

Basse Data Packages User Guide for XML Documents

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1 Terms and Definitions

Table 1 Terms and definitions

Term Definitio	n
Basse	eSett Settlement system. Refers to the Basse System in terms of technical communication.
BRS	BRS is an abbreviation of Business Requirement Specification available at <u>https://www.ediel.org</u> .
BSS	BSS is an abbreviation of Balance Settlement Solution.
MPS	MPS is an abbreviation of Market Participant System – Market Participant's information system communicating with Balance Settlement System
Message	Any business data sent between MPS and Balance Settlement System. The data must conform to one of the supported data flows.
XSD	XSD is an abbreviation for XML Schema Definition. Specifies how to formally describe the elements in an Extensible Markup Language (XML) document. It can be used by programmers to verify each piece of item content in a document.
Data Packages	Data packages are a functionality that enables market participants (BRPs and DSOs) to receive settlement data by subscription. eSett defines the content of a data package and also defines when the data packages will be compiled and sent out automatically. Data packages are divided into "specific" and "generic".
Specific Data Packages	Specific data packages utilize ENTSO-E and ebiX documents (formats) defined and specified in the BRS, but adjusted for NBS purposes by Basse vendor. Data sent into Basse (via Inbound data flows) are available in the same format in form of data package sent from Basse to MPS. E.g. Consumption data reported to Basse in document NEG (ebIX® based) Aggregated Data per MGA (E31, E44) are available in the same format via Data Package Consumption.
Generic Data Packages	Generic data packages utilize Basse generic format capable to carry almost any Basse time series data using one simplified XML format based on ENTSO-E. Generic data packages will mainly cover settlement aggregation time series. E.g. Data Package Aggregated Consumption per BRP and MBA uses the same XML format as Aggregated Bilateral Trade Purchase per BRP and MBA.
Basse Generic Format	Simplified ENTSO-E based XML format for Basse Time Series used across multiple data packages with various content.
NBS Handbook	Overview to the Nordic Imbalance Settlement Model from market participant's perspective available at http://www.esett.com/handbook/
Inbound	Message sent from MPS to Balance Settlement System.
Outbound	Message sent from Balance Settlement System to MPS.
Transition Date	The Go-Live date of Single Balance Settlement model. It has been agreed this will be any Monday at 00:00 CET.

2 Introduction

2.1 Background

Data packages are a functionality that enables market participants, such as Balance responsible parties (BRP) and Distribution System Operators (DSO) to receive settlement data by subscription. eSett defines the content of a data package and defines when the data packages will be compiled and sent out automatically. Data packages are divided into 2 types: "specific" and "generic".

Specific Data Packages utilize ENTSO-E and ebIX® documents (formats) defined and specified in the BRS, but adjusted for NBS purposes by Basse vendor. Data sent into Basse (via Inbound data flows) are available in the same format using data package sent from Basse to MPS. E.g. Consumption data reported to Basse in document ebIX® based NEG Aggregated Data per MGA (E31, E44) are available in the same format via Data Package 'REs consumption data per type and MGA'.

Generic Data Packages utilize Basse generic format capable to carry almost any Basse time series data using one XML format based on simplified ENTSO-E format. Generic data packages will mainly contain settlement aggregation time series. E.g. Data Package 'Aggregated Consumption per BRP and MBA' uses the same XML format as 'Aggregated Bilateral Trade Purchase per BRP and MBA'.

Data Packages are available for subscriptions in Online Service.

& eSett	Online Ser	vice				31 Admir	Company026	(CET) BRP10	(BRP) -	
INPUT DATA	SETTLEMENT	STRUCTURES FINANC	ES REPOR	TS MESSAG	GES INFO	RMATION	ADMINISTRA	TION		
Reports > Data Packages Management Data Packages Management										
Name	Name Frequency Subscription									
				Both	Subscribed 🤇	Not Subscri	bed			
			Filter	Clear						
Name	Description	Format	Frequency	Period from	Period to	Granularity				
Activated Res	BRP's activate	Activated Reserves	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
Bilateral trades	Bilateral trade	Bilateral Trade	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
REs' consump	All BRP's resp	Consumption	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
Consumption i	BRP's consu	Consumption Imbalance	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
Consumption	Consumption	Generic	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
Production Mi	Production Mi	Generic	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	
Consumption I	Consumption	Generic	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subscribe	

Figure 1 - Online Service Data Package Subscriptions

Column 'Format' determines the format used by each data package. View the mapping table to see what document standard each format refers to.

2.2 Summary

This document is a detailed User Guide for the Data Package documents used in the Nordic Balancing System. The focus of the document is the technical aspects of the documents to be exchanged.

Important Notice: Basse Data Packages are not involved in Acknowledgement process. Basse does not expect any acknowledgement to distributed documents.

2.3 References

Table 2 - References

Reference	Note
The BRS for Nordic Balance Settlement (NBS)	
Generic Data Packages XSD and XML Examples	Package with XSD and XML samples.
Basse Specific Data Package XML Samples	Package with XML samples.

3 Generic Data Package Documents

3.1 Introduction

Term 'Generic' is used for all those Data Packages using the generic XML format *Basse Time Series Document*. Basse Data Packages are not part of an Acknowledgement process which means that Basse does not expect any acknowledgement to this document.

Basse Time Series Document Format is a simplified ENTSO-E based XML format that can hold almost any Basse time series data. This format is called 'Generic' for its capability to be populated by various settlement data without having different XSD.

Generic data packages contain various settlement data on different aggregation levels (areas, market participants or time aggregation). Receiver of this data package must adopt only one format (one XSD) with recognition what data it contains. Thus, new data package can be added without publishing new interface (XSD).

See the list of available generic data packages in Data Package Overview.

Data Packages using Basse Time Series Documents are distinguished by value 'Generic' in column 'Format' in Online Service Data Package Management.

Figure 2 - Generic Data Packages in Online Service

& eSett	BRP10 (BRP) -								
INPUT DATA	SETTLEMENT	STRUCTURES FINANC	ES REPOR	TS MES	SAGES	INFORMATION	ADMINIST	RATION	
Reports > Data Packages Management Data Packages Management									
Name	Name Frequency Subscription Image: Subscription Image: Subscription Image: Subscription Image: Subscription								
			Filter	Clear					
Name	Description	Format	Frequency	Period from	Period to	Granularity			
Bilateral trades	Bilateral trade	Bilateral Trade	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
Consumption i	BRP's consu	Consumption Imbalance	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
Consumption	Consumption	Generic	Hourly	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
MGA Imbalan	All MGAs' imb	MGA Imbalance	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
REs' consump	All BRP's resp	Consumption	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
Production im	BRP's product	Production Imbalance	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
Activated Res	BRP's activate	Activated Reserves	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
MGA imbalan	MGA imbalan	Generic	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
MGA Imbalan	MGA Imbalan	Generic	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe
Elbas Flow Ex	Elbas Flow Ex	Generic	Daily	D-14	D-1	Hourly	Active in CET	View Messages	Unsubscribe

Basse Time Series Document is described in following chapter.

3.2 Basse Time Series Document

Basse Time Series Document is a XML document based on ENTSO-E standards.

General XML document features:

• Data are stored in attribute 'v'. No data are stored to child elements.

Basse Time Series Document Format is described in following table. Please note that

• sign [x] (e.g. [2]) in Element column determines the level in the XML structure for easy navigation

Table 3 - Basse Time Series Document Attribute Usage

Element Attribute	Card.	Description	Max Size	XML Example
[1] Basse Time Series Document	[1]	The root of the document.		
[2] Document Identification	[1]	Unique identification of the business document.	A35	<documentidentification v="9e4ceec7825544b7a7d7203aaa10a451"></documentidentification
[2] Document Type	[1]	Type of document. Document Type uniquely identifies the data package to which the market party subscribed. E.g. Document Type 'PROD_MINOR_BRP_MBA' identifies data package 'Production Minor Aggregated per BRP and MBA'. Data Package specifies what data will be populated in XML document. See Table 6 - Generic Data Package Document Types with mapping between data package name and document type. <i>Note: Document Type Codes List is not part of XML Scheme Definition</i> (XSD) to allow adding a new data package without changing the interface.	A255	<documenttype v="GDP_PROD_MINOR_BRP_MBA"/></documenttype
[2] Sender Identification	[1]	Sender Identification is unique identification of the sender (eSett ID). ENTSO-E document code and scheme identifiers are used.	A16	<senderidentification <br="" v="44X-0000000004B">codingScheme="A01" /></senderidentification>
Coding Scheme	[1]	Coding scheme for sender identification. A01 – EIC	A3	
[2] Sender Role	[1]	The sender role, which identifies the role of the sender within the document. A05 - Imbalance settlement responsible		<senderrole v="A05"></senderrole>
[2] Receiver Identification	[1]	The receiver of the document is identified by a unique coded identification.	A16	<receiveridentification v="11XHYDROENERGIEG" codingScheme="A01" /></receiveridentification
Coding Scheme	[1]	Coding scheme for receiver identification.	A3	

		 A01 - EIC A10 - GS1 NFI - Finland National coding scheme NSE - Sweden National coding scheme 		
[2] Receiver Role	[1]	 The receiver role, which identifies the role of the receiver within the document. A08 – Balance Responsible Party (BRP) A09 – Metered Data Aggregator (DSO) 	AЗ	<receiverrole v="A08"></receiverrole>
[2] Creation Date Time	[1]	The date and time that the document was prepared for transmission by the application of the sender. The date and time expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	A20	<creationdatetime v="2016-02-27T07:35:08Z" /></creationdatetime
[2] Document Time Interval	[1]	The beginning and ending date and time of the period covered by the document containing the time series. The start and end date and time is expressed as YYYY-MM-DDTHH:MMZ/YYYYMM-DDTHH:MMZ. The time is expressed in UTC.	A35	<documenttimeinterval v="2015-01-13T00:00Z/2015-01- 13T23:00Z"/></documenttimeinterval
[2] Time Series	[1*]	Document may contain one or more time series identified by business dimensions and time series ID.		<timeseries></timeseries>
[3] Time Series Identification	[1]	Unique ID of the Time Series (unique over time for the sender in question)	A35	<timeseriesidentification v="b4c02bbdd20e46e8b6988d859b837b5a" /></timeseriesidentification
[3] Business Dimensions	[1]	Definition of business dimensions of data. The basis of the generic Basse format. Most Basse time series are defined by area, market party, type/product (e.g. Production Minor, Pumped Storage Consumption) and in addition there might be units (PU, RO). The list of these business dimensions determines the time series data. Business dimensions may vary for each data package. See the list of business dimensions used by each data package in Table 6 - Generic Data Package Document Types.		<businessdimensions></businessdimensions>

[4] Business Dimension	[1*]	A reference of business dimension to which the data is bound. Business dimension contains name, value and coding scheme if it is used. See Table 4 - Business Dimension Types.		<businessdimension <br="" name="MBA">codingScheme="A01 v="TD_MBA1" /> <businessdimension <br="" name="BRP">codingScheme="A01" v="TD_BRP1" /></businessdimension></businessdimension>
Name	Name[1]Unique name of the business dimendent data packages use different dimendent Dimension Types.		A35	
Coding Scheme	[01]	Coding scheme is used only if an object, such as a party, a domain (area, unit) has identifier scheme to uniquely identify responsible agency for the code.	A3	
[4] Period	[1*]	There is at least one Period class in a time series.		
[5] Time Interval	[1]	This information provides the start and end date and time of the period being reported. The start and end date and time must is expressed in UTC with the following format: YYYY-MM-DDTHH:MMZ/YYYY-MMDDTHH:MMZ.	A35	<timeinterval v="2015-01-13T00:00Z/2015-
01-13T23:00Z "></timeinterval>
[5] Resolution	[1]	This information defines the resolution of a single period. The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. Where nY expresses a number of years, nM a number of months, nD a number of days. The letter "T" separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds. PT15M for 15-minute resolution, PT60M (PT1H) for hourly resolution, P1D – Day, P7D -Week	A14	<resolution v="PT60M"></resolution>
[5] Interval	[1*]	The interval class contains the relative position within a time interval period and the value associated with that position. The position begins with 1 and increment by 1 for each subsequent position forming a series of contiguous numbers covering the complete range of the period.		<interval></interval>

[6] Pos	[1]	This information provides the relative position of a period within a time interval. The relative position must be expressed as a numeric integer. Value beginning with 1.	16	<pos v="4"></pos>
[6] Value	[1]	A value specified for the given position. 'Name' attribute specifies type of the value (currently only quantity is supported). The maximum length of this information is 17 numeric characters (decimal point and sign, if used, included). The resolution is in MWh with max 6 decimals for value of type 'Quantity'.	DE17	<value name="Q" v="26"></value>
Name	[1]	Value type: Q (quantity)	A35	

Figure 3 - XML Scheme Visualization



3.2.1 Coding Schemes

Basse Time Series Format uses ENTSO-E coding schemes to identify uniquely the responsible agency for the code or identifier of an object, such as a party, a domain (Metering Point, Area etc.).

Coding Schemes are used currently for following objects:

• Areas (MBA, MGA)

• Market Parties (RE, BRP, BSP, DSO)

Coding Schemes are not used for code list items like e.g. Consumption types.

Coding Schemes in BASSE (EIC, GS1) are converted to ENTSO-E coding scheme according to following table.

BASSE Coding Scheme	Attribute 'codingScheme'
EIC	A01
GS1	A10
NFI	NFI
NSE	NSE
NNO	NNO
NDK	NDK

Example of BRP in BASSE (Online Service):

Code: BRP1, Coding Scheme: EIC

Data package XML document will include:

<ReceiverIdentification v="BRP1" codingScheme="A01" />

<BusinessDimension name="BRP" codingScheme="A01" v="BRP1" />

3.2.2 Business Dimension Types

Basse uses following list of business dimensions to describe time series in the Basse Time Series Document.

Table 4 - Business Dimension Types

XML Attribute 'Name' Value	Coding Scheme	Description
BRP	Yes	Value contains Balance Responsible Party (BRP) unique code with Coding Scheme attribute set (see Coding Schemes). XML element sample: <businessdimension codingscheme="A01" name="BRP" v="BRP1"></businessdimension>
RE	Yes	Value contains Retailer (RE) unique code with Coding Scheme attribute set (see Coding Schemes). XML element sample: <businessdimension codingscheme="A01" name="RE" v="RE1"></businessdimension>
MGA	Yes	Value contains Metering Grid Area (MGA) unique code with Coding Scheme attribute set (see Coding Schemes). XML element sample: <businessdimension codingscheme="A01" name="MGA" v="MGA1"></businessdimension>
МВА	Yes	Contains Market Balance Area (MBA) unique code with Coding Scheme attribute set (see Coding Schemes). <businessdimension codingscheme="A01" name="MBA" v="MBA1"></businessdimension>
CONSUMPTION_ TYPE	No	Identifies the type of the consumption together with Measurement Type. See Consumption Type Code List. XML element sample: <businessdimension name="CONSUMPTION_TYPE" v="A04"></businessdimension>
MEASUREMENT_TYPE	No	Identifies the type of consumption together with Consumption Business Type. See Consumption Type Code List. XML element sample: <businessdimension name="MEASUREMENT_TYPE" v="E01"></businessdimension>
PU_TYPE	No	Identifies the type of Production Unit. XML element sample: <businessdimension name="PU_TYPE" v="WIND"></businessdimension>

3.2.2.1 Consumption Type Code List

Basse consumption metering data interchange uses ebIX® format and business types.

Generic data-packages containing consumption data use ebIX business types codes published in BRS (e.g. 'Aggregated Data per MGA (E31, E44)') to determine the type of consumption.

Table 5 - Consumption Type Code List

Basse Measurement Type	Basse Consumption Type	XML Measurement Type Code	XML Consumption Type Code
Profiled	General	E01	A04
Profiled	Pumped	E01	B27
Profiled	Grid Losses	E01	A15
Metered	General	E02	A04
Metered	Large Installation	E02	B28
Metered	Pumped	E02	B27
Metered	Pumped Storage	E02	A07
Metered	Interruptible	E02	A72
Metered	Grid Losses	E02	A15
Metered	Production Unit Own Consumption	E02	B36

3.2.3 Values & Units

Rules governing values & units:

- Measurement unit for quantities is MWh
- Positive values are sent without sign and negative values are sent with a leading minus
- Number scale is six (maximum number of decimal places)

3.3 Data Package Overview

Following table contains the list of currently available data packages using Basse Time Series Document (Generic Format). There is a mapping between Document Type, Business Dimensions used in XML and data package name as is available for subscription in Online Service.

Data Package Name Business Dimensions Recepient **Document Type** BRP BRP. MBA Consumption per BRP and MBA CONS BRP MBA HOUR BRP, MBA, CONSUMPTION TYPE, BRP CONS BRP MBA TYPE HOUR Consumption per type per BRP and MBA MEASUREMENT_TYPE RE, MGA **Consumption per RE and MGA** BRP CONS_RE_MGA_HOUR BRP PROD MINOR BRP MBA HOUR BRP, MBA Production Minor per BRP and MBA BRP Production Plan per BRP and MBA PP BRP MBA HOUR BRP, MBA BRP BIT_PURCHASE_BRP_MBA_HOUR BRP, MBA Bilateral Trade Purchase per BRP and MBA BRP BRP, MBA Bilateral Trade Sales per BRP and MBA BIT_SALES_BRP_MBA_HOUR Day-ahead Purchase per BRP and MBA BRP DAY AHEAD PURCHASE BRP MBA HOUR BRP, MBA BRP BRP, MBA Day-ahead Sales per BRP and MBA DAY_AHEAD_SALES_BRP_MBA_HOUR BRP BRP, MBA Intraday Purchase per BRP and MBA INTRADAY_PURCHASE_BRP_MBA_HOUR Intraday Sales per BRP and MBA BRP BRP, MBA INTRADAY SALES BRP MBA HOUR BRP BRP, MBA Day-ahead Flow Import per BRP and MBA DAY_AHEAD_IMPORT_BRP_MBA_HOUR Day-ahead Flow Export per BRP and MBA BRP DAY_AHEAD_EXPORT_BRP_MBA_HOUR BRP, MBA BRP BRP, MBA Intraday Flow Import per BRP and MBA INTRADAY_IMPORT_BRP_MBA_HOUR Intraday Flow Export per BRP and MBA BRP BRP, MBA INTRADAY_EXPORT_BRP_MBA_HOUR BRP BRP, MBA MGA Imbalance Surplus per BRP and MBA MGI_SURPLUS_BRP_MBA_HOUR MGA imbalance Deficit per BRP and MBA BRP MGI_DEFICIT_BRP_MBA_HOUR BRP, MBA

Table 6 - Generic Data Package Document Types

Consumption Imbalance Adjustment Up per BRP and MBA	BRP	CONS_IA_UP_BRP_MBA_HOUR	BRP, MBA
Consumption Imbalance Adjustment Down per BRP and MBA	BRP	CONS_IA_DOWN_BRP_MBA_HOUR	BRP, MBA
MGA Trade Import per BRP and MBA	BRP	MGT_IMPORT_BRP_MBA_HOUR	BRP, MBA
MGA trade Export per BRP and MBA	BRP	MGT_EXPORT_BRP_MBA_HOUR	BRP, MBA
Consumption Pump Storage per BRP and MBA	BRP	CONS_PS_BRP_MBA_HOUR	BRP, MBA
Normal Production per BRP and MBA	BRP	NORMAL_PROD_BRP_MBA_HOUR	BRP, MBA
Production Imbalance Adjustment Up per BRP and MBA	BRP	PROD_IA_UP_BRP_MBA_HOUR	BRP, MBA
Production imbalance Adjustment Down per BRP and MBA	BRP	PROD_IA_DOWN_BRP_MBA_HOUR	BRP, MBA

3.4 XML Samples and XSD

Complete set of Generic Data Packages examples and XSD is available on the following link: <u>Basse Generic Data Package XSD and XML Samples</u>.

Each example has Document Type in the file name to identify the data package. E.g. GDP_CONS_BRP_MBA_HOUR_06_02_2017_13_41.xml refers CONS_BRP_MBA_HOUR (Consumption per BRP and MBA). File name suffix determines the creation date of the example.

4 Specific Data Package Documents

4.1 Introduction

Specific Data Packages utilize ENTSO-E and ebIX® document standards adjusted for NBS purposes by NEG organization and specified in the BRS. Data sent into Basse (via Inbound data flows) are available in the same format in specific data package sent from Basse to market party system. E.g. Consumption data reported to Basse in document ebIX® based NEG Aggregated Data per MGA (E31, E44) are available in the same format via Data Package 'REs consumption data per type and MGA'.

There is a list of supported specific data packages available for market party subscription in Online Service.

4.2 Data Package Overview

Following table describes the list of specific data packages with supported recipients (subscribers) and used document format. One format can be used by multiple data packages populated by the same type of data with different filter (e.g. Consumption - Losses, Consumption - All). Format name in this table is the format short name displayed in Online Service Data Package Management.

