scheme	The National coding scheme of the country in question.
CGM	The coding scheme used for Common Grid Model Exchange Standard (CGMES).
Cyprus National coding scheme	The National coding scheme of the country in question.

QualityTypeList

The quality of an object.

ESMPEnumerations

Adjusted	The contents of the object have been adjusted.
Not available	The contents of the object are not available.
Estimated	The contents of the object are estimated. The code is typically used when measured values are missing and an estimate is made based on historical data.
As provided	The contents of the object are as provided.
Incomplete	The contents of the object are calculated based on incomplete data.
Calculated	The contents of the object are calculated. The code is typically used when a value is calculated based on several other known values.

QuantityTypeKind**IEC62746DataTypes**

CEEDS specific enumeration for the mapping of OBIS codes in the DLMS/COSEM definition cf. IEC 62056

Total_Active_Energy_Consumed_kWh	OBIS Code: 1-0:1.8.0 ActiveEnergySumDrawn
Total_Active_Energy_Produced_kWh	OBIS Code: 1-0:2.8.0 ActiveEnergySumSupply
Instantaneous_Active_Power_Consumption_kw	OBIS Code: 1-0:1.7.0 ActivePowerRTDrawn
Instantaneous_Active_Power_Generation_kw	OBIS Code: 1-0:2.7.0 ActivePowerRTSupply
Instantaneous_Voltage_V_in_phase_L1	OBIS Code: 1-0:32.7.0 Instantaneous voltage (U) in phase L1 [V]
Instantaneous_Voltage_V_in_phase_L2	OBIS Code: 1-0:52.7.0 Instantaneous voltage (U) in phase L2 [V]
Instantaneous_Voltage_V_in_phase_L3	OBIS Code: 1-0:72.7.0 Instantaneous voltage (U) in phase L3 [V]
Instantaneous_Current_A_in_phase_L1	OBIS Code: 1-0:31.7.0 Instantaneous current (I) in phase L1 [A]
Instantaneous_Current_A_in_phase_L2	OBIS Code: 1-0:51.7.0 Instantaneous current (I) in phase L2 [A]
Instantaneous_Current_A_in_phase_L3	OBIS Code: 1-0:71.7.0 Instantaneous current (I) in phase L3[A]
Instantaneous_PowerFactor	OBIS Code: 1-0:13.7.0 Instantaneous power factor
Total_Active_Energy_Consumed_kWh_in_phase_L1	OBIS Code 1-0:21.8.0 Positive active energy (A+) in phase L1 total [kWh]

Total_Active_Energy_Consumed_kWh_in_phase_L2	OBIS Code 1-0:41.8.0 Positive active energy (A+) in phase L2 total [kWh]
Total_Active_Energy_Consumed_kWh_in_phase_L3	OBIS Code 1-0:61.8.0 Positive active energy (A+) in phase L3 total [kWh]
Total_Active_Energy_Produced_kWh_in_phase_L1	OBIS Code 1-0:22.8.0 Negative active energy (A+) in phase L1 total [kWh]
Total_Active_Energy_Produced_kWh_in_phase_L2	OBIS Code 1-0:42.8.0 Negative active energy (A+) in phase L2 total [kWh]
Total_Active_Energy_Produced_kWh_in_phase_L3	OBIS Code 1-0:62.8.0 Negative active energy (A+) in phase L3 total [kWh]
Instantaneous_Active_Power_Consumption_kw_in_phase_L1	OBIS Code: 1-0:21.7.0 Positive active instantaneous power (A+) in phase L1 [kW]
Instantaneous_Active_Power_Consumption_kw_in_phase_L2	OBIS Code: 1-0:41.7.0 Positive active instantaneous power (A+) in phase L2 [kW]
Instantaneous_Active_Power_Consumption_kw_in_phase_L3	OBIS Code: 1-0:61.7.0 Positive active instantaneous power (A+) in phase L3 [kW]
Instantaneous_Reactive_Power_Consumption_kvar	OBIS Code: 1-0:3.7.0 Positive reactive instantaneous power (Q+) [kvar]
Instantaneous_Reactive_Power_Consumption_kvar_in_phase_L1	OBIS Code: 1-0:23.7.0 Positive reactive instantaneous power (Q+) in phase L1 [kvar]
Instantaneous_Reactive_Power_Consumption_kvar_in_phase_L2	OBIS Code: 1-0:43.7.0 Positive reactive instantaneous power (Q+) in phase L2 [kvar]
Instantaneous_Reactive_Power_Consumption_kvar_in_phase_L3	OBIS Code: 1-0:63.7.0 Positive reactive instantaneous power (Q+) in phase L3 [kvar]
Instantaneous_Reactive_Power_Generation_kvar	OBIS Code: 1-0:4.7.0 Negative reactive instantaneous power (Q-) [kvar]
Instantaneous_Voltage_V	OBIS Code: 1-0:12.7.0 Instantaneous voltage (U) [V]
Instantaneous_Current_A	OBIS Code: 1-0:11.7.0 Instantaneous current (I) [A]
Instantaneous_Current_A_in_phase_neutral	OBIS Code: 1-0:91.7.0 Instantaneous current (I) in neutral [A]
Maximum_Current_A	OBIS Code: 1-0:11.6.0 Maximum current (I max) [A]
Maximum_Current_A_in_phase_L1	OBIS Code: 1-0:31.6.0 Maximum current (I max) in phase L1

