

DFS190 - M7 - XML Reports

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1 Abstract

This document contains a functional description of the XML reports generated by the Reporting Engine module of the M7 Trading system. This includes report subscription, report generation, report structure, available report types and their contents. It requires a familiarity with the XML standard, as defined by the World Wide Web Consortium (W3C, see <https://www.w3.org/XML> for more information).

Note: Data contained in graphics and examples are for illustrative purposes only.

2 Introduction

2.1 General

The M7 Trading Module enables the trading of energy products and commodity derivatives between different market areas.

All trading related activities, like order entry, order modification or the generation of trades, are documented in XML reports which are generated based on data from the M7 Trading Module and can be downloaded via the WebGUI.

The reports generated by the Reporting Engine module are available to both report users who can belong to a non-Admin member and to market operations (Admin members).

3 XML Report Layout

3.1 General

The XML report layout consists of the basic elements: structures and data fields, whilst each XML element occurs in a sequence defined by the main report structure.

3.2 Structure Elements

Structures are ordered collections of structure members (see [Structure Members](#)) and may contain data fields and/or other structure elements (substructures).

3.3 Structure Members

A structure member is either a data field or another structure element. A structure member may be enriched by attributes to define report specific properties.

Data fields are elements which contain data as defined by their data type (see [Data Types](#)).

Substructures may occur zero, once or multiple times inside a structure (see [Structure Cardinality](#)).

All elements may be mandatory or optional (see [Usage Code](#)). Optional elements may be omitted in the XML report.

3.4 Data Types

The following data types are used in the description of each report generated by

- the Reporting Engine module:

Format	Example	Note
Char(<i>n</i>)	"TRD001" or "ABC" or ""	Maximum length <i>n</i>
Integer	"1111"	
Long	"111111111111111111"	
Decimal	"11.11"	
Date	"2015-03-28"	Format hh:mm:ss.ccc All times contain the UTC offset.
Time	"23:59:59.999+02:00"	Format YYYY-MM-DD, unless it is specified otherwise
DateTime	"2015-03-28 10:40:11.102+02:00"	Format YYYY-MM-DD 10:40:32+02:00, unless it is specified otherwise. All times contain the UTC offset.

- the Reporter module:

Format	Example	Note
Char(<i>n</i>)	"TRD001" or "ABC" or ""	Maximal length <i>n</i>

Format	Example	Note
Integer	"1111"	
Long	"111111111111111111"	An integer number between -9223372036854775808 and 9223372036854775807, unless it is specified otherwise.
Decimal	"11.11"	
DateTime	"2021-03-15T10:40:11Z"	Format YYYY-MM-DDThh:mm:ssZ, unless it is specified otherwise. All date times are in the UTC time.
Boolean	"false"	

For further details on the data types used by the Reporter module please see <https://www.w3.org/TR/xmlschema-2/>.

3.5 Structure Cardinality

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

The XML report structure descriptions in this document contain the cardinality information in the column "No.", which can contain the following values:

Value	Description
0..1	Substructure occurs exactly one time or not at all
1	Substructure occurs exactly one time
0..n	Substructure does not occur, occurs at least one time, and a maximum of n times
1..n	Substructure occurs at least one time, and a maximum of n times

3.6 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	The tag occurs always if it is part of an existing structure (but may contain an empty string)
o	optional	The tag may be omitted

3.7 Basic Structure

3.7.1 Structure of Reports Generated by the Reporting Engine

The basic structure of each report is:

1. All content is enclosed by a tag with the report name code

```
<rptName>
```

2. Each report contains a header enclosed in the header tag

```
<rptHeader>
```

3. After the header, the main report data is enclosed by the tag

```
<rptNameGrp>
```

4. The report structure then looks as follows

```
<rptName>
  <rptHeader>
    <!-- header content -->
  </rptHeader>
  <rptNameGrp>
    <!-- data content -->
  </rptNameGrp>
</rptName>
```

4 Report Subscription and Download

In the WebGUI of the M7 Trading Module, a report user can manage the subscriptions to the XML reports and download the generated subscribed reports.

After logging into the WebGUI, a window with the following sections is displayed:

Subscribe Reports. The window refers to the reports generated by the Reporting Engine,

Download Reports.

4.1 Subscription

In the "Subscribe Reports" section, a report user can subscribe to one or more daily reports.

The subscription area of the report page contains a table with the following columns:

- **ID** An identification code for each report type.
- **Freq** Indicates the generation frequency of each report. All reports are generated daily which is indicated by the value "D".
- **Name** The report name.
- **Subscribe** The checkbox to subscribe/unsubscribe a report.

