

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

Concrete Classes

CEEDS RequestPermission Version

This is the IEC 61970 CIM version number assigned to this UML model.

Native Members

date	0 .. 1	<u>!!classifier_error!!</u>	Form is YYYY-MM-DD for example for January 5, 2009 it is 2009-01-05.
version	0 .. 1	<u>!!classifier_error!!</u>	Form is IEC61970CIMXXvYY where XX is the major CIM package version and the YY is the minor version. For example IEC61970CIM13v18.

MarketEvaluationPoint

CEEDS RequestPermission contextual model

The location where one or more products are measured. This may be a physical or virtual location.

Native Members

mRID	1 .. 1	<u>MeasurementPointID_String</u>	A unique identification of the measurement point. 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.
-------------	--------	----------------------------------	---

MarketEvaluationPoint

CEEDS RequestPermission assembly model

The location where one or more products are measured. This may be a physical or virtual location.

Native Members

mRID	1 .. 1	<u>MeasurementPointID_String</u>	A unique identification of the measurement point. 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.
-------------	--------	----------------------------------	---

MarketParticipant

CEEDS RequestPermission contextual model

The identification of the party participating in energy market business processes.

Native Members

mRID	1..1	PartyID_String	The identification of a party in the energy market. 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.
MarketRole	[1..1]	MarketRole	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.

MarketRole

CEEDS RequestPermission contextual model

The identification of the intended behaviour of a market participant played within a given business process.

Native Members

type	1..1	MarketRoleKind_String	The identification of the role played by a market player.
-------------	------	---------------------------------------	---

MessageDocumentHeader

CEEDS RequestPermission contextual model

Native Members

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

MetaInformation

CEEDS RequestPermission 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. 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	
dataNeedId	0..1	String	
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.
			<p>Note:</p> <p>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>
finalCustomerId	0 .. 1	String	A qualification of the type of document, comparable to the MessageTypeList in the CIM part of the message.
			<p>Note:</p> <p>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>
requestPermissionId	0 .. 1	String	
Region	[1 .. 1]	Region	

MktActivityRecord

CEEDS RequestPermission contextual model

Subclass of IEC61968: Common:ActivityRecord.

Native Members

createdDateTime	0 .. 1	ESMP_DateTime	Date and time this activity record has been created (different from the 'status.dateTime', which is the time of a status change of the associated object, if applicable).
description	0 .. 1	String	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	String	Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended. For CIMXML data files in RDF syntax conforming to IEC 61970-552 Edition 1, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
name	0 .. 1	String	The name is any free human readable and possibly non unique text naming the object.
reason	0 .. 1	ReasonCode_String	Reason for event resulting in this activity record, typically supplied when user initiated.
status	0 .. 1	Status_String	Information on consequence of event resulting in this activity record.
type	0 .. 1	String	Type of event resulting in this activity record.

MktActivityRecord

CEEDS RequestPermission assembly model

Subclass of IEC61968: Common:ActivityRecord.

Native Members

createdDateTime	0 .. 1	ESMP_DateTime	Date and time this activity record has been created (different from the 'status.dateTime', which is the time of a status change of the associated object, if applicable).
description	0 .. 1	String	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	String	Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended. For CIMXML data files in RDF syntax conforming to IEC 61970-552 Edition 1, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
name	0 .. 1	String	The name is any free human readable and possibly non unique text naming the object.
reason	0 .. 1	ReasonCode_String	Reason for event resulting in this activity record, typically supplied when user initiated.
status	0 .. 1	Status_String	Information on consequence of event resulting in this activity record.
type	0 .. 1	String	Type of event resulting in this activity record.

Process

CEEDS RequestPermission contextual model

The formal identification of the business process in which a flow of information is exchanged.

Native Members

processType	1 .. 1	ProcessKind_String	The identification of the nature of process that the document addresses.
--------------------	--------	------------------------------------	--

Reason

CEEDS RequestPermission contextual model

The motivation of an act.

Native Members

code	1 .. 1	ReasonCode_String	The motivation of an act in coded form.
text	0 .. 1	ReasonText_String	The textual explanation corresponding to the reason code.

Reason

CEEDS RequestPermission assembly model

The motivation of an act.

Native Members

code	1..1	ReasonCode_String	The motivation of an act in coded form.
text	0..1	ReasonText_String	The textual explanation corresponding to the reason code.

Region[CEEDS RequestPermission contextual model](#)**Native Members**

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

Request_Permission[CEEDS RequestPermission contextual model](#)

Specific right or authorisation granted to individuals or entities to access certain resources, perform specific actions, or obtain certain privileges within a system or organisation.

Native Members

createdDateTime	1..1	ESMP_DateTime	The date and time of the creation of the permission.
mRID	1..1	ID_String	
transmissionSchedule	0..1	Duration	

Request_Permission[CEEDS RequestPermission assembly model](#)

Specific right or authorisation granted to individuals or entities to access certain resources, perform specific actions, or obtain certain privileges within a system or organisation.

Native Members

createdDateTime	1..1	ESMP_DateTime	The date and time of the creation of the permission.
mRID	1..1	ID_String	
transmissionSchedule	0..1	Duration	

RequestPermission_Envelope[CEEDS RequestPermission assembly model](#)**Native Members**

messageDocumentHeader.creationDateTime	0..1	ESMP_DateTime	
messageDocumentHeader.metaInformation.asset	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.connectionId 0..1 [String](#)

messageDocumentHeader.metaInformation.dataNeedId 0..1 [String](#)

messageDocumentHeader.metaInformation.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.

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] [RequestPermission_MarketDocument](#)

[RequestPermission_Envelope](#)

[CEEDS RequestPermission contextual model](#)

Native Members

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

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

[RequestPermission_MarketDocument](#)

[CEEDS RequestPermission contextual model](#)

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

Native Members

description 0..1 [String](#) 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 0..1 [ID_String](#) The unique identification of the document being exchanged within a business process flow.

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, ...

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.

revisionNumber 0..1 [ESMPVersion_String](#) The identification of the version that distinguishes one evolution of a document from another.

type	0 .. 1 MessageKind_String	The coded type of a document. The document type describes the principal characteristic of the document.
Sender_MarketParticipant	[1 .. 1] MarketParticipant	The MarketParticipant associated with an electronic document header.
Receiver_MarketParticipant	[1 .. 1] MarketParticipant	The MarketParticipant associated with an electronic document header.
Process	[1 .. 1] Process	The Process associated with an electronic document header that is valid for the whole document.
Request_Permission	[0 .. 1] Request_Permission	
Period	[1 .. 1] Time_Period	The time interval that is associated with an electronic document and which is valid for the whole document.

[RequestPermission_MarketDocument](#)

[CEEDS RequestPermission assembly model](#)

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

Native Members

description	0 .. 1 String	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	0 .. 1 ID_String	The unique identification of the document being exchanged within a business process flow.
		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, ...
		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.
period.timeInterval	1 .. 1 ESMP_DateTimeInterval	The start and end date and time for a given interval. --- The time interval that is associated with an electronic document and which is valid for the whole document.
process.processType	1 .. 1 ProcessKind_String	The identification of the nature of process that the document addresses. --- The Process associated with an electronic document header that is valid for the whole document.

<code>receiver_MarketParticipant.marketRole.type</code>	1...1	MarketRoleKind_String	<p>The identification of the role played by a market player.</p> <p>--- The MarketParticipant associated with an electronic document header.</p> <p>--- The role associated with a MarketParticipant.</p>
<code>receiver_MarketParticipant.mRID</code>	1...1	PartyID_String	<p>The identification of a party in the energy market.</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>
<code>revisionNumber</code>	0..1	ESMPVersion_String	<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> <p>--- The MarketParticipant associated with an electronic document header.</p>
<code>sender_MarketParticipant.marketRole.type</code>	1...1	MarketRoleKind_String	<p>The identification of the role played by a market player.</p> <p>--- The MarketParticipant associated with an electronic document header.</p> <p>--- The role associated with a MarketParticipant.</p>
<code>sender_MarketParticipant.mRID</code>	1...1	PartyID_String	<p>The identification of a party in the energy market.</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>
<code>type</code>	0..1	MessageKind_String	<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> <p>--- The MarketParticipant associated with an electronic document header.</p>

document type describes the principal characteristic of the document.

Request_Permission

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

Time_Period**CEEDS RequestPermission contextual model**

The identification of a time interval or a duration.

Native Members**timeInterval**

1..1 [ESMP_DateTimeInterval](#)

The start and end date and time for a given interval.

TimeSeries**CEEDS RequestPermission 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**mRID**

1..1 [ID_String](#)

A unique identification of the time series.

In the ESMP context, the "model authority" is defined as a party (originator of the exchange) that provides a unique identification in the context of a business exchange such as time series identification, bid 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.

