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

Concrete Classes

CEEDSActivation_Envelope — CEEDS_Activation assembly model

The envelope entity is a non-CIM object used in an energy data space environment to serve as a central top-level entity connecting the MarketDocumentHeader (energy data space specific context information block) with the regular CIM MarketDocument.

Native Members

MessageDocumentHeader	[0..1]	MessageDocumentHeader
MarketDocument	[0..1]	CEEDSActivation_MarketDocument

CEEDSActivation_MarketDocument — CEEDS_Activation assembly model

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

Native Members

activation_Time_Period.timeInterval	1..1	ESMP_DateTimeInterval	The start and end date and time for a given interval. --- This information provides the start and end date and time of the activation time interval.
createdDateTime	1..1	ESMP_DateTime	The date and time of the creation of the document.
domain.mRID	0..1	AreaID_String	The unique identification of the domain. --- The identification of the domain that is covered in the document.

mRID	1..1	ID_String	The unique identification of the document being exchanged within a business process flow.
order_MarketDocument.mRID	0..1	ID_String	The unique identification of the document being exchanged within a business process flow.
order_MarketDocument.revisionNumber	0..1	ESMPVersion_String	The identification of the version that distinguishes one evolution of a document from another.
process.processType	0..1	ProcessKind_String	The identification of the nature of process that the document addresses. --- The process dealt with in the document.
receiver_MarketParticipant.marketRole.type	1..1	MarketRoleKind_String	The identification of the role played by a market player. --- Document recipient. --- The role associated with a MarketParticipant.
receiver_MarketParticipant.mRID	1..1	PartyID_String	The identification of a party in the energy market. --- Document recipient.
revisionNumber	1..1	ESMPVersion_String	The identification of the version that distinguishes one evolution of a document from another.

sender_MarketParticipant.marketRole.type	1..1	MarketRoleKind_String	The identification of the role played by a market player. --- Document owner. --- The role associated with a MarketParticipant.
sender_MarketParticipant.mRID	1..1	PartyID_String	The identification of a party in the energy market. --- Document owner.
subject_MarketParticipant.marketRole.type	0..1	MarketRoleKind_String	The identification of the role played by a market player. --- --- The role associated with a MarketParticipant.
subject_MarketParticipant.mRID	0..1	PartyID_String	The identification of a party in the energy market.
type	1..1	MessageKind_String	The coded type of a document. The document type describes the principal characteristic of the document.

EnvAsset

CEEDS_Activation assembly model

EnvAsset is an energy data space specific attribute referring to the Asset from which data is being requested

Native Members

meterId	0..1	String	meterId is an energy data space specific attribute that specifies the id of the meter that measures the asset.
operatorId	0..1	String	operatorId is an energy data space specific attribute that specifies the

			id operator of the asset refered to.
type	0..1	String	type is an energy data space specific attribute that specifies type of asset refered to.

MessageDocumentHeader — CEEDS_Activation assembly model

MessageDocumentHeader is an energy data space specific entity with the creationDateTime of this document.

Native Members

creationDateTime	0..1	ESMP_DateTime	The date and time the MessageDocumenHeader was created.
MetaInformation	[0..1]	MetaInformation	

MetaInformation — CEEDS_Activation assembly model

MetaInformation is an energy data space specific entity referring to the information concerning the technical and functional context of the MarketDocument.

Native Members

connectionId	0..1	String	connectionId is an energy data space specific attribute referring to the established connection used for the communication of this document.
dataNeedId	0..1	String	dataNeedId is an energy data space specific attribute holding the type of data need requested, like ‘last 24 hours at 1 hour interval”.
dataSourceId	0..1	String	dataSourceId is an energy data space specific attribute referring to the datasource from which the requested data is being queried.
defaultValues	0..1	String	defaultValues is a energy data space specific attribute to hold relevant default values. The format to use can freely be chosen based on the implementation. Most commonly you would expect a semi-colon separated name value

			pair, like: "minPower=value; maxPower=value; avgPower=value".
documentType	0..1	String	documentType is an energy data space specific attribute referring to the type of document, comparable to the MessageTypeList in the CIM part of the message. Note: This is applicable if you have the need to know the content without having to open the complete document. DocumentType might contain messages not (yet) part of the MessageTypeList.
finalCustomerId	0..1	String	The finalCustomerId is an energy data space specific attribute identifying the actor doing the request for data or data sharing.
regionConnector	0..1	String	regionConnector is an energy data space specific attribute that specifies the regional connector being used to retrieve the data requested.
regionCountry	0..1	String	regionCountry is an energy data space specific attribute that specifies the country where the regional connector is located.
requestPermissionId	0..1	String	The requestPermissionId is energy data space specific identification attribute holding an unique identifier issued by the energy data space to allow for tracing of the permission through serveral message exchanges. Note: the requestPermissionId is NOT the identifier issued by the Identity Service Provider as specified in the EU Implementing Act on access to Metering and Consumption Data.
EnvAsset	[0..1]	EnvAsset	

Point

CEEDS_Activation assembly model

The identification of the values being addressed within a specific interval of time.

Native Members

position	1..1	Position_Integer	A sequential value representing the relative position within a given time interval.
quantity	1..1	Decimal	The principal quantity identified for a point.

Quantity — CEEDS_Activation assembly model

Description of quantities needed in the data exchange.
The type of the quantity is described either by the role of the association or the quantityType attribute.
The quality attribute provides the information about the quality of the quantity (measured, estimated, etc.).