Table 7 - Specific Data Packages Overview

Name	Recipient	Frequency (Trigger)	Format [Short Name]	Message Type
Consumption Imbalance – Preliminary Results	BRP	Preliminary Calculation	Consumption Imbalance	(SERO) Send Settlement Results - Consumption
Production Imbalance - Preliminary Results	BRP	Preliminary Calculation	Production Imbalance	SERO) Send Settlement Results - Production
Consumption Imbalance – Final Results	BRP	Final Calculation	Consumption Imbalance	(SERO) Send Settlement Results - Consumption
Production Imbalance – Final Results	BRP	Final Calculation	Production Imbalance	(SERO) Send Settlement Results - Production
Consumption Imbalance – Invoiced Results	BRP	Invoicing Calculation	Consumption Imbalance	(SERO) Send Settlement Results - Consumption
Production Imbalance – Invoiced Results	BRP	Invoicing Calculation	Production Imbalance	SERO) Send Settlement Results - Production
MGA Imbalance – Preliminary Results	DSO, Datahub, BRP	Preliminary Calculation	MGA Imbalance	(MGIO) Send MGA Imbalance Results
MGA Imbalance – Final Results	DSO, Datahub, BRP	Final Calculation	MGA Imbalance	(MGIO) Send MGA Imbalance Results
MGA Exchange Intermediate Confirmation Report	DSO, Datahub	MGCO Intermediate Confirmation	MGCO Confirmation Report	(MGCO) Send Intermediate Confirmation Report

MGA Exchange Final Confirmation Report	DSO, Datahub	MGCO Confirmation	Final	MGCO Confirmation Report	(MGCO) Send Final Confirmation Report
Bilateral Trade Intermediate Confirmation Report	BRP	BICO Confirmation	Final	BICO Confirmation Report	(BICO) Send Intermediate Confirmation Report
Bilateral Trade Final Confirmation Report	BRP	BICO Final Confirmation		BICO Confirmation Report	(BICO) Send Final Confirmation Report
Metering Grid Area (MGA) Losses per MGA	DSO	Daily		Consumption	DP Consumption
REs' Consumption Data per Type and MGA	DSO, BRP	Daily		Consumption	DP Consumption
MGA Imbalances	DSO, BRP, Datahub	Daily		MGA Imbalance	DP MGA Imbalance
MGA Exchanges	DSO, Datahub	Daily		MGA Exchange	DP MGA Exchange
Production Per Production unit (PU)	DSO, BRP	Daily		Production	DP Production
Production Plan per BRP and RO	BRP	Daily		Production Plan	DP Production Plan
Bilateral Trades	BRP	Daily		Bilateral Trade	DP Bilateral Trade
Imbalance Prices per Market Balance Area (MBA)	BRP, BSP	Daily		Prices	DP Prices
Consumption Imbalance per BRP per MBA (Volume and Amount)	BRP	Daily		Consumption Imbalance	DP Consumption Imbalance
Production Imbalance per BRP per MBA (Volume and Amount)	BRP	Daily		Production Imbalance	DP Production Imbalance
Primary Frequency Containment Reserves (FCR)	BSP	Daily		Activated Reserves	DP BSP Activated Reserves
Secondary Frequency Restoration Reserves (FRR)	BSP	Daily		Activated Reserves	DP BSP Activated Reserves

Tertiary Replacement Reserves (RR)	BSP	Daily	Activated Reserves	DP BSP Activated Reserves
Primary Frequency Containment Reserves (FCR)	BRP	Daily	Activated Reserves	DP BRP Activated Reserves
Secondary Frequency Restoration Reserves (FRR)	BRP	Daily	Activated Reserves	DP BRP Activated Reserves
Tertiary Replacement Reserves (RR)	BRP	Daily	Activated Reserves	DP BRP Activated Reserves
PX Trades – Day Ahead	BRP	Daily	PX Market Trades	DP PX Market Trades
PX Trades – Day Ahead (NSL)	BRP	Daily	PX Market Trades	DP PX Market Trades
PX Trades – Intraday Continuous	BRP	Daily	PX Market Trades	DP PX Market Trades
PX Trades – Intraday Auction	BRP	Daily	PX Market Trades	DP PX Market Trades
Retailer Balance Responsibility - Delta	DSO, Datahub	Daily	Party Master Data	DP Party Relations (Delta)
Retailer Balance Responsibility - All	DSO, Datahub	Daily	Party Master Data	DP Party Relations (Active)
Primary Frequency Containment Reserves (FCR) – contracted reserves	BRP	Daily	Capacity Reserves	DP BRP Capacity Reserves
Secondary Frequency Restoration Reserves (FRR) – contracted reserves	BRP	Daily	Capacity Reserves	DP BRP Capacity Reserves
Tertiary Replacement Reserves (RR) – contracted reserves	BRP	Daily	Capacity Reserves	DP BRP Capacity Reserves
Primary Frequency Containment Reserves (FCR) – contracted reserves	BSP	Daily	Capacity Reserves	DP BSP Capacity Reserves

Secondary Frequency Restoration Reserves (FRR) – contracted reserves	BSP	Daily	Capacity Reserves	DP BSP Capacity Reserves
Tertiary Replacement Reserves (RR) – contracted reserves	BSP	Daily	Capacity Reserves	DP BSP Capacity Reserves
Merged Production	DSO, BRP	Daily	Merged Production	DP Merged Production
PX Flows	тѕо	Daily	PX Market Flows	DP PX Market Flow

See chapter Supported Formats and BRS Mapping.

Figure 4 - Online Service Data Package Management and Format Information



Reports > Data Packages Management

Data Packages Management

Name		Frequency	Subscrip Both (Subscription Both Subscribed Not Subscribed 						
			F	Filter Clear						
Manua	Description	Format		Denie d from	Devied to	Oranularity				
Name	Description	Format	Frequency	Period from	Period to	Granularity				
Retailer Balanc	Retailer Balan	Party Master Data	Daily	D	D+14	Hourly	Inactive	View Messages	Subsc	ribe
Retailer Balanc	Retailer Balan	Party Master Data	Daily	D	D+14	Hourly	Inactive	View Messages	Subsc	ribe
MGA Exchanges	All DSO'sMGA	MGA Exchange	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subsc	ribe
Production per	All DSO's prod	Production	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subsc	ribe
MGA Imbalanc	All DSO's MGA	MGA Imbalance	Daily	D-14	D-1	Hourly	Inactive	View Messages	Subsc	ribe
Metering Grid	All DSO's mete	Consumption	Daily	D-2	D-1	Hourly	Inactive	View Messages	Subsc	ribe
REs' consump	All DSO's MGA	Consumption	Daily	D-2	D-1	Hourly	Inactive	View Messages	Subso	ribe
Total pages: 1 (7 rov	ws)		1				144		1	*

4.3 Supported Formats and BRS Mapping

Following table provides the list of supported formats and mapping between data package format short name and ENTSO-E, ebIX® and NEG document including the reference to BRS.

Table 8 – SDP Supported Formats and BRS Mapping

Format Name (Short Name)	Related BRS Document	Based on Standard
Consumption	NEG Aggregated Data per MGA (E31, E44)	ebIX®
MGA Imbalance	NEG ESP Energy Account Report Document (EAR)	ENTSO-E
MGA Exchange	NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)	ebIX®
Production	NEG Validated Data for Settlement for Aggregator (E66, E44)	ebIX®
Production Plan	ERRP Planned Resource Schedule Document	ENTSO-E
Bilateral Trade	ESS Schedule Document	ENTSO-E
Prices	NEG ECAN Publication Document	ENTSO-E
Consumption Imbalance	NEG ESP Energy Account Report Document (EAR)	ENTSO-E
Production Imbalance	NEG ESP Energy Account Report Document (EAR)	ENTSO-E
Activated Reserves	NEG ERRP Reserve Allocation Result Document	ENTSO-E
PX Market Trades	ESS Schedule Document	ENTSO-E
Party Master Data	NEG Party Master Data	NEG
Capacity Reserves	NEG ERRP Reserve Allocation Result Document	ENTSO-E
Merged Production	NEG Aggregated Data per MGA (E31, E44) - production	ebIX®
PX Market Flow	-	ENTSO-E

Data Packages are data exchange from Basse to Market Party. BRS does not contain attribute usage for this data exchange and are described within this document.

4.4 Data Packages per Type

4.4.1 Consumption

4.4.1.1 SDP: Metering Grid Area (MGA) Losses per MGA

Attribute	
Name	Metering Grid Area (MGA) Losses per MGA
Receiver	DSO
Description	All DSO's metering grid areas' (MGA) losses per MGA
Format (Short Name)	Consumption
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 10:05 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all DSO consumptions of type Losses
	Business Type = 'A15'

4.4.1.2 SDP: Metering Grid Area (MGA) Losses per MGA 15-minutes

This Data Package will be sent from the Transition Date in parallel with the previous one. The DP sent on the first day will contain data for one day only (because there will be 15-minutes data only for one day from the period covered by this DP) and every day data for one more day will be added until the whole period is covered.

Attribute

Name	Metering Grid Area (MGA) Losses per MGA 15-minutes
Receiver	DSO
Description	All DSO's metering grid areas' (MGA) losses per MGA
Format (Short Name)	Consumption
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)
Aggregation	Time Aggregation – 15 (15-minutes)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 06:35 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all DSO consumptions of type Losses
	Business Type = 'A15'

4.4.1.3 SDP: REs' Consumption Data per Type and MGA (DSO)

Attribute	Attribute		
Name	REs' Consumption Data per Type and MGA		
Receiver	DSO		
Description	All DSO's metering grid areas' (MGA) per MGA and Consumption Type		
Format (Short Name)	Consumption		
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)		
Aggregation	Time Aggregation – H (Hourly)		
Time Period From	D-14		

Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 09:45 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all DSO consumptions. DSO is Consumption MEC attribute.

4.4.1.4 SDP: REs' Consumption Data per Type and MGA (DSO) 15-minute

Attribute	
Name	REs' Consumption Data per Type and MGA 15-minute
Receiver	DSO
Description	All DSO's metering grid areas' (MGA) per MGA and Consumption Type in 15-minute resolution
Format (Short Name)	Consumption
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 06:45 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all DSO consumptions. DSO is Consumption MEC attribute.

4.4.1.5 SDP: REs' Consumption Data per Type and MGA (BRP)

Attribute

Name	REs' Consumption Data per Type and MGA			
Receiver	BRP			
Description	All DSO's metering grid areas' (MGA) per MGA and Consumption Type			
Format (Short Name)	Consumption			
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)			
Aggregation	Time Aggregation – H (Hourly)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, delivered 09:50 / 13:05 CET			
Data Scope (Filter)	System selects all BRP consumptions. BRP is Consumption MEC attribute.			

4.4.1.6 SDP: REs' Consumption Data per Type and MGA (BRP) 15-minute

Attribute	
Name	REs' Consumption Data per Type and MGA 15-minute
Receiver	BRP
Description	All DSO's metering grid areas' (MGA) per MGA and Consumption Type in 15-minute resolution
Format (Short Name)	Consumption
Document Standard	NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered 06:40 / 12:55 CET

4.4.1.7 Document Format Attribute Usage

Document used for consumption data is 'NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)'. Attribute usage is specified separately for document header and time series part for better navigation.

Mark [x] indicates the level in the document structure.

4.4.1.7.1 Header - NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)

Attribute (XML schema)	CI.	Value Description
Aggregated	Data Per	MGA For Settlement for Settlement Responsible
[1] Header	[1]	
[2] Identification	[1]	Unique identification of the business document.
[2] Document Type	[1]	E31 – Aggregated Metered Data from the Metered Data Aggregator
[2] Creation	[1]	Document Creation Time Stamp.
[2] Sender Energy Party	[1]	eSett Code and Coding Scheme
[2] Recipient Energy Party	[1]	Subscriber
		BRP Code and Coding SchemeDSO Code and Coding Scheme
[1] Process Energy Content		
[2] Energy Business Process		E44 – stands for Imbalance Settlement
[2] Energy Business Process Role		DDX - Imbalance settlement responsible
[2] Energy Industry Classification		23 - Electricity supply industry
[1] Payload Energy Time Series		See Time Series Attribute Description

4.4.1.7.2 Time Series - NEG Aggregated Data per MGA for Settlement Responsible (E31, E44)

Attribute (XML schema)	CI.	Value Description
[1] Payload Energy Time Series		
[2] Identification		Unique Time Series Identification

[2] Registration Date Time	[1]	Time of document creation.
[2] Observation Period Time Series Period	[1]	
[3] Resolution Duration	[1]	PT1H – for hourly data
		PT15M – for 15-minute data
[3] Start	[1]	Date and time for a start of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[3] End	[1]	Date and time for a end of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[2] Balance Responsible Involved Party	[01]	
[3] Identification	[1]	Code and Coding Scheme of BRP.
[2] Balance Supplier Involved Party	[01]	Not available if time series is a consumption on BRP level (Profiled Consumption in Sweden)
[3] Identification	[1]	Retailer code and coding scheme.
[2] Product Included Product Characteristics	[1]	
[3] Identification	[1]	Product: "8716867000030" - Energy active
[3] Unit Type	[1]	мwн
[2] MP Detail Measurement Metering Point Characteristics	[1]	
[3] Metering Point Type	[1]	E17 - Consumption
[3] Settlement Method Type	[1]	E01 - Profiled E02 - Metered
[3] Business Type	[1]	 A04 – for General B28 – for Large Installation B27 – for Pumped A15 – for Losses A07 – for Pumped Storage A72 – for Interruptible
[2] Metering Grid Area Used Domain Location	[1]	Metering Grid Area of consumption.
[3] Identification	[1]	MGA Code and Coding Scheme
[2] Observation Interval Observation Period	[1*]	
[3] Sequence	[1]	Sequence number of the observation in the time series

[3] Observation Detail Energy Observation	[1]	
[4] Energy Quantity	[1]	Positive value with maximal 6 decimals
[4] Quantity Quality	[01]	Quality:
		"21" Temporary
		• "56" Estimated, approved for billing
		The default Quantity Quality is " Metered ", i.e. Quantity Quality is only used if \neq "Metered".

4.4.2 MGA Exchange Data Packages

4.4.2.1 SDP: MGA Exchange

Attribute	
Name	MGA Exchange
Receiver	DSO
Description	All DSO's MGA Exchanges
Format (Short name)	MGA Exchange
Document Standard	NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 10:05 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all DSO's MGA Exchanges (DSO is Out or In Party of MGA Exchange MEC)

4.4.2.2 SDP: MGA Exchange 15-minute

Attribute				
Name	MGA Exchange 15-minute			
Receiver	DSO			
Description	All DSO's MGA Exchanges in 15-minute resolution			
Format (Short name)	MGA Exchange			
Document Standard	NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)			
Aggregation	Time Aggregation – 15M (15-minute)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, delivered till 06:35 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all DSO's MGA Exchanges (DSO is Out or In Party of MGA Exchange MEC)			

4.4.2.3 Document Format Attribute Usage

Document used for consumption data is 'NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in the document structure.

4.4.2.3.1 Header - NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)

Attribute (XML schema)	CI.	Value Description
Aggregated Data Per Neighbouring Grid for Settlement for Settlement Responsible		
[1] Header	[1]	
[2] Identification	[1]	Document ID is unique identification of the business document.

[2] Document Type		E31
[2] Creation		Document Creation Time Stamp.
[2] Sender Energy Party		eSett Code and Coding Scheme
[2] Recipient Energy Party		DSO Code and Coding Scheme
[1] Process Energy Content		
[2] Energy Business Process		E44 - Imbalance Settlement
[2] Energy Business Process Role		DDX - Imbalance Settlement Responsible
[2] Energy Industry Classification		23 - Electricity supply industry
[1] Payload Energy Time Series		See Time Series part.

4.4.2.3.2 Time Series - NEG Aggregated Data per Neighbouring Grid for Settlement Responsible (E31, E44)

Attribute (XML schema)	CI.	Value Description
[1] Payload Energy Time Series		Each time series has an In Area (Metering Grid Area) and an Out Area (Metering Grid Area) defining the direction of the flow. There is only one time series for each exchange, i.e. netted values are exchanged.
[2] Identification		Unique Time Series Identification
[2] Registration Date Time		Same as Document Creation date.
[2] Observation Period Time Series Period		
[3] Resolution Duration	[1]	In NBS hourly/15-minute resolution is used, i.e. PT1H or PT60M for hourly resolution, PT15M for 15-minute resolution
[3] Start		Date and time for the start of the time series
[3] End		Date and time for the end of the time series
[2] Product Included Product Characteristics		
[3] Identification	[1]	Product: "8716867000030" (Energy active)

[3] Unit Type	[1]	мwн
[2] MP Detail Measurement Metering Point Characteristics		
[3] Metering Point Type	[1]	E20 - Metering Point Type (Exchange)
[2] Metering Grid Area Used Domain Location	[1]	MGA code and coding scheme for which the DSO is responsible.
[3] Identification	[1]	MGA Code and Coding Scheme
[2] In Area Used Domain Location		In MGA
[3] Identification		MGA Code and Coding Scheme
[2] Out Area Used Domain Location		Out MGA
[3] Identification	[1]	MGA Code and Coding Scheme
[2] Observation Interval Observation Period	[1*]	The number of occurrences with incremental sequence within Observation Time Period interval.
[3] Sequence	[1]	Position/index in the time series.
[3] Observation Detail Energy Observation	[1]	
[4] Energy Quantity	[1]	Quantity can be positive or negative decimal number.
		NOTE: Netted values are exchanged. The flow from Out Area to In Area will be reported as positive quantities, while the opposite direction will be reported as negative quantities (with a leading minus sign).
[4] Energy Quantity	[01]	Quality is present only if it is different from 'Metered':
		21 Temporary
		56 Estimated (approved for billing)

4.4.3 Merged Production Data Packages

4.4.3.1 SDP: REs' Merged Production Data per Type and MGA (DSO)

Attribute				
Name	REs' Merged Production Data per Type and MGA			
Receiver	DSO			
Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type			
Format (Short Name)	Merged Production			
Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production			
Aggregation	Time Aggregation – H (Hourly)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, delivered 09:45 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all DSO merged productions. DSO is merged production MEC attribute.			

4.4.3.2 SDP: REs' Merged Production Data per Type and MGA (BRP)

Attribute		
Name	REs' Merged Production Data per Type and MGA	
Receiver	BRP	
Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type	
Format (Short Name)	Merged Production	

Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production		
Aggregation	Time Aggregation – H (Hourly)		
Time Period From	D-14		
Time Period To	D-1		
Time Trigger (Words)	Daily basis, delivered 10:00 / 13:10 CET		
	Data package is not distributed when there are no data reported.		
Data Scope (Filter)	System selects all BRP merged productions. BRP is merged production MEC attribute.		

4.4.3.3 SDP: REs' Merged Production Data per Type and MGA (DSO) 15-minute

Attribute			
Name	REs' Merged Production Data per Type and MGA 15-minute		
Receiver	DSO		
Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type		
Format (Short Name)	Merged Production		
Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production		
Aggregation	Time Aggregation – QH (15-minute)		
Time Period From	D-14		
Time Period To	D-1		
Time Trigger (Words)	Daily basis, 06:55 CET		
	Data package is not distributed when there are no data reported.		
Data Scope (Filter)	System selects all DSO merged productions. DSO is merged production MEC attribute.		

4.4.3.4 SDP: REs' Merged Production Data per Type and MGA (BRP) 15-minute

Attribute				
Name	REs' Merged Production Data per Type and MGA 15-minute			
Receiver	BRP			
Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type			
Format (Short Name)	Merged Production			
Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production			
Aggregation	Time Aggregation – QH (15-minute)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, 06:50 / 10:00 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all BRP merged productions. BRP is merged production MEC attribute.			

4.4.3.5 Document Format Attribute Usage

Document used for consumption data is 'NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in the document structure.

4.4.3.5.1 Header - NEG (ebIX[®] based) Aggregated Data per MGA (E31, E44) - production

Attribute (XML schema)	CI.	Value Description and Mapping
		Aggregated Data Per MGA - production
[1] Header	[1]	
------------------------------------	------	---
[2] Identification	[1]	Unique identification of the business document.
[2] Document Type	[1]	'E31' – stands for Aggregate metered data from the Metered Data Aggregator
[2] Creation	[1]	Document Creation Time Stamp.
[2] Sender Energy Party	[1]	eSett Code and Coding Scheme
[2] Recipient Energy Party	[1]	Subscriber BRP Code and Coding Scheme DSO Code and Coding Scheme
[1] Process Energy Content	[1]	
[2] Energy Business Process	[1]	'E44' – stands for Imbalance Settlement
[2] Energy Business Process Role	[1]	'DDX' - Imbalance settlement responsible
[2] Energy Industry Classification	[1]	'23'- Electricity supply industry
[1] Payload Energy Time Series	[1*]	See Time Series Attribute Description

4.4.3.5.2 Time Series - NEG (ebIX[®] based) Aggregated Data per MGA (E31, E44) - production

Attribute (XML schema)	CI.	Value Description and Mapping
[1] Payload Energy Time Series	1*]	
[2] Identification	[1]	Merged Production MEC ID
[2] Registration Date Time	[1]	Time of document creation.
[2] Observation Period Time Series Period	[1]	
[3] Resolution Duration	[1]	'PT1H' – for hourly data
[3] Start	[1]	Date and time for a start of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[3] End	[1]	Date and time for a end of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[2] Balance Responsible Involved Party	[01]	

[3] Identification	[1]	Code and Coding Scheme of BRP.
[2] Balance Supplier Involved Party	[01]	
[3] Identification	[1]	Retailer code and coding scheme.
[2] Product Included Product Characteristics	[1]	
[3] Identification	[1]	Product: "8716867000030" - Energy active
[3] Unit Type	[1]	'MWH'
[2] MP Detail Measurement Metering Point Characteristics	[1]	
[3] Metering Point Type	[1]	'E18 ' - Production
[3] Settlement Method Type	[1]	'E02 ' – Non-profiled
[3] Business Type	[1]	"A01" - Production
[3] Asset Type	[01]	 "B14" Nuclear "B16" Solar "B20" Other production "Z04" Thermal "Z05" Wind "Z06" Hydro
[3] Production Type	[01]	 "Z01" – Normal "Z02" - Minor
[2] Metering Grid Area Used Domain Location	[1]	Metering Grid Area of consumption.
[3] Identification	[1]	MGA Code and Coding Scheme
[2] Observation Interval Observation Period	[1*]	
[3] Sequence	[1]	Sequence number of the observation in the time series
[3] Observation Detail Energy Observation	[1]	

[4] Energy Quantity	[1]	Positive value with maximal 6 decimals
[4] Quantity Quality	[01]	Quality:
		"21" Temporary
		"56" Estimated, approved for billing
		The default Quantity Quality is " Metered ", i.e. Quantity Quality is only used if ≠ "Metered".