TimeSeries**CEEDS RequestPermission 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**mRID**

1..1 [ID_String](#)

A unique identification of the time series.

In the ESMP context, the "model authority" is defined as a party (originator of the exchange) that provides a unique identification in the context of a business exchange such as time series identification, bid 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.

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.

RoleTypeList

ESMPEnumerations

Identification of the role played by a party.	
Trade responsible party	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Consumption responsible party	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Combined power exchange (not to be used)	This role is no longer in the ENTSO-E Harmonised Role Model Document.
System operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Imbalance settlement responsible	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Production responsible party	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Transmission capacity allocator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Balance responsible party	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Metered data aggregator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Billing agent	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Market operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Energy supplier	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.

Consumer	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Control area operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Control block operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Coordination centre operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Grid access provider	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Grid operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Meter administrator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Party connected to grid	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Producer	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Profile maintenance party	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Meter operator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Metered data collector	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Metered data responsible	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Metering point administrator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Resource Provider	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Scheduling coordinator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Capacity Trader	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Interconnection Trade Responsible	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Nomination Validator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document.
Market information aggregator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document. A party that collects information from different sources and assembles it to provide a summary of the market.
Information receiver	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document. A party, not necessarily a market participant, which receives information about the market.
Reserve Allocator	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document. A party that informs the market of reserve requirements, receives tenders against the requirements and in compliance with the prequalification criteria, determines what tenders meet requirements and assigns tenders.

MOL Responsible	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document. A party that informs the market of reserve requirements, receives tenders against the requirements and in compliance with the prequalification criteria, determines what tenders meet requirements and assigns tenders.
Capacity Coordinator	A party, acting on behalf of the SOs involved, responsible for establishing a coordinated Offered Capacity and/or NTC and/or ATC between several Scheduling Areas.
Reconciliation Accountable	Refer to role model definitions in the ENTSO-E Harmonised Role Model Document. A party that is financially accountable for the reconciled volume of energy products for a profiled local metering point.
Reconciliation Responsible	A party that is responsible for reconciling, within a metering grid area, the volumes used in the imbalance settlement process for profiled metering points and the actual metered quantities.
Data provider	A party that is responsible for providing information to a central authority.
Local Issuing Office (LIO)	A party that is responsible for operating a Local Issuing Office (LIO).
Central Issuing Office (CIO)	A party that is responsible for operating a Central Issuing Office (CIO).
EIC Participant	A party that participates in the EIC environment.
Weather analyser	A party that analyses the current and forecast weather situation and establishes a prognosis of its impact on the renewable energy environment as well as the overall load.
Regional Security Coordinator (RSC)	The RSC as defined in the System Operation guideline.
Energy Service Company (ESCO)	A party offering energy-related services to the Party Connected to Grid, but not directly active in the energy value chain or the physical infrastructure itself. The ESCO may provide insight services as well as energy management services.
Balancing Service Provider	A party with reserve-providing units or reserve-providing groups able to provide balancing services to LFC Operators.
Energy trader	A party that is selling or buying energy.
LFC Operator	A party that is responsible for the Load Frequency Control of its LFC Area or LFC Block.
Transmission System Operator (TSO)	The Transmission System Operator (TSO) is responsible for the transport of electricity on the extra high-voltage and high-voltage interconnected system. This is a market participant and not a role in Harmonised Role Model.
Distribution System Operator (DSO)	Distribution System Operator (DSO) is responsible for transport of electricity on high-voltage (optionally), medium-voltage and low-voltage distribution systems. This is a market participant and not a role in Harmonised Role Model.
Resource Capacity Mechanism Operator	Resource capacity mechanism operator is the party responsible to operate the resource capacity mechanism in a member state. It can either be the TSO or an independent party.
Resource aggregator	A party that aggregates resources for usage by a service provider for energy market services.
Cost sharing calculator	A party responsible for the mapping of the costs between areas and parties.
Settlement responsible	A party responsible for settling the costs.

Coordinated Capacity Calculator	Coordinated Capacity Calculator is the entity or entities with the task of calculating transmission capacity, at regional level or above.
--	---

ReasonCodeTypeList**ESMPEnumerations**

The coded motivation of an act.

Errors not specifically identified	This code is used to identify errors that have not been specifically addressed in the Reason code list. It can be used at any level and refers to the level for which it has been identified.
Message fully accepted	The message has been fully accepted for application processing.
Message fully rejected	No part of the message has been accepted for application processing, e.g. Global position incomplete.
Message contains errors at the time series level	Part of the message contents, i.e. certain time series, has been accepted for application processing. It is necessary to look at the time series level to determine the time series that have been rejected. The time series is excluded from the global position.
Time interval incorrect	The schedule time interval is not within the contractual agreement or the period does not agree with the schedule time interval.
Sender without valid contract	The sender has no current valid contract with the TSO. The message consequently will be fully rejected.
Schedule accepted	The schedule of the recipient as presented has been completely accepted.
Schedule partially accepted	The schedule of the recipient as presented has been partially accepted. It is necessary to look at the time series level to determine the changes (time series rejected, modified, etc.).
Schedule rejected	The schedule of the recipient as presented has been totally rejected. The cause could be the non presentation of a counter part for the involved trades.
Time series not matching	Time series mismatches.
Credit limit exceeded	The contractual credit limit has been exceeded and as such the message has been rejected.
Time series fully rejected	The time series has been fully rejected. In the case of a confirmation report, this reason code is used in conjunction with either A26 or A30.
Time series accepted with specific time interval errors	The time series has been accepted but some time interval quantities have been rectified or zeroed out.
In party/Out party invalid	There is no contract for the parties indicated or the rules for cross border nominations are not being respected. The time series has been rejected.
Area invalid	The area is unknown or not allowed. The time series has been rejected.
A24 not applicable	This code is no longer applicable.
A25 not applicable	This code is no longer applicable.
Default time series applied	The time series has been rejected and replaced with a default time series profile. This reason code may not be used in conjunction with A30.

Cross border capacity exceeded	The cross border capacity has been exceeded. The time series has been rejected or adjusted.
Counterpart time series missing	This provides an indication that the time series has not got a counterpart time series. In the case of an Intermediate Confirmation Report this is advising the recipient that the time series may be rejected at nomination closure if the counterpart time series is not received. In the case of a Final Confirmation Report this is informing the recipient that the time series has been rejected because the counterpart time series has not been forthcoming.
Counterpart time series quantity differences	The time series has been rejected as it does not match that of the counterpart who is considered by market rules to be correct.
Imposed Time series from nominated party's time series (party identified in reason text)	The nominated party's time series has replaced the current time series. This reason code may not be used in conjunction with A26.
Resolution inconsistency	The resolution is not coherent with the time interval, or resolution not valid.
Quantity inconsistency	The quantity is not coherent. For example a time period with the same version number but different quantities or an non permitted number of digits after the decimal point, etc.
Quantity increased	The quantity has been increased in order to satisfy minimum constraints.
Quantity decreased	The quantity has been decreased in order to satisfy congestion constraints.
Default quantity applied	The default quantity has been applied as the current quantity does not satisfy contractual obligations.
Quantities must not be signed values	The quantity proposed is illegal since signed values are only permitted in specific circumstances.
A47 not applicable	This code is no longer applicable.
Modification reason	In an intraday transmission, the reason for the modification is as follows (in the reason text).
Position inconsistency	A position is missing or too many.
Senders time series version conflict	There is an error in the sender time series version, i.e. it could be superior to the message version or is inconsistent with the existing data. The time series has been rejected.
Message identification or version conflict	The message identification is already in the receiving system. Or a higher version already exists. Message rejected.
Time series missing from new version of message	A time series is not contained in a new version of the message. Message rejected.
Receiving party incorrect	The receiving party is incorrect. Message rejected.
Global position not in balance	The message does not balance out to zero. Market rules might require that the message is rejected.
Time series identification conflict	The identification of the time series is duplicated or incorrect. Time series will be rejected.
Corresponding Time series not netted	All corresponding time series must be netted. Time series rejected.