[A]

Maximum_Current_A_in_phase_L2	OBIS Code: 1-0:51.6.0 Maximum current (I max) in phase L2[A]
Maximum_Current_A_in_phase_L3	OBIS Code: 1-0:51.6.0 Maximum current (I max) in phase L3 [A]
Instantaneous_Power_Factor_in_phase_L1	OBIS Code: 1-0:33.7.0 Instantaneous power factor in phase L1
Instantaneous_Power_Factor_in_phase_L2	OBIS Code: 1-0:53.7.0 Instantaneous power factor in phase L2
Instantaneous_Power_Factor_in_phase_L3	OBIS Code: 1-0:73.7.0 Instantaneous power factor in phase L3
Frequency_Hz	OBIS Code: 1-0:14.7.0 Frequency [Hz]

Compound types

Datatypes

MeasurementPointID_String

ESMPDataTypes

The coded identification of a domain covering a number of related objects, such as metering point, accounting point, etc.

In the ESMP context, it is an authorized issuing office that provides an agreed identification coding scheme for measurement point identification.

codingScheme	1..1	CodingSchemeTypeList	DomainQualification.
value	1..1	String	Main Core value Space.

ESMP_DateTime

ESMPDataTypes

In ESMP, the dateTime shall be expressed in UTC as YYYY-MM-DDThh:mm:ssZ.

value	1..1	DateTime	Main Core value Space.
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Quality_String

ESMPDataTypes

The coded identification of the quality of the information.

value	1..1	QualityTypeList	Main Core value Space.
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[ResourceID_String](#)[ESMPDataTypes](#)

The identification of a resource object in the energy market.

In the ESMP context, it is an authorized issuing office that provides an agreed identification coding scheme for resources (generator, lines, substations, etc.) identification.

codingScheme	1..1	CodingSchemeTypeList	DomainQualification.
value	1..1	String	Main Core value Space.

[ID_String](#)[ESMPDataTypes](#)

A code to uniquely distinguish one occurrence of an entity from another.

In the ESMP context, the code is defined either by:

- an emitting company that provides an agreed identification unique within a business context such as capacity auction identification, market agreement identification, etc.
- a party (originator of the exchange) that provides a unique identification in the framework of a business exchange such as document identification, time series identification, bid identification, ...