The report user can subscribe and unsubscribe to report types by selecting/deselecting the respective report type checkbox (☒ / ☐) and by confirming the settings by clicking the button labelled "Save subscriptions". With the button "Reload" it is possible to retrieve the current state of subscriptions in the database without necessity of logging out and in the WebGUI.

For each exchange, the system operator can configure that the same or a different set of report types will be available for subscription by the market operations report users and non-Admin report users. A later change to the configured set would require a downtime.

The changes in the subscriptions made by the report user come into effect with the next report generation run and apply to the whole member. In case of a Broker report user, one report is generated for each selected report type which contain both broker's own trading actions as well as actions performed on behalf of other traders.

4.2 Download

Already generated reports that are ready for download are listed in the bottom section in a table labeled "Download Reports". Each report remains in the download area for 6 trading days after its generation, meaning the report user can download the reports for the last 6 trading days.

The number of days available in the "Download Reports" is configurable by the system operator. The change would require a downtime of the Reporting Engine module. The request would also need to be first assessed by DBAG, because the number of days may be limited by the file system where the reports are stored.

With the button "Reload" it is possible to refresh the list of all generated reports available for download.

The “Download Reports” table contains the following columns:

- **ID** An identification code for each report type.
- **Size** Size of the report file.
- **Date** Creation date of the report.
- **Filename** Filename of the report.

5 Report Generation

5.1 Trading Day

While contracts in M7 are traded based on the product time zone, reports generated by the Reporting Engine module use the market time zone (i.e. CET/CEST) and the market trading day configuration (00:00:00 CET/CEST - 23:59:59 CET/CEST on the same calendar day).

The M7 system supports 24/7 trading, i.e. trading around the clock and on each day of the week.

5.2 Report Generation by the Reporting Engine

The reports generated by the Reporting Engine module are used to display data for the generated trades and bids, or order maintenance during the last (full) trading day. They are automatically generated once a day at the preconfigured time. The time is configured by DBAG at the exchange level and applies to all report types generated by this module.

Since the report generation timer is based on UTC (Coordinated Universal Time), the actual time of report generation will differ in Central European Summer Time (CEST) and during Central European Time (CET). During CEST, the reports will be generated one hour later in comparison to CET. In other words, the reports with the generation time configured to hh:mm:ss (UTC) will be generated at (hh+1):mm:ss during CET and at (hh+2):mm:ss during CEST.

Example: Assuming the configured report generation time is 3:00 am UTC, in May the reports will be generated at 5:00 am whereas in November at 4:00 am.

For market operations report users, the reports are generated regardless of the user status. The appropriate <Login ID> will appear in the file name when an ADMIN report user is available; in case of multiple report users, the reports will be named based on the first active user found by the system. If there is no report user at the time of the report generation, the file name will contain the string "UNKNOWN" instead of <Login ID>. The existing reports will not be renamed after an ADMIN report user is available.

For a non-Admin report user, the reports for the trading day t are only generated if both the report member and the appropriate report user were active at the time of the generation on $t-1$.

Note: The reports can be generated the second time for the same trading day or retrospectively only with the assistance of DBAG and upon request of the customer. In case a report for the same trading days is generated again, the first one will be renamed to ~.bak and will not be available for direct download.

6 XML Report Descriptions

The following chapter describes the content of reports and their structure including information contained in the individual attributes.

6.1 TC540 Daily Order Maintenance

Description	<p>The report contains a list of order maintenance actions which have been performed on the member's orders during the observed period.</p> <p>An order maintenance action is reported if:</p> <ul style="list-style-type: none">- It has been executed during the trading day stated in the tag <rprtPrntEffDat>, AND- It has been executed by the M7 instance (local and linked products) <p>For a report user belonging to a Regular member, the report is arranged by traders and contracts and lists the actions taken for the maintenance of orders during the trading day.</p> <p>For a market operations report user, the report is an aggregation of the order data of all members, arranged by the member code and then as described above.</p> <p>For a report user belonging to a Broker member, the report contains the broker's order maintenance actions performed on behalf of other members, and, in case of own trading, also such actions performed by the broker's own member. The report is arranged in the same way as for the market operations.</p>
Frequency	Daily
Generation	Triggered by timer
Availability	Report user of a non-Admin member + market operations report user

6.1.1 TC540 Selection Criteria and Target Group

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

6.1.2 TC540 Structural Logic

For each member, a <tc540Grp> contains the orders that have been modified by the member's users. Inside this group tag, the orders are sorted by a combination of the user code and contract. Each such combination is defined by a <tc540Grp1>. Finally, within this group tag, each maintenance action is listed individually inside a <tc540Rec> tag (please see guidance on the reported maintenance actions in [TC540 Daily Order Maintenance](#)). All <tc540Rec> inside a <tc540Grp1> appear in

chronological order (earliest first). To ensure such ordering, the actions are ordered by their revision.