Native Members

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

Reason — CEEDS_Activation 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.

Series_Period — CEEDS_Activation assembly model

The identification of the period of time corresponding to a given time interval and resolution.

Native Members

resolution	1..1	Duration	The definition of the number of units of time that compose an individual step within a period.
timeInterval	1..1	ESMP_DateTimeInterval	The start and end time of the period.

TimeSeries

CEEDS_Activation assembly model

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

Native Members

acquiring_Domain.mRID	1..1	AreaID_String	The unique identification of the domain. --- The area where the product is being delivered.
businessType	1..1	BusinessKind_String	The identification of the nature of the time series.
connecting_Domain.mRID	1..1	AreaID_String	The unique identification of the domain. --- The area where the product is being extracted.
flowDirection.direction	1..1	DirectionKind_String	The coded identification of the direction of energy flow.
marketObjectStatus.status	1..1	Status_String	The coded condition or position of an object with regard to its standing.
measurement_Unit.name	1..1	MeasurementUnitKind_String	The identification of the formal code for a

			measurement unit (UN/ECE Recommendation 20). --- The unit of measurement used for the quantities expressed within the time series.
mRID	1..1	ID_String	A unique identification of the time series.
registeredResource.mRID	0..1	ResourceID_String	The unique identification of a resource. --- The identification of a resource associated with a TimeSeries.
resourceProvider_MarketParticipant.mRID	1..1	PartyID_String	The identification of a party in the energy market. --- The identification of the party putting the product into the in area.

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.
Coding scheme which are part of GS1 system	The coding schemes maintained by GS1.
Andorra National coding scheme	The National coding scheme of the country in question.
Albania National coding	The National coding scheme of the country in question.

scheme	
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.
ISO	The coding scheme for the preceding attribute is a code maintained by International Organization for Standardization (ISO), such as “ISO 3166 *English country names and code elements*”.

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.
Access to metered data	Access to meter readings of electricity consumption from or electricity feed into

	the grid.
Permission administration	Administration of permissions to access and/or use data.

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	A party that is responsible for operating a Local Issuing Office (LIO).

(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.

Flexibility service provider	A party that offers flexibility services based on acquired (aggregated) resources.
Data access provider	A party responsible for facilitating access to data.
Metered data administrator	A party responsible for storing and distributing validated measured data.
Permission administrator	A party responsible for administrating a register of data access permissions for a set of metering points, making this information available to final customers and eligible parties in the sector, on request.

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 indication 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.
Permission document	A document that contains detailed information about permissions.
Requested capacity	A document providing requested capacity (e.g. ATC, CZCL) value.
Voltage control activation document	A document providing the number of generating units to activate for voltage control, by means of their operation in synchronous condenser mode.
Transmission inventory document	A document providing a transmission inventory.
Transmission inventory	A document providing statistics on the transmission grid.

QualityTypeList ESMPEnumerations

The quality of an object.

Adjusted	The contents of the object have been adjusted.
Not available	The contents of the object are not available.
Estimated	The contents of the object are estimated. The code is typically used when measured values are missing and an estimate is made based on historical data.
As provided	The contents of the object are as provided.
Incomplete	The contents of the object are calculated based on incomplete data.
Calculated	The contents of the object are calculated. The code is typically used when a value is calculated based on several other known values.
Temporary	The content of the object is temporary. The code is typically used when there is communication trouble to a meter and a more correct value is expected later.

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	There is an error in the sender time series version, i.e. it could be superior to

version conflict	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	Planned reserves do not correspond with contractual data.

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 succesful	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 operational security	The capacity is adjusted because of an expected violation of operational security limits of physical transmission assets.
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	The time series is partially accepted.

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.
Wrong energy market timeframe	The given energy market timeframe is invalid or wrong.
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.
(Explicit) Permission from the customer	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: The data subject has given consent to the processing of his or her personal data for one or more specific purposes.
In execution of a contract with the customer (Execution of contract)	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: Processing is necessary for the performance of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract.
Legal obligations	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: Processing is necessary for compliance with a legal obligation to which the controller is subject.
In protection of vital interests of the customer	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: Processing is necessary in order to protect the vital interests of the data subject or of another natural person.
In order to perform a duty of common (national) interest	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: Processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller.
Justified interest of the dataprocessee	Based on the regulation (EU) 2016/679 (GDPR) Article 6, Lawfulness of processing: Processing is necessary for the purposes of the legitimate interests pursued by the controller or by a third party, except where such interests are overridden by the interests or fundamental rights and freedoms of the data subject which require protection of personal data, in particular where the data subject is a child
Fulfilment of purpose	The purpose of the object or action has been fulfilled.
Reach of end timestamp	The object or action has reached its end timestamp.

Revocation	Revocation of the action or object.
Termination	Termination of the action or object.
No valid grid access contract	There is no valid grid access contract for a specific metering point. There is no valid grid access contract for a specific metering point.
Customer move-out	A customer has moved out.

BusinessTypeList ESMPEnumerations

The exact business nature identifying the principal characteristic of a time series.

Production	The nature of the business being described is production details.
Internal trade	The nature of the business being described is internal trade details.
External trade explicit capacity	The nature of the business being described is external trade details between two areas with limited capacity requiring a capacity agreement identification.
Consumption	The nature of the business being described is consumption details.
External trade total	The nature of the business being described is external trade total.
External trade without explicit capacity	The nature of the business being described is external trade details between two areas without requiring capacity allocation information.
Net Production / Consumption	Net production/consumption - where signed values will be used. With the following rules: In area=Out area, In party=Out party, + means production and - means consumption.
Net internal trade	Net internal trade - where the direction from out party (seller) to in party (buyer) is positive and the opposite direction is negative (with minus signs).
IPP (Independent Power Producer)	A time series concerning the production schedule from an IPP.
Tertiary control	A time series concerning tertiary reserve.
Primary control	A time series concerning primary reserve.
Secondary control	A time series concerning secondary reserve.