Deadline limit exceeded/Gate not open	The deadline for receiving schedule messages has passed. Message or time series rejected.
One to one nomination inconsistency	There is a one to one nomination inconstancy with the in/out parties or areas. Time series rejected.
Not compliant to local market rules	The level in which this is identified is not in compliance with local market rules. The level in question has been rejected.
Inter-area transit schedule exceeds nominated schedule	The inter-area transit schedule exceeds the nominated schedule for the same time interval. The inter-area transit schedule is rejected.
Currency invalid	The currency is not in compliance with ISO 4217.
Invalid business type	The business type does not belong to the valid set of business types for the process in question.
Time Series modified	The time series has been modified.
Resource Object Invalid	The Resource Object defined in the document is not valid.
Reserve object Technical limits exceeded	Reserve objects aggregated values are not within technical/prequalified limits
Planned reserves do not correspond with contractual data	Planned reserves do not correspond with contractual data.
Limit Data is not available	Limit Data is not available.
Reserve Object not qualified for reserve type	Reserve Object is not qualified for reserve type.
Mandatory attributes missing	Mandatory attributes missing.
Curtailment	The capacity in question has been curtailed.
Linked bid rejected due to associated bid unsuccessful	The bid in question has been rejected because an associated bid has been unsuccessful.
Original bid divided to permit acceptance	The original bid quantity has been divided to enable it to be accepted.
Bid accepted	The bid in question has been accepted.
Auction Status	The information in the Reason Text provides auction status information.
Right status information	The information in the Reason Text provides status information concerning the transmission rights in question.
Agreement identification inconsistency	There is an inconsistency between the contract type and the agreement identification.
Dependency matrix not respected	There is an inconsistency between the document contents and the dependency matrix.
Sender identification	

and/or role invalid	The identification of the sender or the sender/role combination is invalid.
Process type invalid	The process type does not figure in the list of valid process types for this document.
Domain invalid	The domain does not figure in the list of valid domains for this document and process.
Matching period invalid	The period is not within the expected limits.
In/Out area inconsistent with domain	The in and out area does not figure within the domain specified.
Disagree with matching results	The matching results provided are not consistent.
Confirmation ignored due to higher version already received	The report has been ignored since a higher version has been received.
Confirmation without adjustment (time series have been matched without change)	The report has been successfully matched without any changes.
Confirmation with adjustment (time series have been modified)	The report has been matched but required adjustment.
For action (only in intermediate confirmation - time series need mutual agreement and action)	The report in question is only for action in an intermediate stage.
Time series matched	The time series has been successfully matched.
Time series ignored (note: this can only apply to time series that are set to zero - see matching principles)	The time series has been ignored and not matched since it does not figure in a counterparty transmission. All are correctly equal to zero.
Modification proposal (intermediate confirmation)	The document is a proposal for change before finalization.
Expected document not received	The document that is expected has not been received within the expected timeframe.
Not possible to send document on time, but estimated delivery time is provided	The document that is due cannot be transmitted within the required timeframe. An estimated time of transmission is provided.
Not possible to send document on time, and furthermore no expected time of return to normal situation	The document that is due cannot be transmitted within the required timeframe. The time of transmission of the document is unknown.
Document cannot be processed by receiving system	The receiving system cannot process that document in question.
Complementary information	Additional text is provided in order to further explain a condition, for example to provide details of an outage.

Technical constraint	A technical constraint has been applied.
Force majeure curtailment	Curtailment due to Force Majeure. A code that enables the identification of the curtailment reason for settlement purposes.
Network security curtailment	Curtailment due to network security reasons A code that enables the identification of the curtailment reason for settlement purposes.
Auction cancelled	The auction has been cancelled.
Incomplete document	The document is incomplete and cannot be processed.
Accounting Point (tie-line) Time Series missing	The document is incomplete as a time series for an accounting point is missing.
Meter data Time series missing	The document is incomplete as a time series for meter data is missing.
Estimated values not allowed in first transmission	The document is in its initial form and estimated values are not allowed.
No quantity values allowed for a quality that is not available	No quantity values are allowed for a quality that is not available.
Time series accepted	Time series accepted.
Auction without bids being entered	The auction has terminated without any bids being submitted. The ReasonText may provide the identification of the auction in question.
Data not yet available	It is not possible to perform the necessary action since the required data for this action is not yet available.
Bid not accepted	The bid in question has not been accepted.
Initiator area problem	The problem concerns the initiator area.
Cooperating area problem	The problem concerns the cooperating area.
Communication status currently active	The status within the system indicates that the communication capability is currently active.
Communication status currently inactive	The status within the system indicates that the communication capability is currently inactive.
Communication status currently restricted	The status within the system indicates that the communication capability is currently restricted.
Problem associated with both areas	The problem concerns both areas.
Tender unavailable in MOL list	A tender that has been requested is no longer available in the MOL.
Price based on preliminary exchange rate	The price is based on a preliminary exchange rate.
Failure	A failure has occurred.

Foreseen maintenance	Maintenance is foreseen.
Shutdown	A shutdown has occurred.
Official exchange rate approved	The official exchange rate has been approved.
System regulation	The information provided regards a regulation for system purposes.
Frequency regulation	The information provided regards a regulation for frequency purposes.
Load flow overload	Situation in the grid, where loading of a certain grid element, e.g. overhead line, is above defined technical limits.
Voltage level adjustment	A TSO activity to maintain an acceptable voltage profile throughout the network. This is achieved by balancing of the respective reactive power requirements of the network and the customers.
Emergency situation curtailment	Curtailment due to emergency situation. A code that enables the identification of the curtailment reason for settlement purposes.
Calculation process failed	The calculation has not been performed.
No capacity constraint impact on the market	The market position is such as no capacity constraint is applied to limit the cross border exchanges.
Special Condition	Special condition need to be fulfilled.
Unverified	Missing or not validated data.
Verified	Data has successfully passed the verification process.
CGM inconsistency	Describes an element which was not found in the CGM.
Network dictionary inconsistency	Describes an element which was not found in the network dictionary.
Capacity reduced by TSO	Describes a capacity that was reduced by a TSO.
Overload	Describes an N-k or N state overload.
GLSK limitation	Describes a situation in which there is not enough power adjustment in the GLSK file to cover the capacity.
Voltage constraint	Describes an N-k or N state voltage violation.
Angle constraint	Describes an N-k or N state angle violation.
Stability	Describes a situation in which the dynamic behaviour of the network violated.
Loadflow divergence	Describes a network situation in which the provided capacity values are part of a load flow divergence situation.
Exclusion for SoS reasons	This is the adjustment applied to the capacity of a branch to have a minimum RAM (Remaining Available

Margin) available for commercial exchanges.

Constraint by the market	A constraint due to market restrictions.
Ordinary	The contingency is ordinary (methodology for coordinating operational security analysis, article 6).
Exceptional	The contingency is exceptional (methodology for coordinating operational security analysis, article 6).
Out of range	The contingency is out of range (methodology for coordinating operational security analysis, article 6).
Internal congestion	A temporary congestion within a bidding zone or scheduling area.
Operational security constraints	Operational security constraints identified by TSOs.
Estimated value	Describes a situation where a calculation process has failed and extrapolated or interpolated values will be applied.
Balancing	Activated for balancing purposes.
Values shared	Values of this time series are also valid for counter-party.
Outside price limits	The offered price is not within the valid limits.
Previous timeframe data	In case of processing issue, sent data are based on the previous timeframe.
MOL merging successful	The merging of the Merit Order List has been successfully processed.
MOL merging failed	The merging of the Merit Order List has failed.
Because of redispatching	Because of redispatching according to Article 2(26) of Commission Regulation (EU) 543/2013
Because of countertrading	Because of countertrading according to Article 2(13) of Commission Regulation (EU) 543/2013
Because of other remedial action	Not available because of any remedial action.
Insufficiency of reserves	The reserve capacity is not sufficient.
Unavailability of reserve providing unit	The unit providing the reserve is subject to technical unavailability.
Unavailability of automatic protection systems	Unavailability of tools to detect predetermined system conditions that have a high probability of causing unusual stress on the power system, for which pre-planned remedial action is considered necessary or for which automatic protective actions may be triggered such as special protection schemes or automatic load shedding.
Physical cable or converter restrictions	Limitation due to physical cable or converter restrictions.
Constraints in controller systems	Limitation due to constraints in controller systems.
Adjusted because of expected violation of	The capacity is adjusted because of an expected violation of operational security limits of physical transmission assets.

operational security

Adjusted because already considered remedial actions are assessed as not sufficient	The capacity is adjusted because the remedial actions were assessed as not sufficient or ineffective to avoid the expected violation of operational security limit(s).
Time series partially accepted	The time series is partially accepted.
Demand fully netted	Demand was fully netted against other demand(s).
Bid activated in same direction	One or several bids were activated in the same direction within the same uncongested area as the demand.
Optimization in progress	The activation optimisation framework is being executed.

StatusTypeList**ESMPEnumerations**

The condition or position of an object with regard to its standing.