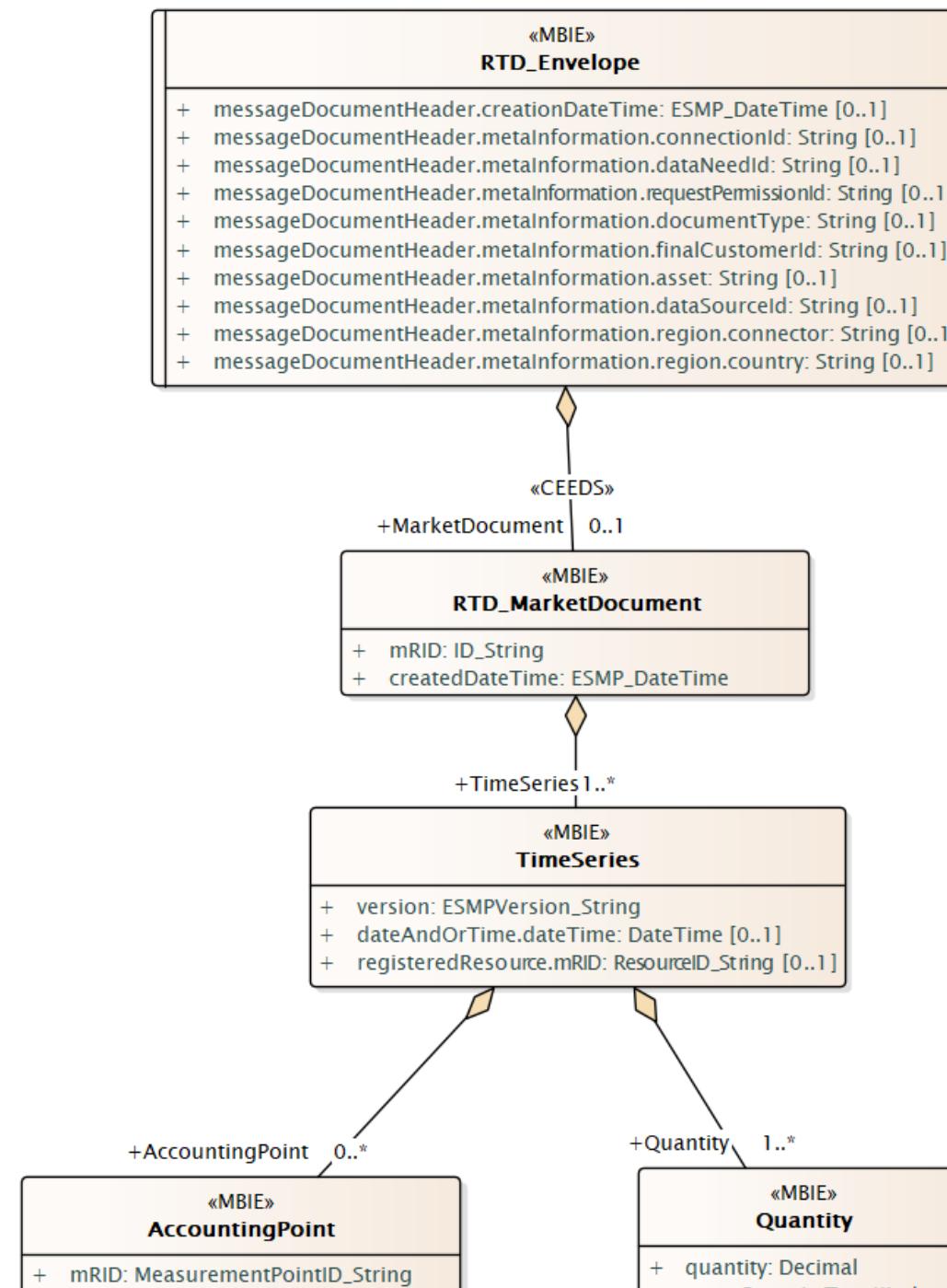
value	1..1	String	Main Core value Space.
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[ESMPVersion_String](#)[ESMPDataTypes](#)

In ESMP, the coded value is restricted to digits.