Load profile	A time series concerning a load profile as calculated by a metered data aggregator.
Aggregated energy data	A time series concerning adjusted metered readings received from a metered data collector and aggregated and validated by a metered data aggregator.
Losses	A time series concerning losses that have been calculated for a tieline or an area.
Transits (CBT)	A time series concerning inter area transit flows determined for CBT requirements.
Settlement deviation	A time series concerning the imbalance energy calculated by an imbalance settlement responsible.
Technical constraint deviation	A time series defining the imbalance between schedules accepted by the system operator due to technical constraints and schedules declared by the balance responsible party.
Balance energy deviation	A time series defining the imbalance between the schedule of a balance responsible party that has been corrected by the system operator after using balance energy bids and the schedule that was accepted by the system operator due to technical constraints.
Imbalance volume	A time series defining the imbalance between the actual meter readings and the schedule of the balance responsible party corrected by the system operator after using balance energy bids.
Unintended energy	A timeseries concerning the volume of an unintended cross-border exchange of energy.
Frequency control	A time series concerning primary and secondary reserve.
Balance management	A time series concerning energy balancing services.
Total trade	A time series concerning the total of both the internal and external trades.
General Capacity Information	A time series providing the total capacity available on a TSO border.
Available transfer capacity (ATC)	Available transfer capacity for cross-border exchanges.
Net transfer capacity (NTC)	Net transfer capacity for cross-border exchanges.
Control Area Program	A time series providing the total exchanges between two TSOs (including the

	commercial transactions, the compensation program and the losses compensation program). Note this definition might change when UCTE brings forward its coding requirements.
Already allocated capacity (AAC)	The already allocated capacity is the total amount of allocated transmission rights.
Internal inter area trade	A trade that occurs between internal areas within a market balance area.
Offered Capacity	The time series provides the offered capacity.
Capacity transfer notification	The time series provides information concerning the notification of the transfer of capacity to another market participant.
Authorised AAC	The time series in question provides the amount of transmission capacity rights to be nominated.
Capacity rights	The time series in question provides the capacity rights allocated for a given border.
Minimum authorised AAC	The time series in question provides the minimum amount of transmission capacity rights to be nominated.
Maximum authorised AAC	The time series in question provides the maximum amount of transmission capacity rights to be nominated.
Installed generation	The time series in question provides the installed generation.
Available generation	The time series in question provides the available generation.
Interconnection Trade Responsible Designation	The Time series in question provides the designation of the ITR that may nominate the capacity in question.
Released AAC	The already allocated capacity (AAC) that has been released for resale.
Requested capacity (with price)	The time series in question provides information concerning the requested capacity including price information.
Requested capacity (without price)	The time series in question provides information concerning the requested capacity but excludes price information.
Compensation program	Compensation of unintentional deviation is performed by exporting to / importing from the interconnected system during the compensation period by means of schedules as calculated during the accounting of unintentional deviations.

Schedule activated reserves	The cross border or internal reserves that are to be activated through schedule nomination.
System Operator redispatching	The cross border redispatching between System Operators that are to be activated through schedule nomination.
Market capacity price	The price of the capacity offered on a given market.
Market capacity price differential	The difference between the price of capacity in a Market Balance Area receiving the capacity (In Area) and the price of capacity in a Market Balance Area providing the capacity (Out Area), i.e. In Area Price - Out Area price.
Inflow	The volume of water that flows into a reservoir in a given interval.
Water extraction	The volume of water that can be extracted from a reservoir in a given interval.
Turbined water	The volume of water that can be turbined in a plant in a given interval.
Water spillage	The volume of water that is not turbined going through the spillway in a given interval.
Planned maintenance	Maintenance has been planned for the object in question with a forecast ending date.
Unplanned outage	An unplanned outage has occurred on the object in question.
Use it Or Sell it (UIOSI) pricing	The time series provides information on the capacity resold in the "use it or sell it" process and its corresponding price.
Compensation for auction cancellation where capacity is for resale	The time series provides information on the compensation of the capacity for resale following an auction cancellation.
Resale pricing	For each Physical Transmission Rights holder, this document contains the resold capacity and its corresponding price.
Curtailed capacity compensation	The time series provides information to compensate a party when curtailment is applied on the capacity obtained in a previous auction, resale or transfer.
Use it Or Sell it (UIOSI) compensation	The time series provides information on the compensation for the capacity following an auction cancellation.
Minimum possible	The time series provides a schedule of minimum possible values for a Resource Object. The nature of the flow could be defined by the attribute Direction.

