ComXerv 3.7.3
XML Report Reference
EPEX / EEX / SOUTHPOOL

Version	1.0.2
Status	Final Version
Document ID	DFS240 - XML REPORT REFERENCE - CX 3.7.3 - V1.0.2.DOCX
Author	DBAG Project Team

Table of Contents

1 Abstract

The reporting feature provides an enhanced interface as well as functionality for subscribing, unsubscribing and downloading system-generated reports in XML format. The reports provide a comprehensive view of trading activity on a specific day. Via the ComXerb WebGUI users can manage report type subscriptions and download generated reports.

2 Technical Concept

2.1 Definitions

Report Type: A report type can be subscribed or unsubscribed by the customers. A report type defines the name, the structure, the content, the accessibility and the point of creation time of a concrete report.

Report: A report is a concrete instance of a report type. Its content is defined through the corresponding report type, interval and customer. Its format is XML. A report can be downloaded by the customer via the WebGUI.

2.2 XML Report Layout

The XML report layout consists of the basic elements structures, structure members, and data types.

2.2.1 Structures

Structures are ordered collections of structure members.

They may contain fields and/or substructures as members, forming a structure tree. On the top level (the root of each structure tree) there is the main report structure.

Most structures are defined as a part of one report. Structures used in several reports are called common structures.

Naming conventions for structures are:

reportName	Main structure of a report
reportName***Grp	Sub structure of a report
reportName***KeyGrp	Sub structure of a report which contains key fields

2.2.2 Structure Members

A structure member is either a field or another (sub-)structure. A structure member may be enriched by attributes to define report specific properties.

Fields are defined by their data type and share the name of their data type. Substructures may occur once or multiple times in a structure. The name of a substructure member is equal to the substructure name.

Each field and structure occurs at a specific place in the sequence of fields in the substructure tree of a report. Substructure can represent an exception, in the sense that they can occur multiple times.

Structure members may be mandatory or optional. Optional members may be omitted in the XML report.

2.2.3 Data Types

Data types describe context-independent properties of a field, like its format and length. The format of a data type may be alphanumeric, numeric, or signed numeric.

These properties are independent of the report where a field of this data type occurs. Since a field in a structure must have the same name as its data type, this implies that two fields with the same name always have the same data type.

2.2.4 Rules for creating the XML Structure

2.2.4.1 Main Report Structure

The report XML structure is enclosed in the tag

<rptName>

    <rptHeader>

    ...

    </rptHeader>

    <rptNameGrp>

    ...

    </rptNameGrp>

</rptName>

2.2.4.2 Substructures

Substructures are written to

    <structureName>

    ...

    </structureName>

The structure members occur in the sequence as they are defined in the XML report layout. Optional members may be omitted, if they contain no data.

In case of a multiple occurrence, the <structureName> element is repeated.

2.2.4.3 Field Values

Field values are written as

    <fieldName>fieldValue</fieldName>

or, if no value is given for a mandatory field,

    <fieldName/>

Optional fields are omitted if no value is given.

Alphanumeric field values are written to the XML Report with their complete field length.

Examples:

    <instNam>DBO</instNam>

    <text>430-11172 </text>

Numeric values with precision 0 are written in the format DD…D without leading zeroes (D denotes a digit 0, 1, …, 9).

Example:

    <sumTrnLngQty>558</sumTrnLngQty>

Numeric values with precision > 0 are written in the format DD…D.D…D, where the number of trailing digits is given by the precision.

Example:

    <valPerTick>1.0000</valPerTick>

Signed numeric values are prefixed with a plus ('+') or minus ('-') sign.

Example:

    <sumPrmVmarAmnt>-88880.00</sumPrmVmarAmnt>

2.3 XML Report Characteristics

The XML report descriptions contain the following information:

Description
A textual description of the functional contents of the report.

Frequency
The frequency or the specific events at which the report is created.

Generation
How the Report is generated. Triggered by Timer or triggered manually by Market Supervision.

Availability
The group of members (e.g. clearing members, trading members) to which the report is available.

XML Report Structure
A description of the composition of groups and tags that are used with the XML report. Underlined items represent groups; the contained tags are identified by indent level. Additional information is provided on the cardinality of subgroups. Please refer to section 3.2 for a description of cardinalities.

M/O
A usage code to indicate whether a report tag is mandatory or optional.

2.4 XML Tag Characteristics

The characteristics of each tag are detailed giving the following information:

Description   A short description of the tag's functional meaning.

Format   Defines the format and size of the tag.