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

In the report for the market operations, a member will appear if and only if at least one of its users performed an order maintenance action (or the action was performed on behalf) during the last (full) trading day. In this regard, the status in which the (trading) member or its user is at the time of the report generation is irrelevant.

6.1.3 TC540 Example

Member A has two traders called Trader I and Trader II. Trader I performed two maintenance actions on an order for contract X and trader II performed one maintenance action on an order for the same contract X and two maintenance actions 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 the orders on the trading day stated in the “rptPrntEffDat” field. The resulting report structure is:

```
<tc540Grp>          <!-- contains all actions for Member A -->
  <tc540Grp1>        <!-- contains the actions of Trader I for contract X -->
    <tc540Rec>        <!-- the first action of Trader I on contract X -->
    <tc540Rec>        <!-- the second action of Trader I on contract X -->
  <tc540Grp1>        <!-- contains the actions of Trader II for contract X -->
    <tc540Rec>        <!-- an action of Trader II on contract X -->
  <tc540Grp1>        <!-- contains the actions of Trader II for contract Y -->
    <tc540Rec>        <!-- the first action of Trader II on contract Y -->
    <tc540Rec>        <!-- the second action of Trader II on contract Y -->
```

6.1.4 TC540 Structure

XML Tag		Type	m/o	No.	Data Type	Short description
tc540		SE	m	1	Structure	TC540 Daily Order Maintenance
	rptHdr	SE	m	1	Structure	
	exchNam	CE	m	1	Char(6)	The name of the exchange the report was created for.
	envText	CE	m	1	Char(1)	The technical environment where the report was generated. Valid values: D: Development A: Acceptance S: Simulation P: Production
	rptCod	CE	m	1	Char(5)	The naming code of the XML report. Valid values: TC540 TC810 TC820 TC840

XML Tag			Type	m/o	No.	Data Type	Short description
		rptNam	CE	m	1	Char(53)	The XML report name
		rptFlexKey	CE	o	0..1	Char(14)	DEPRECATED This field contains the Report Flexible Key.
		mbrld	CE	o	0..1	Char(5)	This field contains the Member Identifier.
		membLglNam	CE	o	0..1	Char(40)	The market area. Valid values: A valid market area (short name)
		rptPrntEffDat	CE	m	1	Date	The print effective date of the XML report. All data in the report refers to this trading day.
		rptPrntEffTim	CE	o	0..1	Time	DEPRECATED This field contains the effective time of the printed report.
		rptPrntRunDat	CE	m	1	Date	The run date of the XML report. This is the day when the report was created.
tc540Grp			SE	o	0..n	Structure	
		tc540KeyGrp	SE	m	1	Structure	
		membExclCod	CE	m	1	Char(5)	The "Member ID" of the latest order owner.
		tc540Grp1	SE	m	1..n	Structure	Conditions: present only if an order was modified on <i>rptPrntEffDat</i>
		tc540KeyGrp1	SE	m	1	Structure	
		partIdCod	CE	m	1	Char(6)	The "User Code" of the latest order owner.
		instTitl	SE	m	1	Structure	
		instMnem	CE	o	0..1	Char(5)	DEPRECATED This field contains the instrument mnemonic.
		instNam	CE	o	0..1	Char(30)	DEPRECATED This field contains the instrument long name.
		wknNo	CE	o	0..1	Char(9)	This field contains the WKN number
		isinCod	CE	m	1	Char(128)	The contract identifier. It is the long name of the contract.
		currTypCod	CE	m	1	Char(3)	Currency Type Code contains the currency in which the product is traded. Valid values: A valid ISO code
		product	CE	m	1	Char(32)	The name of the product.
tc540Rec			SE	m	1..n	Structure	

XML Tag					Type	m/o	No.	Data Type	Short description
				tranTim	CE	m	1	Time	The transaction timestamp. For local orders, the exact time when the maintenance action, trade execution or modification was performed. Valid values: Any time in the format hh:mm:ss:ccc.
				mktArea	CE	m	1	Char(8)	The market area. Valid values: A valid market area (short name)
				tso	CE	m	1	Char(8)	The short name of a delivery area
				balGrp	CE	m	1	Char(32)	Balancing Group for which the order was entered.
				clgHse	SE	o	0..n	Structure	DEPRECATED Clearing House.
				clgHseCode	CE	m	1	Char(4)	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing house code was specified as part of the respective order.
				clgAcct	SE	m	1	Structure	DEPRECATED
				clgAcctId	CE	m	1..n	Integer	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing account ID was specified as part of the respective order.
				entTim	CE	m	1	Time	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) is entered instead.