4.4.4 MGA Imbalance Data Packages

4.4.4.1 Time-Based: MGA Imbalances - BRP

Attribute	Attribute			
Name	MGA imbalances			
Receiver	BRP			
Description	All MGAs' imbalances per MGA under BRP's balance responsibility			
Format (Short Name)	MGA Imbalance			
Document Standard	NEG ESP Energy Account Report Document			
Aggregation	Time Aggregation – H (Hourly)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, 10:15 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	All BRP MGAs' imbalances per MGA under BRP's balance responsibility			

4.4.4.2 Time-Based: MGA Imbalances – DSO

Attribute

Name	MGA imbalances
Receiver	DSO, Datahub
Description	All DSO's MGAs' imbalances per MGA
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, 13:30 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	All DSO's MGAs' imbalances per MGA
	For Datahub receiver:
	Only those DSO's MGAs are listed to which the Datahub has a connection (MGA-Datahub relation).
	 Hourly values are limited by MGA-Datahub relation validity (Datahub cannot see MGA data which are out of MGA- Datahub relation validity).

4.4.4.3 Time-Based: MGA Imbalances - BRP 15-minute

Attribute			
Name	MGA imbalances 15-minute		
Receiver	BRP		
Description	All MGAs' imbalances per MGA under BRP's balance responsibility		

Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, 07:10 / 10:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	All BRP MGAs' imbalances per MGA under BRP's balance responsibility

4.4.4.4 Time-Based: MGA Imbalances – DSO 15-minute

Attribute	
Name	MGA imbalances 15-minute
Receiver	DSO, Datahub
Description	All DSO's MGAs' imbalances per MGA
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, 07:10
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	All DSO's MGAs' imbalances per MGA

For Datahub receiver:			
 Only those DSO's MGAs are listed to which the Datahub has a connection (MGA-Datahub relation). 15-minute values are limited by MGA-Datahub relation validity (Datahub cannot see MGA data which are out of MGA-Datahub relation validity). 			

4.4.4.5 Document Format Attribute Usage

Document used for settlement data is 'NEG ESP Energy Account Report Document'. Attribute usage is specified separately for document header and time series part is specified separately for MGA Imbalance and Settlement Results data.

Mark [x] indicates the level in the document structure.

4.4.4.5.1 Header - NEG ESP Energy Account Report Document

Attribute (XML Schema)	CI.	Description
[1] Energy Account Report Document		
[2] Document Identification	[1]	Globally unique identifier (GUID) is used as generated Document ID. GUID is used without dashes to meet maximal length 35 characters. Example: "5ae1c0ba922c420b891c69356e6e746b"
[2] Document Version	[1]	Fixed value "1"
[2] Document Type	[1]	A12 - Imbalance report
[2] Document Status	[1]	 A01 - Intermediate – used for Preliminary Calculation event, time-based data-packages A02 – Final - used for Final/Invoicing Calculation event Note: MGA Imbalance Results has Business Type B29 in Account Time Series
[2] Process Type	[1]	A06 - Imbalance settlement
[2] Classification Type	[1]	A02 - Summary type
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender role	[1]	A05 - Imbalance Settlement Responsible

[2] Receiver Identification	[1]	Market Party identification: DSO or BRP code and coding scheme
[2] Receiver role	[1]	A09 - Metered Data Aggregator for DSO
		A08 - Balance Responsible Party for BRP
[2] Document Date and Time	[1]	The time stamp of the calculation (time stamp of the document creation is sufficient)
[2] Accounting period	[1]	The beginning and ending date and time of the period covered. The beginning and ending date and time are calculated as minimum and maximum of all Time Intervals from all Accounting Time Series, respectively. YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ
[2] Domain	[1]	Class Global Parameter, attribute NBS Domain and NBS Domain Coding Scheme
[2] Account Time Series	[1*]	Settlement Results: Per each MBA and Currency (if BRP's company has preferred currency different than EUR then imbalance amounts are sent in preferred currency and also in EUR) MGA Imbalance: Per each MGA and BRP. MGA Imbalance has dimensions: MGA, DSO, RE and BRP.

4.4.4.5.2 Time Series for MGA Imbalance 15-minute

Attribute (XML Schema)	CI.	Description
[2] Account Time Series	[1*]	The number of occurrences depends on the number of MGA Imbalances related to the subscriber – DSO or BRP. Note that if the receiver is DSO then there can be more than one MGA Imbalance with the same MGA but with different BRP (via Retailer Balance Responsibility relation). MGA Imbalance has dimensions: MGA, DSO, RE and BRP.
[3] Senders Time Series Identification	[1]	Globally unique identifier (GUID) is used as generated Time Series ID. GUID is used without dashes to meet maximal length 35 characters. Example: "5ae1c0ba922c420b891c69356e6e746b"
[3] Business Type	[1]	B29 - MGA imbalance
[3] Product	[1]	'8716867000030' (Active energy)

[3] Object Aggregation	[1]	A01 – Area
[3] Area	• 1]	MGA Code and Coding Scheme
[3] Party	[1]	BRP ID: The Balance Responsible Party for which the imbalance settlement is calculated. BRP is one of the dimensions of MGA Imbalance (MGA, DSO, RE, BRP).
[3] Measurement Unit	[1]	'MWH'
[3] Currency	[0*]	Not used for MGA Imbalance
[3] Period	[1*]	
[4] Time Interval	[1]	Time interval of reported values. It is subset of Accounting Period time interval from the document header. Note: In case of starting or ending validity of MGA within Accounting Period the Time Interval can be smaller than Accounting Period time interval.
[4] Resolution	[1]	PT15M – 15-minute Resolution
[4] Account Interval	[1*]	
[5] Pos	[1]	Sequence number of the time interval
[5] In Qty	• 1]	MGA Imbalance Deficit
[5] Out Qty	• 1]	MGA Imbalance Surplus
[5] Settlement Amount	• 01]	Not used for MGA Imbalance

4.4.5 Production Data Packages

4.4.5.1 SDP: Production Per Production Unit (for DSO)

Attribute					
Name	Production Per Production unit				
Receiver	DSO				
Description	All DSO's productions per production unit (PU)				
Format (Short name)	Production				
Document Standard	Validated Data for Settlement for Aggregator (E66, E44)				
Aggregation	Time Aggregation – H (Hourly)				
Time Period From	D-14				
Time Period To	D-1				
Time Trigger (Words)	Daily basis, delivered till 09:45 CET				
	Data package is not distributed when there are no data reported.				
Data Scope (Filter)	System selects all DSO's productions per production unit (PU)				

4.4.5.2 SDP: Production Per Production Unit (for DSO) 15-minute

Attribute				
Name	Production Per Production unit 15-minute			
Receiver	DSO			
Description	All DSO's productions per production unit (PU) in 15-minute resolution			
Format (Short name)	Production			
Document Standard	Validated Data for Settlement for Aggregator (E66, E44)			
Aggregation	Time Aggregation – 15M (15-minute)			

Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, delivered till 02:30 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all DSO's productions per production unit (PU)			

4.4.5.3 SDP: Production Per Production Unit (for BRP)

Attribute				
Name	Production Per Production unit			
Receiver	BRP			
Description	All productions per production unit under BRP's balance responsibility			
Format (Short name)	Production			
Document Standard	Validated Data for Settlement for Aggregator (E66, E44)			
Aggregation	Time Aggregation – H (Hourly)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Nords) Daily basis, delivered 09:55 / 13:10 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all productions per production unit under BRP's balance responsibility			
4.4.5.4 SDP: Production Per Production Unit (for BRP) 15-minute				

Attribute	
Name	Production Per Production unit 15-minute

Receiver	BRP				
Description	All productions per production unit under BRP's balance responsibility in 15-minute resolution				
Format (Short name)	Production				
Document Standard	Validated Data for Settlement for Aggregator (E66, E44)				
Aggregation	Time Aggregation – 15M (15-minute)				
Time Period From	D-14				
Time Period To	D-1				
Time Trigger (Words)	Daily basis, delivered 02:25 / 13:00 CET				
	Data package is not distributed when there are no data reported.				
Data Scope (Filter)	System selects all productions per production unit under BRP's balance responsibility				

4.4.5.5 Document Format Attribute Usage

Document used for consumption data is 'Validated Data for Settlement for Aggregator (E66, E44)'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in the document structure.

4.4.5.5.1 Header - Validated Data for Settlement for Aggregator (E66, E44)

Attribute (XML schema)	CI.	Value Description	
Validated Data for Settlement for Aggregator			
[1] Header	[1]		
[2] Identification	[1]	Document ID Unique identification of the business document.	
[2] Document Type	[1]	E66	
[2] Creation	[1]	Document Creation Time Stamp	
[2] Sender Energy Party	[1]	Basse	

[3] Identification	[1]	eSett Code and Coding Scheme
[2] Recipient Energy Party	[1]	Subscriber
[3] Identification	[1]	 Receiver according to subscribed data package: BRP Code and Coding Scheme DSO Code and Coding Scheme
[1] Process Energy Content	[1]	
[2] Energy Business Process	[1]	E44 - Imbalance Settlement
[2] Energy Business Process Role	[1]	DEA – ISR in role of Metered Data Aggregator
[2] Energy Industry Classification	[1]	23 - Electricity supply industry
[1] Payload Energy Time Series	[1*]	See Time Series part

4.4.5.5.2 Time Series - Validated Data for Settlement for Aggregator (E66, E44)

Attribute (XML schema)	CI.	Value Description
[1] Payload Energy Time Series	[1*]	Repeated for each Production MEC found for the subscriber DSO or BRP. If there are no production data within the reported period than the time series is omitted from the message. If there are missing quantities at some time intervals, then Missing Quantity indicator is used.
[2] Identification	[1]	Unique Time Series Identification
[2] Registration Date Time	[1]	Same as Document Creation date
[2] Observation Period Time Series Period	[1]	
[3] Resolution Duration	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[3] Start	[1]	Date and time for the start of the time series
[3] End	[1]	Date and time for the end of the time series
[2] Product Included Product Characteristics	[1]	

[3] Identification	[1]	Product: "8716867000030" (Energy active)
[3] Unit Type	[1]	мwн
[2] MP Detail Measurement Metering Point Characteristics	[1]	
[3] Metering Point Type	[1]	E18 - Production
[2] Metering Point Used Domain Location	[1]	Production Unit
[3] Identification	[1]	Unique identification of the Production Unit
[2] Observation Interval Observation Period	[1*]	The number of occurrences with incremental sequence within Observation Time Period interval
[3] Sequence	[1]	Position/index in the time series.
[3] Observation Detail Energy Observation	[1]	
[4] Energy Quantity	[01]	Quantity is not used (not available) if Quantity Missing Indicator is True.
[4] Quantity Quality	[01]	 Quantity Quality is only used if ≠ "Metered": "21" Temporary "56" Estimated, approved for billing.
[4] Quantity Missing	[01]	True (Used for missing quantity – quantity is null).

4.4.5.6 SDP: REs' Production Data per Type and MGA (DSO) 15-minute

Attribute	
Name	REs' Production Data per Type and MGA 15-minute
Receiver	DSO

Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type	
Format (Short Name)	Production	
Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production	
Aggregation	Time Aggregation – QH (15-minute)	
Time Period From	D-14	
Time Period To	D-1	
Time Trigger (Words)	Daily basis, morning 04:00	
	Data package is not distributed when there are no data reported.	
Data Scope (Filter)	System selects all DSO productions. DSO is production MEC attribute.	

4.4.5.7 SDP: REs' Production Data per Type and MGA (BRP) 15-minute

Attribute				
Name	REs' Production Data per Type and MGA 15-minute			
Receiver	BRP			
Description	All DSO's metering grid areas' (MGA) per MGA, Production Type and Production Unit Type			
Format (Short Name)	Production			
Document Standard	NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production			
Aggregation	Time Aggregation – QH (15-minute)			
Time Period From	D-14			

Time Period To	D-1
Time Trigger (Words)	Daily basis, morning 04:00 and evening 21:00 Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP productions. BRP is production MEC attribute.

4.4.5.8 Document Format Attribute Usage

Document used for consumption data is 'NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in the document structure.

4.4.5.8.1 Header - NEG (ebIX[®] based) Aggregated Data per MGA (E31, E44) - production

Attribute (XML schema)	CI.	Value Description and Mapping	
Aggregated Data Per MGA - production			
[1] Header	[1]		
[2] Identification	[1]	Unique identification of the business document.	
[2] Document Type	[1]	'E31' – stands for Aggregate metered data from the Metered Data Aggregator	
[2] Creation	[1]	Document Creation Time Stamp.	
[2] Sender Energy Party	[1]	eSett Code and Coding Scheme	
[2] Recipient Energy Party	[1]	Subscriber BRP Code and Coding Scheme DSO Code and Coding Scheme 	
[1] Process Energy Content	[1]		

[2] Energy Business Process	[1]	'E44' – stands for Imbalance Settlement
[2] Energy Business Process Role	[1]	'DDX' - Imbalance settlement responsible
[2] Energy Industry Classification	[1]	'23 '- Electricity supply industry
[1] Payload Energy Time Series	[1*]	See Time Series Attribute Description

4.4.5.8.2 Time Series - NEG (ebIX[®] based) Aggregated Data per MGA (E31, E44) - production

Attribute (XML schema)	CI.	Value Description and Mapping
[1] Payload Energy Time Series	1*]	
[2] Identification	[1]	Production MEC ID
[2] Registration Date Time	[1]	Time of document creation.
[2] Observation Period Time Series Period	[1]	
[3] Resolution Duration	[1]	'PT15M' – for 15-minute data
[3] Start	[1]	Date and time for a start of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[3] End	[1]	Date and time for a end of a time series in format "YYYY-MM-DDTHH:MM:SSZ"
[2] Balance Responsible Involved Party	[01]	
[3] Identification	[1]	Code and Coding Scheme of BRP.
[2] Balance Supplier Involved Party	[01]	
[3] Identification	[1]	Retailer code and coding scheme.
[2] Product Included Product Characteristics	[1]	
[3] Identification	[1]	Product: "8716867000030" - Energy active

[3] Unit Type	[1]	'MWH'
[2] MP Detail Measurement Metering Point Characteristics	[1]	
[3] Metering Point Type	[1]	'E18' - Production
[3] Settlement Method Type	[1]	'E02' – Non-profiled
[3] Business Type	[1]	"A01" - Production
[3] Asset Type	[01]	"B14" Nuclear "B16" Solar "B20" Other production "Z04" Thermal "Z05" Wind • "Z06" Hydro
[3] Production Type	[01]	 "Z01" – Normal "Z02" - Minor
[2] Metering Grid Area Used Domain Location	[1]	Metering Grid Area of consumption.
[3] Identification	[1]	MGA Code and Coding Scheme
[2] Observation Interval Observation Period	[1*]	
[3] Sequence	[1]	Sequence number of the observation in the time series
[3] Observation Detail Energy Observation	[1]	
[4] Energy Quantity	[1]	Positive value with maximal 6 decimals
[4] Quantity Quality	[01]	 Quality: "21" Temporary "56" Estimated, approved for billing The default Quantity Quality is "Metered", i.e. Quantity Quality is only used if ≠ "Metered".

4.4.6 Production Plan Data Packages

4.4.6.1 SDP: Production Plan per BRP and RO

Attribute		
Name	Production Plan per BRP and RO	
Receiver	BRP	
Description	All BRP's production plans per RO	
Format (Short name)	Production Plan	
Document Standard	ERRP Planned Resource Schedule Document	
Aggregation	Time Aggregation – H (Hourly)	
Time Period From	D-14	
Time Period To	D-1	
Time Trigger (Words)	Daily basis, delivered till 07:00 CET	
	Data package is not distributed when there are no data reported.	
Data Scope (Filter)	System selects all BRP's production plans per RO and MBA	

4.4.6.2 SDP: Production Plan per BRP and RO 15-minute

Attribute	
Name	Production Plan per BRP and RO 15-minute
Receiver	BRP
Description	All BRP's production plans per RO in 15-minute resolution

Format (Short name)	Production Plan			
Document Standard	ERRP Planned Resource Schedule Document			
Aggregation	Time Aggregation – 15M (15-minute)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, delivered till 07:00 CET			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all BRP's production plans per RO and MBA			

4.4.6.3 Document Format Attribute Usage

Document used for consumption data is 'ERRP Planned Resource Schedule Document'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in the document structure.

4.4.6.3.1 Header - ERRP Planned Resource Schedule Document

Attribute (XML Schema)	CI.	Value Description			
Planned Resource Schedule Document					
[1] Document Identification	[1]	Document ID - unique identification of the business document.			
[1] Document Version	[1]	Document Version is Unique identification of the document. Should be fixed "1".			
[1] Document Type	[1]	A14			
[1] Process Type	[1]	A17			
[1] Sender Identification	[1]	eSett Code and Coding Scheme			
[1] Sender Role	[1]	A05 - Imbalance Settlement Responsible			
[1] Receiver Identification	[1]	Subscriber: BRP Code and Coding Scheme			

[1] Receiver Role	[1]	A08 – Balance Responsible Party
[1] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[1] Time Period Covered	[1]	Period covered by the document containing the schedule.
		YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ
[1] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G"
[1] Subject Party	[01]	Not used by Basse
[1] Subject Role	[01]	Not used by Basse
[1] Planned Resource Schedule Time Series	[1*]	See Time Series Attributes

4.4.6.3.2 Time Series - ERRP Planned Resource Schedule Document

Attribute (XML schema)	CI.	Value Description
[1] Planned Resource Schedule Time Series	[1*]	There can be one and more Production Plans for BRP receiver. If there no data, then the data package is not sent at all.
[2] Time Series Identification	[1]	Unique Time Series Identification
[2] Business Type	[1]	Designates resource plan type. A01 Production A04 Consumption – NOT USED CURRENTLY Z52 Small scale production – NOT USED CURRENTLY
[2] Product	[1]	'8716867000030' - Code of the product
[2] Connecting Area	[1]	MBA Code and Coding Scheme
[2] Resource Object	[1]	Regulation Object (RO) Code and Coding Scheme
[2] Resource Provider	[1]	BRP Code and Coding Scheme
[2] Measurement Unit	[1]	MWH - Unit of measurement
[2] Object Aggregation	[1]	A06 - Aggregation

[2] Period	[1*]	Period with time interval and positions (sequence of hours/15-minutes). There can be more than one period in one time series to enable gaps in reported values.
[3] Time Interval	[1]	YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ
[3] Resolution	[1]	PT1H – for hourly data PT15M – for 15-minute data
[3] Interval	[1*]	
[4] Pos	[1]	Relative position within the time interval.
[4] Qty	[1]	Production Plan Quantity in MWH with 6 decimal precision.

4.4.7 Bilateral Trades Data Packages

4.4.7.1 SDP: Bilateral Trades Data Packages

Attribute	
Name	Bilateral Trades
Receiver	BRP
Description	Bilateral trades under BRP's balance responsibility
Format (Short name)	Bilateral Trade
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 07:00 CET
	Data package is not distributed when there are no data reported.

4.4.7.2 SDP: Bilateral Trades Data Packages 15-minute

Attribute	
Name	Bilateral Trades 15-minute
Receiver	BRP
Description	Bilateral trades under BRP's balance responsibility in 15-minute resolution
Format (Short name)	Bilateral Trade
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 07:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all Bilateral trades under BRP's balance responsibility

4.4.7.3 Document Format Attribute Usage

Document used for bilateral trade data is 'ESS Scheduled Document'.

Mark [x] indicates the level in the document structure.