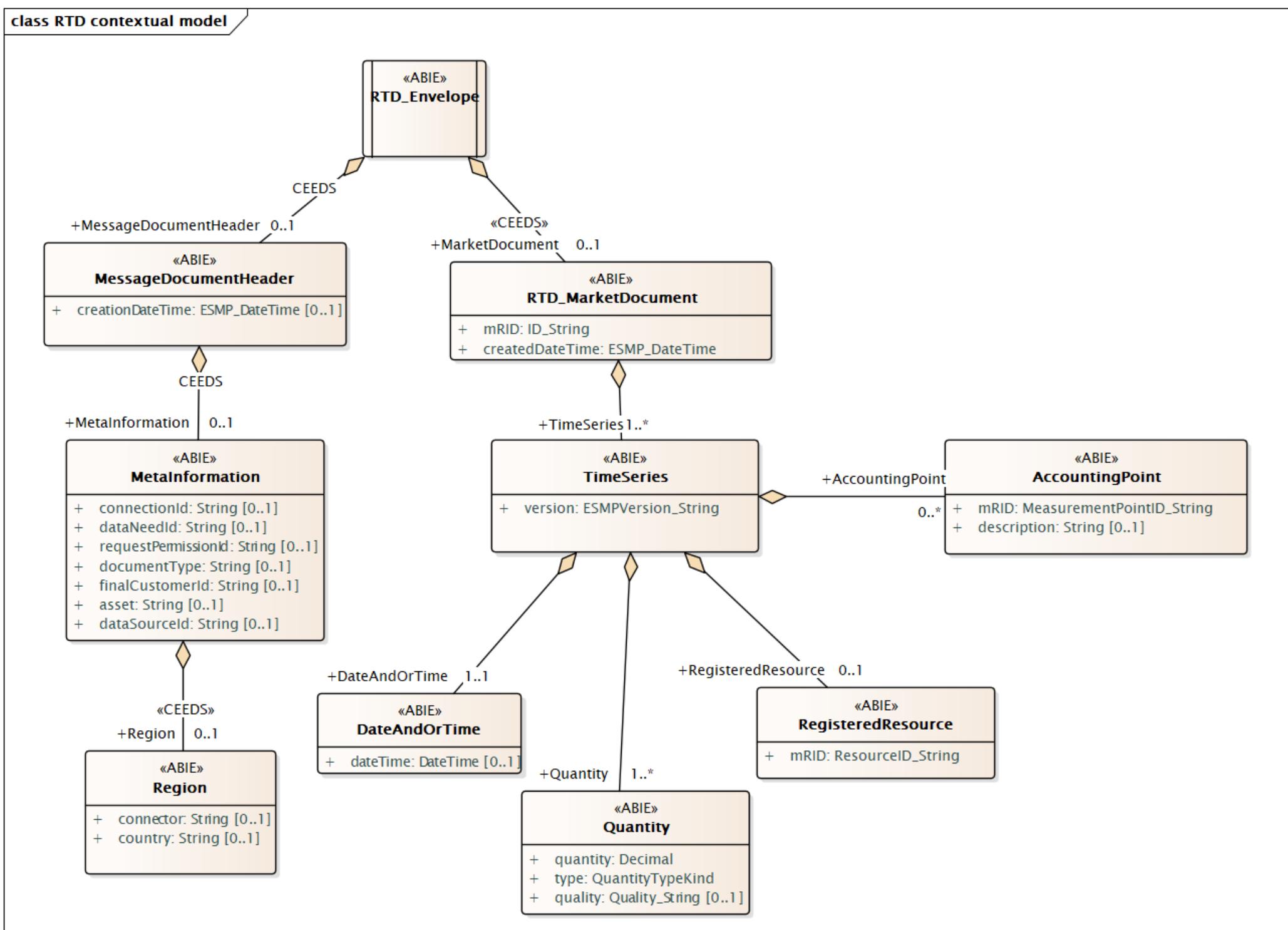
A code that distinguishes one evolution of an identified object from another. Information about a specific object may be sent several times, each transmission being identified by a different version number.

value	1..1	String	Main Core value Space.
--------------	------	------------------------	------------------------