XML Tag				Type	m/o	No.	Data Type	Short description
			actnCod	CE	m	1	Char(1)	<p>The action code of a maintenance step for an order or matching of a quote. Valid values:</p> <p>A - Add (also used when activating an order). Note: This action code is used independent of the order being added in active or hibernated state.</p> <p>C - Change</p> <p>D - Delete</p> <p>H - Hibernation (deactivation)</p> <p>I - Insertion of new slice (iceberg orders)</p> <p>M - Full match of an order or quote</p> <p>P - Partial match of an order or quote</p> <p>X - System deletion (order expiration)</p>
			aggressorIndicator	CE	o	0..1	Char(1)	<p>Indicates whether the executed order was as a trade aggressor or as a trade originator. Valid values:</p> <p>Y - Trade aggressor</p> <p>N - Trade originator</p> <p>U - Unknown, used for executed orders of remote products, orders transferred to linked contracts and data before migration</p> <p>Condition: Present if the <i>actnCod</i> of the order is either "M" (full match) or "P" (partial match).</p>
			revisionNo	CE	m	1	Long	<p>The revision value for each maintenance step.</p> <p>Initial value is 1. When a local order is modified, the value is increased by one.</p>
			remoteRevisionNo	CE	o	0..1	Long	Not relevant for SEMOpX.

XML Tag				Type	m/o	No.	Data Type	Short description
			listID	CE	o	0..1	Long	The "Basket ID" of a basket order. Conditions: Present if the order is a part of a basket
			listExecInst	CE	o	0..1	Char(6)	The execution instruction of a basket order. Valid values: IMPL - The order is an implied order. Note that this value is obsolete and may be removed in the next versions. LINKED - All orders of the basket or none will be executed. NONE - No execution instruction VALID - Either all orders of the basket are valid or all orders are rejected. Conditions: Present if the order is a part of a basket.
			ordrNo	CE	m	1	Long	The "Order ID". It may be changed when the order is modified.
			remoteOrdNo	CE	o	0..1	Long	Not relevant for SEMOpx.
			ordrInitialNo	CE	o	0..1	Long	The "ordrInitialNo" equals to the "orderNo" that was assigned to an order when it was entered for the very first time. It remains the same even if the order is modified.
			ordrParentNo	CE	o	0..1	Long	The field is displayed only if the maintenance step led to a new "ordrNo". In such case, it contains the "ordrNo" of the previously modified order. Example: An order with the "ordrNo" 100 is modified leading to a new "ordrNo" 101. In the TC540Rec for this maintenance step, the field "ordrNo" will contain the value 101 and the field "ordrParentNo" will contain the value 100. Conditions: Present if the order was modified which led to a new order with a new order number.
			preAotId	CE	o	0..1	Long	Not relevant for SEMOpx.

XML Tag				Type	m/o	No.	Data Type	Short description
			ordrBuyCod	CE	m	1	Char(1)	Order Buy Code. It indicates whether the order is a buy or a sell order. Valid values: B - Buy order S - Sell order
			opnClseInd	CE	o	0..1	Char(1)	The open close indicator. It shows whether the order is linked to an open or close position. Valid values: O - Open position indicator C - Close position indicator Conditions: Present if the order was submitted with a valid value in the "Open Close Indicator" field
			acctTypCodGrp	CE	m	1	Char(2)	The account type group. Valid values: A or A1..A9 - Agent account P or P1..P9 - Proprietary account
			ordrQty	CE	m	1	Decimal	The order quantity in "qtyUnit". After a trade, the quantity is reduced by the amount executed in the last trade until the order is fully matched (quantity = 0.0). For iceberg orders it is the current exposed quantity (the current size of the active slice).
			peakSizeQty	CE	o	0..1	Decimal	The peak size quantity of an iceberg order in "qtyUnit". Conditions: Present if <i>ordrTypCod</i> is "I" (iceberg order).
			totalRemQty	CE	o	0..1	Decimal	The total remaining quantity of an iceberg order in "qtyUnit". Conditions: present if <i>ordrTypCod</i> is "I" (iceberg order).
			stopPrc	CE	o	0..1	Decimal	The stop price of a stop limit order Conditions: Present if <i>ordrTypCod</i> is "S" (stop limit order)
			ppd	CE	o	0..1	Decimal	The peak price delta of an iceberg order Conditions: Present if <i>ordrTypCod</i> is "I" (iceberg order)