Maximum available	The time series provides a schedule of maximum available values for a Resource Object. The nature of the flow could be defined by the attribute Direction.
Spot price	The time series provides the market spot prices from an auction.
Minimum ATC	The Available Transmission Capacity that must be guaranteed because of regulatory constraints.
Meter Measurement data	The data as provided for a meter measurement source.
Accounting Point Relevant data	The metered data that is to be considered relevant for accounting purposes.
Energy flow	Energy flow information.
Power plant energy Schedule	Energy flow scheduled for a power plant.
Compensation Requirements for the compensation period	The time series provides the compensation requirements for a given compensation period.
Market coupling results	The time series provides the results of a market coupling auction.
Production, unavailable	Production capacity that normally would be available, but due to maintenance or similar is temporarily unavailable.
Supplementary available generation	The supplementary generation that is available.
Interruptible consumption	The consumption that may be interrupted on request.
Summarised Market Balance Area Schedule	A time series providing the total exchanges based on commercial transactions between two Market Balance Areas.
Load Frequency Control Program Schedule	A time series providing the schedule information for the Load Frequency Control Program.
Timeframe Independent Schedule	A time series providing the total exchanges of Timeframe Independent Schedules between two System Operators.
Consumption curtailment	A time series providing the amount of voluntary consumption curtailed by the energy supplier of an end-consumer.

Production, dispatchable	The nature of the business being described is dispatchable production details, i.e. generation output that can be changed by a request (activation order) of the TSO according with the applicable Market Rules.
Consumption, dispatchable	The nature of the business being described is dispatchable consumption details, i.e. consumption output that can be changed by a request (activation order) of the TSO according with the applicable Market Rules.
Production, non-dispatchable	The nature of the business being described is non-dispatchable production details, i.e. generation output that cannot be modified by an activation order.
Consumption, non-dispatchable	The nature of the business being described is non-dispatchable consumption details, i.e. consumption output that cannot be modified by an activation order.
Total Transfer Capacity (TTC)	The Total Transfer Capacity is the maximum exchange program between two areas compatible with operational security standards applicable at each system if future network conditions, generation and load patterns were perfectly known in advance.
Mutual Emergency Assistance Service (MEAS)	The cross border Mutual Emergency Assistance Service between System Operators that are to be activated through schedule nomination.
Auction cancelation	The time series covers auction cancellation right.
Nomination curtailment	The time series covers nomination curtailment rights
Internal redispatch	Redispatch to relieve Market Balance Area internal congestion.
Control area balance energy	A sum of secondary, tertiary control as well as other energy that was used to balance a control area.
Balancing energy price	Price of energy used to balance.
Economised secondary reserve	The activated secondary reserve that had been economised due to pooled reserve management.
Spinning reserve	The extra generating capacity that is available by increasing the production of generators that are already connected to the power system.
Solar	The business being described concerns solar power.
positive forecast margin	The business being described concerns a positive forecast margin.
Negative forecast margin	The business being described concerns a negative forecast margin.

Wind generation	The business being described concerns wind generation.
Solar generation	The business being described concerns solar generation.
Frequency containment reserve	The business being described concerns frequency containment reserve.
Automatic frequency restoration reserve	The business being described concerns automatic frequency restoration reserve.
Manual frequency restoration reserve	The business being described concerns manual frequency restoration reserve.
Replacement reserve	The business being described concerns replacement reserve.
Financial information	The business being described concerns financial information.
Interconnector network evolution	The business being described concerns interconnector network evolution.
Interconnector network dismantling	The business being described concerns interconnector network dismantling.
Counter trade	The business being described concerns counter trades.
Congestion costs	The business being described concerns congestion costs.
Capacity allocated (including price)	The business being described concerns capacity allocation and includes price information.
DC link constraint	The business being described concerns DC link constraints.
Auction revenue	The business being described concerns auction revenue.
Total nominated capacity	The business being described concerns the total nominated capacity.
Net position	The business being described concerns net position.
Congestion income	The business being described concerns congestion income.
Production unit	The business being described concerns a production unit.
Rounded market coupling results	Rounded outputs of the market coupling to be sent to TSOs and Market Participants.

Allocation Revenue	The time series provides information on the revenue generated by the allocations.
Production deviation	A time series concerning the imbalance energy between the metered production and the schedules calculated by an imbalance settlement responsible.
Consumption deviation	A time series concerning the imbalance energy between metered consumption and the forecasted consumption calculated by an imbalance settlement responsible.
Transmission asset	The business being described concerns a transmission asset.
Consumption unit	The business being described concerns a consumption unit.
In-feed ATC	Available Transfer Capacity at the in-feed side of a DC tieline.
Out-feed ATC	Available Transfer Capacity at the out-feed side of a DC tieline.
Balance up regulation price	A time series concerning balance regulation market prices for up regulation.
Balance down regulation price	A time series concerning balance regulation market prices for down regulation.
Main direction	A time series concerning the direction of balance regulations.
Consumption imbalance price	A time series concerning imbalance prices for consumption.
Production sales imbalance price	A time series concerning imbalance prices for production sales.
Production purchase imbalance price	A time series concerning imbalance prices for production purchase.
Average balance price between MBAs	A time series concerning the average prices between Market Balance Areas.
Pumped	A time series concerning the electricity consumption related to pumping.
Large installation consumption	A time series concerning consumption from large installation.
Metering Grid Area (MGA) imbalance	A time series concerning imbalance between reported consumption, production and exchange in a Metering Grid Area.