Intermediate	The document is in a non finalized state.
Final	The document is in a definitive state.
Deactivated	The object being reported has been deactivated.
Reactivated	The object being reported has been reactivated.
Active	The object being reported is currently active.
Available	The volumes (one or more) are available.
Activated	The quantities in the time series have been activated.
In process	The quantities in the time series are in the process of activation (an activation request has been made).
Cancelled	The tender indicated in the time series has been completely cancelled. In this case the resources are no longer available to all Acquiring System Operators
Ordered	The quantities in the time series are to be activated.
Unavailable	The volumes (one or more) are unavailable.
RGCE agreed	The information has been agreed within the ENTSO-E Regional Group Continental Europe process.
Withdrawn	The information has been withdrawn by the submitter.
Creation	The action requested to be carried out is the creation of a new object.
Update	The action requested to be carried out is the update an existing object.
Deactivation	The action requested to be carried out is to deactivate an existing object.

Reactivation	The action requested to be carried out is to reactivate a previously deactivated object.
Preventive	The remedial action is applied to prevent an outage.
Curative	The remedial action is applied after an outage has occurred, in order to maintain the operational security.
Automatic	The remedial action being described is applied by an automation when an outage occurs.
Open	The action being described consists of disconnecting the network element to the transmission network.
Close	The action being described consists of connecting the network element to the transmission network.
Stop	The action being described consists of stopping the production or consumption connected to a network element.
Start	The action being described consists of starting the production or consumption connected to a network element.
Relative	The quantity being described is a relative value to an initial state.
Absolute	The quantity being described is an absolute value.
Curative or preventive	The remedial action can be applied to prevent an outage or after an outage has occurred in order to maintain the operational security.
Unshared bid	Used to indicate that the bid cannot be shared.
Pre Processed	to be process
Substituted	Substituted pre-processing data.
Modified	Modified pre-processing data by RSC or CGMA platform.
Result	Result
Not satisfied	The need described in the time series cannot be satisfied.
Rejected	The document rejected by one or more parties.
Preliminary	Indicative information only for initial planning purposes.
Planned	Is planned.
Confirmed	The status is confirmed.
Shall Be Used	The object defined in the series shall be used.
Could Be Used	The object defined in the series could be used.
Proposed	The status of the information is proposed.

Individual Network Data	The network data provided in the document or series concerns the unique TSO area described by the document or series.
Common Network Data	The network data provided in the document or series concerns the whole area described by the document or series.
Setpoint schedule	The code for the power setpoint mode of operation of the HVDC link.
Proportional external signal	The code for the proportional external signal mode of operation of the HVDC link.
AC emulation	The code for the AC emulation mode of operation of the HVDC link.
Importing element	An importing network element in which the flow measurement enters.
Exporting element	An exporting network element from which the flow measurement comes out.
To be optimized	Describes an element which needs to be optimized by an optimization process.
To be monitored	Describes an element which needs to be monitored by an optimization process.
To be included in capacity calculation	Describes an element which needs to be taken into account in a capacity calculation process.
Relative to previous point in time	The quantity being described is a relative value to a previous point in time.
For flow optimization	Describes an element which needs to be optimized by a flow optimization process.
For voltage optimization	Describes an element which needs to be optimized by a voltage optimization process.
Presolved	Describes an active constraint that limits the exchanges. It is part of the presolved domain.
Not available if linked bid activated	Bid not available if linked bid activated.
Not available if linked bid rejected	Bid not available if linked bid rejected.
Not available for DA if linked bid subject to DA	Bid not available for direct activation if linked bid subject to direct activation.
Not available for DA if linked bid subject to SA	Bid not available for direct activation if linked bid subject to scheduled activation.
Not available if linked bid subject to SA	Bid not available if linked bid subject to scheduled activation.
Not available if linked bid subject to DA	Bid not available if linked bid subject to direct activation.
Primary market	A value is traded for the first time.
Secondary market	A value is traded for the second or next times between two parties.
Interesting	Describes an asset which is considered as interesting.

Relevant	Describes an asset which is considered as relevant.
Conditionally available	Bid available as long as none of the conditions associated with the linked bids materialise.
Conditionally unavailable	Bid unavailable as long as none of the conditions associated with the linked bids materialise.
Available if linked bid activated	Bid available if linked bid activated.
Available if linked bid rejected	Bid available if linked bid rejected.
Available if linked bid subject to SA	Bid available if linked bid subject to scheduled activation.
Available if linked bid subject to DA	Bid available if linked bid subject to direct activation.
Available for DA if linked bid subject to DA	Bid available for direct activation if linked bid subject to direct activation.
Available for DA if linked bid subject to SA	Bid available for direct activation if linked bid subject to scheduled activation.
Delta	Describes a status representing a difference between two values.

ProcessTypeList

ESMPEnumerations

Indicates the nature of process that the document addresses.

Day ahead	The information provided concerns a day ahead process.
Intra day incremental	The information provided concerns an intra day schedule.
Inter-area transit	The information provided concerns an inter area transit schedule. The rules governing this process are market dependent
System operation closure	The information provided concerns the closure of a given period of both scheduled and regulation information.
Metered data aggregation	The information provided concerns the aggregation process of metered information.
Imbalance settlement	The information provided concerns the imbalance settlement for a given period for a balance responsible party or parties.
Capacity allocation	The information provided concerns the capacity allocation process.
Central reconciliation	The process carried out to finalise the imbalance settlement based on actual metered values against provisional values from profiled metering points.
Released capacity allocation	The process concerns the notification of capacity rights that are being released.
Proposed capacity allocation	The process concerns the proposed capacity to be allocated for a given border.

Agreed capacity allocation	The process concerns the capacity that has been agreed for allocation for a border.
Long term	The process concerns scheduling all schedules except daily and intraday contracts.
Post scheduling adjustment	The process concerns the adjustments made to previous schedules after the period of execution.
Forecast	The data contained in the document are to be handled in short, medium, long term forecasting process.
Capacity determination	The process of determining the capacity for use.
Realised	The process for the treatment of realised data as opposed to forecast data.
Schedule day	The process concerns the day ahead, intraday and eventually ex-post scheduling in a single document. The schedule will be transferred within the total position including historic information.
Intraday total	This process concerns an intraday schedule which contains the accumulated day ahead and intraday current position.
Intraday accumulated	This process concerns a single intraday schedule process where only intraday evolutions occur through version changes.
SOMA process	System Operator meter alignment process.
SOVM process	System Operator validated measurement process.
RGCE accounting process	The document provides ENTSO-E Regional Group Continental Europe accounting process information.
CCSR RGCE Settlement	The process concerns the control center settlement report for the whole of the ENTSO-E Regional Group Continental Europe.
CBSR Settlement	The process concerns the control block settlement report.
CASR Settlement	The process concerns the control area settlement report.
Outage information	The process concerns TSO publication of outages on its power system.
Reserve resource process	The process being described is for general reserve resources.
Primary reserve process	The process being described is for primary reserves.
Secondary reserve process	The process being described is for secondary reserves.
Tertiary reserve process	The process being described is for tertiary reserves.
Week ahead	The process being described is for the week ahead.
Month ahead	The process being described is for the month ahead.
Year ahead	The process being described is for the year ahead.
Contracted	The process being described is for contracted information.

Network information	The process being described is for network information.
Creation	The process being described is for the creation of information.
Modification	The process being described is for the modification of information.
Deactivation process	The process being described is for deactivation of information.
Synchronisation process	The process being described is for the synchronisation of information.
Intraday process	The process being described is for intraday process.
Redispatch process	The process being described is for redispatch activation.
Activation history process	The process being described is for the provision of an activation history.
Flow based domain constraint day-ahead	The information provided concerns the flow-based process in day ahead.
Flow based domain constraint intraday	The information provided concerns the flow-based process in intraday.
Two days ahead	Two days ahead.
Replacement reserve	A process being described is for replacement reserves (RR) to restore or support the required level of frequency restoration reserves.
Manual frequency restoration reserve	A process being described is for manual frequency restoration reserves (mFRR).
Day-ahead capacity determination	The process run at the day-ahead timeframe to determine the capacity for use.
Intraday capacity determination	The process run at the intraday timeframe to determine the capacity for use.
Long term capacity determination	The process run at the long term timeframe to determine the capacity for use.
Automatic frequency restoration reserve	A process being described is for automatic frequency restoration reserves (aFRR).
Frequency containment reserve	A process being described is for frequency containment reserves (FCR).
Common Grid Model (CGM) merging process	The process for merging individual grid models to form the common grid model.
Coordinated security analysis	The process being described is used for coordinated security analysis.
Exchange of master data	A process for exchanging master data.
Frequency restoration reserve	The process being described is for general frequency restoration reserve.