Attribute (XML schema)	CI.	Value Description
[1] Schedule Document	[1]	
[2] Document Identification	[1]	Document ID is unique identification of the document.
[2] Document Version	[1]	Document Version = '1'

[2] Document Type	[1]	A01
[2] Process Type	[1]	Z05 - Bilateral Trade
[2] Schedule Classification Type	[1]	A02 - Summary type
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	A05 – Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Subscriber BRP Code and Coding scheme
[2] Receiver Role	[1]	A08 – Balance Responsible Party
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Schedule Time Interval	[1]	Period covered by the document containing the schedule.
[2] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G" with "A01" Coding Scheme
[2] Schedule Time Series	[1*]	
[3] Senders Time Series Identification	[1]	Unique Time Series Identification
[3] Senders Time Series Version	[1]	Time Series version. For NBS: "1"
[3] Business Type	[1]	A08 - Net internal trade
[3] Product	[1]	'8716867000030' - Active energy
[3] Object Aggregation	[1]	Identifies to what extent object is aggregated: 'A01' Area
[3] In Area	[1]	MBA Code and Coding Scheme - Market Balance Area where trade has taken place.
[3] Out Area	[1]	Out Area same as In Area
[3] In Party	[1]	BRP Code and Coding Scheme acting as the Buyer in the Bilateral Trade.
[3] Out Party	[1]	BRP Code and Coding Scheme acting as the Seller in the Bilateral Trade.
[3] Capacity Agreement Identification	[01]	An ID, only used when reporting trade on a Balance Supplier (Retailer) level, identifying the two involved Balance Suppliers and the related Market Balance Area. The Bilateral Trade ID will be unique in combination with In Party, Out Party and MBA.

[3] Measurement Unit	[1]	MWH – Unit of Measurement
[3] Period	[1*]	Period with time interval and positions (sequence of hours/15-minutes). There can be more than one period in one time series due to gaps in reported values.
[4] Time Interval	[1]	The start and end date and time of the time interval of the period in question.
[4] Resolution	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[4] Interval	[1*]	
[5] Pos	[1]	Relative position within the time interval.
[5] Qty	[1]	Quantity of the product scheduled for the position.
		The direction from out party (seller) to in party (buyer) is positive, while the opposite direction is negative (with minus signs)).

4.4.8 Prices Data Packages

4.4.8.1 SDP: Imbalance Prices per Market Balance Area (MBA)

Attribute	
Name	Imbalance Prices per Market Balance Area (MBA)
Receiver	BRP
Description	Production and consumption imbalance prices per MBA
Format (Short name)	Prices
Document Standard	Publication Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1

Time Trigger (Words)	Daily basis, delivered till 16:00 CET					
	Data package is not distributed when there are no data reported.					
Data Scope (Filter)	System selects all Production and Consumption Imbalance Prices per MBA. Prices from all MBAs are selected regardless BRP is active in given MBA or not. Document contains following prices in EUR currency (Business Type): B23 - Consumption imbalance price B24 - Production sales imbalance price B25 - Production purchase imbalance price Z74 – Imbalance sales price Z75 – Imbalance purchase price					

4.4.8.2 SDP: Imbalance Prices per Market Balance Area (MBA) 15-minute

Attribute	
Name	Imbalance Prices per Market Balance Area (MBA) 15-minute
Receiver	BRP
Description	Production and consumption imbalance prices per MBA in 15-minute resolution
Format (Short name)	Prices
Document Standard	Publication Document
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all Production and Consumption Imbalance Prices per MBA. Prices from all MBAs are selected regardless BRP is active in given MBA or not. Document contains following prices in EUR currency (Business Type): B23 - Consumption imbalance price

B24 - Production sales imbalance price
B25 - Production purchase imbalance price
Z74 – Imbalance sales price
Z75 – Imbalance purchase price

4.4.8.3 Document Format Attribute Usage

Document used for prices data is 'Publication Document'.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Publication Document	[1]	
[2] Document Identification	[1]	Document ID is unique identification of the Document.
[2] Document Version	[1]	Document Version is Unique identification of the business version.
[2] Document Type	[1]	A44 - Price document
[2] Process Type	[1]	A30 - Tertiary Reserves Process
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	A05 – Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Subscriber BRP Code and Coding Scheme
[2] Receiver Role	[1]	A08 – BRP (Balance Responsible Party)
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Publication Time Interval	[1]	Period covered by the document.
[2] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G" with "A01" coding Scheme
[2] Publication Time Series	[1*]	Prices per price type and MBA
[3] Senders Time Series Identification	[1]	Time series ID - Unique ID of the Time Series
[3] Business Type	[1]	Price type: B23 - Consumption imbalance price

		B24 - Production sales imbalance price
		B25 - Production purchase imbalance price
		Z74 – Imbalance sales price
		Z75 – Imbalance purchase price
[3] In Area	[1]	MBA - Relevant Market Balance Area for the market.
[3] Out Area	[1]	Market Balance Area is same as In Area
[3] Currency	[1]	EUR
[3] Measurement Unit Price	[1]	мwн
[3] Period	[1*]	
[4] Time Interval	[1]	The start and end date and time of the time interval of the period in question.
[4] Resolution	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[4] Interval	[1*]	
[5] Pos	[1]	Relative position within the time interval
[5] Price	[01]	Price in EUR currency
[5] Direction	[01]	Not used by this data package

4.4.8.4 SDP: FRR-A volume-weighted average price per MBA 15-minute – BSP/BRP

Attribute					
Name	Imbalance Prices per Market Balance Area (MBA) 15-minute				
Receiver	BSP/BRP				
Description	Production and consumption imbalance prices per MBA				
Format (Short name)	Prices				
Document Standard	Ediel ECAN Publication document				
Aggregation	Time Aggregation – QH (15-minute)				

Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, afternoon 14:00 Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all Production and Consumption Imbalance Prices and Imbalance Prices per MBA. Prices from all MBAs are selected regardless BSP/BRP is active in given MBA or not. Document contains following prices in EUR currency (Business Type): 'B20' – FRR-A Up Regulation Price 'B21' – FRR-A Down Regulation Price

4.4.8.5 Document Format Attribute Usage

Document used for prices data is 'Publication Document'.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Publication Document	[1]	
[2] Document Identification	[1]	Document ID is unique identification of the Document.
[2] Document Version	[1]	Document Version is Unique identification of the business version.
[2] Document Type	[1]	'A44' - Price document
[2] Process Type	[1]	'A51' – Automatic frequency restoration reserve
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	'A05' – Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Subscriber BSP Code and Coding Scheme
		or
		Subscriber BRP Code and Coding Scheme
[2] Receiver Role	[1]	'A08' – BRP (Balance Responsible Party)'A46' – Balance Service Provider

[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Publication Time Interval	[1]	Period covered by the document.
[2] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G" with "A01" coding Scheme
[2] Publication Time Series	[1*]	Prices per price type and MBA
[3] Senders Time Series Identification	[1]	Time series ID - Unique ID of the Time Series
[3] Business Type	[1]	Designates price type. ' B20' – FRR-A Up Regulation Price ' B21' – FRR-A Down Regulation Price
[3] In Area	[1]	MBA - Relevant Market Balance Area for the market.
[3] Out Area	[1]	Market Balance Area is same as In Area
[3] Currency	[1]	'EUR'
[3] Measurement Unit Price	[1]	'MWH'
[3] Period	[1*]	
[4] Time Interval	[1]	
[4] Resolution	[1]	'PT15M' – 15-minute resolution
[4] Interval	[1*]	
[5] Pos	[1]	Relative position within the time interval
[5] Price	[01]	Price in EUR currency
[5] Direction	[01]	Not used

4.4.8.6 SDP: FRR-M prices per MBA– BSP/BRP

Attribute	
Name	FRR-M prices per MBA 15-minute

Receiver	BSP/BRP
Description	FRR-M prices per MBA. The data package contains the mFRR up and down prices on 15-minute resolution per MBA in EUR for the period D-14D-1.
Format (Short name)	Prices
Document Standard	Ediel ECAN Publication document
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, 9:02 CET Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all Production and Consumption Imbalance Prices and Imbalance Prices per MBA. Prices from all MBAs are selected regardless BSP/BRP is active in given MBA or not. Document contains following prices in EUR currency (Business Type): 'B20' – Balance up regulation price 'B21' – Balance down regulation price

4.4.8.7 Document Format Attribute Usage

Document used for prices data is 'Publication Document'.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Publication Document	[1]	
[2] Document Identification	[1]	Document ID is unique identification of the Document.
[2] Document Version	[1]	Document Version is Unique identification of the business version.
[2] Document Type	[1]	'A44' - Price document
[2] Process Type	[1]	'A30' – Automatic frequency restoration reserve

[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	'A05' – Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Subscriber BSP Code and Coding Scheme
		or
		Subscriber BRP Code and Coding Scheme
[2] Receiver Role	[1]	'A08' – BRP (Balance Responsible Party)'A46' – Balance Service Provider
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Publication Time Interval	[1]	Period covered by the document.
[2] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G" with "A01" coding Scheme
[2] Publication Time Series	[1*]	Prices per price type and MBA
[3] Senders Time Series Identification	[1]	Time series ID - Unique ID of the Time Series
[3] Business Type	[1]	Designates price type.
		'B20' – Balance up regulation price'B21' – Balance down regulation price
[3] In Area	[1]	MBA - Relevant Market Balance Area for the market.
[3] Out Area	[1]	Market Balance Area is same as In Area
[3] Currency	[1]	'EUR'
[3] Measurement Unit Price	[1]	'MWH'
[3] Period	[1*]	
[4] Time Interval	[1]	
[4] Resolution	[1]	'PT15M' – 15-minute resolution
[4] Interval	[1*]	

[5] Pos	[1]	Relative position within the time interval
[5] Price	[01]	Price in EUR currency
[5] Direction	[01]	Not used

4.4.9 PX Trades Data Packages

4.4.9.1 SDP: PX Trades – Intraday Continuous

Attribute				
Name	PX Trades - Intraday Continuous			
Receiver	BRP			
Description	BRP's PX market trades (intraday Continuous)			
Format (Short name)	PX Market Trades			
Document Standard	ESS Schedule Document			
Aggregation	Time Aggregation – H (Hourly)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, morning 05:40			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all BRP's PX market trades of Elbas. Document Process Type is 'A19' (Intraday Continuous).			
4.4.9.2 SDP: PX Trades – Intr	aday Auction			

Attribute

Name	PX Trades - Intraday Auction		
Receiver	BRP		
Description	BRP's PX market trades (intraday Auction)		
Format (Short name)	PX Market Trades		
Document Standard	ESS Schedule Document		
Aggregation	Time Aggregation – H (Hourly)		
Time Period From	D-14		
Time Period To	D-1		
Time Trigger (Words)	Daily basis, morning 05:40 Data package is not distributed when there are no data reported.		
Data Scope (Filter)	System selects all BRP's PX market trades of Elbas. Document Process Type is 'A02' (Intraday Auction).		

4.4.9.3 SDP: PX Trades – Intraday Continuous 15-minute

Attribute			
Name	PX Trades – Intraday Continuous 15-minute		
Receiver	BRP		
Description	BRP's PX market trades (Intraday Continuous)		
Format (Short name)	PX Market Trades		
Document Standard	ESS Schedule Document		
Aggregation	Time Aggregation – QH (15-minute)		
Time Period From	D-14		

Time Period To	D-1
Time Trigger (Words)	Daily basis, morning 05:40 Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's Intraday Continuous PX Market Trades. Document Process Type is 'A19' (Intraday Continuous).

4.4.10

PX Flows 15-minute

SDP: PX Market Flows	
Name	PX Market Flows 15-minute
Receiver	TSO
Description	PX Market Flows reported by NEMOs
Format (Short Name)	PX Flows
Document Standard	ENTSO-E Publication document – UML model and schema version 1.1 The document must be compliant with the XSD: Schedule_MarketDocument v5.1
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-1
Time Period To	D-1
Time Trigger (Words)	Daily basis, 10:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all PX flows reported by NEMOs for MBAs related to the recipient TSO

4.4.10.1 Document Format Attribute Usage

Mark [x] indicates the level in the document structure.

Attribute (XML Schema)	CI.	Value description
[1] Schedule_MarketDocument		
[2] mRID		The unique identification of the document being exchanged within a business process flow.
[2] revisionNumber		Version of the document.
[2] type	[11]	The coded type of a document. The document type describes the principal characteristic of the document. "A04" – stands for System Operator area schedule.
[2] process.processType		Indicated the nature of the process that document addresses. "A17" – stands for Schedule day
[2] process_classificationType	[11]	Indicates the classification mechanism used to group a set of objects together. "A02" – Summary type
[2] sender_MarketParticipant.mRID	[11]	BASSE identification should be Code="44X- 0000000004B" and Coding Scheme="EIC". Configurable in Global Parameters.
[A] coding Scheme	[1]	See Error! Reference source not found.
[2] sender_MarketParticipant.marketRole.type	[11]	Basse identification should be A05=Imbalance Settlement Responsible
[2] receiver_MarketParticipant.mRID	[11]	EIC code of the TSO which requested the data A01=EIC The coding scheme is the Energy Identification Coding Scheme (EIC), maintained by ENTSO-E.
[A] coding Scheme	[1]	See Error! Reference source not found.
[2] receiver_MarketParticipant.marketRole.type	[11]	A04 – System Operator

[2] createdDateTime	[11]	The date and time of the creation of the document in format YYYY-MM-DDTHH:MM:SS
[2] period.timeInterval	[11]	The start and end date and time for a given interval The beginning and ending date and time of the period that the publication document is covering Period covered (in ISO 8601 UTC format) <period.timeinterval> <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end> </period.timeinterval>
[2] Domain.mRID	[11]	Domain covered by the schedule document. Code of the Nordic Market Area = 10Y1001A1001A91G
[A] coding Scheme	[1]	See Error! Reference source not found.
[2] TimeSeries	[1*]	Repeating element
[3] mRID	[11]	An unique identification of the time series
[3] version	[11]	The version of the time-series
[3] businessType	[11]	The identification of the nature of the time series. Value must be one of following: "A06" – stand for External trade without explicit capacity "B67" – stands for DC flow with losses, i.e. importing end "B68" – stands for DC flow without losses, i.e. exporting end
[3] product	[11]	The identification of the nature of the energy product "8716867000016" - Active Power
[3] object_aggregation	[11]	Identifies to what extent object is aggregated:
		"A01" Area
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[3] in_Domain.mRID	[11]	The unique identification of the domain. The area where the product is being delivered. EIC code of the area where the energy price for is being detailed. codingScheme = 'A01'
[3] out_Domain.mRID	[11]	The unique identification of the domain. The area where the product is being extracted. EIC code of the area where the energy price for is being detailed. codingScheme = 'A01'
[3] in_MarketParticipant.mRID	[01]	EIC code of NEMO where the energy is going to (Importing NEMO) For NordPoolSpot = 11XNORDPOOLSPOT2, for EEC = 17X100A100M006F3
[3] out_MarketParticipant.mRID	[01]	EIC code of NEMO where the energy is coming from (Exporting NEMO) For NordPoolSpot = 11XNORDPOOLSPOT2, for EEC = 17X100A100M006F3
[3] marketAgreement.type	[01]	Indicated the nature of the market of the time series. Contract should be one of the following options. A01 for day-ahead. A07 for Intraday Continuous A02 for Intraday Auction
[3] measurement_Unit.name	[11]	The unit of measurement used for the quantities expressed within the time series (MAW for MWh)
[3] curveType	[01]	The identification of the coded representation of the type of curve being described. "A01" - Sequential Fixed Size Blocks

[3] Period	[1*]	Repeating element
[4] timeInterval	[11]	The start and end time of the period. <period.timeinterval> <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end> </period.timeinterval>
[4] resolution	[11]	The definition of the number of units of time that compose an individual step within a period. PT15M
[4] Point	[1*]	Repeating element
[5] position	[11]	A sequential value representing the relative position within a given time interval
[5] quantity	[11]	NEMO's PX Flows quantity received via PXFI data-flow as attribute Quantity, Quantity Without Loss or Quantity With Loss. Conversion from MWh to MW is performed. Values are stored in MWh in BO. Data Package returns MW. Input (15-minute) MWh values are multiplied by 4.

4.4.10.2 SDP: PX Trades – Intraday Auction 15-minute

Attribute	
Name	PX Trades – Intraday Auction 15-minute
Receiver	BRP

Description	BRP's PX market trades (Intraday Auction)
Format (Short name)	PX Market Trades
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, morning 05:40
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's Intraday Auction PX Market Trades. Document Process Type is 'A02' - (Intraday Auction).

4.4.10.3 SDP: PX Trades – Day-ahead

Attribute		
Name	PX Trades – Day-ahead	
Receiver	BRP	
Description	BRP's PX market trades (Day-ahead)	
Format (Short name)	PX Market Trades	
Document Standard	ESS Schedule Document	
Aggregation	Time Aggregation – H (Hourly)	
Time Period From	D-14	
Time Period To	D-1	

Time Trigger (Words)	Daily basis, delivered till 07:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's PX market trades of Day-ahead. Document Process Type is 'A01' (Day-ahead).

4.4.10.4 SDP: PX Trades – Day-ahead 15-minute

Attribute	
Name	PX Trades – Day-ahead 15-minute
Receiver	BRP
Description	BRP's PX market trades (Day-ahead) in 15-minute resolution
Format (Short name)	PX Market Trades
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 07:00 CET
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's PX market trades of Day-ahead. Document Process Type is 'A01' (Day-ahead).

4.4.10.5 SDP: PX Trades – Day-ahead (NSL)

Attribute		
Name	PX Trades – Day ahead (NSL)	
Receiver	BRP	
Description	BRP's PX market trades for Day-ahead (NSL)	

Format (Short name)	PX Market Trades
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D+1
Time Trigger (Words)	Daily basis, afternoon 13:40
	Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's PX market trades for Day-ahead NSL. Document Process Type is 'Z15' (Day-ahead NSL).

4.4.10.6 SDP: PX Trades – Day-ahead (NSL) 15-minute

Attribute	
Name	PX Trades – Day ahead (NSL) 15-minute
Receiver	BRP
Description	BRP's PX market trades for Day-ahead (NSL)
Format (Short name)	PX Market Trades
Document Standard	ESS Schedule Document
Aggregation	Time Aggregation – QH (15-minute)
Time Period From	D-14

Time Period To	D-1
Time Trigger (Words)	Daily basis, morning 05:40 Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's PX market trades for Day-ahead NSL. Document Process Type is 'Z15' (Day-ahead NSL).

4.4.10.7 Document Format Attribute Usage

Document used for prices data is 'ESS Schedule Document'.

Mark [x] indicates the level in the document structure.

Attribute (XML schema)	CI.	Value Description
[1] Schedule Document	[1]	
[2] Document Identification	[1]	Document ID is unique identification of the document
[2] Document Version	[1]	Document Version is Unique identification of the business version.
[2] Document Type	[1]	A01 - Balance Responsible schedule
[2] Process Type	[1]	A01 (Day-ahead) – SDP PX Market Trades Day-ahead
		A19 (Intraday accumulated) – SDP PX Market Trades Intraday
[2] Schedule Classification Type	[1]	A02 (Summary type)
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	A05 - Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Subscriber BRP Code and Coding Scheme
[2] Receiver Role	[1]	A08 – BRP (Balance Responsible Party)
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Schedule Time Interval	[1]	Period covered by the document containing the schedule.
[2] Subject Party	[1]	BRP Code and Coding Scheme. Same as the receiver.
[2] Subject Role	[1]	A08 – BRP (Balance Responsible Party)

[2] Domain	[1]	Domain covered by the schedule document.
		Nordic Market Area ID = "10Y1001A1001A91G" with "A01" coding Scheme
[2] Schedule Time Series	[1*]	
[3] Senders Time Series Identification	[1]	Time series ID - Unique ID of the Time Series
[3] Senders Time Series Version	[1]	Time Series version. For NBS: "1"
[3] Business Type	[1]	A08 - Net Internal trade
[3] Product	[1]	' 8716867000030 ' (Active energy)
[3] Object Aggregation	[1]	A01 Area (Identifies to what extent object is aggregated)
[3] In Area	[1]	MBA – Market Balance Area Code and Coding Scheme
[3] In Party	[01]	Retailer Code and Coding Scheme (Trader) - the unique identification of the Retailer. This is required for PX Trade where Retailer is the trader.
[3] Measurement Unit	[1]	MWH - Unit of measurement
[3] Period	[1*]	Period with time interval and positions (sequence of hours/15-minutes). There can be more than one period in one time series to enable gaps in reported values.
[4] Time Interval	[1]	The start and end date and time of the time interval of the period in question.
[4] Resolution	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[4] Interval	[1*]	
[5] Pos	[1]	Relative position within the time interval.
[5] Qty	[1]	Quantity of the product scheduled for the position.
		The direction from out party (seller) to in party (buyer) is positive, while the opposite direction is negative (with minus signs)

4.4.11 Settlement Results/MGA Imbalance Data Packages

The NEG ESP Energy Account Report Document (EAR) is available in form of data package subscription.

Data packages for BRP receiver:

- Production Imbalance (result of the imbalance settlement) data package will be terminated 14 days after go-live of Single Balance Settlement regime
- Consumption Imbalance (result of the imbalance settlement) data package will be terminated 14 days after go-live of Single Balance Settlement regime
- Single Imbalance (result of the imbalance settlement) data package will be introduced as of go-live of Single Balance Settlement regime.
- MGA Imbalance (quality assurance of area balance per MGA)

Data packages for DSO receiver:

• MGA Imbalance (quality assurance of area balance per MGA)

Although all data packages use physically the one document format (EAR) they are distinguished by format short name to determine type of the report.