Format	Description	Example
alphanumeric n short name = AN	Text of maximal length n, stored as string.	A tag with format "alphanumeric 6" may contain the values "TRD001" or "ABC" or "".
Numeric n [.m] symbol = NUM	Number with n significant digits and, if given, precision m. The number is stored as a string containing the decimal point if applicable.	A tag with format "numeric 5, 2" might contain the values "314.15" or "3.14" or "0.00".
numeric signed n [.m] short name = NS	Signed number with n significant digits and, if given, precision m. The number is stored as a string prefixed with the "+" or "-" sign and containing the decimal point if applicable.	A tag with format "numeric signed 5, 2" may contain the values "+314.15", "+3.14", "-314.15" or "+0.00".
Date Format short name = DATE	Date, stored as a string in the format CCYY-MM-DD	A Date Format tag may contain the value "2005-03-28".
Time Format short name = TIME	Time, stored as a string in the format hh:mm:ss.cc Usually the database time format (UTC) is transferred into CET/CEST.	A Time Format tag may contain the value "23:59:59.99".

Table 1 - Tag Formats

Some tags have a predefined limited set of values they may contain:

Valid Values   Lists the valid values.

Value Description A short description of the value's functional meaning.

Reports   A reference to the XML reports which contain this tag in their structure.

2.5 Structure cardinality

Any substructure may be occur zero, one or multiple times in a structure.

The XML report descriptions contains a cardinality information for each structure in the form

> *structure*

or

> *structure*, repeated cardinality times:

Cardinality	Description
(none)	Substructure occurs exactly one time
m	Substructure occurs exactly m times
m … n	Substructure occurs minimal m, maximal n times
m … variable	Substructure occurs m to any number times

Table 2 - Structure Cardinality Descriptors

2.6 Usage Code

The XML report descriptions contain usage codes for each tag. These codes provide information on whether a tag is mandatory or optional. The table below lists all applicable usage codes and provides a description.

Usage Code	Explicit	Field Usage Description
m	mandatory	Tag occurs always if it's part of an existing structure (but may contain an empty string)
o	optional	Tag may be omitted

Table 3 - Field Usage Codes

3 Access to the Report Area

A market participant can subscribe to one or more daily reports, by logging into the system with his "Report-User-ID" at these URLs:

EPEX - Production	https://www.intraday-power-trading.com
EPEX - Simulation	https://simu.intraday-power-trading.com
EEX - Production	https://www.eex.comxerv.com
EEX - Simulation	https://simu.eex.comxerv.com
SouthPool -Production	https://www.southpool.comxerv.com/
SouthPool - Simulation	https://simu.southpool.comxerv.com/

Table 1: ComXerv URLs

3.1 Report Subscription for Members

After successful login as Report-User, a window titled 'Subscribe Reports' opens:

ID	Freq	Name	Subscribe
TC540	D	Gas - Daily Order Maintenance Report	☐
TC810	D	Gas - Daily Trade Confirmation Report	☐
TC820	D	Gas - Open Otc Maintenance Report	☐
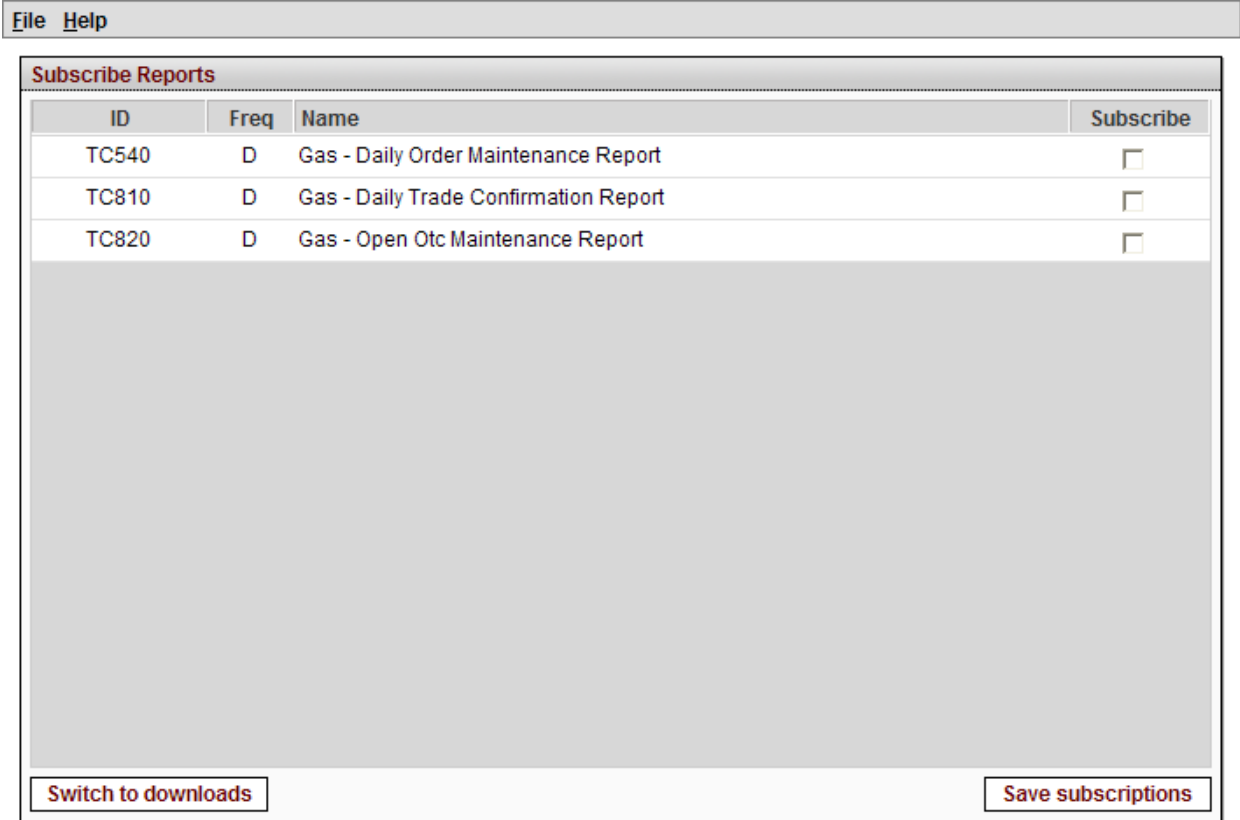
Figure 1: Subscribe Reports window (Example for EEX configuration)