XML Tag				Type	m/o	No.	Data Type	Short description
			ordrTypCod	CE	m	1	Char(1)	<p>The order type code</p> <p>B - Balance order for local products. User Defined Block order in case of remote Commodities products</p> <p>H - Hit and lift order</p> <p>I - Iceberg order</p> <p>L - Limit order</p> <p>P - OTC order</p> <p>S - Stop order</p>
			quote	CE	o	0..1	Char(1)	<p>A flag indicating that the order is a quote.</p> <p>Conditions: Present only if the order is a quote.</p>
			ordrExePrc	CE	o	0..1	Decimal	The limit price of an order.
			tradMtcPrc	CE	o	0..1	Decimal	<p>The trade match price. This is the price at which the trade was executed.</p> <p>Conditions: present if <i>actnCod</i> is either: "M" (full match) or "P" (partial match)</p>
			ordrResCod	CE	o	0..1	Char(2)	<p>The restriction code of an order</p> <p>A - AON: All or Nothing</p> <p>I - IOC: Immediate or Cancel</p> <p>F - FOK: Fill or Kill</p> <p>S - STP: Stop order</p> <p>Conditions: Present if <i>ordrResCod</i> is either: "A" (AON), "F" (FOK) or "I" (IOC)</p>
			ordrValCode	CE	m	1	Char(3)	<p>The validity restriction of an order.</p> <p>GFS - Good For Session</p> <p>GTD - Good Till Date</p> <p>NON - None, if the execution restriction is "IOC" or "FOK".</p>
			applicationId	CE	o	0..1	Char(255)	<p>Application ID which the user used to perform the maintenance step.</p> <p>Conditions: Present always, except for orders submitted or maintained before the migration to M7 6.0.</p>
			applicationVer	CE	o	0..1	Char(32)	<p>The version of the application which the user used to perform the maintenance step.</p> <p>Conditions: Present if the application version was provided in the API.</p>

XML Tag				Type	m/o	No.	Data Type	Short description
			valDat	CE	o	0..1	Char(23)	<p>If the validity restriction of an order ("ordrValCode") is "GTD", the "valDat" field will contain the data and time when an order will be deleted. Valid values:</p> <p>Format is:</p> <p>YYYY-MM-DD hh:mm+hh:mm</p> <p>where YYYY-MM-DD hh:mm is the timestamp in CET/CEST, and +hh:mm is the UTC offset</p> <p>Conditions: present if <i>ordrValCode</i> is "GTD"</p>
			text	CE	o	0..1	Char(250)	<p>The text entered in the text field of an order.</p> <p>Conditions: Present if the text field is not empty</p>
			membExclIdCodOboMs	CE	o	0..1	Char(5)	The "Member ID" of the user who performed a maintenance action on behalf of the order owner.
			partIdCodOboMs	CE	o	0..1	Char(6)	<p>The "User Code" of the user who performed a maintenance action on behalf of the order owner.</p> <p>Conditions: Present if the maintenance step was performed by a user on behalf of the order owner.</p>
			aot	CE	o	0..1	Boolean	Not relevant for SEMOpX.
			prioChange	CE	o	0..1	Boolean	An indicator of whether the order has been added or deleted as a result of an order modification which led to a priority change of the order. If false, the element is omitted.

6.2 TC810 Daily Trade Confirmation

Description	<p>This report contains an inventory of all of the trades of each member during the trading day. The report shows all unmodified, modified, recalled, cancelled and matched trades and approved OTC trades whenever these are supported by the exchange. In case cross-product matching or trade decomposition has been configured and such a trade was matched, only the trades resulting from the trade decomposition will appear in the report.</p> <p>For a report user belonging to a Regular member, this report contains the trade data just for this member.</p> <p>For a market operations report user, this report is an aggregation of trade data of all members.</p> <p>For a report user belonging to a Broker member, the report contains the trades and actions performed on these trades by the broker on behalf of other members. If the broker was also trading on his own behalf, the actions performed by its own member will be included in the report as well.</p>
Frequency	Daily
Generation	Triggered by timer
Availability	Report user of a non-Admin member + market operations report user

6.2.1 TC810 Selection Criteria and Target Group

This report can be generated as member-specific as well as for market operations. The latter receives the report with the trades of all members.

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

6.2.2 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 exception are trades for which a trade recall has been requested (identified by the value “Q” in the field <tranTypCod>), recalled trades (identified by the value “R” in the field <tranTypCod>), trades with the recall rejected (identified by the value “J” in the field <tranTypCod>) and cancelled trades (identified by the value “C” in the field <tranTypCod>).