Attribute	
Name	Consumption Imbalance per BRP per MBA (Volume and Amount)
Receiver	BRP
Description	BRP's consumption imbalance volumes (MWh) and amounts (EUR) per MBA
Format (Short Name)	Consumption Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.

4.4.11.1 SDP: Consumption Imbalance per BRP per MBA (Volume and Amount)

4.4.11.2 SDP: Production Imbalance per BRP per MBA (Volume and Amount)

Attribute	
Name	Production Imbalance per BRP per MBA (Volume and Amount)
Receiver	BRP
Description	BRP's production imbalance volumes (MWh) and amounts (EUR) per MBA
Format (Short Name)	Production Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All BRP's production imbalance volumes (MWh) and amounts (EUR) per MBA

4.4.11.3 SDP: Single Imbalance per BRP per MBA (Volume and Amount)

Attribute		
Name	Single Imbalance per BRP per MBA (Volume and Amount)	
Receiver	BRP	
Description	BRP's imbalance volumes (MWh) and amounts (EUR) per MBA	
Format (Short Name)	Single Imbalance	

Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All BRP's imbalance volumes (MWh) and amounts (EUR) per MBA

4.4.11.4 SDP: Single Imbalance per BRP per MBA (Volume and Amount) 15-minute

Attribute	
Name	Single Imbalance per BRP per MBA (Volume and Amount) 15-minute
Receiver	BRP
Description	BRP's imbalance volumes (MWh) and amounts (EUR) per MBA in 15-minute resolution
Format (Short Name)	Single Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All BRP's imbalance volumes (MWh) and amounts (EUR) per MBA

4.4.11.5 SDP: MGA Imbalances - BRP

Attribute	
Name	MGA imbalances
Receiver	BRP
Description	All MGAs' imbalances per MGA under BRP's balance responsibility
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All BRP MGAs' imbalances per MGA under BRP's balance responsibility

4.4.11.6 SDP: MGA Imbalances – BRP 15-minute

Attribute	
Name	MGA imbalances 15-minute
Receiver	BRP
Description	All MGAs' imbalances per MGA under BRP's balance responsibility in 15-minute resolution
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – 15M (15-minute)

Time Period From	D-14	
Time Period To	D-1	
Time Trigger (Words)	Daily basis, delivered till 16:00 CET	
	Data package is not distributed when there are no data available.	
Data Scope (Filter)	All BRP MGAs' imbalances per MGA under BRP's balance responsibility	

4.4.11.7 SDP: MGA Imbalances – DSO

Attribute	
Name	MGA imbalances
Receiver	DSO
Description	All DSO's MGAs' imbalances per MGA
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All DSO's MGAs' imbalances per MGA

4.4.11.8 SDP: MGA Imbalances – DSO 15-minute

Attribute

Name	MGA imbalances 15-minute
Receiver	DSO
Description	All DSO's MGAs' imbalances per MGA in 15-minute resolution
Format (Short Name)	MGA Imbalance
Document Standard	NEG ESP Energy Account Report Document
Aggregation	Time Aggregation – 15M (15-minute)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 16:00 CET
	Data package is not distributed when there are no data available.
Data Scope (Filter)	All DSO's MGAs' imbalances per MGA

4.4.11.9 Document Format Attribute Usage

Document used for consumption data is 'NEG ESP Energy Account Report Document'. Attribute usage is specified separately for document header and time series part is specified separately for MGA Imbalance and Settlement Results data.

Mark [x] indicates the level in the document structure.

4.4.11.9.1 Header - NEG ESP Energy Account Report Document

Attribute (XML Schema)	CI.	Description
[1] Energy Account Report Document		
[2] Document Identification	[1]	Document ID is unique identification of the document
[2] Document Version	[1]	Fixed value "1"
[2] Document Type	[1]	A12 - Imbalance report
[2] Document Status	[1]	A01 - Intermediate – data package sends open settlement period ('A02' (Final) is not used)

[2] Process Type	[1]	A06 - Imbalance settlement
[2] Classification Type	[1]	A02 - Summary type
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender role	[1]	A05 - (Imbalance Settlement Responsible)
[2] Receiver Identification	[1]	Data Package Subscriber – DSO or BRP code and coding scheme
[2] Receiver role	[1]	A09 - Metered Data Aggregator for DSO subscriber
		A08 - Balance Responsible Party for BRP subscriber
[2] Document Date and Time	[1]	The time stamp of the calculation (time stamp of the document creation is sufficient)
[2] Accounting period	[1]	The beginning and ending date and time of the period covered. Always the range one calculated day.
		YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ
[2] Domain	[1]	Nordic Market Area ID = "10Y1001A1001A91G"
[2] Account Time Series	[1*]	The number of occurrences depends on the number of MGA Imbalances/Settlement Results related to the subscriber – DSO or BRP.

4.4.11.9.2 Time Series – Attribute Usage for MGA Imbalance

Attribute (XML Schema)	CI.	Description
[2] Account Time Series	[1*]	The number of occurrences depends on the number of MGA Imbalances related to the subscriber – DSO or BRP. Note that if the receiver is DSO then there can be more than one MGA Imbalance with the same MGA but with different BRP (via Retailer Balance Responsibility relation). MGA Imbalance is defined by: MGA, DSO, RE and BRP.
[3] Senders Time Series Identification	[1]	Unique Time Series Identification
[3] Business Type	[1]	B29 - MGA imbalance
[3] Product	[1]	'8716867000030' (Active energy)
[3] Object Aggregation	[1]	A01 (Area)

[3] Area	[1]	MGA Code and Coding Scheme
[3] Party	[1]	BRP ID: The Balance Responsible Party for which the imbalance settlement is calculated. BRP is one of the attributes of MGA Imbalance (MGA, DSO, RE, BRP).
[3] Measurement Unit	[1]	мwн
[3] Currency	[0*]	Not used for MGA Imbalance
[3] Period	[1*]	
[4] Time Interval	[1]	Time interval of reported data.
[4] Resolution	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[4] Account Interval	[1*]	
[5] Pos	[1]	Sequence number of the time interval
[5] In Qty	[1]	MGA Imbalance Deficit
[5] Out Qty	[1]	MGA Imbalance Surplus

4.4.11.9.3 Time Series – Attribute Usage for Settlement Results

Attribute (XML Schema)	CI.	Description
[2] Account Time Series	[1*]	Production or Consumption results per each MBA.
[3] Senders Time Series Identification	[1]	Unique Time Series Identification
[3] Business Type	[1]	B15 - Consumption deviation for Consumption Imbalance Data Package
		B14 - Production deviation for Production Imbalance Data Package
		A17 – Settlement deviation for Single Imbalance Data Package
[3] Product	[1]	8716867000030 - Active energy
[3] Object Aggregation	[1]	A01 - Area
[3] Area	[1]	MBA Code and Coding Scheme

[3] Party	[1]	BRP Code and Coding Scheme
		The Balance Responsible Party for which the imbalance settlement is calculated. Same as receiver.
[3] Measurement Unit	[1]	мwн
[3] Currency	[0*]	EUR
[3] Period	[1*]	
[4] Time Interval	[1]	Time interval of reported data.
[4] Resolution	[1]	PT1H – hourly resolution
		PT15M – 15-minute resolution
[4] Account Interval	[1*]	
[5] Pos	[1]	Sequence number of the time interval
[5] In Qty	[1]	If Business Type = 'B15' then BRP Consumption Imbalance - Imbalance Purchase
		If Business Type = "B14" then BRP Production Imbalance - Imbalance Purchase If Business Type – 'A17' then BRP Imbalance – Imbalance Purchase
[5] Out Qty	[1]	If Business Type = 'B15' then BRP Consumption Imbalance - Imbalance Sales
		If Business Type = "B14" then BRP Production Imbalance - Imbalance Sales
		If Business Type – 'A17' then BRP Imbalance – Imbalance Sales
[5] Settlement Amount	[1]	If Business Type = 'B15' then BRP Consumption Imbalance, Imbalance Amount – positive value
		If Business Type = 'B14' then BRP Production Imbalance, Imbalance Amount –negative value
		If Business Type – 'A17' then BRP Imbalance – Imbalance Amount value

4.4.12 Activated Reserves Data Packages

There are three data packages with Activated Reserves available for BRP subscribers. Each of the data package contains only one balancing type.

4.4.12.1 SDP: Primary Frequency Containment Reserves (FCR)

Attribute

Name	Primary Frequency Containment Reserves (FCR)				
Receiver	BRP				
Description	All BRP's activated reserves of type FCR (Frequency Containment Reserve). FCR is an automatic and momentarily regulation, to adjust the physical balance in the power system.				
Format (Short Name)	Activated Reserves				
Document Standard	NEG ERRP Reserve Allocation Result Document				
Aggregation	Time Aggregation – H (Hourly)				
Time Period From	D-14				
Time Period To	D-1				
Time Trigger (Words)	Daily basis, delivered till 06:40 CET				
	Data package is not distributed when there are no data reported.				
Data Scope (Filter)	System selects all BRP's activated reserves of <u>FCR</u> sub-type.				
	Data Scope: Reason Code = 'Z29'				
Attribute Usage	Document contains following business types:				
Specifics	Process Type = 'A28' (Primary Reserve Process)				
	Business Type = 'A11' (Primary Control)				
	• Reason Code = 'Z29' (FCR)				

4.4.12.2 SDP: Primary Frequency Containment Reserves (FCR) 15-minute

Attribute	
Name	Primary Frequency Containment Reserves (FCR) 15-minute
Receiver	BRP

Description	All BRP's activated reserves of type FCR (Frequency Containment Reserve) in 15-minute resolution. FCR is an automatic and momentarily regulation, to adjust the physical balance in the power system.		
Format (Short Name)	Activated Reserves		
Document Standard	NEG ERRP Reserve Allocation Result Document		
Aggregation	Time Aggregation – 15M (15-minute)		
Time Period From	D-14		
Time Period To	D-1		
Time Trigger (Words)	Daily basis, delivered till 06:40 CET		
	Data package is not distributed when there are no data reported.		
Data Scope (Filter)	System selects all BRP's activated reserves of <u>FCR</u> sub-type.		
	Data Scope: Reason Code = 'Z29'		
Attribute Usage Specifics	 Document contains following business types: Process Type = 'A28' (Primary Reserve Process) Business Type = 'A11' (Primary Control) Reason Code = 'Z29' (FCR) 		

4.4.12.3 SDP: Secondary Frequency Restoration Reserves (FRR)

Attribute	
Name	Secondary Frequency Restoration Reserves (FRR)
Receiver	BRP
Description	All BRP's activated reserves of type FRR-A (Frequency Restoration Reserve - Automatic). FRR-A is an automatic reserve, activated continuously by the frequency.
Format (Short Name)	Activated Reserves

Document Standard	NEG ERRP Reserve Allocation Result Document
Aggregation	Time Aggregation – H (Hourly)
Time Period From	D-14
Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 06:40 CET Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's activated reserves of sub-type FRR-A. Data Scope: Reason Code = 'Z30'
Attribute Usage Specifics	 Document contains following business types: Process Type = 'A29' (Secondary Reserve Process) Business Type = 'A12' (Secondary Control) Reason Code = 'Z30' (FRR-A)

4.4.12.4 SDP: Secondary Frequency Restoration Reserves (FRR) 15-minute

Attribute			
Name	Secondary Frequency Restoration Reserves (FRR) 15-minute		
Receiver	BRP		
Description	All BRP's activated reserves of type FRR-A (Frequency Restoration Reserve - Automatic) in 15-minute resolution. FRR-A is an automatic reserve, activated continuously by the frequency.		
Format (Short Name)	Activated Reserves		
Document Standard	NEG ERRP Reserve Allocation Result Document		
Aggregation	Time Aggregation – 15M (15-minute)		
Time Period From	D-14		

Time Period To	D-1
Time Trigger (Words)	Daily basis, delivered till 06:40 CET Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all BRP's activated reserves of sub-type FRR-A. Data Scope: Reason Code = 'Z30'
Attribute Usage Specifics	 Document contains following business types: Process Type = 'A29' (Secondary Reserve Process) Business Type = 'A12' (Secondary Control) Reason Code = 'Z30' (FRR-A)

4.4.12.5 SDP: Tertiary Replacement Reserves (RR)

Attribute					
Name	Tertiary Replacement Reserves (RR)				
Receiver	BRP				
Description	All BRP's activated reserves of type RR (Tertiary Control)				
Format (Short Name)	Activated Reserves				
Document Standard	NEG ERRP Reserve Allocation Result Document				
Aggregation	Time Aggregation – H (Hourly)				
Time Period From	D-14				
Time Period To	D-1				
Time Trigger (Words)	Daily basis, delivered till 06:40 CET				
	Data package is not distributed when there are no data reported.				

Data Scope (Filter)	System selects all BRP's Tertiary activated reserves. Activated Reserves are filtered by Balancing Sub-service (Reason Code) listed below. Data Scope: Reason Code in ('Z31', 'Z34', 'Z35', 'Z36', 'Z37', 'Z38', 'Z39')						
Attribute Usage Specifics	Document contains following business types: Process Type = 'A30' (Tertiary Reserve Process) Business Type = 'A10' (Tertiary Control) Reason Code in o 'Z31' - FRR-M, Balancing Power (for Norway the code means Ordinary regulation) o 'Z34' - FRR-M, Quarter regulation o 'Z34' - FRR-M, Quarter regulation o 'Z35' - FRR-M, Special Regulation (for Norway the code means Specially regulation) o 'Z36' - Hour Change Regulation (for Norway the code means Move of production) o 'Z37' - Power Transaction o 'Z38' - TSO Internal Countertrades o 'Z39' - Day Ahead Production Adjustment (for Norway the code means Production smoothing)						

4.4.12.6 SDP: Tertiary Replacement Reserves (RR) - BSP 15-minute

Attribute						
Name	Fertiary Replacement Reserves (RR) 15-minute					
Receiver	BSP					
Description	All BSP's activated reserves of type RR (Tertiary Control). System decides what data should be sent to the BSP based on the RO-BSP relation of the RO assigned to the activated reserves MEC. The data package validity starts on BSP Go-live Date +1D.					
Format (Short Name)	Activated Reserves					
Document Standard	NEG ERRP Reserve Allocation Result Document					

Aggregation	Time Aggregation – QH (15-minute)							
Time Period From	D-14							
Time Period To	D-1							
Time Trigger (Words)	Daily basis, morning 04:20 Data package is not distributed when there are no data reported.							
Data Scope (Filter)	System selects all BSP's Tertiary activated reserves. Activated Reserves are filtered by Balancing Sub-service (Reason Code) listed below. Data Scope: Reason Code in ('Z31', 'Z34', 'Z35', 'Z36', 'Z37', 'Z38', 'Z39', 'Z63', 'Z89', 'Z74') 2nd Reason Code in (' Z58', 'Z59', 'Z60', 'Z61', 'Z62')							
Attribute Usage Specifics	 Document contains following business types: Process Type = 'A30' (Tertiary Reserve Process) Business Type = 'A10' (Tertiary Control) Reason Code in 'Z31' - FRR-M, Balancing Power (for Norway the code means Ordinary regulation) 'Z34' - FRR-M, Quarter regulation 'Z35' - FRR-M, Special Regulation (for Norway the code means Specially regulation) 'Z36' - Hour Change Regulation (for Norway the code means Move of production) 'Z37' - Power Transaction 'Z38' - TSO Internal Countertrades 'Z39' - Day Ahead Production Adjustment (for Norway the code means Production smoothing) 'Z74' - FRR-M Disturbance 'Z63' - Period shift activation 'Z89' - Bidless activation (Activation without BSP bid) 							

 'Z31' 'Z58' - FRR-M, Balancing Power, Scheduled activation 	
 'Z31' 'Z59' - FRR-M, Balancing Power, Direct activation 	
 'Z31' 'Z60' - FRR-M, Balancing Power, Faster activation 	
 'Z31' 'Z61' - FRR-M, Balancing Power, Faster deactivation 	
 'Z31' 'Z62' - FRR-M, Balancing Power, Slower activation 	
 'Z35' 'Z58' - FRR-M, Special Regulation, Scheduled activation 	
 'Z35' 'Z59' - FRR-M, Special Regulation, Direct activation 	
 'Z35' 'Z60' - FRR-M, Special Regulation, Faster activation 	
 'Z35' 'Z61' - FRR-M, Special Regulation, Faster deactivation 	
 'Z35' 'Z62' - FRR-M, Special Regulation, Slower activation 	

4.4.12.7 Document Format Attribute Usage

Document used for activated reserves data is 'ERRP Planned Resource Schedule'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in document structure.

4.4.12.7.1 Header - ERRP Planned Resource Schedule

Attribute (XML schema)	CI.	Value Description
[1] Reserve Allocation Result Document	[1]	
[2] Document Identification	[1]	Document ID - Unique identification of the business document.
[2] Document Version	[1]	Version = " 1 "
[2] Document Type	[1]	A38 - Document Type
[2] Process Type	[1]	Process Type set according to data package type: A28 – SDP Activated Reserves Primary A29 – SDP Activated Reserves Secondary A30 – SDP Activated Reserves Tertiary
[2] Sender Identification	[1]	eSett Code and Coding Scheme

[2] Sender Role	[1]	A05 - Imbalance Settlement Responsible
[2] Receiver Identification		BRP Code and Coding scheme
[2] Receiver Role	[1]	'A46' – Balance Service Provider
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Reserve Bid Time Interval	[1]	Period covered by the document containing the schedule. YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ
[2] Domain	[1]	Domain covered by the schedule document. Nordic Market Area ID = 10Y1001A1001A91G
[2] Reserve Allocation Result Time Series	[0*]	See Time Series Attributes

4.4.12.7.2 Time Series - ERRP Planned Resource Schedule

Attribute (XML schema)	CI.	Value Description
[2] Reserve Allocation Result Time Series	[0*]	For each activated reserve occurs twice. Once with Up values and second with Down values.
[3] Time Series Identification	[1]	Time series ID - Unique ID of the Time Series (unique over time for the sender in question)
[3] Tendering Party	[1]	Tendering party must be BSP ID. See Business Validations.
[3] Business Type	[1]	Business Type set according to Data Package Type: 'A10' – SDP Activated Reserves Tertiary 15-minute 'A11' – SDP Activated Reserves Primary 15-minute 'A12' – SDP Activated Reserves Secondary 15-minute
[3] Acquiring Area	[1]	Same MBA as the Connecting Area
[3] Connecting Area	[1]	Market Balance Area Code and Coding Scheme
[3] Measure Unit Quantity	[1]	'MWH' - Unit of measurement
[3] Currency	[1]	'EUR'

[3] Reserve Object	[01]	Regulation Object (RO) Code and Coding Scheme		
[3] Direction	[1]	'A01' Up		
		' A02' Down		
[3] Reason	[1]			
[4] Reason Code	[1]	 'Z31' - FRR-M, Balancing Power 'Z34' - FRR-M, Quarter regulation 'Z35' - FRR-M, Special Regulation 'Z36' - Hour Change Regulation 'Z37' - Power Transaction 'Z38' - TSO Internal Countertrades 'Z39' - Day Ahead Production Adjustment 'Z74' - FRR-M Disturbance 'Z63' - Period shift activation 		
		 'Z89' - Bidless activation (Activation without BSP bid) 'A11' Primary control: 'Z29' - FCR - Normal 'Z40' - FCR - Normal - SWE 'Z41' - FCR - Disturbance 'A12' Secondary control: 'Z30' - FRR-A 'Z54' - FRR-A, AOF activation 'Z55' - FRR-A, non-AOF activation 		
[4] 2nd Reason Code	[0*]	 'A10' Tertiary control: 'Z58' - Scheduled activation ''Z59' Direct activation 'Z60' - Faster activation 'Z61' - Faster deactivation 'Z62' - Slower activation 		
[3] Period	[1*]			

[4] Time Interval	[1]	Period covered by the document containing the schedule.
[4] Resolution	[1]	'PT15M' – for 15-minute data
[4] Interval	[1*]	
[5] Pos	[1]	Relative position of a period within the time interval.
[5] Qty	[1]	Activated Reserves - Up/Down Quantity
[5] Settlement Amount	[1]	Activated Reserves - Up/Down Amount

4.4.13 Capacity Reserves Data Packages

There are three data packages with Capacity Reserves available for BSP subscribers. The data packages will be available from the BSP Go-live Date +1 day. Each of the data package contains only one balancing type.