All available report types are listed in this window. The main table includes the following columns:

- ID: Report ID
- Freq: Delivery Frequency (D: Daily)
- Name: The name of the report
- Subscribe: contains a checkbox to subscribe/unsubscribe a report type

The member can subscribe and unsubscribe report types by selecting / deselecting the respective report type checkbox (☑ / ☐) and confirm the settings by clicking Save subscriptions button.

Only subscribed reports are generated in the next report generation process and available for download.

3.2 Report Subscription for Market Supervision

While a Market Supervision Report User also has the functionality to subscribe, unsubscribe and download reports, all reports for Market Supervision are always generated (in every report generation process) and available for download.

3.3 Report Download

By clicking the 'Switch to Downloads' button on the Subscribe Reports window, a directory listing with reports available to download appears. All reports generated in the last five days are available for download. EOD (end-of-day) reports will not be available until the next day after subscription.

The columns can be sorted by clicking the column title.

Report download

Login Member: CXDBSA00

	Title	Size	Date
	Report-TC810-20120314-ADMIN.xml.zip	436 B	15-03-2012
	Report-TC540-20120314-ADMIN.xml.zip	436 B	15-03-2012
	Report-TC820-20120314-ADMIN.xml.zip	433 B	15-03-2012
	Report-TC810-20120313-ADMIN.xml.zip	435 B	14-03-2012
	Report-TC540-20120313-ADMIN.xml.zip	814 B	14-03-2012
	Report-TC820-20120313-ADMIN.xml.zip	432 B	14-03-2012
	Report-TC810-20120312-ADMIN.xml.zip	434 B	13-03-2012
	Report-TC540-20120312-ADMIN.xml.zip	436 B	13-03-2012
	Report-TC820-20120312-ADMIN.xml.zip	432 B	13-03-2012
	Report-TC810-20120311-ADMIN.xml.zip	434 B	12-03-2012
	Report-TC540-20120311-ADMIN.xml.zip	435 B	12-03-2012
	Report-TC820-20120311-ADMIN.xml.zip	432 B	12-03-2012
	Report-TC810-20120310-ADMIN.xml.zip	433 B	11-03-2012
	Report-TC540-20120310-ADMIN.xml.zip	435 B	11-03-2012
	Report-TC820-20120310-ADMIN.xml.zip	431 B	11-03-2012
	Report-TC820-20120309-ADMIN.xml.zip	433 B	10-03-2012
	Report-TC810-20120309-ADMIN.xml.zip	12 KB	10-03-2012
	Report-TC540-20120309-ADMIN.xml.zip	21 KB	10-03-2012
	Report-TC810-20120308-ADMIN.xml.zip	435 B	09-03-2012
	Report-TC540-20120308-ADMIN.xml.zip	727 B	09-03-2012
	Report-TC820-20120308-ADMIN.xml.zip	432 B	09-03-2012
	Title	Size	Date

© Deutsche Börse

Figure 2: Report Directory (Example for EPEX configuration)

The respective report can be downloaded by clicking the link in the column "Title".

4 ComXerv Report Definitions

4.1 Trading Day

A *Trading Day* is defined as a daily period in which continuous trading is performed. While for 24/7-trading[1], a trading day always starts and ends at 00:00 hours, the ComXerv service also provides the possibility to support a start- and end-time other than 00:00 hours.

4.2 EOD Report Generation

End of day reports are used to display data for generated trades and bid or order maintenance during the last **Trading Day**. They are generated automatically each day at a configured time (can be configured on instance level, see section *4.3.2 Trading Period* for an overview of Trading Day configurations per client).