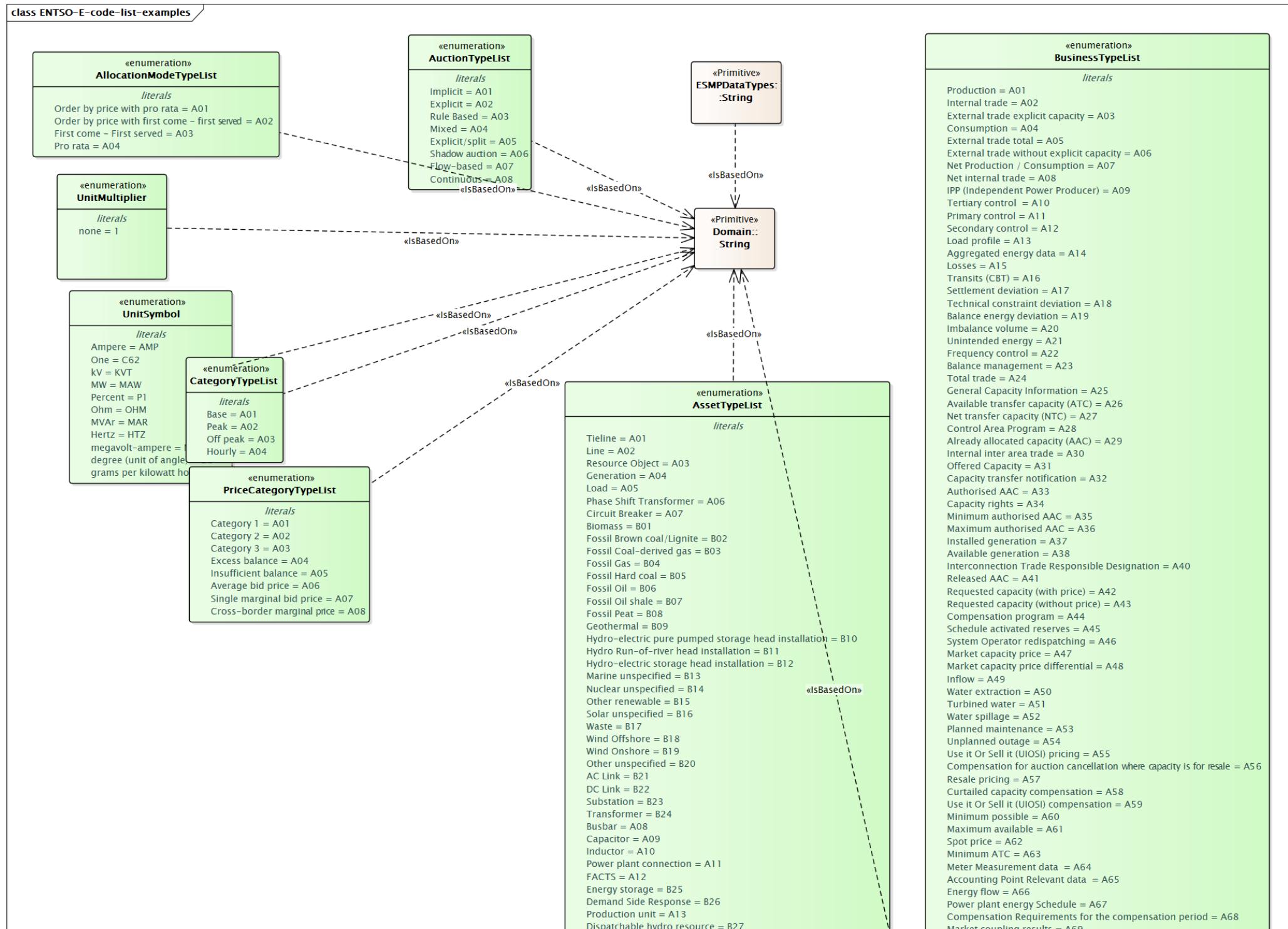
class RTD assembly model


+ description: String [0..1]

+ type: Quantity_TypeKind
+ quality: Quality_String [0..1]