4.4.13.1.1 SDP: Primary Frequency Containment Reserves (FCR) – contracted reserves

Attribute	
Name	Primary Frequency Containment Reserves (FCR) – contracted reserves
Receiver	BSP
Description	All BSP's contracted reserves of type FCR (Frequency Containment Reserve). FCR is an automatic and momentarily regulation, to adjust the physical balance in the power system. The data package validity starts on BSP Go-live Date + 1D.
Format (Short Name)	Contracted Reserves
Document Standard	NEG ERRP Reserve Allocation Result Document
Aggregation	Time Aggregation – H (Hourly)

Time Period From	D-14						
Time Period To	D-1						
Time Trigger (Words)	Daily basis, morning 04:20 Data package is not distributed when there are no data reported.						
Data Scope (Filter)	System selects all BSP's contracted reserves of <u>FCR</u> sub-type. Data Scope: Reason Code in ('Z29', 'Z42', 'Z43', 'Z44', 'Z45', 'Z46', 'Z47', 'Z48', 'Z49', 'Z56')						
Attribute Usage Specifics	Document contains following business types: Process Type = 'A28' (Primary Reserve Process) Business Type = 'A11' (Primary Control) Reason Code in 'Z29' - FCR 'Z29' - FCR 'Z42' - FCR-N, D-1 'Z43' - FCR-N, D-2 'Z44' - FCR-N, D-2, correction 'Z45' - FCR-N, D-2, correction 'Z46' - FCR-D, D-1 'Z46' - FCR-D, D-1 'Z48' - FCR-D, D-1, correction 'Z49' - FCR-D, D-2, correction 'Z49' - FCR-D, D-2, correction						

Attribute	Attribute		
Name	Secondary Frequency Restoration Reserves (FRR) – contracted reserves		
Receiver	BSP		
Description	All BSP's activated reserves of type FRR-A (Frequency Restoration Reserve - Automatic). FRR-A is an automatic reserve, activated continuously by the frequency.The data package validity starts on BSP Go-live Date + 1D.		
Format (Short Name)	Contracted Reserves		
Document Standard	NEG ERRP Reserve Allocation Result Document		
Aggregation	n Time Aggregation – H (Hourly)		
Time Period From	J D-14		
Time Period To	d D-1		
Time Trigger (Words)	Daily basis, morning 04:20 Data package is not distributed when there are no data reported.		
Data Scope (Filter)	 pe System selects all BSP's activated reserves of sub-type FRR-A. Data Scope: Reason Code in = ('Z30', 'Z75') 		
Attribute Usage Specifics	 Document contains following business types: Process Type = 'A29' (Secondary Reserve Process) Business Type = 'A12' (Secondary Control) Reason Code in 		

4.4.13.1.2 SDP: Secondary Frequency Restoration Reserves (FRR) – contracted reserves

0	'Z30' – FRR-A
0	'Z75' – FRR-A, correction

4.4.13.1.3 SDP: Tertiary Replacement Reserves (RR) – contracted reserves

Attribute	Attribute		
Name	Tertiary Replacement Reserves (RR) – contracted reserves		
Receiver	BSP		
Description	All BSP's activated reserves of type RR (Tertiary Control)		
	The data package validity starts on BSP Go-live Date + 1D.		
Format (Short Name)	rmat Contracted Reserves hort me)		
Document Standard	NEG ERRP Reserve Allocation Result Document		
Aggregation	Time Aggregation – H (Hourly)		
Time Period From	D-14		
Time Period To	D-1		
Time	Daily basis, morning 04:20		
Trigger (Words)	Data package is not distributed when there are no data reported.		
Data Scope	System selects all BSP's Tertiary activated reserves. Activated Reserves are filtered by Balancing Sub-service (Reason Code) listed below.		
(Filter)	Data Scope: Reason Code in ('Z31', 'Z35', 'Z76')		

Attribute	Document contains following business types:		
Usage Specifics	Process Type = 'A30' (Tertiary Reserve Process)		
	Business Type = 'A10' (Tertiary Control)		
	Reason Code in		
	 'Z31' - FRR-M, Balancing Power (for Norway the code means Ordinary regulation) 		
	 'Z35' - FRR-M, Special Regulation (for Norway the code means Specially regulation) 		
	 Z76' – FRR-M, correction 		
	o 'Z74' - FRR-M-D		
	o 'Z93' - FRR-M-D		

4.4.13.1.4 Document Format Attribute Usage

Document used for contracted reserves data is 'ERRP Reserve Allocation Result Document'. Attribute usage is specified separately for document header and time series part for easy navigation.

Mark [x] indicates the level in document structure.

4.4.13.1.4.1 Header - ERRP Reserve Allocation Result Document

Attribute (XML schema)	CI.	Value Description
[1] Reserve Allocation Result Document	[1]	
[2] Document Identification	[1]	Document ID - Unique identification of the business document.
[2] Document Version	[1]	Version = " 1 "
[2] Document Type	[1]	'A81' - Document Type
[2] Process Type	[1]	Process Type set according to data package type: 'A28' – SDP Contracted Reserves Primary 'A29' – SDP Contracted Reserves Secondary 'A30' – SDP Contracted Reserves Tertiary

[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	'A05' - Imbalance Settlement Responsible
[2] Receiver Identification		BSP Code and Coding scheme
[2] Receiver Role	[1]	'A46' – Balance Service Provider
[2] Creation Date Time	[1]	Creation Date Time (represents time stamp of file generation in UTC).
[2] Reserve Bid Time Interval	[1]	Period covered by the document containing the schedule.
		YYYY-MM-DDTHH:MM:SSZ/YYYY-MM-DDTHH:MM:SSZ
[2] Domain	[1]	Domain covered by the schedule document.
		Nordic Market Area ID = 10Y1001A1001A91G
[2] Reserve Allocation Result Time Series	[0*]	See Time Series Attributes

4.4.13.1.4.2 Time Series - ERRP Reserve Allocation Result Document

Attribute (XML schema)	CI.	Value Description
[2] Reserve Allocation Result Time Series	[0*]	For each Contracted reserve occurs either once or twice. Two occurrences are for Contracted Reserves with both direction types (A01 - Up, A02 – Down) and one occurrence for Contracted Reserves with single direction type (A03 – Up and Down, A01 – Up).
[3] Time Series Identification	[1]	Time series ID - Unique ID of the Time Series (unique over time for the sender in question)
[3] Tendering Party	[1]	Tendering party must be BSP ID. See Business Validations.
[3] Business Type	[1]	Business Type set according to Data Package Type: 'A10' – SDP Activated Reserves Tertiary

		'A11' – SDP Activated Reserves Primary
		'A12' – SDP Activated Reserves Secondary
[3] Acquiring Area	[1]	Same MBA as the Connecting Area
[3] Connecting Area	[1]	Market Balance Area Code and Coding Scheme
[3] Measure Unit Quantity	[1]	'MAW' - Unit of measurement (Megawatt)
[3] Currency	[1]	'EUR'
[3] Direction	[1]	'A01' Up
		' A02 ' Down
		' A03 ' Up and Down
[3] Reason	[1]	
[4] Reason Code	[1]	'A11' Primary control:
		• 'Z29' - FCR
		• 'Z42' – FCR-N, D-1
		• 'Z43' – FCR-N, D-2
		• 'Z44' – FCR-N, D-1, correction
		• 'Z45' – FCR-N, D-2, correction
		• 'Z46' – FCR-D, D-1
		• 'Z47' - FCR-D, D-2
		• 'Z48' - FCR-D, D-1, correction
		• 'Z49' - FCR-D, D-2, correction
		• 'Z56' - FFR
		'A12' Secondary control:
		• 'Z30' (FRR-A)
		'Z75' - FRR-A, correction
		'A10' Tertiary control:

		 'Z31' - FRR-M, Balancing Power (for Norway the code means Ordinary regulation) 'Z35' - FRR-M, Special Regulation (for Norway the code means Specially regulation) 'Z76' - FRR-M, correction 'Z74' - FRR-M-D 'Z93' - FRR-M-D
[3] Period	[1*]	
[4] Time Interval	[1]	Period covered by the document containing the schedule.
[4] Resolution	[1]	' PT1H ' – for hourly data
[4] Interval	[1*]	
[5] Pos	[1]	Relative position of a period within the time interval.
[5] Qty	[1]	Contracted Reserves – Up Quantity and/or Down Quantity or Quantity
[5] Settlement Amount	[1]	Contracted Reserves – Up Amount and/or Down Amount or Amount

4.4.14 Party Relations (RBR) Data Packages

4.4.14.1 SDP: Retailer Balance Responsibility – All

Attribute

Name	Retailer Balance Responsibility – All	
Receiver	DSO	
Description	All DSO's Retailer Balance Responsibilities (RBR) valid sometime in upcoming 14 days (at least some period).	
Format (Short Name)	Party Master Data	
Document Standard	NEG Party Master Data Document	
Aggregation	N/A	
Time Period From	D	
Time Period To	D+14	
Time Trigger (Words)	Daily basis, delivered till 07:00 CET	
	Data package is not distributed when there are no data reported.	
Data Scope (Filter)	System selects all RBRs which are in DSO's MGAs via time dependent MGA-DSO relation. RBR validity is filtered together with MGA-DSO validity to return only RBRs in MGAs for which is DSO responsible in searched period.	

4.4.14.2 SDP: Retailer Balance Responsibility - Delta

Attribute		
Name	Retailer Balance Responsibility – Delta	
Receiver	DSO	
Description	All DSO's Retailer Balance Responsibilities (RBR) starting or ending in upcoming 14 days.	
Format (Short Name)	Party Master Data	
Document Standard	NEG Party Master Data Document	
Aggregation	N/A	
Time Period From	D	

Time Period To	D+14
Time Trigger (Words)	Daily basis, delivered till 07:00 CET Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all RBRs starting or ending in upcoming 14 days which are in DSO's MGAs via time dependent MGA-DSO relation. RBR is returned to DSO even though DSO MGA responsibility starts/ends within different period of RBR validity.

4.4.14.3 Document Format Attribute Usage

Retailer Balance Responsibility (RBR) relations use document standard NEG Party Master Data Document specified in NBS BRS Master Data.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Party Master Data Document	[1]	Document header
[2] Document Identification	[1]	Document ID - Unique identification of the business document.
[2] Document Type	[1]	 Z18 - Party Relation Master Data Document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) Z19 - Party Relation Master Data Document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
[2] Process Type	[1]	Z07 - Master data
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	A05 - Imbalance settlement responsible
[2] Receiver Identification	[1]	DSO subscriber code and coding scheme
[2] Receiver Role	[1]	A26 - Metering Point Administrator
[2] Creation Date Time	[1]	The date and time of the document creation. The date and time must be expressed in UTC as YYYY- MM-DDTHH:MM:SSZ
[2] Party Details	[1*]	Repeated for each DSO's RBR
[3] Subject Party	[1]	BRP Code and Coding Scheme of Retailer Balance Responsibility

[3] Subject Party Role	[1]	A08 - Balance Responsible Party (BRP)
[3] Metering Grid Area Identification	[1]	MGA Code and Coding Scheme of Retailer Balance Responsibility
[3] Validity Start	[1]	RBR Validity Start
		Date and time of validity start in UTC, format "YYYY-MM-DDTHH:MMZ".
[3] Validity End	[01]	RBR Validity End
		If validity end is infinite, then this element is omitted.
		Date and time of validity end in UTC, format "YYYY-MM-DDTHH:MMZ".
[3] Business Type	[1]	Retailer Balance Responsibility Imbalance Type:
		A01 – for Retailer Balance Responsibility for Production
		A04 – for Retailer Balance Responsibility for Consumption
[3] Related Party	[0*]	Always occurs once per one Retailer Balance Responsibility
[3] Related Party	[1]	Retailer Code and Coding Scheme of Retailer Balance Responsibility
[3] Related Party Role	[1]	A12 - Retailer

4.4.15 Consumption MEC Data Packages

XML sample of Consumption MEC structure is available on <u>Ediel.org</u> in common package 'Complete set of NBS Documents': file 'NEG Retailer Consumption MD from ISR 20170329'.

4.4.15.1 SDP: Consumption MEC – Active

Attribute		
Name	Consumption MEC (Active)	
Receiver	DSO	
Description	DSO's Consumption MECs which are valid sometime within the configured period. Data package is populated with Consumption MEC validities as they are currently in Basse.	
	Note: BRP level MECs (maintained by TSO in Sweden) are also involved.	
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Format (Short Name)	Party Master Data	
Document Standard	NEG Party Master Data Document	
Aggregation	N/A	
Time Period From	D	
Time Period To	D+14	
Time Trigger (Words)	Daily Basis, delivered till 06:20 CET	
	Data Package is distributed only if any data found.	
Data Scope (Filter)	System selects all DSO Consumption MECs (DSO is strong attribute of the MEC) valid sometime within the configured period.	

4.4.15.2 SDP: Consumption MEC - Delta

Attribute	
Name	Consumption MEC (Delta)
Receiver	DSO
Description	DSO's Consumption MECs starting or ending within the configured time period. Data package is populated with Consumption MEC validities as they are currently in Basse. Note: BRP level MECs (maintained by TSO in Sweden) are also involved.
Format (Short Name)	Party Master Data
Document Standard	NEG Party Master Data Document
Aggregation	N/A
Time Period From	D
Time Period To	D+14

Time Trigger (Words)	Daily basis, delivered till 06:20 CET
	Data Package is distributed only if any data found.
Data Scope (Filter)	System selects all DSO Consumption MECs (DSO is strong attribute of the MEC) starting or ending within the configured period.

4.4.15.3 Document Format Attribute Usage

Consumption MEC use document standard NEG Party Master Data Document specified in NBS BRS Master Data.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Party Master Data Document	[1]	Document header
[2] Document Identification	[1]	Document ID - Unique identification of the business document.
[2] Document Type	[1]	 Z20 - Retailer consumption master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) Z21 - Retailer consumption master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
[2] Process Type	[1]	Z07 Master data
[2] Sender Identification	[1]	eSett code and coding scheme
[2] Sender Role	[1]	A05 Imbalance Settlement Responsible
[2] Receiver Identification	[1]	DSO code and coding scheme (Subscriber)
[2] Receiver Role	[1]	A26 Metering Point Administrator (DSO)
[2] Creation Date Time	[1]	The date and time that the document was prepared for transmission by the application of the sender. The date and time is expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
[2] Party Details	[1*]	Repeated for each DSO's Consumption MEC.
[3] Subject Party	[1]	Retailer (RE) Code and Coding scheme or

		BRP Code and Coding scheme in case of BRP level consumption (no Retailer)
[3] Subject Party Role	[1]	A12 Balance Supplier (Retailer)
		A08 Balance Responsible Party (for BRP level consumption)
[3] Metering Grid Area Identification	[1]	MGA Code and Coding scheme
[3] Validity Start	[1]	Consumption MEC Validity Start expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7
[3] Validity End	[01]	Consumption MEC Validity End expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7. Omitted if Validity End is unlimited.
[3] Business Type	[1]	A04 - Consumption (total consumption) – General
		A07 - Net production/consumption – Pumped Storage
		A15 - Losses
		A72 - Interruptible Consumption
		B27 - Pumped
		B28 - Large installation consumption
		B36 - Production Units Own Consumption (Only used in Finland)
[3] Settlement Method	[01]	E01 Profiled
		E02 Non-profiled (Metered)
[3] Reference	[01]	Consumption MEC ID
[3] Related Party	[0*]	A BRP responsible for Consumption Retailer in given MGA (MEC attribute).
		Not available for BRP level consumption. Occurs always once per Party Details.
[3] Related Party	[1]	BRP Code and Coding Scheme
[3] Related Party Role	[1]	A08 Balance Responsible Party

4.4.16 MGA Imbalance Retailer Data Packages

XML sample of MGA Imbalance Retailer structure is available on <u>Ediel.org</u> in common package 'Complete set of NBS Documents': file 'NEG Retailer Consumption MD from ISR 20170329'.

4.4.16.1 SDP: MGA Imbalance Retailer – Active

Attribute	
Name	MGA Imbalance Retailer (Active)
Receiver	DSO
Description	All DSO's MGA Imbalance Retailers which are valid sometime within the configured Period. Data package is populated with MGA Retailer relations and validities as they are currently in Basse.
Format (Short Name)	Party Master Data
Document Standard	NEG Party Master Data Document
Aggregation	N/A
Time Period From	D
Time Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 07:00 CET
	Data Package is distributed only if any data found.
Data Scope (Filter)	System selects all DSO's MGA Imbalance Retailers valid sometime within the configured Period.

4.4.16.2 SDP: MGA Imbalance Retailer - Delta

Attribute	
Name	MGA Imbalance Retailer (Delta)
Receiver	DSO

Description	All DSO's MGA Retailers starting or ending within the configured period. Data package is populated with MGA Retailer relations and validities as they are currently in Basse.		
Format (Short Name)	Party Master Data		
Document Standard	NEG Party Master Data Document		
Aggregation	N/A		
Time Period From	D		
Time Period To	D+14		
Time Trigger (Words)	Daily basis, delivered till 07:00 CET		
	Data Package is distributed only if any data found.		
Data Scope (Filter)	System selects all DSO's MGA Imbalance Retailers starting or ending within the configured period.		

4.4.16.3 Document Format Attribute Usage

MGA Retailer Imbalance use document standard NEG Party Master Data Document specified in NBS BRS Master Data.

Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] Party Master Data Document	[1]	Document header
[2] Document Identification	[1]	Document ID - Unique identification of the business document.
[2] Document Type	[1]	 Z20 - Retailer consumption master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive) Z21 - Retailer consumption master data document containing all valid master data within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)
[2] Process Type	[1]	Z07 Master data
[2] Sender Identification	[1]	eSett code and coding scheme
[2] Sender Role	[1]	A05 Imbalance Settlement Responsible

[2] Receiver Identification	[1]	DSO code and coding scheme (Subscriber)
[2] Receiver Role	[1]	A26 Metering Point Administrator (DSO)
[2] Creation Date Time	[1]	The date and time that the document was prepared for transmission by the application of the sender. The date and time is expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
[2] Party Details	[1*]	Repeated for each DSO MGA Retailer Imbalance Relation.
[3] Subject Party	[1]	Retailer Imbalance Code and Coding Scheme
[3] Subject Party Role	[1]	A12 Balance Supplier (Retailer)
[3] Metering Grid Area Identification	[1]	Unique Identification of MGA with coding scheme.
[3] Validity Start	[1]	Validity start of MGA Imbalance Retailer. The start date and time is expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7
[3] Validity End	[01]	Validity End of MGA Imbalance Retailer. If omitted than validity is undefined. The end date and time is expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7
[3] Business Type	[1]	B29 – MGA Imbalance

4.4.17 Production Unit Data Packages

XML sample of Production Unit structure is available on <u>Ediel.org</u> in common package 'Complete set of NBS Documents': file 'NEG Resource Object Master Data from eSett 20170327'.

4.4.17.1 SDP: Production Unit – Active

Attribute	
Name	Production Unit (Active)
Receiver	DSO
Description	DSO's Production Units which are valid sometime within the configured time period. Data package contains complete Production Unit structure information available for DSO role.

Format (Short Name)	Resource Object
Document Standard	NEG Resource Object (Production Unit) Master Data
Aggregation	N/A
Time Period From	D
Time Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 06:30 CET Data Package is distributed only if any data found.
Data Scope (Filter)	System selects all DSO Production Units valid sometime within the Period From and Period To. DSO time-dependent responsibility for Production Unit via PU-MGA-DSO relation is considered.

4.4.17.2 SDP: Production Unit - Delta

Attribute	
Name	Production Unit (Delta)
Receiver	DSO
Description	DSO's Production Units which are valid sometime within the configured time period. Data package contains complete Production Unit structure information available for DSO role.
Format (Short Name)	Resource Object
Document Standard	NEG Resource Object (Production Unit) Master Data
Aggregation	N/A
Time Period From	D
Time Period To	D+14
Time Trigger (Words)	Daily basis, delivered till 06:30 CET
	Data Package is distributed only if any data found.

Data Scope (Filter)	System selects all DSO Production Units starting or ending within the configured period. DSO time-dependent responsibility for
	Production Unit via PU-MGA-DSO relation is considered.
	Starting/ending means that DSO responsibility for production unit starts/ends.

4.4.17.3 Document Format Attribute Usage

Production Unit structure use document standard NEG Resource Object (Production Unit) Master Data Document specified in NBS BRS Master Data (Ediel.org). Mark [x] indicates the level in document structure.

Attribute (XML schema)	CI.	Value Description
[1] NEG Resource Object Master Data Document	[1]	Document header
[2] Document Identification	[1]	Basse generated unique identification of the document.
[2] Document Type	[1]	Z22 Resource Object master data document containing master data changed within the Validity Time Interval (Start date/time inclusive and End date/time exclusive)Z23 Resource Object master data document containing all valid master data within the Validity Time
		Interval (Start date/time inclusive and End date/time exclusive)
[2] Process Type	[1]	Z07 Master data
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender Role	[1]	A05 Imbalance Settlement Responsible
[2] Receiver Identification	[1]	DSO code and coding scheme
[2] Receiver Role	[1]	A26 Metering Point Administrator (DSO)
[2] Creation Date Time	[1]	The date and time of document creation. The date and time is expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
[2] Resource Object Details	[1*]	Repeated for each found DSO's Production Unit. One Production Unit might be repeated also when there is a change of time-dependent attribute. PU validity is split to contain attributes valid for the respective period.

		Resource Object Details contain all attributes if values are available.
[3] Resource Object Identification	[1]	Production Unit code and coding scheme
[3] Resource Object Name	[01]	Production Unit Name
[3] Object Aggregation	[1]	A06 Resource object
[3] Validity Start	[01]	Validity start date time expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7
[3] Validity End	[01]	Validity end date time expressed in UTC as YYYY-MM-DDTHH:MM:SSZ7
[3] Asset Type	[01]	Type of Production Unit B14 Nuclear B16 Solar B20 Other production Z04 Thermal Z05 Wind Z06 Hydro
[3] Production Type	[01]	Z01 Normal Z02 Minor Time dependent attribute.
[3] Measure Unit	[01]	MAW Megawatt
[3] Capacity	[01]	Production Unit capacity (positive decimal). Time dependent attribute.
[3] Party Details	[01]	Production Unit Retailer Time dependent attribute.
[4] Subject Party	[1]	Retailer code and coding scheme.