6.2.3 TC810 Examples

6.3.3.1 Report Structure

Member **A** has two traders, Trader **1** and **2**. For contract X, Trader 1 has two trades; for contract Y, Trader **1** and Trader **2** have one trade each.

The resulting report structure is (key groups are not displayed here):

```
<tc810>
  <tc810Grp>                                <!-- contains all trades for Member A and contract X -->
    <tc810Grp1>                             <!-- contains all trades of Trader 1 for contract X -->
      <tc810Rec>                             <!-- the first trade of Trader 1 for contract X -->
      <tc810Rec>                             <!-- the second trade of Trader 1 for contract X -->
    <tc810Grp>                                <!-- contains all trades for Member A and contract Y -->
      <tc810Grp1>                             <!-- contains all trades of Trader 1 for contract Y -->
        <tc810Rec>                             <!-- a trade of Trader 1 for contract Y -->
      <tc810Grp1>                             <!-- contains all trades of Trader 2 for contract Y -->
        <tc810Rec>                             <!-- a trade of Trader 2 for contract Y -->
```

6.3.3.2 Cross-Product Matching and Trade Decomposition

Cross-product matching between an hourly product and a quarterly product is enabled. Member A has one trader, Trader A, who placed an hourly buy order for the contract 12-13. Member B has one trader, Trader B who placed three quarterly (3x15 minutes) sell orders for the contracts 12Q1, 12Q2 and 12Q3. Member C has one trader, Trader C who placed one quarterly (1x15 minutes) sell order for the contract 12Q4. The buy order and the four sell orders were matched into a trade. As a result of the cross-product matching process, the hourly buy trade was decomposed into four quarterly trades. The report contains only the trades for the quarterly contracts.

The resulting report (for market operations) contains the following trades:

```
<tc810>
  <tc810Grp>      <!-- contains all trades for Member A and contract 12Q1 -->
    <tc810Grp1>    <!-- contains all trades of Trader A for contract 12Q1 -->
      <tc810Rec>    <!-- (buy side of) trade of Trader A for contract 12Q1 -->
    <tc810Grp>      <!-- contains all trades for Member A and contract 12Q2 -->
      <tc810Grp1>    <!-- contains all trades of Trader A for contract 12Q2 -->
        <tc810Rec>    <!-- (buy side of) trade of Trader A for contract 12Q2 -->
    <tc810Grp>      <!-- contains all trades for Member A and contract 12Q3 -->
      <tc810Grp1>    <!-- contains all trades of Trader A for contract 12Q3 -->
        <tc810Rec>    <!-- (buy side of) trade of Trader A for contract 12Q3 -->
    <tc810Grp>      <!-- contains all trades for Member A and contract 12Q4 -->
      <tc810Grp1>    <!-- contains all trades of Trader A for contract 12Q4 -->
        <tc810Rec>    <!-- (buy side of) trade of Trader A for contract 12Q4 -->
    <tc810Grp>      <!-- contains all trades for Member B and contract 12Q1 -->
      <tc810Grp1>    <!-- contains all trades of Trader B for contract 12Q1 -->
        <tc810Rec>    <!-- (sell side of) trade of Trader B for contract 12Q1 -->
    <tc810Grp>      <!-- contains all trades for Member B and contract 12Q2 -->
      <tc810Grp1>    <!-- contains all trades of Trader B for contract 12Q2 -->
        <tc810Rec>    <!-- (sell side of) trade of Trader B for contract 12Q2 -->
    <tc810Grp>      <!-- contains all trades for Member B and contract 12Q3 -->
      <tc810Grp1>    <!-- contains all trades of Trader B for contract 12Q3 -->
        <tc810Rec>    <!-- (sell side of) trade of Trader B for contract 12Q3 -->
    <tc810Grp>      <!-- contains all trades for Member C and contract 12Q4 -->
      <tc810Grp1>    <!-- contains all trades of Trader C for contract 12Q4 -->
        <tc810Rec>    <!-- (sell side of) trade of Trader C for contract 12Q4 -->
```

6.2.4 TC810 Structure

XML Tag			Type	m/o	No.	Data Type	Short description
tc810			SE	m	1	Structure	TC810 Daily Trade Confirmation
	rptHdr		SE	m	1	Structure	
		exchNam	CE	m	1	Char(6)	The name of the exchange the report was created for.
		envText	CE	m	1	Char(1)	The technical environment where the report was generated. Valid values: D: Development A: Acceptance S: Simulation P: Production
		rptCod	CE	m	1	Char(5)	The naming code of the XML report. Valid values: TC540 TC810 TC820 TC840
		rptNam	CE	m	1	Char(53)	The XML report name