FSKAR settlement	The information provided concerns the Financial Settlement of K?f, ACE and ramping period settlement for a given period.
mFRR capacity market	Processes related to the Reserve option market to assure that there are enough available reserves for the manual FRR market.
Internal trade reporting	The process related to internal trade reporting.
Scheduled activation mFRR	mFRR being subject to scheduled activation.
Direct activation mFRR	mFRR being subject to direct activation.
Registration	A process related to the registration and management of object information.
Imbalance Netting	The process described is for imbalance netting.
Criteria application for instantaneous frequency	The process describes criteria application for instantaneous frequency.
Criteria application for frequency restoration	The process describes criteria application for frequency restoration.
Cost sharing	The process describes the cost sharing process for costly remedial actions.
Central selection aFRR	aFRR subject to central selection of bids for activation.
Local selection aFRR	aFRR subject to local selection of bids for activation.
Common grid model alignment	The process for aligning bidding zone net positions.
Pan-European verification function	The process for verifying bidding zone net positions.
Outage planning coordination	The process being described is used for outage planning coordination.
Short term adequacy	The process being described is used for short term adequacy calculations.
Coordinated capacity calculation	The process being described is used for coordinated capacity calculation.

[MessageTypeList](#)

[ESMPEnumerations](#)

The coded type of a document. The message type describes the principal characteristic of a document.
This enumeration is used in the XML instances based on IEC 62325.

Balance responsible schedule	A schedule which has been prepared by a balance responsible party providing planned schedule information.
Allocated capacity schedule	A schedule which has been prepared by a capacity allocator providing allocated capacity.
Balance area schedule	A schedule that provides the planned schedule information for a balance area.

System Operator area schedule	A compilation of all external schedules concerning two System Operator areas or a connector concerning two System Operator of all balance responsible parties.
Control block area schedule	A compilation of all the exchange programs of all control areas for one control block with all neighbouring control areas of a neighbouring control block.
Coordination center area schedule	A compilation of the exchange programs of all exchange blocks divided into UCTE south and north.
Intermediate confirmation report	An intermediate confirmation report that may be produced between final cutoffs.
Final confirmation report	A final confirmation report that is produced after a final cutoff.
Finalised schedule	A compilation of a set of schedules that have been finalized after a given cutoff.
Regulation data report	A compilation of the time series employed on a given day to ensure the balance of the system.
Aggregated energy data report	A compilation of the time series of all the meter readings or their equivalent for a given period.
Imbalance report	The report containing the complete situation of a given period for a party and including the schedules, regulation data and actual or calculated readings.
Interconnection Capacity	Document for cross-border capacity exchanges.
Resource Provider Resource Schedule	A document providing the schedules for resource objects submitted by a resource provider.
Acquiring System Operator Reserve Schedule	A document providing reserve purchases submitted by an Acquiring System Operator.
Anomaly Report	A document providing anomaly information for the receiving party to correct.
Acknowledgement Document	A document providing acknowledgement information.
Confirmation report	A document providing confirmation information.
Capacity for Resale	A document providing information about capacity for resale.
Approved Capacity Transfer	A document to approve a capacity transfer.
Capacity transfer notification	A document notifying a capacity transfer.
Transmission rights portfolio	A document providing the portfolio of the transmission capacity rights of a market participant.
Allocations	A document providing the capacity allocations for a border.
Bid document	A document providing bid information.
Allocation result document	A document providing the allocation results of an auction.

Capacity document	A document providing capacity information.
Rights document	A document providing transmission capacity rights information.
Generation availability schedule	This document contains information related to energy availability.
Cross border schedule	This document contains the cross border schedules for all the borders of a given country where energy is exchanged.
Agreed capacity	The capacity agreed between parties.
Proposed capacity	The capacity proposed for agreement between parties.
System vertical load	The sum of all flows out of the transmission grid via directly connected transformers and lines to distribution grids and end consumers as known by the System Operator.
Escalation document	A document which requesting the escalation of a situation.
Trouble shooting document	A document providing trouble shooting information for the resolution of a problem.
Deactivation document	A document providing deactivation information.
Reserve tender document	The document that is used for the tendering for reserves within the ERRP process.
Reserve Allocation Result Document	The document used to provide the results of a Reserve auction.
SATCR activation	The document is used to provide the activation of reserves through the SATCR process.
DATCR activation	The document is used to provide the activation of reserves through the DATCR process.
Activation response	The document is used to provide a response to a request to activate reserves.
Tender reduction	The document is used to provide information concerning the reduction of a previously submitted tender.
MOL Document	The document is used to provide Merit Order List information.
Price Document	The document is used to provide market price information.
Measurement Value Document	The document is used to provide measurement information from measurement devices.
SOAM Document	The document is used to provide system operator accounting data for matching.
SOVA Document	The document is used to provide system operator validated accounting data.
CCVA Document	The document is used to provide coordination center validated accounting data.
Daily settlement document	The document is used to provide daily settlement information.
Weekly settlement document	The document is used to provide weekly settlement information.

Capacity Auction Specification Document	The document is used to provide capacity auction specification information.
Market Coupling Results Document	The document is used to provide the results of a market coupling auction.
Outage publication Document	The document is used to provide the outage information for publication.
Forced generation outage Document	A document providing information on forced generation outages.
Summarised Market Schedule	A compilation of all external schedules concerning two Market Balance Areas of all balance responsible parties.
Compensation Program Schedule	A schedule that provides the schedule information for the compensation of unintended deviation.
Load Frequency Control Program Schedule	A schedule that provides the schedule information for the Load Frequency Control Program of a Control Area or a Control Block.
Timeframe Independent Schedule	A compilation of all external Timeframe Independent Schedules concerning two System Operators.
Information request	An information request being made concerning some specific information.
status request for a position independently from a specific process	A status request concerning the position of an object independently of any ongoing processes.
Estimated Net Transfer Capacity	The estimated net transfer capacity for a given border.
Compensation rights	The capacity rights that have been allocated as compensation.
Redispatch notice	A notice to confirm the actions agreed between System Operators to resolve a congestion situation through redispatch.
Tender reduction response	A response to a tender reduction request that provides corrections to the initial document.
System total load	Total load', including losses without power used for energy storage, is equal to generation deducted with exports, added with imports and deducted with power used for energy storage.
Final MOL	A document providing the information concerning the situation of the MOL at the end of an activation period.
Resource Provider Schedule for production/consumption	A document providing the schedules for production/consumption for resource objects submitted by a resource provider.
Installed generation per type	A document providing the installed generation per generation type.
Wind and solar forecast	A document providing the forecast of wind and solar generation.
Load forecast margin	A document providing the load forecast margin for a period.
Generation forecast	A document providing the generation forecast for a period.

Reservoir filling information	A document providing information concerning the filling of reservoirs.
Actual generation	A document providing the actual generation for a period.
Wind and solar generation	A document providing the generation of wind and solar energy for a period.
Actual generation per type	A document providing the actual generation per generation type for a period.
Load unavailability	A document providing the unavailability of units providing load on the network.
Production unavailability	A document providing the unavailability of production units providing energy to the network.
Transmission unavailability	A document providing the unavailability of transmission capacity on the network.
Offshore grid infrastructure unavailability	A document providing the unavailability of an offshore grid infrastructure to the network.
Generation unavailability	A document providing the unavailability of generation units providing energy to the network.
Contracted reserves	A document providing the reserves contracted for a period.
Accepted offers	A document providing the offers of reserves that have been accepted for a period.
Activated balancing quantities	A document providing the quantities of reserves that have been activated for balancing.
Activated balancing prices	A document providing the prices of the reserves that have been activated for balancing.
Imbalance prices	A document providing the prices of reserves due to imbalance for a period.
Imbalance volume	A document providing the volume of the imbalance for a period.
Financial situation	A document providing the financial situation for reserves.
Cross border balancing	A document providing the cross border balancing requirements for a period.
Contracted reserve prices	A document providing the price of reserves contracted for a period.
Interconnection network expansion	A document providing information on the expansion of the interconnection network.
Counter trade notice	A document providing information on counter trades for a period.
Congestion costs	A document providing the cost of congestion for a period.
DC link capacity	A document providing the DC links for a period.
Non EU allocations	A document providing allocations made to non EU member states.

Configuration document	A document providing configuration information.
Redispatch activation document	A document enabling the activation of a redispatch notice.
Detailed activation history document	A document enabling a detailed history of activations.
Aggregated activation history document	A document enabling an aggregated history of activations.
HVDC Link constraints	A document providing the information concerning the maximum and minimum active power flow through each link can limited.
HVDC Configuration	A document providing the information concerning the power set point. The mode in which the HVDC is managed.
HVDC Schedule	A document providing the information for operating DC links.
EIC code request	A document providing the information requesting a new EIC code.
EIC code information	A document providing EIC information in a central registry exchange or information to an EIC participant.
EIC code publication	A document providing EIC publication information in a web site publication of a limited set of information.
Critical network element determination	A document providing all the elements necessary for the capacity coordinator to determine the transfer capacity and the associated critical network elements.
Critical network element publication	A document providing all the elements necessary for the market information aggregator and TSOs to know the critical network elements which limit the transfer capacity.
Flow based domain	A document providing the capacity domain and its limits available for the TSO.
Flow based domain publication	A document providing the capacity domain and its limits available for the market.
Flow based domain market impact publication	A document providing the capacity domain and its impacts on the market to be published.
Anonymized flow based parameters publication	A document providing all the relevant flow based parameters in case of flow based capacity allocation.
Critical network element market impact publication	A document providing the critical network elements and its impacts on the market to be published.
Weather document	An estimation or prediction in advance of the weather by analysis of meteorological data and the results of what actually happened with the weather.
Energy prognosis document	A document to provide the prognosis of energy production/load for a given period.
Network constraint document	A document providing the network constraint situations used for the load flow studies. A network constraint situation includes contingencies, monitored elements and remedial actions.
Aggregated netted external market schedule document	A document used to report aggregated netted external market schedules for a given border.