[4] Subject Party Role	[1]	A12 Balance Supplier (Retailer)
[3] Related Area	[0*]	Production Unit MGA Time dependent attribute. Always only one occurrence within Resource Object Details.
[4] Area Identification	[1]	MGA code and coding scheme.
[4] Type of Area	[1]	Z02 Metering Grid Area (MGA)

Following XML snippets shows how Resource Object Details is used to describe PU structure when some of the time-dependent attributes is changed during entire PU validity.

Change of Production Unit Retailer

There is a change of retailer from RE1 to RE2 on 2017-06-01T22:00Z UTC of PU1. Resource Object Details is repeated with split validity. Second occurrence contains new RE2 with validity during which is assigned to PU. Other attributes are same as in the first occurrence with original retailer because none of them have been changed.

<ResourceObjectDetails>

```
<ResourceObjectIdentification v="PU1" codingScheme="A10" />
      <ResourceObjectName v="TestPU1" />
      <ObjectAggregation v="A06" />
      <ValidityStart v="2017-01-01T23:00:00Z" />
      <ValidityEnd v="2017-06-01T22:00:00Z" />
      <AssetType v="B16" />
      <ProductionType v="Z02" />
      <MeasureUnit v="MAW" />
      <Capacity v="23" />
      <PartyDetails>
            <SubjectParty v="RE1" codingScheme="A10" />
            <SubjectPartyRole v="A12" />
      </PartyDetails>
      <RelatedArea>
            <AreaIdentification v="MGA1" codingScheme="A10" />
            <TypeOfArea v="Z02" />
      </RelatedArea>
</ResourceObjectDetails>
```

```
<ResourceObjectDetails>
      <ResourceObjectIdentification v="PU1" codingScheme="A10" />
      <ResourceObjectName v="TestPU1" />
      <ObjectAggregation v="A06" />
      <ValidityStart v="2017-06-01T22:00:00Z" />
      <AssetType v="B16" />
      <ProductionType v="Z02" />
      <MeasureUnit v="MAW" />
      <Capacity v="23" />
      <PartyDetails>
            <SubjectParty v="RE2" codingScheme="A10" />
            <SubjectPartyRole v="A12" />
      </PartyDetails>
      <RelatedArea>
            <AreaIdentification v="MGA1" codingScheme="A10" />
            <TypeOfArea v="Z02" />
      </RelatedArea>
</ResourceObjectDetails>
```

4.4.18 **Production Unit – Regulation Object Data Packages**

4.4.18.1	Table - SDP	Production	Unit -	Regulation	Object -	- All	Configuration

Attribute	Description
Name	Production Unit – Regulation Object (Active)
Receiver	BRP
Description	Data package is populated by Production Unit – Regulation Object relations where BRP is balance responsible for Production Unit Retailer and PU-RO relations are valid sometime within the configured time period. Data package contains relations with validities. Data package is available in Online Service when logged as particular BRP.
Format (Short Name)	Resource Object
Document Standard	NEG Resource Object Master Data Document defined in BRS for Master Data v1r7A – 20170419

Document Recognition	Document Type: Z23 Production Unit – Regulation Object (All)
	Process Type: Z07 Master data
Period From	D
Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 07:00 CET
	Data Package is distributed only if any data found
Data Scope (Filter)	System selects all Production Unit – Regulation Object relations where BRP is balance responsible for Production Unit retailer (BRP is derived PU attribute from Retailer Balance Responsibility) and relations are valid sometime within the configured period.
Message Type	DP Production Unit – Regulation Object (Active)
	SDP_PURO_A

4.4.18.2 Specific Data Package – Production Unit – Regulation Object – Delta

Attribute	Description
Name	Production Unit – Regulation Object (Delta)
Receiver	BRP
Description	Data package is populated by Production Unit – Regulation Object relations where BRP is balance responsible for Production Unit Retailer and PU-RO relations starts or ends within the configured time period. Data package contains relations with validities. Data package is available in Online Service when logged as particular BRP.
Format (Short Name)	Resource Object
Document Standard	NEG Resource Object Master Data Document defined in BRS for Master Data v1r7A – 20170419
Document Recognition	Document Type: Z22 Production Unit – Regulation Object (Delta) Process Type: Z07 Master data
Period From	D

Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 07:00 CET Data Package is distributed only if any data found
Data Scope (Filter)	System selects all Production Unit – Regulation Object relations where BRP is balance responsible for Production Unit retailer (BRP is derived PU attribute from Retailer Balance Responsibility) and relations starts or ends within the configured period.
Message Type	DP Production Unit – Regulation Object (Delta) SDP_PURO_D

Element	Card	Value Description and Mapping
Attribute	•	
[1] NEG Resource Object Master Data Document		
[2] Document Identification	[1]	Unique identification of the document
[2] Document Type	[1]	Z22 for PU-RO (Delta)
		Z23 for PU-RO (All)
		Parameter is used for document recognition
[2] Process Type	[1]	Z07 Master Data
		Parameter is used for document recognition
[2] Sender Identification	[1]	eSett Code with Coding scheme
[2] Sender Role	[1]	A05 Imbalance settlement responsible
[2] Receiver Identification	[1]	BRP's Code and Coding scheme used for authentication and authorization. Identification of the party that is the owner of the document and is responsible for its content. See Business Validations.
		Balance Responsible Party / Code
		Balance Responsible Party / Coding Scheme
[2] Receiver Role	[1]	A05 Balance Responsible Party (BRP)
[2] Creation Date Time	[1]	The date and time that the document was prepared for transmission by Basse. The date and time must be expressed in UTC in format YYYY-MM-DDTHH:MM:SSZ
[2] Resource Object Details	[1*]	Will be repeated for each combination of Production Unit – Regulation Object relations available in selected time period for selected BRP
[3] Resource Object	[1]	Unique ID of the Production Unit – Code and Coding Scheme:
Identification		Production Unit / Code
		Production Unit / Coding Scheme
[3] Resource Object Name	[01]	Production Unit Name.
[3] Object Aggregation	[1]	A06 Resource object (used for detailed units)
		Z01 Generator group

4.4.18.3 NEG Resource Object (Production Unit) Master Data Document Attribute Usage for PU-RO DP

[3] Validity Start	[0*]	Business Date Time From Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents) Validity Start of Production Unit – Regulation Object relation
[3] Validity End	[0*]	Business Date Time To Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents) Validity End of Production Unit – Regulation Object relation Not present if Validity End is Undefined
[3] Related Resource Object	[0*]	Details about Production Unit – Regulation Object relation Regulation Object
[4] Resource Object Identification	[1]	Unique ID of the Regulation Object – Code and Coding Scheme: Regulation Object / Code Regulation Object / Coding Scheme
[4] Resource Object Name	[01]	Name of the Regulation Object: Regulation Object / Name

4.4.18.4 XML Snippet example

```
<ResourceObjectDetails>

<ResourceObjectIdentification>

<ResourceObjectIdentification v="PU12" codingScheme="EIC" />

<ResourceObjectName v="Test PU12" />

</ResourceObjectIdentification>

<ObjectAggregation v="A06" />

<ValidityStart v="2018-01-01T00:00:00Z" />

<RelatedResourceObject>

<ResourceObjectIdentification v="R012" codingScheme="EIC" />

<ResourceObjectName v="Test R01" />

</RelatedArea>

</ResourceObjectDetails>
```

4.4.19 Bilateral Trade MEC Data Packages

4.4.19.1 SDP Bilateral Trade MEC – All - Configuration

Attribute	Description
Name	Bilateral Trades – Structure (Active)
Receiver	BRP
Description	Data package is populated by structural MECs of Bilateral Trades where BRP recipient is responsible in defined period. Only structural MECs of Bilateral Trades valid sometime within the defined period are included in the Data package. Data package is available in Online Service when logged as particular BRP.
Format (Short Name)	Trade Structure Document
Document Standard	Ediel Notify Trade Structure Document version 1.0 (CIM based)
Document Recognition	Document Type = Z27
Period From	D
Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 08:00 CET Data Package is distributed only if any data found
Data Scope (Filter)	System selects all structural Bilateral Trades MECs where BRP is responsible and the MECs are valid sometime within the configured time period.
Message Type	DP Bilateral Trade Structure (All) SDP_BITSTR_A

4.4.19.2 SDP Bilateral Trade MEC – Delta - Configuration

Attribute	Description
Name	Bilateral Trades – Structure (Delta)

Receiver	BRP
Description	Data package is populated by Bilateral Trades MECs that are related to BRP recipient and their validity starts or ends within the configured time period. Data package is available in Online Service when logged as particular BRP.
Format (Short Name)	Trade Structure Document
Document Standard	Ediel Notify Trade Structure Document version 1.0 (CIM based)
Document Recognition	Document Type = Z26
Period From	D
Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 08:00 CET Data Package is distributed only if any data found
Data Scope (Filter)	System selects structural Bilateral Trades MECs where BRP is responsible and the MEC's validity starts or ends sometime within the configured time period.
Message Type	DP Bilateral Trade Structure (Delta) SDP_BITSTR_D

4.4.19.3 Ediel Notify Bilateral Trade Structure Document - Attribute Usage for Bilateral Trade DP

BRS Attribute [XML Attribute]	Card i- nalit y	Code and description
Request Trade Structure Document [RequestTradeStructure_MarketDocument]	[1]	
Document Identification [mRID]	[1]	Unique identification of the document

Document Type [type]	[1]	 Z26 Bilateral trade structure master data document containing master data changed within the Validity Time Interval - Bilateral Trades – Structure (Delta) Z27 Bilateral trade structure master data document containing all valid master data within the Validity Time Interval – Bilateral Trades – Structure (Active)
Process Type [Process.processType]	[1]	Z07 Master data
Sender Identification [Sender_MarketParticipant.mRID]	[1]	eSett's Code with Coding scheme
Sender Role [Sender_MarketParticipant.marketRole.typ e]	[1]	A05 Imbalance Settlement Responsible
Receiver Identification [Reciever_MarketParticipant.mRID]	[1]	Data Package Subscriber's (BRP) Code and Coding scheme Balance Responsible Party / Code Balance Responsible Party / Coding Scheme
Receiver Role [Reciever_MarketParticipant.marketRole.ty pe]	[1]	A08 Balance Responsible Party
Creation Date Time [createdDateTime]	[1]	Date and time for creation of the document. The date and time must be expressed in UTC in format YYYY- MM-DDTHH:MM:SSZ
Notify Trade Structure Details [NotifyTradeStructure_TimeSeries]	[1*]	Details about Bilateral Trade Structures. Repeated for each of Bilateral Trade MEC.
Transaction Identification [mRID]	[1]	Unique ID of the transaction
Validity Start [validityStart_DateAndOrTime.dateTime]	[01]	Business Date Time From Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents) Validity Start of MEC Bilateral Trade
Validity End [validityEnd_DateAndOrTime.dateTime]	[01]	Business Date Time To Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents)

		Validity End of MEC Bilateral Trade Not present if Validity End is Undefined
Area [domain.mRID]	[1]	Unique ID of the Bilateral Trade's MBA – Code and Coding Scheme: Market Balance Area / Code Market Balance Area / Coding Scheme
Agreement Identification [marketAgreement.mRID]	[01]	The unique ID of Bilateral Trade Structure Bilateral Trade / Agreement Identification
<i>In Party</i> [In_MarketParticipant]	[22]	The party being the buyer in the bilateral trade Two 'In Party' elements: BRP (A08) RE (Z05)
Identification [mRid]	[1]	Party Code and Coding Scheme
Role [marketRole.type]	[1]	 The role of the in party, i.e. Balance Responsible Party Trader (non-balance responsible party)
Out Party [Out_MarketParticipant]	[22]	The party being the seller in the bilateral trade Two 'In Party' elements: BRP (A08) RE (Z05)
Identification [mRid]	[1]	Party Code and Coding Scheme
Role [marketRole.type]	[1]	 The role of the in party, i.e. A08 Balance Responsible Party Z05 Trader (non-balance responsible party)

4.4.19.4 SDP Bilateral Trade MEC – XML Snippet Example

<cim:TimeSeries> <cim:mRID>mRID-TransactionID001a</cim:mRID> <cim:validityStart DateAndOrTime.dateTime>2018-01-01T01:00:00Z</cim:validityStart DateAndOr-Time.dateTime> <cim:domain.mRID codingScheme="A01">10YNO-1------2</cim:domain.mRID> <cim:marketAgreement.mRID>mRID-AgreementID001a</cim:marketAgreement.mRID> <cim:In MarketParticipant> <cim:mRID codingScheme="A10">7080003940117</cim:mRID> <cim:marketRole.type>A08</cim:marketRole.type> </cim:In MarketParticipant> <cim:In_MarketParticipant> <cim:mRID codingScheme="A10">7080003819260</cim:mRID> <cim:marketRole.type>**Z05**</cim:marketRole.type> </cim:In_MarketParticipant> <cim:Out MarketParticipant> <cim:mRID codingScheme="A01">10X1001A1001A418</cim:mRID> <cim:marketRole.type>A08</cim:marketRole.type> </cim:Out MarketParticipant> <cim:Out_MarketParticipant> <cim:mRID codingScheme="A01">7080003823427</cim:mRID> <cim:marketRole.type>**Z05**</cim:marketRole.type> </cim:Out MarketParticipant> </cim:TimeSeries>

4.4.20 PX Market Trade MEC Data Packages

4.4.20.1 SDP PX Market Trade MEC – All - Configuration

Attribute	Description
Name	PX Market Trades – Structure (Active)
Receiver	Market Operator in BRP role
Description	Data package is populated by structural MECs of PX Market Trades where Market Operator is responsible and MEC is valid sometime within the defined period. Data package is available in Online Service when logged as particular Market Operator.
Format (Short Name)	Trade Structure Document
Document Standard	Ediel Notify Trade Structure Document version 1.0 (CIM based)
Document Recognition	Document Type = Z29
Period From	D
Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 07:00 CET Data Package is distributed only if any data found
Data Scope (Filter)	System selects all structural PX Market Trades MECs where BRP is responsible and the MECs are valid sometime within the configured time period.
Message Type	DP PX Market Trades – Structure (All) SDP_PXT_A

4.4.20.2 SDP – PX Market Trade MEC – Delta – Configuration

Attribute	Description
Name	PX Market Trades – Structure (Delta)
Receiver	Market Operator in BRP role

Description	Data package is populated by PX Market Trades MECs that are related to subscriber (Market Operator) and their validity starts or ends within the configured time period. Data package contains PX Market Trade structure MECs with validity. Data package is available in Online Service when logged as particular BRP.
Format (Short Name)	Trade Structure Document
Document Standard	Ediel Notify Trade Structure Document version 1.0 (CIM based)
Document Recognition	Document Type = Z28
Period From	D
Period To	D+14
Time Trigger (Words)	Daily Basis, delivered till 07:00 CET Data Package is distributed only if any data found
Data Scope (Filter)	System selects structural PX Market Trades MECs where BRP is responsible and the MEC's validity starts or ends sometime within the configured time period.
Message Type	DP PX Market Trades – Structure (Delta) SDP_PXT_D

4.4.20.3 Ediel Notify PX Trade Structure Document – Attribute Usage for PX Market Trade DP

BRS Attribute [XML Attribute]	Card i- nalit y	Code and description
Notify Trade Structure Document [NotifyTradeStructure_MarketDocument]	[1]	
Document Identification [mRID]	[1]	Unique identification of the document
Document Type [type]	[1]	 Z28 PX trade structure master data document containing master data changed within the Validity Time Interval Z29 PX trade structure master data document containing all valid master data within the Validity Time Interval

Process Type [Process.processType]	[1]	207 Master data
Sender Identification [Sender_MarketParticipant.mRID]	[1]	eSett's Code with Coding scheme
Sender Role [Sender_MarketParticipant.marketRole.typ e]	[1]	A05 Imbalance Settlement Responsible
Receiver Identification [Reciever_MarketParticipant.mRID]	[1]	Data Package Subscriber's (BRP as Market Operator) Code and Coding scheme Balance Responsible Party / Code Balance Responsible Party / Coding Scheme
Receiver Role [Reciever_MarketParticipant.marketRole.ty pe]	[1]	A11 Market operator
Creation Date Time [createdDateTime]	[1]	Date and time of the document creation The date and time must be expressed in UTC in format YYYY-MM-DDTHH:MM:SSZ
Notify Trade Structure Details [NotifyTradeStructure_TimeSeries]	[1*]	Details about PX Market Trade Structures. Repeated for each of PX Market Trade MEC.
Transaction Identification [mRID]	[1]	Unique ID of the transaction
Validity Start [validityStart_DateAndOrTime.dateTime]	[01]	Business Date Time From Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents) Validity Start of PX Market Trade
Validity End [validityEnd_DateAndOrTime.dateTime]	[01]	Business Date Time To Expressed in UTC as YYYY-MM-DDTHH:MM:SSZ (See Validities in Documents) Validity End of PX Market Trade Not present if Validity End is Undefined
Area [domain.mRID]	[1]	Unique ID of the PX Market Trade's MBA where Trade can take a place – Code and Coding Scheme: Market Balance Area / Code Market Balance Area / Coding Scheme

Contract type [marketAgreement.type]	[1]	PX Market / PX Market TypeA01Daily (Day Ahead) – Day AheadA07Intraday contract – Intraday
In Party [In_MarketParticipant]	[23]	BRP (A08) - mandatory Market Operator (A11) – mandatory RE (Z05) – optional
Identification [mRid]	[1]	Market Operator, BRP's and Retailer's Code and Coding scheme depending on the Role. PX Market / Operator / Code PX Market / Operator / Coding Scheme Balance Responsible Party / Code Balance Responsible Party / Coding Scheme Retailer / Code Retailer / Coding Scheme
Role [marketRole.type]	[1]	 A08 Balance Responsible Party A11 Market operator Z05 Trader (non-balance responsible party)

4.4.20.4 SDP PX Market Trade MEC – XML Snippet Example

<cim:TimeSeries> <cim:mRID>mRID-TransactionID001a</cim:mRID> <cim:validityStart DateAndOrTime.dateTime>2018-01-01T01:00:00Z</cim:validityStart DateAndOr-Time.dateTime> <cim:domain.mRID codingScheme="A01">10YNO-1------2</cim:domain.mRID> <cim:marketAgreement.type>A07</cim:marketAgreement.type> <cim:In MarketParticipant> <cim:mRID codingScheme="A10">7080003940117</cim:mRID> <cim:marketRole.type>A08</cim:marketRole.type> </cim:In MarketParticipant> <cim:In MarketParticipant> <cim:mRID codingScheme="A10">7080003819260</cim:mRID> <cim:marketRole.type>A11</cim:marketRole.type> </cim:In MarketParticipant> <cim:In MarketParticipant> <cim:mRID codingScheme="A10">7080003873841</cim:mRID> <cim:marketRole.type>Z05</cim:marketRole.type> </cim:In MarketParticipant> </cim:TimeSeries>

4.4.21 Delivered Reserves

Delivered Reserves data are split into BRP and RE Delivered Reserves, Both BRP and RE structural DER MECs indicate BSP and BRP. BSP has access to all Delivered Reserves on its own ROs. BRP has access to all its own BRP Delivered Reserves and those for which it has Retailer Balance Responsibility on RE Reserves.

Delivered Reserves consist of delivered Quantity and misdelivered Quantity (Misdelivery). If any misdelivery is indicated per market party, it will also be sent in the data package in a separate time series segment.

Both BRP and RE Delivered Reserves are contained in one message. All existing MECs with data for respective BSP/BRP are reported in multiple time series segments inside of the message. BRP Reserves are indicated with BRP + MBA combination. RE Reserves are indicated with RE + MGA combination.

SDP: Delivered Reserves for BSP				
Name	Delivered Reserves for BSP			
Receiver	BSP			
Description	Energy up/down for BSP per MBA/MGA, market party, RO, Balancing Sub-Service and Activation Method			
Format (Short Name)	Delivered Reserves			
Document Standard	CIM Activation_MarketDocument			
Aggregation	Time Aggregation – QH (15-minute)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, morning 04:30			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	System selects all Delivered Reserves that belong to the BSP. BSP dimension exists on both BRP and RE Delivered Reserves structural MECs.			

SDP: Delivered Reserves for BRP				
Name	Delivered Reserves for BRP			
Receiver	BRP			
Description	Energy up/down for BRP per MBA/MGA, market party, RO,Balancing Sub-Service and Activation Method			
Format (Short Name)	Delivered Reserves			
Document Standard	CIM Activation_MarketDocument			
Aggregation	Time Aggregation – QH (15-minute)			
Time Period From	D-14			

Time Period To	D-1
Time Trigger (Words)	Daily basis, morning 04:30 Data package is not distributed when there are no data reported.
Data Scope (Filter)	System selects all Delivered Reserves that belong to the BRP. BRP dimension exists on both BRP and RE Delivered Reserves structural MECs.

4.4.21.1 Document Format Attribute Usage – Delivered Reserves for BSP

Mark [x] indicates the level in the document structure.