4.3 Configuration per Exchange

4.3.1 Report Availability

Report Code / Name	Type[2]	Configuration		
		EPEX	EEX	SouthPool
TC540 Daily Order Maintenance	EOD	Member + MS	Member + MS	Member + MS
TC810 Daily Trade Confirmation	EOD	Member + MS	Member + MS	Member + MS
TC820 Daily Open OTC Maintenance	EOD	Member + MS	Member + MS	Member + MS

Table 2: Report Availability per Configuration

4.3.2 Trading Period

Trading Period	Configuration		
	EPEX	EEX	SouthPool
Trading Day	00:00 – 23:59 24/7 - Trading	00:00 – 23:59 24/7 - Trading	00:00 – 23:59 24/7 - Trading

Table 3: Trading Period per Configuration

4.3.3 Report Generation Times

The time of report generation depends on the report type and the specific configuration per ComXerv instance. While EOD (End of Day) reports are generated once a day at a preconfigured time, the generation of ETR (Event Triggered Reports) must be triggered manually by a Market Operations user.

As the report generation timer is based on UTC (Coordinated Universal Time), the exact time of report generation differs between CET and CEST. Current generation times per configuration are (can be changed per configuration):

---

[1] 24/7 = Trading is possible around the clock and on each day of the week
[2] EOD = End of Day Report, ETR = Event Triggered Report

EOD Generation Time	Configuration		
	UTC	CET	CEST
EPEX	02:28:10	03:28:10	04:28:10
EEX	00:28:10	01:28:10	02:28:10
SouthPool	03:28:10	04:28:10	05:28:10

Table 4: EOD Report Generation Times

5 XML Report Descriptions

5.1 TC540 Daily Order Maintenance

Description	This report gives for each member a list of all orders which have been modified during the trading day in continuous trading.
	For each member this report, arranged by traders, currency and contracts, lists all the measures taken for the maintenance of CT orders during the trading day.
Frequency	Daily
Generation	EOD / Triggered by timer
Availability	All Members + Market Operations

5.1.1 TC540 Selection Criteria and Target Group

The report is generated member specific as well as for market supervision. The latter receives the report as an aggregation of all generated member reports.

5.1.2 TC540 Structural Logic

For each member, a <tc540Grp> contains all orders that have been modified by it's users. Inside this group tag, the orders are sorted by combinations of the User Code and ISIN Code that each order was entered for. Each of these combinations is defined by a <tc540Grp1>. Finally, inside each of these group tags, the orders are contained inside the <tc540Rec>, while each maintenance action performed on an order is listed in an individual record. All <tc540Rec> inside a <tc540Grp1> appear in chronological order (earliest first).

The report does not necessarily contain the complete lifecycle of an order, as it lists only the maintenance actions for one business day, which is displayed in the tag <rptPrntEffDat>.

5.1.3 TC540 Example

Member A has two Traders called Trader I and Trader II. Trader I performed two maintenance actions on an order for power contract X and Trader II performed one maintenance action on an order for the same contract X and two maintenance action on an order for contract Y. Some of the orders have been *entered* the day before. However, the TC540 only contains the actions that were performed on them on the current business day. The resulting Report structure is:

```
<tc540Grp>                  For Member A
    <tc540Grp1>             Trader I, contract X
        <tc540Rec>          Action 1
        <tc540Rec>          Action 2
    <tc540Grp1>             Trader II, contract X
        <tc540Rec>          Action 1
    <tc540Grp1>             Trader II, contract Y
        <tc540Rec>          Action 1
        <tc540Rec>          Action 2
```

5.1.4 TC540 XML Report Structure

XML Tag	Type	m/o	No.	Condition optional tag is created if..
tc540	Structure	m	1	
rptHdr	Structure	m	1	
exchNam	Data	m		
envText	Data	m		
rptCod	Data	m		
rptNam	Data	m		
rptPrntEffDat	Data	m		
rptPrntRunDat	Data	m		
tc540Grp	Structure	o	0…n	an order was modified on <rptPrntEffDat>
tc540KeyGrp	Structure	m		
membExcIdCod	Data	m		
tc540Grp1	Structure	m	1..n	
tc540KeyGrp1	Structure	m		
partIdCod	Data	m		
instTitl	Structure	m	1	
isinCod	Data	m		
currTypCod	Data	m		
product	Data	m		
tc540Rec	Structure	m	1..n	
tranTim	Data	m		
mktArea	Data	m		
tso	Data	m		
balGrp	Data	m		
entTim	Data	m		
actnCod	Data	m		
ordrNo	Data	m		
ordrBuyCod	Data	m		
acctTypCodGrp	Data	m		
ordrQty	Data	m		
peakSizeQty	Data	o		<ordrTypCod> is "I" (Iceberg order)
totalRemQty	Data	o		<ordrTypCod> is "I" (Iceberg order)
ordrTypCod	Data	m		
ordrExePrc	Data	m		
tradMtchPrc	Data	o		<actnCod> is either: "M" or "P"
ordrResCode	Data	o		<ordrResCode> is either: "AON" , "FOK" or "IOC"
ordrValCode	Data	m		
valDat	Data	o		<ordrValCode> is "GTD"
text	Data	o		the <text> field is not empty
membExcIdCodOboMs	Data	o		the maintenance step was performed by Market Supervision on behalf of a Trader
partIdCodOboMs	Data	o		the maintenance step was performed by Market Supervision on behalf of a Trader
listID	Data	o		the order is part of a basket
listExecInst	Data	o		the order is part of a basket
ordrInitialNo	Data	m		
ordrParentNo	Data	o		the order has been modified which lead to a new order with new order number