Aggregated netted external TSO schedule document	A document used to report aggregated netted external TSO schedules for a given border.
Reporting status market document	A document used to report the status of aggregated netted external market schedules, aggregated netted external TSO schedules and compensation program schedules on a given border.
Reporting information market document	A document used to report the information concerning aggregated netted external schedules, aggregated netted external market schedules, aggregated netted external TSO schedules, compensation program schedules, netted area position schedules and netted area AC position schedules to an interested party.
Status request for a reporting information market document	A document requesting the provision of a reporting information document.
Reserve need document	Used by a TSO to send its reserve needs.
Generation and load shift keys document	A document providing the values of the generation and load shift keys to be used on network model.
Offers to be activated	A document containing the outcome of the process, with the list of offers that are to be activated by the TSO concerned and the results for its reserve needs.
Clearing price	A document containing the outcome of the process, with the clearing prices for a period.
Security analysis report	A document providing a report on a performed security analysis.
Aggregated netted external schedule document	A document used to report aggregated netted external schedules for a given border.
External TSO schedule	A document used to report external TSO schedules for a given border or interconnector.
Move of scheduled production	A document indicating a move of scheduled production.
PS&LC results document	A document providing Pole Splitting & Loss Calculation results.
Notification data market document	A document used to notify data to any information receiver.
Additional Constraint document	A document describing additional constraints for a capacity calculation process.
Operational state document	A document used for exchanging operational states for grid assets.
Published offered capacity	A document providing the most recent values of offered capacity.
Market result document	Published prices and volumes
Area Configuration document	A document containing the definition of areas.
Area Composition document	A document containing the relations between areas, i.e which Metering Grid Areas a Bidding Zone composed of.
Connected Areas document	A document containing which other areas an area is connected to i.e. which Metering Grid Areas a

Metering Grid Area is connected to.

Settlement document	A document providing settlement information.
Imbalance prognosis document	A document to provide the prognosis of energy imbalances for a given period.
Complete set of bids	Submission of complete set of bids. If there are existing bids, they should be replaced.
Merged MOL notice	A notice providing information on the MOL merging process.
K-factor document	A document providing K-factor values.
Settlement coordination document	A document providing settlement information for coordination between different parties.
Financial settlement document	A document providing financial settlement information.
Bid availability document	A document providing the detailed reasons for changing the availability or volume of a bid.
Resource capacity unit document	A document providing information about resource capacity units.
Other market information	A document providing other market information.
Message partially accepted	The detailed transactions of the received document are partially accepted. It is necessary to look at the detailed (transaction) level to determine if the transaction is accepted, rejected etc.
Requested capacity	A document providing requested capacity (e.g. ATC, CZCL) value.

Compound types

ESMP_DateTimeInterval

ESMPDataTypes

This datatype enables to express the start date and time, and the end date and time of a time interval with a specific pattern. This pattern is the YYYY-MM-DDThh:mmZ.

start	1 .. 1	<u>YMDHM_DateTime</u>	The start date and time of the interval with a minute resolution.
end	1 .. 1	<u>YMDHM_DateTime</u>	The end date and time of the interval with a minute resolution.

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	<u>CodingSchemeTypeList</u>	DomainQualification.
---------------------	--------	---	----------------------

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

[PartyID_String](#)

[ESMPDataTypes](#)

The identification of an actor in the energy market.

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

codingScheme	1..1	CodingSchemeTypeList	DomainQualification.
---------------------	------	--------------------------------------	----------------------

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

[MarketRoleKind_String](#)

[ESMPDataTypes](#)

The identification of the role played by a party.

value	1..1	RoleTypeList	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.
--------------	------	--------------------------	------------------------

[ReasonCode_String](#)

[ESMPDataTypes](#)

The coded motivation of an act.

value	1..1	ReasonCodeTypeList	Main Core value Space.
--------------	------	------------------------------------	------------------------

[Status_String](#)

[ESMPDataTypes](#)

The identification of the status of an object.

value	1..1	StatusTypeList	Main Core value Space.
--------------	------	--------------------------------	------------------------

[ProcessKind_String](#)

[ESMPDataTypes](#)

The coded identification of the nature of process.

value	1..1	ProcessTypeList	Main Core value Space.
--------------	------	---------------------------------	------------------------

[ReasonText_String](#)

[ESMPDataTypes](#)

The textual explanation of an act as a string of characters.

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.
--------------	------	------------------------	------------------------

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.
--------------	------	------------------------	------------------------

MessageKind_String

[ESMPDataTypes](#)

The coded type of a document.

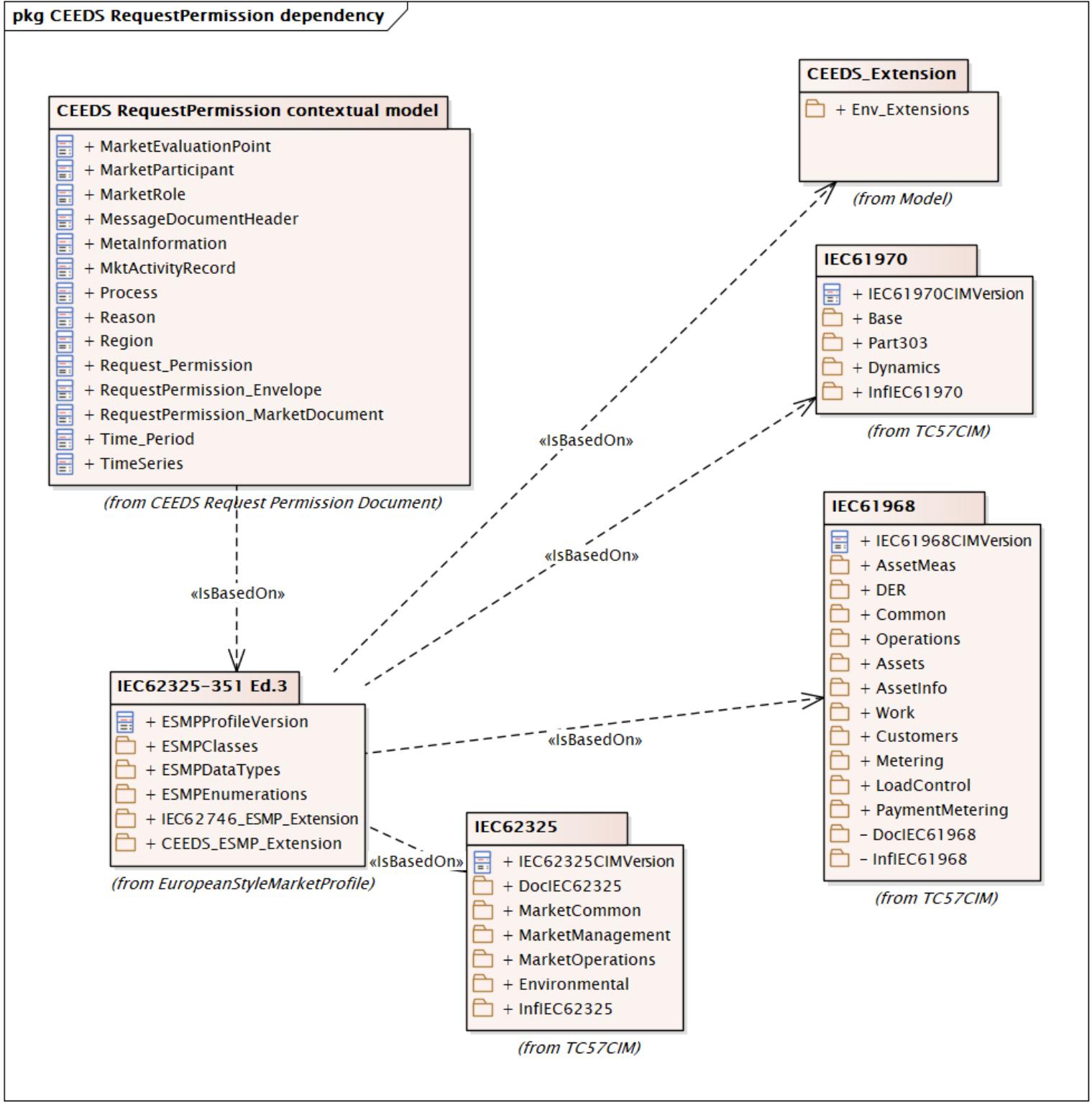
value	1..1	MessageTypeList	Main Core value Space.
--------------	------	---------------------------------	------------------------