Index – Attribute (XML Schema)	CI.	Description incl. Document Validations		
[1.0] Reserve Activation Result Document	[1]			
[1.1] Document Identification (mRID)	[1]	Unique identification of the document.		
[1.2] Document Version	[1]	Running number incrementing by 1 for each update.		
[1.3] Document Type	[1]	Document Type = " A83 "		
[1.4] Process Type	[1]	Process Type is following: A16 Realised		
[1.5] Sender Identification	[1]	eSett ID Code and Coding Scheme		
[A] codingScheme	[1]	See Error! Reference source not found.		
[1.6] Sender Role	[1]	Sender Role: " A05 " (Imbalance Settlement Responsible)		
[1.7] Receiver Identification	[1]	BSP Code and Coding Scheme		
[A] codingScheme	[1]	See Error! Reference source not found.		
[1.8] Receiver Role	[1]	Receiver Role: A46 Balancing Service Provider (BSP)		

[1.9] Creation Date Time	[1]	The date and time that the document was prepared for transmission by the application of the sender.			
[1.10] Reserve Bid Time Interval	[1]	The beginning and ending date and time of the period covered by the document.			
[1.11] Domain	[1]	Domain covered by the schedule document.			
		Nordic Market Area ID = 10Y1001A1001A91G			
[A] codingScheme	[1]	Domain coding scheme			
[2.0] Time Series	[1*]				
[2.1] Time Series Identification (mRID)	[1]	Time series ID – Unique ID of the Time Series (generated by BASSE)			
[2.2] Resource Provider Party Identification	[1]	Unique identification of the party providing the resources (BSP)			
[A] codingScheme	[1]	See Error! Reference source not found.			
[2.3] Related Party Identification		Unique identification of the party whose resource is activated			
[A] codingScheme	[1]	See Error! Reference source not found.			
[2.4] Related Party Role		Related party role indicates BRP or RE Delivered Reserve:			
		A08 Balance Responsible Party (BRP)			
		A12 Energy Supplier (RE)			
[2.5] Business Type	[1]	Identifies reported reserve type, used in combination with Reason code:			
		A95 Frequency containment reserve			
		A96 Automatic frequency restoration reserve			
		A97 Manual frequency restoration reserve			
		C26 Frequency Containment Reserve-Normal (FCR-N)			
		C27 Frequency Containment Reserve-Disturbance (FCR-D)			
		Z85 Fast frequency reserve			
[2.6] Acquiring Area	[1]	Unique identification of the Market Balance Area (MBA) where the energy is purchased.			
		In case of BRP Delivered reserves this will be the same as Connecting Area.			

		In case of RE Delivered Reserves, connecting area will be MGA.			
[A] codingScheme	[1]	MBA coding scheme			
[2.7] Connecting Area	[1]	In case of BRP Delivered reserves this attribute represents MBA and will be equal to Acquiring Area attribute,			
		case of RE Delivered Reserves this attribute represents MGA.			
		epends on Related Party Role:			
		A08 = MBA			
		A12 = MGA			
[A] codingScheme	[1]	MBA/MGA Coding Scheme			
[2.8] Measure Unit Quantity	[1]	Unit of measurement "MWH"			
[2.9] Direction	[1]	Indicated direction of reported reserve values:			
		A01 Up			
		A02 Down			
[2.10] Reserve Object Status	[1]	Defines reported Quantity values as Up / Down Quantity or Up / Down Misdelivery:			
		A07 Activated (Quantity)			
		A73 Delta (Misdelivery)			
		Note:			
		Reserve Object Status "A73 Delta" uses signed values, i.e. will be negative in case of an 'underdelivery' and positive in case of an 'overdelivery'."			
[2.11] Reserve Object	[1]	Identification of Regulation Object.			
[A] codingScheme	[1]	RO Coding Scheme			
[2.12] Period (Reserve Activation Time Series Level)	[1*]				
[2.12.1] Time Interval	[1]	Period covered by the document.			
[2.12.2] Resolution	[1]	Resolution of reported values:			
		PT15M – 15-minute values			

[2.13] Point	[1]				
[2.13.1] Position	[1]	Relative position of a period within the time interval.			
[2.13.2] Quantity	[1]	Quantity of the product scheduled for the position. Up / Down Quantity for Reserve Object Status = A07 Up / Down Misdelivery for Reserve Object Status = A73			
[2.14] Reason (Reserve Activation Time Series Level)	[1*]				
[2.14.1] Reason Code 1 st repetition	[1]	Reason code indicates one of values listed in column "Reason Code" of table Delivered Reserves Types Combination. The combination will indicated which BSS is reported.			
[2.14.2] Reason Code 2 nd repetition	[1]	Reason code 2 nd repetition indicated which Activation Method is reported: Z84 Activation of Own resources Z85 Activation of Contracted resources Z86 Independent Aggregation			

4.4.21.2 Document Format Attribute Usage – Delivered Reserves for BRP

Mark [x] indicates the level in the document structure.

Index – Attribute (XML Schema)	CI.	Description incl. Document Validations
[1.0] Reserve Activation Result Document	[1]	
[1.1] Document Identification (mRID)	[1]	Unique identification of the document.
[1.2] Document Version	[1]	Running number incrementing by 1 for each update.
[1.3] Document Type	[1]	Document Type = "A83"
[1.4] Process Type	[1]	Process Type is following: A16 Realised
[1.5] Sender Identification	[1]	eSett ID Code and Coding Scheme

[A] codingScheme	[1]	See Error! Reference source not found.			
[1.6] Sender Role	[1]	Sender Role:			
		"A05" (Imbalance Settlement Responsible)			
[1.7] Receiver Identification	[1]	BRP Code and Coding Scheme			
[A] codingScheme	[1]	See Error! Reference source not found.			
[1.8] Receiver Role	[1]	Receiver Role:			
		A08 Balance Responsible Party (BRP)			
[1.9] Creation Date Time	[1]	The date and time that the document was prepared for transmission by the application of the sender.			
[1.10] Reserve Bid Time Interval	[1]	The beginning and ending date and time of the period covered by the document.			
[1.11] Domain	[1]	Domain covered by the schedule document.			
		Nordic Market Area ID = 10Y1001A1001A91G			
[A] codingScheme	[1]	Domain coding scheme			
[2.0] Time Series	[1*]				
[2.1] Time Series Identification (mRID)	[1]	Time series ID – Unique ID of the Time Series (generated by BASSE)			
[2.2] Resource Provider Party	[1]	Unique identification of the party providing the resources (BSP)			
Identification		For the following combination this attribute is replaced by "NotAuthorized":			
		- Acquiring Area = FI (Finland)			
		- 2 nd Reason Code = Z86 (Independent Aggregation)			
[A] codingScheme	[1]	See Error! Reference source not found.			
[2.3] Related Party Identification		Unique identification of the party whose resource is activated			
[A] codingScheme	[1]	See Error! Reference source not found.			
[2.4] Related Party Role		Related party role indicates BRP or RE Delivered Reserve:			
		A08 Balance Responsible Party (BRP)			

		A12 Energy Supplier (RE)			
[2.5] Business Type	[1]	Identifies reported reserve type, used in combination with Reason code: A95 Frequency containment reserve A96 Automatic frequency restoration reserve A97 Manual frequency restoration reserve C26 Frequency Containment Reserve-Normal (FCR-N) C27 Frequency Containment Reserve-Disturbance (FCR-D) Z85 Fast frequency reserve			
[2.6] Acquiring Area	[1]	Jnique identification of the Market Balance Area (MBA) where the energy is purchased. n case of BRP Delivered reserves this will be the same as Connecting Area. In case of RE Delivered Reserves, connecting area will be MGA.			
[A] codingScheme	[1]	MBA coding scheme			
[2.7] Connecting Area	[1]	In case of BRP Delivered reserves this attribute represents MBA and will be equal to Acquiring Area attribute, In case of RE Delivered Reserves this attribute represents MGA. Depends on Related Party Role: A08 = MBA A12 = MGA			
[A] codingScheme	[1]	MBA/MGA Coding Scheme			
[2.8] Measure Unit Quantity	[1]	Unit of measurement "MWH"			
[2.9] Direction	[1]	Indicated direction of reported reserve values: A01 Up A02 Down			
[2.10] Reserve Object Status	[1]	Defines reported Quantity values as Up / Down Quantity or Up / Down Misdelivery: A07 Activated (Quantity) A73 Delta (Misdelivery) <i>Note:</i>			

		Reserve Object Status "A73 Delta" uses signed values, i.e. will be negative in case of an 'underdelivery' and positive in case of an 'overdelivery'."		
[2.11] Reserve Object	[1]	Identification of Regulation Object. For the following combination this attribute is replaced by "NotAuthorized": - Acquiring Area = FI (Finland) - 2 nd Reason Code = Z86 (Independent Aggregation)		
[A] codingScheme	[1]	RO Coding Scheme		
[2.12] Period (Reserve Activation Time Series Level)	[1*]			
[2.12.1] Time Interval	[1]	Period covered by the document.		
[2.12.2] Resolution	[1]	Resolution of reported values: PT15M – 15-minute values		
[2.13] Point	[1]			
[2.13.1] Position	[1]	Relative position of a period within the time interval.		
[2.13.2] Quantity	[1]	Quantity of the product scheduled for the position. Up / Down Quantity for Reserve Object Status = A07 Up / Down Misdelivery for Reserve Object Status = A73		
[2.14] Reason (Reserve Activation Time Series Level)	[1*]			
[2.14.1] Reason Code 1 st repetition	[1]	Reason code indicates one of values listed in column "Reason Code" of table Delivered Reserves Types Combination. The combination will indicated which BSS is reported.		
[2.14.2] Reason Code 2 nd repetition	[1]	Reason code 2 nd repetition indicated which Activation Method is reported: Z84 Activation of Own resources Z85 Activation of Contracted resources Z86 Independent Aggregation		

4.4.21.3	Supported	Delivered	Reserves	Types
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Process type	Business type	Direction	Reason code (1 st repetition)
A16 Realised	A95 Frequency containment reserve	A01 Up A02 Down	Z29 FCR (Frequency Containment Reserve)
	Z85 Fast frequency reserve	A01 Up A02 Down	Z56 Fast Frequency Reserve (FFR)
	A96 Automatic frequency restoration reserve	A01 Up A02 Down	Z30 aFRR (Frequency Restoration Reserve - Automatic)
			Z54 aFRR AOF activation
			Z55 aFRR non-AOF activation
	A97 Manual frequency restoration reserve	A01 Up A02 Down	Z31 mFRR, Balancing Power (Frequency Restoration Reserve - Manual activated reserves, Balancing Power)
			Z34 mFRR, Quarter regulation (Frequency Restoration Reserve - Manual activated reserves, Quarter regulation)
			Z35 mFRR, Special Regulation (Frequency Restoration Reserve - Manual activated reserves, Special Regulation)
			Z36 Hour Change Regulation
			Z37 Power Transaction
			Z38 TSO Internal Countertrades
			Z39 Day Ahead Production Adjustment
			Z63 Period shift activation
	C26 Frequency Containment Reserve-Normal (FCR-N)	A01 Up A02 Down	Z40 Frequency Containment Reserve, Normal operation (FCR-N).
	C27 Frequency Containment Reserve-Disturbance (FCR- D)	A01 Up A02 Down	Z41 Frequency Containment Reserve, Disturbance (FCR-D).

4.4.22 Reserve Compensations/Regulation Imbalance Data Packages 15-minute

Time-based Data packages for BSP role:

- Reserve Compensations
- Regulation Imbalance

Time-based Data packages for BRP role:

Reserve Compensations

4.4.22.1 Reserve Compensations for BSP per RE, MGA and Balancing Service

Attribute				
Name	Reserve Compensations per BSP, RE, MGA and Balancing Service			
Receiver	BSP			
Description	BSP's Reserve Compensations per RE volumes (MWh) and amounts (EUR) per MGA and Balancing Sub-Service			
Format (Short Name)	Compensations			
Document Standard	NEG ESP Energy Account Report Document (EAR)			
Aggregation	Time Aggregation – QH (15-minute)			
Time Period From	D-14			
Time Period To	D-1			
Time Trigger (Words)	Daily basis, afternoon 14:00			
	Data package is not distributed when there are no data reported.			
Data Scope (Filter)	All BSP's Reserve Compensations per RE volumes (MWh) and amounts (EUR) per MGA, BSS			
4.4.22.2 Reserve Compensations for BRP per RE, MGA and Balancing Service

Attribute			
Name	eserve Compensations per BRP, RE, MGA and Balancing Service		
Receiver	BRP		
Description	BRP's Reserve Compensations per RE volumes (MWh) and amounts (EUR) per MGA and Balancing Sub-Service		
Format (Short Name)	Compensations		
Document Standard	NEG ESP Energy Account Report Document (EAR)		
Aggregation	Time Aggregation – QH (15-minute)		
Time Period From	D-14		
Time Period To	D-1		
Time Trigger (Words)	Daily basis, afternoon 14:00		
	Data package is not distributed when there are no data reported.		
Data Scope (Filter)	All BRP's Reserve Compensations per RE volumes (MWh) and amounts (EUR) per MGA, BSS		

4.4.22.3 Regulation Imbalance for BSP per MBA

Attribute	
Name	Regulation Imbalance for BSP per MBA
Receiver	BSP
Description	BSP's Regulation Imbalance per MBA volumes (MWh) and amounts (EUR)
Format (Short Name)	Regulation Imbalance
Document Standard	NEG ESP Energy Account Report Document (EAR)
Aggregation	Time Aggregation – QH (15-minute)

Time Period From	D-14		
Time Period To	-1		
Time Trigger (Words)	Daily basis, afternoon 14:00		
	Data package is not distributed when there are no data reported.		
Data Scope (Filter)	All BSP's Regulation Imbalance per MBA volumes (MWh) and amounts (EUR)		

4.4.22.4 Document Format Attribute Usage

Document used for settlement data is 'NEG ESP Energy Account Report Document'. Attribute usage is specified separately for document header and time series part is specified separately for Reserve Compensation and Regulation Imbalance data.

Mark [x] indicates the level in the document structure.

4.4.22.4.1 Header - NEG ESP Energy Account Report Document – Reserve Compensations

Attribute (XML Schema)	CI.	Description
[1] Energy Account Report Document		
[2] Document Identification	[1]	Globally unique identifier (GUID) is used as generated Document ID. GUID is used without dashes to meet maximal length 35 characters.
		Example: "5ae1c0ba922c420b891c69356e6e746b"
[2] Document Version	[1]	Fixed value "1"
[2] Document Type	[1]	A56 - Compensation Program Schedule
[2] Document Status	[1]	A01 - Intermediate
[2] Process Type	[1]	A06 - Imbalance settlement
[2] Classification Type	[1]	A02 - Summary type
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender role	[1]	A05 - Imbalance Settlement Responsible

[2] Receiver Identification	[1]	Market Party identification: BSP or BRP code and coding scheme
[2] Receiver role	[1]	A46 - Balancing Service Provider for BSP
		A08 - Balance Responsible Party for BRP
[2] Document Date and Time	[1]	The time stamp of the calculation (time stamp of the document creation is sufficient)
[2] Accounting period	[1]	The beginning and ending date and time of the period covered. The beginning and ending date and time are calculated as minimum and maximum of all Time Intervals from all Accounting Time Series, respectively. YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ
[2] Domain	[1]	Class Global Parameter, attribute NBS Domain and NBS Domain Coding Scheme
[2] Account Time Series	[1*]	Settlement Results:
		Compensations for BSP per RE, MGA and Balancing Service
		Compensations for BRP per RE, MGA and Balancing Service
		The data is aggregated on Balancing Service level from Balancing Sub-Services. The data per BSP and BRP is available from Compensations volumes per RE per MGA related to the relevant BSP / BRP.

4.4.22.4.2 Time Series for Reserve Compensations

Attribute (XML Schema)	CI.	Description
[2] Account Time Series	[1*]	The number of occurrences depends on the number of Retailers which have Compensations calculated related to the BSP or BRP.
		BSP is derived from the Regulation Object for relevant RE Compensation.
		BRP is derived from the RBR for the relevant RE Compensation.
[3] Senders Time Series Identification	[1]	Globally unique identifier (GUID) is used as generated Time Series ID. GUID is used without dashes to meet maximal length 35 characters.
		Example: "5ae1c0ba922c420b891c69356e6e746b"
[3] Business Type	[1]	A95 - Frequency containment reserve
		A96 - Automatic frequency restoration reserve

		A97 - Manual frequency restoration reserve
		C26 - Frequency Containment Reserve-Normal (FCR-N)
		C27 - Frequency Containment Reserve-Disturbance (FCR-D)
		Z85 - Fast frequency reserve
[3] Product	[1]	'8716867000030' (Active energy)
[3] Object Aggregation	[1]	A01 – Area
[3] Area	• 1]	MGA Code and Coding Scheme
[3] Party	[1]	RE ID: The Retailer for which the Compensation is applied aggregated on MGA and Balancing Service level.
[3] Measurement Unit	[1]	'MWH'
[3] Currency	[0*]	Time-based data-package contains only EUR currency.
[3] Period	[1*]	
[4] Time Interval	[1]	Time interval of reported values. It is subset of Accounting Period time interval from the document header.
		Note: In case of starting or ending validity of MGA within Accounting Period the Time Interval can be smaller than Accounting Period time interval.
[4] Resolution	[1]	PT15M – 15-minute Resolution
[4] Account Interval	[1*]	
[5] Pos	[1]	Sequence number of the time interval
[5] In Qty	• 1]	In Compensation RE Quantity
[5] Out Qty	• 1]	Out Compensation RE Quantity
[5] Settlement Amount	• 01]	 The Compensation amount due for the account interval in question. This information defines the settlement amount taking into consideration the in and out quantities and the pricing scheme based on local market rules.

	• A negative value indicates that the settlement amount is due by the party in question (party to be debited). If the
	amount is positive it is due by the imbalance settlement responsible (party to be credited).

4.4.22.4.3 Header - NEG ESP Energy Account Report Document – Regulation Imbalance

Attribute (XML Schema)	CI.	Description
[1] Energy Account Report Document		
[2] Document Identification	[1]	Globally unique identifier (GUID) is used as generated Document ID. GUID is used without dashes to meet maximal length 35 characters.
		Example: "5ae1c0ba922c420b891c69356e6e746b"
[2] Document Version	[1]	Fixed value "1"
[2] Document Type	[1]	A12 - Imbalance report
[2] Document Status	[1]	A01 - Intermediate
[2] Process Type	[1]	A27 - Reserve resource process
[2] Classification Type	[1]	A02 - Summary type
[2] Sender Identification	[1]	eSett Code and Coding Scheme
[2] Sender role	[1]	A05 - Imbalance Settlement Responsible
[2] Receiver Identification	[1]	Market Party identification: BSP code and coding scheme
[2] Receiver role	[1]	A46 - Balancing Service Provider for BSP
[2] Document Date and Time	[1]	The time stamp of the calculation (time stamp of the document creation is sufficient)
[2] Accounting period	[1]	The beginning and ending date and time of the period covered. The beginning and ending date and time are calculated as minimum and maximum of all Time Intervals from all Accounting Time Series, respectively.
		YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ

[2] Domain	[1]	Class Global Parameter, attribute NBS Domain and NBS Domain Coding Scheme
[2] Account Time Series	[1*]	Settlement Results: Regulation Imbalance for BSP per MBA

4.4.22.4.4 Time Series for Regulation Imbalance

Attribute (XML Schema)	CI.	Description
[2] Account Time Series	[1*]	The number of occurrences depends on the number of MBAs the relevant BSP have Regulation Imbalance in.
[3] Senders Time Series Identification	[1]	Globally unique identifier (GUID) is used as generated Time Series ID. GUID is used without dashes to meet maximal length 35 characters. Example: "5ae1c0ba922c420b891c69356e6e746b"
[3] Business Type	[1]	A23 - Balance Management
[3] Product	[1]	' 8716867000030 ' (Active energy)
[3] Object Aggregation	[1]	A01 – Area
[3] Area	• 1]	MBA Code and Coding Scheme
[3] Party	[1]	BSP: The BSP for which the Regulation Imbalance is reported.
[3] Measurement Unit	[1]	'MWH'
[3] Currency	[0*]	Time-based data-package contains only EUR currency.
[3] Period	[1*]	
[4] Time Interval	[1]	Time interval of reported values. It is subset of Accounting Period time interval from the document header.
[4] Resolution	[1]	PT15M – 15-minute Resolution
[4] Account Interval	[1*]	
[5] Pos	[1]	Sequence number of the time interval

[5] In Qty	• 1]	In Regulation Imbalance Quantity
[5] Out Qty	• 1]	Out Regulation Imbalance Quantity
[5] Settlement Amount	•	 The Regulation Imbalance amount due for the account interval in question. This information defines the settlement amount taking into consideration the in and out quantities and the pricing scheme based on local market rules.
		• A negative value indicates that the settlement amount is due by the party in question (party to be debited). If the amount is positive it is due by the imbalance settlement responsible (party to be credited).

4.5 XML Samples and XSD

XML Scheme Definition (XSD) of all documents is available on Ediel.org in common package 'Complete set of NBS Documents'.

XML samples of data packages are not part of 'Complete set of NBS Documents'.

XML samples have file name in line with the list in Table 7 - Specific Data Packages Overview.