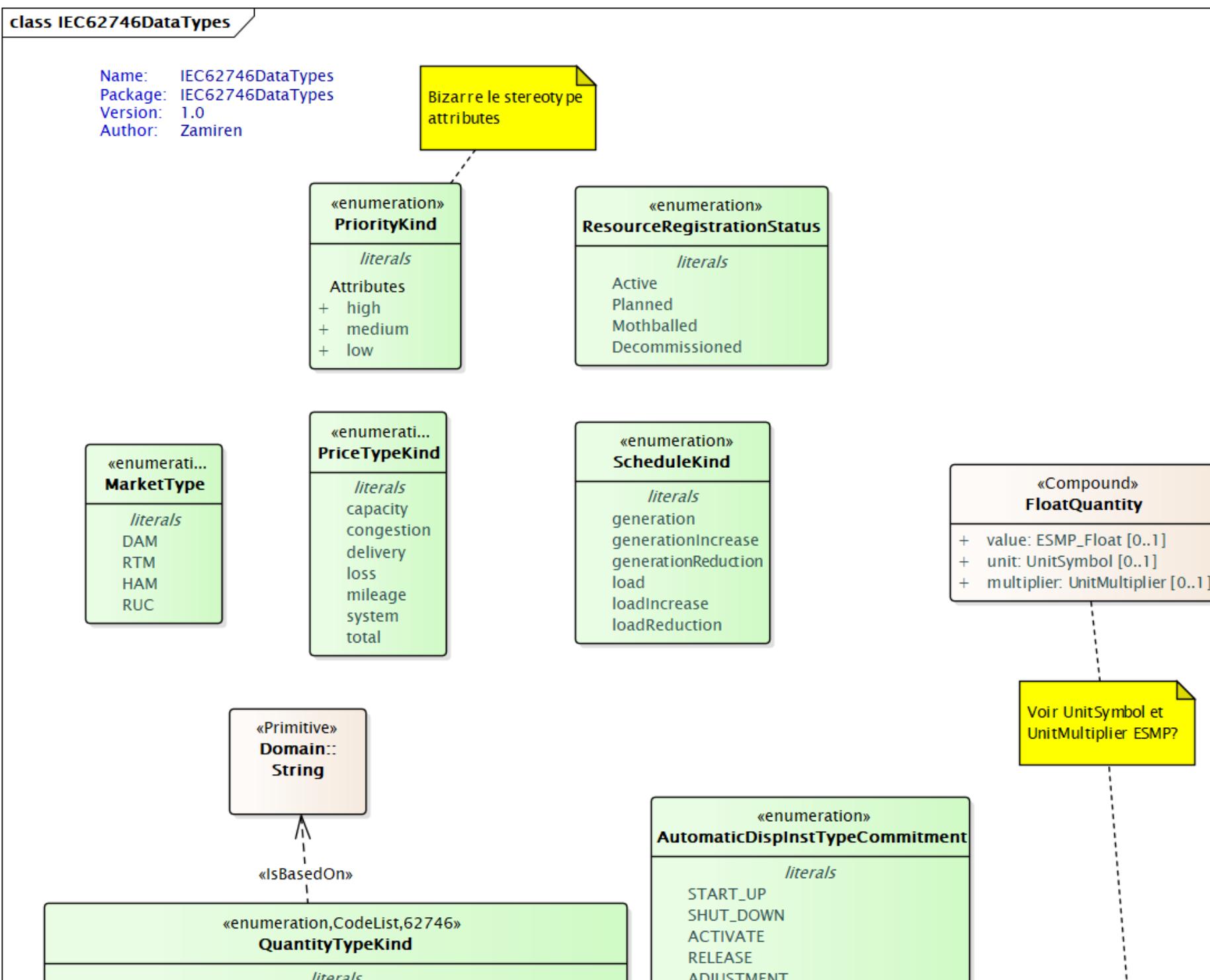


Solar photovoltaic = B28
 Solar concentration = B29
 Wind unspecified = B30
 Hydro-electric unspecified = B31
 Hydro-electric mixed pumped storage head installation = B32
 Marine tidal = B33
 Marine wave = B34
 Marine currents = B35
 Marine pressure = B36
 Thermal unspecified = B37
 Thermal combined cycle gas turbine with heat recovery = B38
 Thermal steam turbine with back-pressure turbine (open cycle) = B39
 Thermal steam turbine with condensation turbine (closed cycle) = B40
 Thermal gas turbine with heat recovery = B41
 Thermal internal combustion engine = B42
 Thermal micro-turbine = B43
 Thermal Stirling engine = B44
 Thermal fuel cell = B45
 Thermal steam engine = B46
 Thermal organic Rankine cycle = B47
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Production, unavailable = A70
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 Load Frequency Control Program Schedule = A74
 Timeframe Independent Schedule = A75
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 Consumption, dispatchable = A78
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 Total Transfer Capacity (TTC) = A81
 Mutual Emergency Assistance Service (MEAS) = A82
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 positive forecast margin = A91
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 Wind generation = A93
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 Frequency containment reserve = A95
 Automatic frequency restoration reserve = A96
 Manual frequency restoration reserve = A97
 Replacement reserve = A98
 Financial information = A99
 Interconnector network evolution = B01
 Interconnector network dismantling = B02
 Counter trade = B03
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 Capacity allocated (including price) = B05
 DC link constraint = B06
 Auction revenue = B07
 Total nominated capacity = B08
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 Production unit = B11
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 Allocation Revenue = B13
 Production deviation = B14
 Consumption deviation = B15
 Transmission asset = B16
 Consumption unit = B17
 In-feed ATC = B18
 Out-feed ATC = B19
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 Balance down regulation price = B21
 Main direction = B22
 Consumption imbalance price = B23
 Production sales imbalance price = B24
 Production purchase imbalance price = B25
 Average balance price between MBAs = B26
 Pumped = B27
 Large installation consumption = B28
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 Area Control error (ACE) = B33
 Area Control Error after Imbalance Netting = B34
 Implicit and explicit trade total = B35
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 Flow based domain adjusted to long term schedules = B39