HVDC Link settings	The time series in question provides HVDC Link settings.
Transmission Reliability Margin (TRM)	A time series concerning Transmission Reliability Margin (TRM).
Imbalance component for a pool	This information is used to provide to a pool manager the combined imbalance of all the pool participants.
Area Control error (ACE)	The sum of the instantaneous difference between the actual and the set-point value of the measured total power value and Control Program including Virtual Tie-Lines for the power interchange of a LFC Area or a LFC Block and the frequency bias given by the product of the K-Factor of the LFC Area or the LFC Block and the Frequency Deviation.
Area Control Error after Imbalance Netting	A time series concerning the Area Control Error after applying the imbalance netting energy correction.
Implicit and explicit trade total	The sum of cross border schedules based on implicit and explicit trades including long term, yearly, monthly, weekly, daily processes.
Production units own consumption	The consumption of one or more production units.
Constraint situation	The timeseries describes the constraint situation for a given TimeInterval. A constraint situation can be: - composed of a list of network elements in outage associated for each outage to a list of network elements on which remedial actions have been carried out accordingly to contingency process - or it can be an external constraint.
Initial domain	The timeseries describe the full flow based domain for a given TimeInterval. Critical network elements are displayed in details and their impact on the market is quantified.
Flow based domain adjusted to long term schedules	The timeseries describe the full flow based domain for a given TimeInterval adjusted to the latest update of the schedules. Critical network elements are displayed in details and their impact on the market is quantified.
Network element constraint	The timeSeries describes limiting elements which are overloaded.
Calculation opposition (Red Flag)	The timeSeries describes a party who is opposed to the calculation result and imposes its transfer capacity value.
Base case proportional shift key	The GSK or LSK are proportional to the base case generation or load.
Proportional to participation factors	The GSK or LSK are proportional to the participation factors.

shift key	
Proportional to the remaining capacity shift key	The GSK is proportional to the remaining available capacity.
Merit order shift key	The GSK is proportional to a merit order list.
Wind speed	The TimeSeries provides information on the wind speed.
Wind direction	The TimeSeries provides information on the wind direction.
Solar irradiance	The TimeSeries provides information on the power per unit area produced by the sun in the form of electromagnetic radiation.
Air temperature	The TimeSeries provides information on the air temperature.
Cloudiness	The TimeSeries provides information on the cloudiness, i.e. the level of coverage of the sky with clouds.
Air humidity	The TimeSeries provides information on the level of humidity of the air.
Atmospheric pressure	The TimeSeries provides information on the atmospheric pressure.
Precipitation	The TimeSeries provides information on the amount of rain, snow, etc. that falls on the ground.
Network constraint situation that constraints the market	The TimeSeries describes the network elements, that constraints the market, to be taken into account to simulate a network constraint during the network load flow studies. The network situation includes the contingencies, the remedial actions, the monitored network elements and the potential additional constraints.
Contingency	The TimeSeries describes the network elements part of the contingency to be simulated for a given TimeInterval.
Remedial Action	The TimeSeries describes a set of remedial actions for a given TimeInterval.
Monitored Network Element	The TimeSeries describes the network elements to be monitored during the network load flow studies.
Busbar	The TimeSeries describes the network elements that composed a busbar.
Network Element	The TimeSeries describes network elements.

SPS	The TimeSeries describes the network elements managed by a Special Protection System (automation).
Aggregated netted external market schedule	The aggregated netted external market schedules for a given border.
Aggregated netted external TSO schedule	The aggregated netted external TSO schedules for a given border.
Aggregated netted external schedule	The aggregated netted external schedules for a given border.
Netted area AC position	The AC position for a given area.
Netted area position	The netted aggregation of all AC external schedules of an area plus the aggregated External Netted Schedules of related HVDC links of an area.
Interconnection shift key	The shift key series describes the amount of power to be shifted from a border area.
DC flow with losses	DC flow with losses refers to the values at the importing end of the DC line.
DC flow without losses	DC flow without losses refers to the values at the exporting end of the DC line.
minimum value of netted area position	That value which a netted area position must not fall below for a given area.
maximum value of netted area position	That value which a netted area position must not exceed for a given optimisation area.
maximum value of DC flow	That value which a balanced DC flow must not exceed for a given DC line on exporting end. When aligning DC flows CGMA algorithm will respect this constraint.
minimum value of DC flow	That value which a balanced DC flow must not fall below for a given DC line on exporting end. Currently this business type is only included for consistency reasons. It is always set to 0. This constraint might, however, be used in future. When aligning DC flows the CGMA algorithm will respect this constraint.
indicative AC flow	It is the hypothetical flow on the aggregate of all AC tie lines of an electrical border between two optimisation areas. It results from the adjustments to the preliminary netted area positions of all optimisation areas made by the CGMA algorithm. Indicative AC flows are an artefact of the CGMA algorithm, and do not correspond to physical flows
Offer	The time series provides an offer to provide reserves.
Need	The time series provides a requirement for reserves.

Opportunity costs or benefits	The time series describes any opportunity costs or benefits.
Financial compensation or penalties	The time series describes any financial compensation or penalties
Global radiation	The total short-wave radiation from the Global radiation is the total short-wave radiation from the sky falling onto a horizontal surface on the ground. It includes both the direct solar radiation and the diffuse radiation resulting from reflected or scattered sunlight.
Diffuse radiation	Radiation resulting from reflected or scattered sunlight.
Direct solar radiation	Radiation resulting from direct sunlight
Outage (OUT)	Outage process: Element is out of operation due to planned maintenance or due to an unplanned/forced outage. Outage may be used as a synonym for unavailability.
Special switching state (SSS)	Outage Process: This state applies to grid elements which are in operation in an exceptional state (e.g. separated nodes operation).
Testing (TEST)	Outage process: TESTING means any element status is possible - ON or OUT. This status applies either between first connection and final commissioning of the relevant asset, or directly following maintenance of the relevant asset.
Auxiliary busbar operation	Outage process: Element is in operation but connected via auxiliary busbar
Automatic reclosing	Outage process: Protection function Automatic reclosing is switched off for electric line
Busbar protection	Protection function busbar protection is switched off
Phase Shift Angle	The maximum phase shift angle allowed between two network elements.
Base Case Network Situation	The TimeSeries describes the network elements to be taken into account to simulate a base case network situation during the network load flow studies, without any contingency.
Inter-TSO assistance	Cross border assistance schedule between TSOs not interconnected directly.
FlexibleNeed	The business type indicates that the need is optional.
GLSK Limitation	A constraint related to a GLSK maximum or minimum limitation in the production or/and consumption shift.