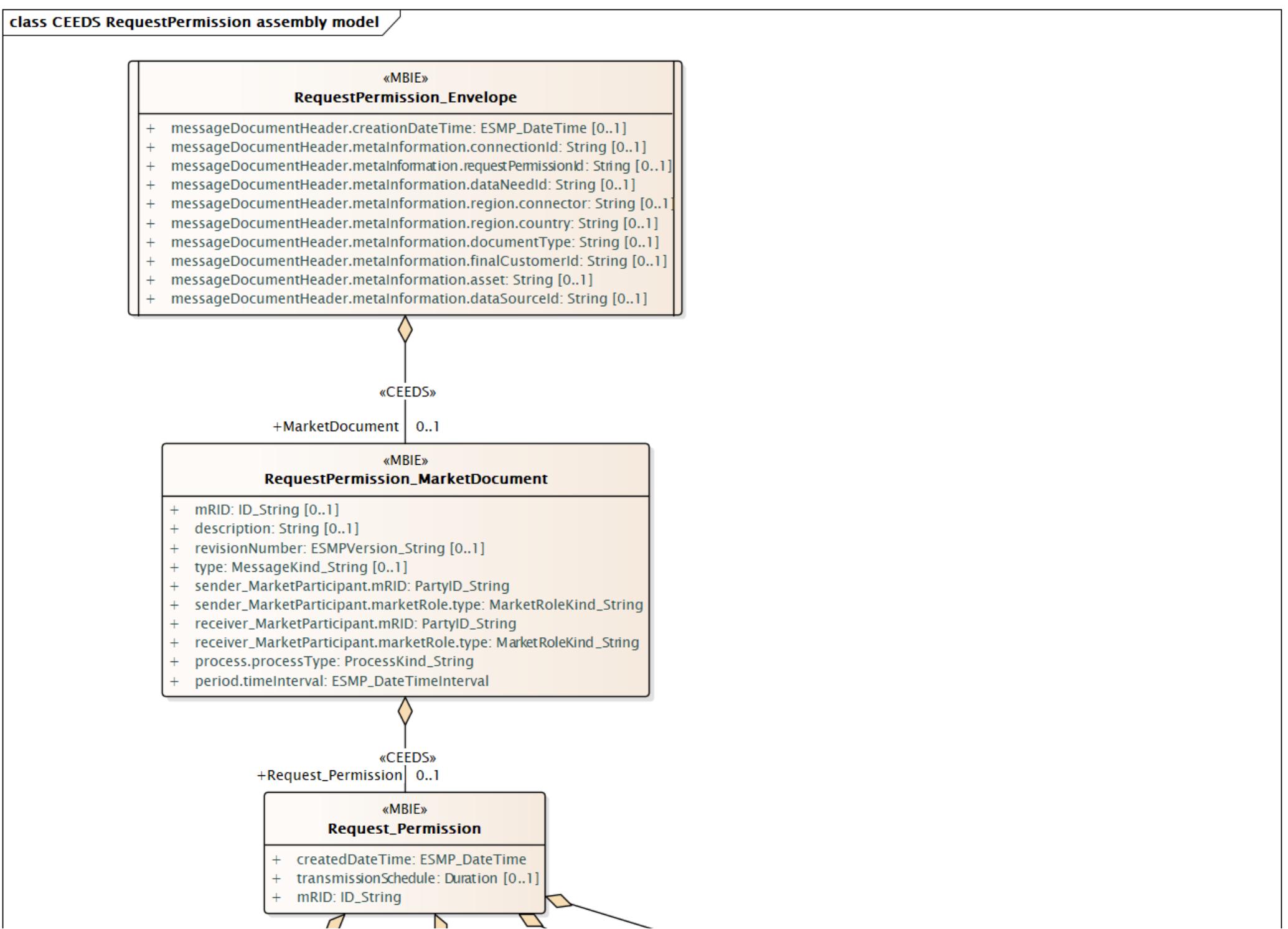
YMDHM_DateTime

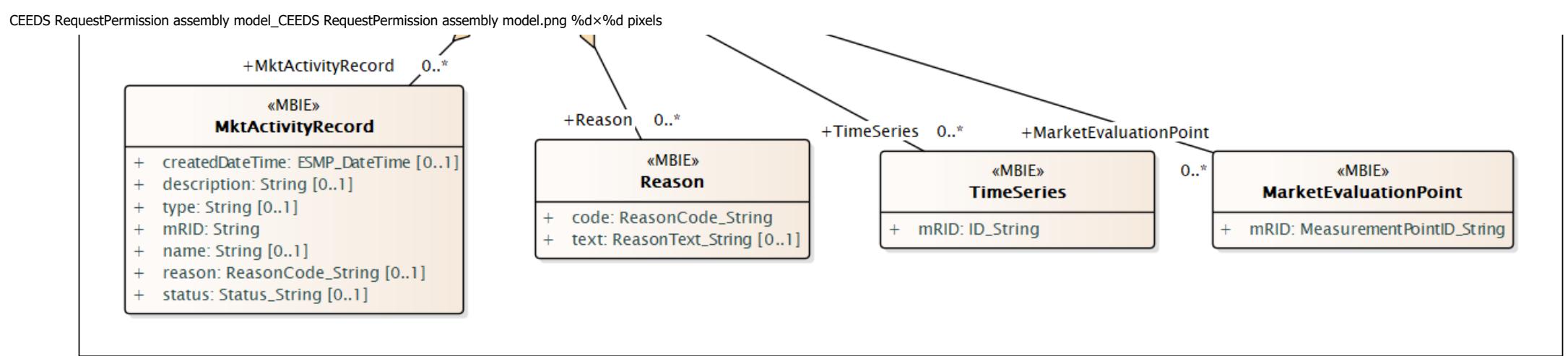
[ESMPDataTypes](#)

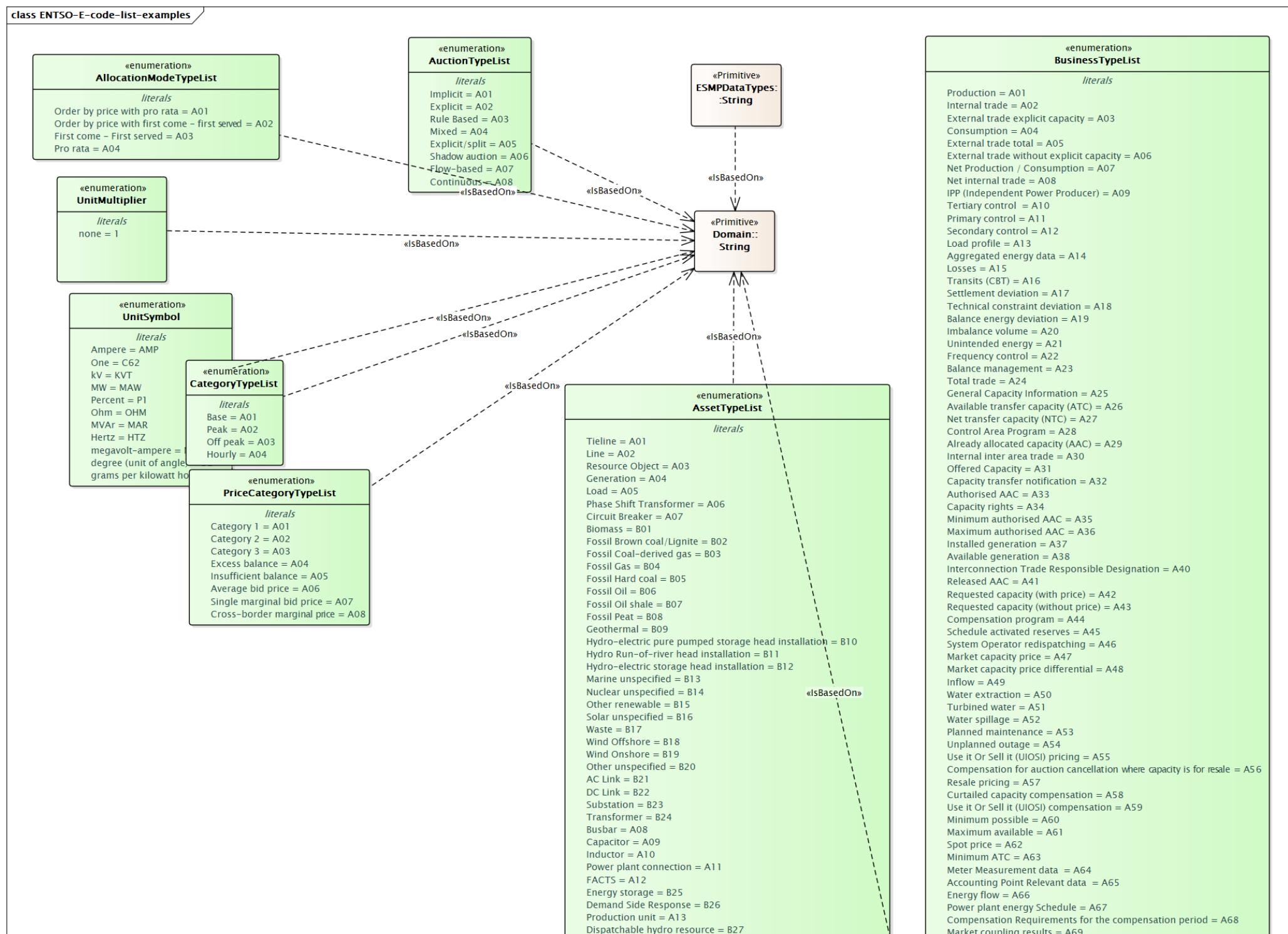
In ESMP, the date and time is expressed as "YYYY-MM-DDThh:mmZ", which conforms with ISO 8601 UTC time zone. This date and time is without the seconds.