5.2 TC810 Daily Trade Confirmation

Description	This report contains an inventory of all trades of a member. For the trading period (day) the report shows all unmodified, modified, reversed, cancelled, matched trades and approved OTC trades in continuous trading.
Frequency	Daily.
Generation	EOD / Triggered by timer
Availability	All Members + Market Operations

5.2.1 TC810 Selection Criteria and Target Group

This report could be created member specific as well as for market supervision. The latter receives the report with the trades of all members.

This report shows the trades of the last closed trading period (day) in continuous trading.

5.2.2 TC810 Structural Logic

Each <tc810Grp> contains all trades for a member/contract combination. Inside this group tag, the trades are organized by traders into different <tc810Grp1>. Inside this structure, the trades themselves are listed in the last hierarchy level, each in a separate <tc810Rec>.

In general, all trades, identified by their tranIdNo, are only present once. The only exception are recalled trades, which can be identified by the value 'R' in the field <tranTypCod> and cancelled trades which can be identified by the value 'C' in the field <tranTypCod>.

5.2.3 TC810 Example

Member **A** has two traders, trader **1** and **2**. For delivery hour **x**, trader 1 has one trade, for delivery hour **y**, trader **1** and trader **2** each have one trade.

The resulting Report structure would look like this (key groups are not displayed here):

```
<tc810>
    <tc810Grp>                      MEMBER A, Delivery hour X
        <tc810Grp1>                 Trader 1
            <tc810Rec>              Trade 1 of Trader 1
    <tc810Grp>                      MEMBER A, Delivery hour Y
        <tc810Grp1>                 Trader 1
            <tc810Rec>              Trade 2 of Trader 1
        <tc810Grp1>                 Trader 2
            <tc810Rec>              Trade 1 of Trader 2
```

5.2.4 TC810 XML Report Structure

XML Tag	Type	m/o	No.	Condition optional tag is created if..
tc810	Structure	m	1	
rptHdr	Structure	m	1	
exchNam	Data	m		
envText	Data	m		
rptCod	Data	m		
rptNam	Data	m		
rptPrntEffDat	Data	m		
rptPrntRunDat	Data	m		
tc810Grp	Structure	o	0…n	there was one trade, trade cancellation or granted trade recall on <rptPrntEffDat>
tc810KeyGrp	Structure	m		
membExcIdCod	Data	m		
membClgIdCod	Data	m		
stlIdAct	Data	m		
stlIdLoc	Data	m		
instTitl	Structure	m	1	
isinCod	Data	m		
cntcUnt	Data	m		
product	Data	m		
tc810Grp1	Structure	m	1	
tc810KeyGrp1	Structure	m	1	
partIdCod	Data	m		
tc810Rec	Structure	m	1..n	
mktArea	Data	m		
tso	Data	m		
balGrp	Data	m		
tranTim	Data	m		
tranIdNo	Data	m		
tranIdSfxNo	Data	m		
tranTypCod	Data	m		
typOrig	Data	m		
ordrNo	Data	m		
acctTypCodGrp	Data	m		
ordrBuyCod	Data	m		
tradMtchQty	Data	m		
tradMtchPrc	Data	m		
stlDate	Data	m		
feeAmt	Data	m		
feesCurrTypCod	Data	m		
membCtpyIdCod	Data	m		
text	Data	o		the text field is not empty
membExcIdCodOboMs	Data	o		the trade was modified by Market Supervision
partIdCodOboMs	Data	o		the trade was modified by Market Supervision
sumPartTotBuyOrdr	Data	m		
sumPartTotSellOrdr	Data	m		
sumMembTotBuyOrdr	Data	m		
sumMembTotSellOrdr	Data	m		

5.3 TC820 Daily Open OTC Maintenance

Description	This report gives for each member a list of all OTC orders which have been modified during the trading day. For each member, this report is arranged by traders and contracts and lists all the measures taken for the maintenance of OTC orders during the trading day.
Frequency	Daily.
Generation	EOD / Triggered by timer
Availability	All Members + Market Operations

5.3.1 TC820 Selection Criteria and Target Group

This report can be created member specific as well as for market supervision. The latter receives the report with the OTC orders for all members.