Capacity ramping limitation	A constraint related to a ramping limitation on the capacity offered at a given border.
interconnector capacity	The maximum capacity that can be exchanged on an interconnector, excluding external factor on both ends.
Must Run	A time series concerning must run generation.
Procured capacity	An accepted offer of balancing capacity.
Used capacity	The used cross-zonal balancing capacity.
Estimated costs	Estimated costs of the process.
Estimated benefits	Estimated benefits of the process.
Load Shedding	A time series concerning a load shedding used to avoid failure of the power system.
Remaining Capacity	A time series concerning the remaining capacity.
Indicator of generation capacity adequacy	Indicator of adequacy, it indicates if there is final generation remaining capacity after SMTA calculation.
Income from price divergence without congestions	The time series describes income due to price divergence without congestion between bidding zones.
Push-button	The cross-border Push-button service between System Operators.
Intertripping	The cross-border Intertripping service between System Operators.
Emergency instruction	The cross-border Emergency instruction service between System Operators.
Ramp management	The schedule resulting from cross-border Ramp management service between System Operators.
Profile smoothing	The schedule resulting from cross-border Profile smoothing service between System Operators.
Emergency reallocation deselection	The schedule resulting from cross-border Emergency reallocation deselection service between System Operators.

SO-SO-trade	The generic cross border trade between System Operators.
Production reduction	A time series providing the volume of production reduced by an energy provider / producer / supplier.
Maximum power exchange	The timeseries provides the maximum admissible power flow between two bidding zones respecting operational security limits taking into account N-1 criterion.
Maximum power exchange after remedial actions	The timeseries provides the maximum admissible power flow between two bidding zones after remedial actions.
Network constraint situation that cannot limit the market	The TimeSeries describes the network elements, that cannot limit the market, to be taken into account to simulate a network constraint during the network load flow studies. The network situation includes the contingencies, the remedial actions, the monitored network elements and the potential additional constraints.
Flat participation for all generators or loads	Flat GSK factors of all generators or loads, independently of the size.
Proportional to installed capacity of generators	Generators participate relative to their maximum (installed) capacity (MW).
Market price and total volume	A time series concerning market price and total volume.
Import price	A time series concerning import price (the volume-weighted price average of all accepted bids).
Capacity allocated (excluding price)	The business being described concerns capacity allocation and excludes price information.
Common Grid Model Equipment	The timeseries provides equipment related to the Common Grid Model (CGM).
Exchanged balancing reserve capacity	The balancing reserve capacity exchanged between areas.
Shared balancing reserve capacity	The balancing reserve capacity shared between areas.
Share of reserve capacity	A time series concerning the share of reserve capacity.
Actual reserve capacity	A timeseries concerning actual reserve capacity.
K-factor	K-factor as stated in the SO GL Art. 2 (45). It is also known as Frequency Bias.

Frequency Containment Reserve-Normal (FCR-N)	FCR-N is a reserve that is automatically activated in both directions around a set point when the frequency varies between 50.10 Hz and 49.90 Hz after an imbalance.
Frequency Containment Reserve-Disturbance (FCR-D)	FCR-D is a reserve that is automatically activated when the frequency falls below 49.90 Hz or rises above 50.1 Hz after an imbalance.
Internal trade difference	A time series concerning internal trade difference, within an area, such as a Bidding Zone or Scheduling Area. The internal trade difference is the difference between trades reported from an out party (seller) and an in party (buyer).
Small scale production	Production from small scale production plants.
System price	The system price is an unconstrained market clearing reference price. It is calculated without any congestion restrictions by setting capacities to infinity.
Wind gust	An increase in the speed of the wind lasting for a short period.
Area imbalance	A time series concerning imbalance between planned consumption, production and exchange in an Area.
Unintended energy price	A timeseries concerning the price of the unintended cross-border exchange of energy.
Frequency containment process energy	A timeseries containing the volume of energy resulting from the frequency containment process.
Frequency containment process energy price	A timeseries containing the energy price from the frequency containment process.
Ramping period energy	A timeseries containing the volume of energy exchanged as a result of ramping between different ANES values.
Ramping period energy price	A timeseries containing the price of the energy exchanged as a result of ramping between different ANES values.
Frequency deviation	A timeseries concerning the difference between the actual and the nominal frequency of a synchronous area.
Day-Ahead market price	A timeseries concerning Day-Ahead market prices.
Conditional bid	Standard product bid that is conditional on bids submitted outside of common platform.
Thermal limit	The current causing a given network element to work outside of the range of