XML Tag			Type	m/o	No.	Data Type	Short description
		rptFlexKey	CE	o	0..1	Char(14)	DEPRECATED This field contains the Report Flexible Key.
		mbrld	CE	o	0..1	Char(5)	This field contains the Member Identifier.
		membLglNam	CE	o	0..1	Char(40)	The market area. Valid values: A valid market area (short name)
		rptPrntEffDat	CE	m	1	Date	The print effective date of the XML report. All data in the report refers to this trading day.
		rptPrntEffTim	CE	o	0..1	Time	DEPRECATED This field contains the effective time of the printed report.
		rptPrntRunDat	CE	m	1	Date	The run date of the XML report. This is the day when the report was created.
		tc810Grp	SE	o	0..n	Structure	Conditions: present only if at least one trade was matched, trade cancelled, or trade recall was granted on <i>rptPrntEffDat</i>
		tc810KeyGrp	SE	m	1	Structure	
		membExclCod	CE	m	1	Char(5)	The "Member ID" of the latest order owner.
		membClgldCod	CE	m	1	Char(5)	The "Member ID" of the clearing member
		membCcpClgldCod	CE	o	0..1	Char(5)	DEPRECATED This field contains the CCP clearing member id.
		stlldAct	CE	m	1	Char(10)	The Settlement ID Account. Valid values: Always "0000"
		stlldLoc	CE	m	1	Char(3)	The Settlement Location ID. valid values: Always "ECC"
		instTitl	SE	m	1	Structure	
		instMnem	CE	o	0..1	Char(5)	DEPRECATED This field contains the instrument mnemonic.
		instNam	CE	o	0..1	Char(30)	DEPRECATED This field contains the instrument long name.
		wknNo	CE	o	0..1	Char(9)	This field contains the WKN number
		isinCod	CE	m	1	Char(128)	The contract identifier. It is the long name of the contract.
		setlCurrTypCod	CE	o	0..1	Char(3)	DEPRECATED This field contains the settlement currency type code.

XML Tag				Type	m/o	No.	Data Type	Short description
			denCurrTypCod	CE	o	0..1	Char(3)	DEPRECATED This field contains the denominated currency type code.
			cntcUnt	CE	m	1	Decimal	The "Contract Unit" field contains the number of traded contract units/delivery units of a product in relation to basic period. This value is defined by product attribute "Delivery Units", which is set during the product configuration. Example: If the basic period is 1 month, for 3 month products cntcUnt is 3. For a UDDP block order, the value is calculated from the delivery start and delivery end of the block. In case of remote Commodities products, the cntcUnt is assumed to be equal to the delivery period length, expressed as a number of hours. For a UDB contract, the value is equal to the appropriate multiple of delivery periods of the underlying Commodities product. For more information, please refer to <i>MFG130</i> .
			product	CE	m	1	Char(32)	The name of the product.
			currTypCod	CE	m	1	Char(3)	Currency Type Code contains the currency in which the product is traded and the related fees are charged. Valid values: A valid ISO code
			tc810Grp1	SE	m	1..n	Structure	
			tc810KeyGrp1	SE	m	1	Structure	
			partIdCod	CE	m	1	Char(6)	The "User Code" of the latest order owner.
			tc810Rec	SE	m	1..n	Structure	
			mktArea	CE	m	1	Char(8)	The market area. Valid values: A valid market area (short name)
			tso	CE	m	1	Char(8)	The short name of a delivery area
			balGrp	CE	m	1	Char(32)	Balancing Group for which the order was entered.
			clgHseCode	CE	o	0..1	Char(4)	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing house code was specified as part of the respective order.
			clgAcctId	CE	o	0..1	Integer	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing account ID was specified as part of the respective order.

XML Tag				Type	m/o	No.	Data Type	Short description
			tranTim	CE	m	1	Time	The transaction timestamp. The exact time when the trade execution or modification was performed. Valid values: Any time in the format hh:mm:ss:ccc.
			tranIdNo	CE	m	1	Long	A unique identifier of a trade per day ("Trade ID")
			tranIdSfxNo	CE	o	0..1	Integer	The Transaction ID Suffix Number. The field contains the revision number of the trade. Valid values: Usually "1", the value changes e.g. when a trade recall is granted by a Market Operator.
			remoteTranIdNo	CE	o	0..1	Long	Not relevant for SEMOpx.
			remoteTranIdSfxNo	CE	o	0..1	Integer	Not relevant for SEMOpx
			tranTypCod	CE	o	0..1	Char(1)	The transaction type code describes the action performed on a trade. " " - Regular trade execution Q - Trade with requested recall R - Recalled trade J - Trade with rejected recall C - Cancelled trade
			typOrig	CE	o	0..1	Char(1)	The transaction type indicates whether the trade is an OTC or a non-OTC trade. " " - Matched trade O - OTC trade
			aggressorIndicator	CE	m	1	Char(1)	Indicates whether the executed order was as a trade aggressor or as a trade originator. Valid values: Y - Trade aggressor N - Trade originator U - Unknown, used for executed orders of remote products, orders transferred to linked contracts and data before migration
			isinCod	CE	o	0..1	Char(128)	The contract identifier. It is the long name of the contract.