This report shows all maintenance actions for OTC orders of the last closed trading period (day) in continuous trading.

5.3.2 TC820 Structural Logic

For each member, a <tc820Grp> contains all open OTC orders that have been modified by it's users. Inside this group tag, the orders are separated by the User Code, where the orders of each individual User are listed in an extra <tc820Grp1>. Inside this group, the orders for one trader but different contracts as listed in separate <tc820Grp2> tags.

Finally, inside each of these tags, the orders are listed inside the <tc820Rec>, while each maintenance action performed on an order is listed in an individual record.

The report does not necessarily contain the complete lifecycle of an OTC order, as it lists only the maintenance actions for one business day, which is displayed in the tag <rptPrntEffDat>.

5.3.3 TC820 Example

Member A has two Traders called Trader I and Trader II. Trader I performed two maintenance actions on an OTC order for power contract X and Trader II performed one maintenance action on an order for the same contract X and two maintenance action on an order for contract Y. Some of the orders have been *entered* the day before. However, the TC820 only contains the actions that were performed on them on the current business day.

The resulting Report structure would look like this:

```
<tc820Grp>                      Member A
    <tc820Grp1>                 Trader I
        <tc820Grp2>             Contract X
            <tc820Rec>          Action 1
            <tc820Rec>          Action 2
    <tc820Grp1>                 Trader II
        <tc820Grp2>             Contract X
            <tc820Rec>          Action 1
        <tc820Grp2>             Contract Y
            <tc820Rec>          Action 1
            <tc820Rec>          Action 2
```

5.3.4 TC820 XML Report Structure

XML Tag	Type	m/o	No.	Condition optional tag is created if..
tc820	Structure	m	1	
rptHdr	Structure	m	1	
exchNam	Data	m		
envText	Data	m		
rptCod	Data	m		
rptNam	Data	m		
rptPrntEffDat	Data	m		
rptPrntRunDat	Data	m		
tc820Grp	Structure	o	0...n	any order was modified on 'rptPrntEffDat'
tc820KeyGrp	Structure	m		
membExcIdCod	Data	m		
tc820Grp1	Structure	m	1..n	
tc820KeyGrp1	Structure	m	1	
partIdCod	Data	m		
tc820Grp2	Structure		1..n	
tc820KeyGrp2	Structure		1	
instTitl	Structure		1	
isinCod	Data	m		
product	Data	m		
tc820Rec	Structure		1..n	
mktArea	Data	m		
tso	Data	m		
balGrp	Data	m		
tranTim	Data	m		
tranTypCod	Data	m		
otcTrdTim	Data	o		
tranIdNo	Data	o		
ordrBuyCod	Data	m		
acctTypCodGrp	Data	m		
ordrQty	Data	m		
ordrExePrc	Data	m		
ordrValCode	Data	m		
valDat	Data	o		<ordrValCode> is "GTD"
ctpyMembPartIdCod	Structure		1	
membExcIdCod	Data	m		
mktArea	Data	m		
balGrp	Data	m		
stlDate	Data	m		
setlmCod1	Data	m		
text	Data	o		the text field is not empty
membExcIdCodOboMs	Data	o		the maintenance step was performed by Market Supervision on behalf of a Trader
partIdCodOboMs	Data	o		the maintenance step was performed by Market Supervision on behalf of a Trader