 Network element constraint = B40
 Calculation opposition (Red Flag) = B41
 Base case proportional shift key = B42
 Proportional to participation factors shift key = B43
 Proportional to the remaining capacity shift key = B44

Merit order shift key = B45
 Wind speed = B46
 Wind direction = B47
 Solar irradiance = B48
 Air temperature = B49
 Cloudiness = B50
 Air humidity = B51
 Atmospheric pressure = B52
 Precipitation = B53
 Network constraint situation that constraints the market = B54
 Contingency = B55
 Remedial Action = B56
 Monitored Network Element = B57
 Busbar = B58
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 SPS = B60
 Aggregated netted external market schedule = B61
 Aggregated netted external TSO schedule = B62
 Aggregated netted external schedule = B63
 Netted area AC position = B64
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 Interconnection shift key = B66
 DC flow with losses = B67
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 minimum value of netted area position = B69
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Total_Active_Energy_Consumed_kWh = 0
Total_Active_Energy_Produced_kWh = 1
Instantaneous_Active_Power_Consumption_kW = 2
Instantaneous_Active_Power_Generation_kW = 3
Instantaneous_Voltage_V_in_phase_L1 = 4
Instantaneous_Voltage_V_in_phase_L2 = 5
Instantaneous_Voltage_V_in_phase_L3 = 6
Instantaneous_Current_A_in_phase_L1 = 7
Instantaneous_Current_A_in_phase_L2 = 8
Instantaneous_Current_A_in_phase_L3 = 9
Instantaneous_PowerFactor = 10
Total_Active_Energy_Consumed_kWh_in_phase_L1 = 11
Total_Active_Energy_Consumed_kWh_in_phase_L2 = 12
Total_Active_Energy_Consumed_kWh_in_phase_L3 = 13
Total_Active_Energy_Produced_kWh_in_phase_L1 = 14
Total_Active_Energy_Produced_kWh_in_phase_L2 = 15
Total_Active_Energy_Produced_kWh_in_phase_L3 = 16
Instantaneous_Active_Power_Consumption_kW_in phase_L1 = 17
Instantaneous_Active_Power_Consumption_kW_in phase_L2 = 18
Instantaneous_Active_Power_Consumption_kW_in phase_L3 = 19
Instantaneous_Reactive_Power_Consumption_kvar = 20
Instantaneous_Reactive_Power_Consumption_kvar_in phase_L1 = 21
Instantaneous_Reactive_Power_Consumption_kvar_in phase_L2 = 22
Instantaneous_Reactive_Power_Consumption_kvar_in phase_L3 = 23
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Maximum_Current_A_in_phase_L2 = 30
Maximum_Current_A_in_phase_L3 = 31
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Instantaneous_Power_Factor_in_phase_L2 = 33
Instantaneous_Power_Factor_in_phase_L3 = 34
Frequency_Hz = 35

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«Compound»
ActivePowerChangeRate

- + multiplier: UnitMultiplier [0..1]
- + unit: UnitSymbol [0..1] = WPers {readOnly}
- + value: ESMP_Float [0..1]