value	1..1	DateTime	The date and time as "YYYY-MM-DDThh:mmZ", which conforms with the ISO 8601 UTC time zone.
--------------	------	--------------------------	---









Solar photovoltaic = B28	Production, unavailable = A70
Solar concentration = B29	Supplementary available generation = A71
Wind unspecified = B30	Interruptible consumption = A72
Hydro-electric unspecified = B31	Summarised Market Balance Area Schedule = A73
Hydro-electric mixed pumped storage head installation = B32	Load Frequency Control Program Schedule = A74
Marine tidal = B33	Timeframe Independent Schedule = A75
Marine wave = B34	Consumption curtailment = A76
Marine currents = B35	Production, dispatchable = A77
Marine pressure = B36	Consumption, dispatchable = A78
Thermal unspecified = B37	Production, non-dispatchable = A79
Thermal combined cycle gas turbine with heat recovery = B38	Consumption, non-dispatchable = A80
Thermal steam turbine with back-pressure turbine (open cycle) = B39	Total Transfer Capacity (TTC) = A81
Thermal steam turbine with condensation turbine (closed cycle) = B40	Mutual Emergency Assistance Service (MEAS) = A82
Thermal gas turbine with heat recovery = B41	Auction cancellation = A83
Thermal internal combustion engine = B42	Nomination curtailment = A84
Thermal micro-turbine = B43	Internal redispatch = A85
Thermal Stirling engine = B44	Control area balance energy = A86
Thermal fuel cell = B45	Balancing energy price = A87
Thermal steam engine = B46	Economised secondary reserve = A88
Thermal organic Rankine cycle = B47	Spinning reserve = A89
Thermal gas turbine without heat recovery = B48	Solar = A90
Nuclear heavy water reactor = B49	positive forecast margin = A91
Nuclear light water reactor = B50	Negative forecast margin = A92
Nuclear breeder = B51	Wind generation = A93
Nuclear graphite reactor = B52	Solar generation = A94
	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
	Congestion costs = B04
	Capacity allocated (including price) = B05
	DC link constraint = B06
	Auction revenue = B07
	Total nominated capacity = B08
	Net position = B09
	Congestion income = B10
	Production unit = B11
	Rounded market coupling results = B12
	Allocation Revenue = B13
	Production deviation = B14
	Consumption deviation = B15
	Transmission asset = B16
	Consumption unit = B17
	In-feed ATC = B18
	Out-feed ATC = B19
	Balance up regulation price = B20
	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
	Metering Grid Area (MGA) imbalance = B29
	HVDC Link settings = B30
	Transmission Reliability Margin (TRM) = B31
	Imbalance component for a pool = B32
	Area Control error (ACE) = B33
	Area Control Error after Imbalance Netting = B34
	Implicit and explicit trade total = B35
	Production units own consumption = B36
	Constraint situation = B37
	Initial domain = B38
	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
 Network Element = B59
 SPS = B60
 Aggregated netted external market schedule = B61
 Aggregated netted external TSO schedule = B62
 Aggregated netted external schedule = B63
 Netted area AC position = B64
 Netted area position = B65
 Interconnection shift key = B66
 DC flow with losses = B67
 DC flow without losses = B68
 minimum value of netted area position = B69
 maximum value of netted area position = B70
 maximum value of DC flow = B71
 minimum value of DC flow = B72
 indicative AC flow = B73
 Offer = B74
 Need = B75
 Opportunity costs or benefits = B76
 Financial compensation or penalties = B77
 Global radiation = B78
 Diffuse radiation = B79
 Direct solar radiation = B80
 Outage (OUT) = B81
 Special switching state (SSS) = B82
 Testing (TEST) = B83
 Auxiliary busbar operation = B84
 Automatic reclosing = B85
 Busbar protection = B86
 Phase Shift Angle = B87
 Base Case Network Situation = B88
 Inter-TSO assistance = B89
 FlexibleNeed = B90
 GLSK Limitation = B91
 Capacity ramping limitation = B92
 interconnector capacity = B93
 Must Run = B94
 Procured capacity = B95
 Used capacity = B96
 Estimated costs = B97
 Estimated benefits = B98
 Load Shedding = B99
 Remaining Capacity = C01
 Indicator of generation capacity adequacy = C02
 Income from price divergence without congestions = C03
 Push-button = C04
 Interripping = C05
 Emergency instruction = C06
 Ramp management = C07
 Profile smoothing = C08
 Emergency reallocation deselection = C09
 SO-SO-trade = C10
 Production reduction = C11
 Maximum power exchange = C12
 Maximum power exchange after remedial actions = C13
 Network constraint situation that cannot limit the market = C14
 Flat participation for all generators or loads = C15
 Proportional to installed capacity of generators = C16
 Market price and total volume = C17
 Import price = C18
 Capacity allocated (excluding price) = C19
 Common Grid Model Equipment = C20

Exchanged balancing reserve capacity = C21
Shared balancing reserve capacity = C22
Share of reserve capacity = C23
Actual reserve capacity = C24
K-factor = C25
Frequency Containment Reserve–Normal (FCR-N) = C26
Frequency Containment Reserve–Disturbance (FCR-D) = C27
Internal trade difference = C28
Small scale production = C29
System price = C30
Wind gust = C31
Area imbalance = C32
Unintended energy price = C33
Frequency containment process energy = C34
Frequency containment process energy price = C35
Ramping period energy = C36
Ramping period energy price = C37
Frequency deviation = C38
Day-Ahead market price = C39
Conditional bid = C40
Thermal limit = C41
Frequency Limit = C42
Voltage limit = C43
Current limit = C44
Short circuit current limit = C45
Dynamic stability limit = C46
Disconnection = C47
Intended energy with positive price = C48
Intended energy with negative price = C49
Decoupling = C50
Resource capacity unit = C51
Resource entry capacity data = C52
Resource capacity obligation data = C53
Available energy = C54
Production curtailment = C55
Rounding error = C56
Metered frequency = C57
Adjusted TTC to the nominal criteria = C58
Adjusted TTC to the nominal criteria with TSOs limitation = C59
Frequency deviation larger than standard deviation = C60
Frequency deviation larger than maximum deviation = C61
Frequency deviation not returned to 50% = C62
Frequency deviation not returned to restoration range = C63
Frequency deviation outside recovery range = C64
Frequency = C65
Mean value = C66
Standard deviation = C67
Percentile = C68
Measured frequency resolution = C69
Accuracy = C70
FRCE outside level 1 range = C71
FRCE outside level 2 range = C72
FRCE exceeded 60% of FRR capacity = C73
FRCE exceeded steady state deviation = C74
FRCE calculation and accuracy descriptor = C75
Forecasted capacity = C76
Minimum available capacity = C77
Average available capacity = C78
Maximum available capacity = C79
Frequency and accuracy descriptor = C80
Long-Term internal redispatch = C81
Other unavailability = C82
Faster than standard FAT = C83
Faster than standard deactivation time = C84
Slower than standard FAT = C85
Remedial action cost summary = C86
Settlement result = C87
Reserved cross zonal capacity = C88
Energy reserves = C89
Combined dynamic constraint = C90
Anonymised constraint = C91