6 XML Report Tag Descriptions

Field Name	Description	Format	Valid Values	Value Description	Reports
acctTypCodGrp	Account Type Group	AN 2	A1 P1		TC540 TC810 TC820
actnCod	The Action Code of a maintenance step for an order or bid	AN 1	A	Add (also used when activating an order)	TC540
			C	Change	
			D	Delete	
			H	Hibernation (Deactivation)	
			I	Insertion of new slice (Iceberg order)	
			M	Full Match	
			P	Partial Match	
			X	System Deletion (Order Expiration)	
balGrp	The Balancing Group/Member Code, for which an order was entered (Balancing Group for Power, Member Code for GAS).	AN 16	**EPEX + SouthPool**		TC540 TC810 TC820
			Any **Balancing** Group		
			EEX		
			Any Member Code		
cntcUnt	Contract Unit. Contains the number of traded contract units. **Note:** The cntcUnt varies for a Gas Within-Day contract (is gradually reduced).	NUM	**Example:** **'24'** - A Base contract for Power usually contains 24 contract units. **'1'** – Fix value for all EUA/EUAA contracts		TC810
currTypCod	Currency Type Code	AN 3	EUR	Euro	TC540
entTim	The entry time of an order. If the price/time mechanism of an order is modified, it is deleted and a new one (with a new order entry time) entered in it's stead.	TIME	any time		TC540
envText	The technical environment where the report was generated	AN 1	D	Development	TC540 TC810 TC820
			A	Acceptance	
			S	Simulation	
			P	Production	
exchNam	The Exchange Name this report was created for	AN 4	**EPEX**		TC540 TC810 TC820
			Always "EPEX"		
			EEX		
			Always "XEEE"		
			SouthPool		
			Always "BSPS"		
feeAmt	The fee amount	NUM	always '0'		TC810
feesCurrTypCod	The currency of the fee	AN 3	always 'EUR'		TC810
isinCod	Identifier of a contract	AN 31	**EPEX / SouthPool**		TC540 TC810 TC820
			YYYYMMDD HH:MM-YYYYMMDD HH:MM	Start and end-time of a power contract.	
			EEX (fix values in *italic*)		
			YYYYMMDD [Weekday 3 chrs] *1 MW*	DAY_1_MW	
			YYYYMMDD [Weekday 3 chrs]	DAY	
			YYYYMMDD *WND 1 MW*	WEEKEND_1_MW	
			YYYYMMDD *WND*	WEEKEND	
			YYYYMMDD *WID*	WITHIN-DAY	

Field Name	Description	Format	Valid Values	Value Description	Reports
			EUA 2008-2012	EUA with delivery 2008-2012	
			EUA 2013-2020	EUA with delivery 2013-2020	
			EUAA 2012	EUAA with delivery 2012	
			EUAA 2013-2020	EUAA with delivery 2013-2020	
listExecInst	The execution instruction of a basket order.	AN 6	NONE	No execution instruction	TC540
			LINKED	All orders of the basket or none are executed.	
			VALID	All orders of the basket must be valid or all are rejected.	
listID	The basked ID of a basket order.	NUM	a valid basked ID		TC540
mktArea	Market Area	AN 6	EPEX		TC540 TC810 TC820
			DE	Germany	
			FR	France	
			AT	Austria	
			CH	Switzerland	
			EEX		
			TTF	Title Transfer Facility	
			NCG	NetConnect Germany	
			GASPOOL	GASPOOL	
			EU-MA	EU	
			SouthPool		
			MA-SLO	Slovenia	
membClgIdCod	The member id of the clearing member	AN 5	EPEX + EEX		TC810
			ECCEX	European Commodity Clearing	
			SouthPool		
			BSPSX	SouthPool	
membCtpyIdCod	The member ID of a trade's counterparty	AN 5	a valid member ID		TC810
membExcIdCod	The member ID	AN 5	a valid member ID		TC540 TC810 TC820
membExcIdCodOboMs	The member ID of the market supervision User who performed an on behalf action	AN 5	a valid member ID (MS-Member)		TC540 TC810
ordrBuyCod	The order buy code, which indicates a buy or sell order	AN 1	B S	BUY SELL	TC540 TC810 TC820
ordrExePrc	**TC540:** The limit price an order was entered with. **TC820:** The limit price and execution price of the OTC order (OTC orders are always matched at the initial limit price).	AN 13,2			TC540 TC820
ordrInitialNo	The ordrInitialNo always equals the orderNo that was assigned to an order when it was entered for the very first time. When an order is modified, the orderNo might change, but the ordrInitialNo always remains the same.	NUM 13			TC540

Field Name	Description	Format	Valid Values	Value Description	Reports
ordrNo	The order number	NUM 13			TC540 TC810
ordrParentNo	This optional field is only displayed for maintenance steps which lead to a new orderNo. In this case, the field ordrParentNo contains the ordrNo of the previously modified order. Example: An order with the orderNo "100" is modified which leads to the new orderNo "101". The TC540Rec for this maintenance step will contain the field ordrNo with the value "101" and the field "ordrParentNo with the value "100". Once a ordrParentNo is featured, the field will be filled for every subsequent change of the order.	NUM 13			TC540
ordrQty	The order quantity in MW. After a trade, the quantity is reduced by the amount traded away in the last trade until an order is fully matched (quantity = 0,0). For Iceberg orders it is the current exposed quantity (current size of active slice).	NUM 16,1			TC540 TC820
ordrResCod	The order restriction code for an intraday order	AN 1	A	**AON**: All Or Nothing	TC540
			I	**IOC:** Immediate or Cancel	
			F	**FOK:** Fill or Kill	
ordrTypCod	The order type code	AN 1	L - Limit Order I - Iceberg Order B - Balancing Order		TC540
otcTrdTim	The OTC trade time, when the OTC order was accepted by the counterparty	TIME	any time		TC820
ordrValCode	The Validity Restriction of an Order.		GFS	**G**ood **F**or **S**ession	TC540 TC820
			GTD	**G**ood **T**ill **D**ate	
			NON	None, if Execution Restriction is "IOC" or "FOK".	
partIdCod	The trader id	AN 6	a valid User ID		TC540 TC810 TC820
partIdCodOboMs	The trader ID of the market supervision User who performed an on behalf action	An 6	a valid User ID (MS-User)		TC540 TC810 TC820
peakSizeQty	The peak size quantity of an Iceberg Order in MW.	NUM 16,1			TC540
product	Contains the product of a contract.	AN 32	EPEX		TC540 TC810 TC820
			Continuous_Power_Base Continuous_Power_Peak Intraday_Power Quarterly_Hour_Power		
			EEX		