	safe operating temperatures.
Frequency Limit	A constraint related to the containment of frequency deviations within a given area.
Voltage limit	The maximum or minimum permissible voltage within normal operation state of a given network element.
Current limit	The maximum permissible current within normal operation state of a given network element.
Short circuit current limit	The maximum permissible short-circuit current within normal operation state of a given network element.
Dynamic stability limit	A maximum permissible load ensuring the control of oscillations in the grid and avoiding the loss of synchronism.
Disconnection	A timeseries describing disconnection of a TSO from a common platform.
Intended energy with positive price	A timeseries concerning the amount of intended energy with prices higher than zero (and including zero).
Intended energy with negative price	A timeseries concerning the amount of intended energy with prices lower than zero (excluding zero).
Decopuling	A time series describing decoupling of an area.
Resource capacity unit	A timeseries containing information about resource capacity units.
Resource entry capacity data	A timeseries containing the resource capacity that can be allocated to an eligible resource capacity operator from another area.
Resource capacity obligation data	A timeseries containing the resource capacity operator obligation to guarantee delivery.
Available energy	A timeseries concerning the available energy.
Production curtailment	A timeseries concerning the curtailment of production.
Rounding error	A timeseries describing a rounding error.
Metered frequency	The timeseries provides information about metered frequency.
Adjusted TTC to the nominal criteria	The exchange program between two areas which guarantees that the Margin

	Available for Cross-Zonal Trade (MACZT) fulfils the nominal criteria at least on the most limiting Critical Network Element with Contingency (CNEC) which limits the transfer capacity.
Adjusted TTC to the nominal criteria with TSOs limitation	The exchange program between two areas which allows the Margin Available for Cross-Zonal Trade (MACZT) on, at least, the most limiting Critical Network Element with Contingency (CNEC) to get closer to the nominal criteria fulfilment with a limited impact on the rest of the network.
Frequency deviation larger than standard deviation	Total time in which the absolute value of the instantaneous frequency deviation was larger than the standard frequency deviation.
Frequency deviation larger than maximum deviation	Total time in which the absolute value of the instantaneous frequency deviation was larger than the maximum instantaneous frequency deviation.
Frequency deviation not returned to 50%	Number of events in which the absolute value of the instantaneous frequency deviation of the synchronous area exceeded 200 % of the standard frequency deviation as stated in SO GL (EU) regulation Art 131.1.a.vi.
Frequency deviation not returned to restoration range	Number of events in which the absolute value of the instantaneous frequency deviation of the synchronous area exceeded 200 % of the standard frequency deviation.
Frequency deviation outside recovery range	Number of events for which the absolute value of the instantaneous frequency deviation was outside of the frequency recovery range.
Frequency	A time series describing measurement frequency.
Mean value	A time series describing mean values.
Standard deviation	A time series describing standard deviation.
Percentile	A time series describing percentiles.
Measured frequency resolution	A time series describing the resolution of a measured frequency.
Accuracy	A time series describing measurement accuracy.
FRCE outside level 1 range	The number of time intervals in which the average value of the FRCE was outside the Level 1 FRCE range as stated in SO GL. (EU) regulation Art 131.1.b.i.
FRCE outside level 2 range	The number of time intervals in which the average value of the FRCE was outside the Level 2 FRCE range as stated in SO GL (EU) regulation. Art 131.1.b.i.

FRCE exceeded 60% of FRR capacity	The number of events for which the FRCE exceeded 60 % of the reserve capacity on FRR as stated in SO GL (EU) regulation Art 131.1.b.ii.
FRCE exceeded steady state deviation	The number of events for which the absolute value of the FRCE exceeded the maximum steady-state frequency deviation.
FRCE calculation and accuracy descriptor	A time series describing how FRCE is calculated and its accuracy.
Forecasted capacity	A time series describing forecasted capacity.
Minimum available capacity	A time series describing minimum available capacity.
Average available capacity	A time series describing average available capacity.
Maximum available capacity	A time series describing maximum available capacity.
Frequency and accuracy descriptor	A time series describing how system frequency and accuracy are determined.
Long-Term internal redispatch	A time series describing long-term redispatch to relieve Scheduling Area internal congestion.
Other unavailability	This is an unplanned unavailability. Not considered by market participants as a planned maintenance.
Faster than standard FAT	Bids that can support a ?Full Activation Time? (FAT) that is faster than standard FAT. Fast activation can be done for bids with activation time shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Faster than standard deactivation time	Fast deactivation can be done for bids with activation time shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Slower than standard FAT	Bids that can support a Full Activation Time (FAT) that is slower than standard FAT.
Remedial action cost summary	A timeseries summarizing all incurred costs and/or revenues per party related to the activated remedial actions eligible to Cost Sharing.
Settlement result	A timeseries representing the cost sharing settlement results between parties (i.e. which party will be paying and/or receiving money for the concerned period).

Reserved cross zonal capacity	The reserved cross zonal capacity for system operator needs (EBGL art. 38(1)(b) and art. 41.).
Energy reserves	A timeseries describing energy reserves.
Combined dynamic constraint	The time series describes a combined dynamic constraint, being defined as a limit on the sum of power flows on a set of network elements or partial flows on a set of network elements for the purpose to respect dynamic stability limits.
Anonymised constraint	The time series describes an anonymised constraint.
Synchronous condenser activation	Activates a number of generators or other units in synchronous condenser mode.
Permission administration details	A timeseries describing permission details such as authorisations, licenses or related regulatory requirements.
Maximum capacity value of AC border flow	Maximum flow on an AC border between two areas (capacity)
Initial forecast value of AC border flow	Initial flow on an AC border between two areas (forecast)

DirectionTypeList ESMPEnumerations

The coded identification of the direction of energy flow.

UP	Up signifies that the available power can be used by the Purchasing area to increase energy.
DOWN	Down signifies that the available power can be used by the Purchasing area to decrease energy.
UP and DOWN	Up and Down signifies that the UP and Down values are equal.
Stable	The direction at a given instant in time is considered to be stable.

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 or action 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 the unique TSO area describes by the document or series.
Common Network Data	The network data provided in the document or series concerns the whole area describes 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.
Validated	The object or action was validated.

Invalid	The object or action was invalid.
Timed out	The object or action was timed out.

UnitOfMeasureTypeList ESMPEnumerations

(synonym MeasurementUnit) The unit of measure that is applied to a quantity. The measurement units shall be in compliance with UN/ECE Recommendation 20.

ampere	The unit of electrical current in the International system of Units (SI) equivalent to one Coulomb per second.
megavolt-ampere	MVA unit as per UN/CEFACT recommendation 20.
One	A unit for dimensionless quantities, also called quantities of dimension one.
cubic hectometres	A unit of volume equal to one million cubic metres.
kilovolt	kV unit as per UN/CEFACT recommendation 20.
kilometre	km unit as per UN/CEFACT recommendation 20.
kilovolt ampere reactive	A unit of electrical reactive power represented by a current of one thousand amperes flowing due to a potential difference of one thousand volts where the sine of the phase angle between them is 1. The unity power factor is expressed in thousands of a volt ampere reactive.
gigawatt hour	GWh unit as per UN/CEFACT recommendation 20.
kilowatt hour	A total amount of electrical energy transferred or consumed in one hour.
kilowatt	A unit of bulk power flow, which can be defined as the rate of energy transfer /consumption when a current of 1000 amperes flows due to a potential of 1000 volts at unity power factor expressed in thousands of a watt.
megavolt ampere reactive hours	Total amount of reactive power across a power system.
megavolt ampere reactive	A unit of electrical reactive power represented by a current of one thousand amperes flowing due to a potential difference of one thousand volts where the sine of the phase angle between them is 1.
megawatt	A unit of bulk power flow, which can be defined as the rate of energy transfer /consumption when a current of 1000 amperes flows due to a potential of 1000

	volts at unity power factor expressed in millions of a watt.
cubic metres per second	The volume flow rate of cubic metre per second.
cubic metre	A Cubic metre.
metre	The length of a metre.
megawatt hours	The total amount of bulk energy transferred or consumed.
percent	A unit of proportion equal to 0.01.
gigawatt	GW unit as per UN/CEFACT recommendation 20.
watt	The watt is the International System of Units (SI) standard unit of power (energy per unit time), the equivalent of one joule per second.
meter per second	A unit of measurement of the speed expressed in m/s.
degree (unit of angle)	A unit of measurement of angles expressed in a 0 to 360 degree gradient.
watt per square meter	A unit of measurement of the density of heat flow rate expressed in watt per square meter.
Celsius	A unit of measurement of temperature expressed in degree Celsius.
OKTA unit	A unit of measurement of the cloudiness expressed in OKTA or OCTA, i.e. A unit of count defining the number of eighth-parts as a measure of the celestial dome cloud coverage.
hectopascal	A unit of measurement of the pressure expressed in hectopascal.
millimeter	A unit of measurement of length expressed in millimeter.
K (Kelvin)	Temperature unit refer ISO 80000-5 (Quantities and units, Part 5: Thermodynamics).
Hertz	HTZ unit as per UN/CEFACT recommendation 20.
Megawatt per Hertz	A unit of energy expressed as the load change in million watts that will cause a frequency shift of one hertz.
millihertz	A unit of frequency equal to 0.001 cycle per second.

minute	A period of time equal to sixty seconds.
second	A period of time equal to one second.

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

Datatypes

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.

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.

AreaID_String — ESMPDataTypes

The coded identification of a domain, i.e. balance area, grid area, etc.

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

domain identification.

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

ID_String — ESMPDataTypes

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

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

value	1..1	String	Main Core value Space.

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.

ProcessKind_String — ESMPDataTypes

The coded identification of the nature of process.

value	1..1	ProcessTypeList	Main Core value Space.

MarketRoleKind_String — ESMPDataTypes

The identification of the role played by a party.

value	1..1	RoleTypeList	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.

MessageKind_String — ESMPDataTypes

The coded type of a document.

value	1..1	MessageTypeList	Main Core value Space.

Position_Integer — ESMPDataTypes

An integer value, this value is used as a sequential value representing the relative position of an entity within a space such as a time interval.

value	1..1	Integer	Main Core value Space.

Quality_String — ESMPDataTypes

The coded identification of the quality of the information.

value	1..1	QualityTypeList	Main Core value Space.

ReasonCode_String — ESMPDataTypes

The coded motivation of an act.

value	1..1	ReasonCodeTypeList	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.

BusinessKind_String — ESMPDataTypes

The coded identification of the business type.

value	1..1	BusinessTypeList	Main Core value Space.

DirectionKind_String — ESMPDataTypes

The coded identification of the direction of energy flow.

value	1..1	DirectionTypeList	Main Core value Space.

Status_String — ESMPDataTypes

The identification of the status of an object.

value	1..1	StatusTypeList	Main Core value Space.

MeasurementUnitKind_String — ESMPDataTypes

The coded identification of a unit of measure that is applied to a quantity. The measurement units shall be in compliance with UN/ECE Recommendation 20.

value	1..1	UnitOfMeasureTypeList	Main Core value Space.

ResourceID_String — ESMPDataTypes

The identification of a resource object in the energy market.

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

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