Field Name	Description	Format	Valid Values	Value Description	Reports
			DAY 1 MW DAY WEEKEND 1 MW WEEKEND WITHIN-DAY EUA EUAA		
			Southpool		
			Continuous_Power_Base Continuous_Power_Peak Intraday_Power Quarterly_Hour_Power		
rptCod	The naming code of an XML Report	AN 5	Can only be: TC540, TC810, TC820		TC540 TC810 TC820
rptNam	The XML Report name	AN 53	a valid report long name		TC540 TC810 TC820
rptPrntEffDat	The 'print effective date' of an XML report. All data in the report is referring to this business day.	DATE	any date		TC540 TC810 TC820
rptPrntRunDat	The 'run date' of an XML report. This is the day when the report was created.	DATE	any date		TC540 TC810 TC820
setImCod1	The settlement code	AN 3	always 'DVP'		TC820
stlDate	The settlement date, which is defined by the delivery start-date of the power contract.	DATE	any date		TC810 TC820
stlIdAct	settlement id account	AN 4	always "0000"		TC810
stlIdLoc	The settlement location ID	AN 2	**EPEX + EEX**		TC810
			ECC	European Commodity Clearing	
			Southpool		
			SP	Southpool	
sumMembTotBuyOrdr	The total quantity bought by a member in MW.	NUM 15,1			TC810
sumMembTotSellOrdr	The total quantity sold by a member in MW.	NUM 15,1			TC810
sumPartTotBuyOrdr	The total quantity bought by a trader in MW.	NUM 15,1			TC810
sumPartTotSellOrdr	The total quantity sold by a trader in MW.	NUM 15,1			TC810
text	The text entered in the text field of an order or bid	AN 250	any text		TC540 TC810 TC820
totalRemQty	The total remaining quantity of an Iceberg Order in MW.	NUM 16,1			TC540
tradMtchPrc	The trade match price. This is the price at which a trade was executed.	AN 13,2			TC540 TC810
tradMtchQty	The trade match quantity, which is (in MWh) the quantity traded	NS 15,1			TC810
tranIdNo	**TC810:** Unique identifier of a trade per day (Trade ID) **TC820:** Order ID of an OTC order	NUM			TC810 TC820

Field Name	Description	Format	Valid Values	Value Description	Reports
tranIdSfxNo	The transaction id suffix number	NUM	is usually '0', only changes when a trade is recalled		TC810
tranTim	The transaction time. It displays the exact time when a maintenance action or trade modification happened.	TIME	any time		TC540 TC810 TC820
tranTypCod	The transaction type code indicates the action performed on an order or trade.

In the **TC810** report, the tranTypCod describes trade actions.
In the **TC820** report, the tranTypCod describes OTC order maintenance actions. | AN 1 | **TC810** | | TC810 TC820 |
			" "	Regular trade execution	
			"R"	Reversed trade	
			"C"	Cancelled Trade	
			TC820		
			"A"	ADD	
			"C"	CHANGE	
			"D"	DELETE	
			"M"	MATCH	
tso	The short name of a Delivery Area (TSO for Power, VTP for GAS)	AN 4	**EPEX**		TC540 TC810 TC820
			EnBW	Energie Baden-Württemberg AG	
			RWE	RWE	
			EON	EON	
			VE	Vattenfall	
			RTE	Réseau de Transport d'Electricité	
			APG	Austrian Power Grid.	
			SGD	SwissGrid	
			EEX		
			TTF	Title Transfer Facility	
			NCG	NetConnect Germany	
			GASPOOL	GASPOOL	
			EU	EU	
			Southpool		
			SLO	Slovenia	
typOrig	The original type, which distinguishes between a regular intraday trade and a pre-arranged OTC trade.	AN 1	" "	Matched Trade	TC810
			"O"	OTC Trade	
valDat	If the Validity Restriction ("ValRes") of an order is GTD, the field valDat will contain the data/time when an order will be deleted.	DATE	Format is: "YYYY-MM-DD hh:mm"		TC540 TC820

* **Abbreviations:** AN = Alphanumeric , NS = Numeric Signed, NUM = Numeric, DATE = YYYY-MM-DD,

TIME = hh:mm:ss.msmsms