XML Tag				Type	m/o	No.	Data Type	Short description
			ordrNo	CE	o	0..1	Long	The "Order ID". It may be changed when the order is modified.
			acctTypCodGrp	CE	m	1	Char(2)	The account type group. Valid values: A or A1..A9 - Agent account P or P1..P9 - Proprietary account
			ordrBuyCod	CE	m	1	Char(1)	Order Buy Code. It indicates whether the order is a buy or a sell order. Valid values: B - Buy order S - Sell order
			openCloseInd	CE	o	0..1	Char(1)	The open close indicator. It shows whether the order is linked to an open or close position. Valid values: O - Open position indicator C - Close position indicator Conditions: Present if the order was submitted with a valid value in the "Open Close Indicator" field
			tradMtcQty	CE	m	1	Decimal	The trade match quantity. This is the quantity executed in the trade in "qtyUnit".
			tradMtcPrc	CE	m	1	Decimal	The trade match price. This is the price at which the trade was executed. Conditions: present if <i>actnCod</i> is either: "M" (full match) or "P" (partial match)
			tradPhase	CE	o	0..1	Char(10)	The trade phase in which the trade was executed. Valid values: Auction Balancing Continuous SDAT Same Delivery Area Trading
			stlAmnt	CE	o	0..1	Decimal	DEPRECATED This field contains the settlement amount.
			stlDate	CE	m	1	Date	The settlement date. It is defined by the delivery start date of the contract
			feeAmt	CE	m	1	Decimal	The fee amount. Valid values: Always "0"
			bonAcrlnt	CE	o	0..1	Decimal	DEPRECATED This field contains the accrued interest for bonds.

XML Tag				Type	m/o	No.	Data Type	Short description
			ctpyStlIdLoc	CE	o	0..1	Char(3)	DEPRECATED This field contains the counterparty settlement id location.
			membCtpyIdCod	CE	m	1	Char(5)	The "Member ID" of the order owner. If contained in the tag <i>ctpyMembPartIdCod</i> , the field contains the "Member ID" of the order owner counterparty.
			ctpyStlIdAct	CE	o	0..1	Char(10)	DEPRECATED This field contains the counterparty settlement id account.
			setlTypCod	CE	o	0..1	Char(3)	DEPRECATED This field contains the settlement type code.
			otcEntTim	CE	o	0..1	Time	DEPRECATED This field contains the OTC trade time.
			dwzNo	CE	o	0..1	Integer	DEPRECATED This field contains the member's DWZ account number.
			bonAcrIntDay	CE	o	0..1	Integer	DEPRECATED This field contains the accrued interest days for bonds.
			text	CE	o	0..1	Char(250)	The text entered in the text field of an order. Conditions: Present if the text field is not empty
			usrOrdrNum	CE	o	0..1	Char(16)	DEPRECATED This field contains the Member internal order number.
			membExclIdCodOboMs	CE	o	0..1	Char(5)	The "Member ID" of the admin user who granted a recall or cancelled a trade.
			partIdCodOboMs	CE	o	0..1	Char(6)	The "User Code" of the admin user who granted a recall or cancelled a trade. Conditions: Present if the trade was cancelled or a trade recall was granted by an admin user
			brokerMemblIdCod	CE	o	0..1	Char(5)	The "Member ID" of the broker Conditions: present if the trade was modified by a broker user on behalf of another user
			brokerUserIdCod	CE	o	0..1	Char(6)	The "User Code" of the broker Conditions: present if the action was modified by a broker user on behalf of another user
			bestExrMemblIdCod	CE	o	0..1	Char(5)	DEPRECATED This field contains the BEST executor member id.

XML Tag				Type	m/o	No.	Data Type	Short description
			selfTrade	CE	o	0..1	Char(1)	The flag if trade is a self-trade: Trade inside one balancing group or Trade between two different balancing groups within one member Valid values: Y - Yes N - No
			recallRequestor	CE	o	0..1	Char(5)	The Member Id of the party who initiated the trade recall. Filled only in case report is generated for admin or user who belongs to same balancing group as user who initiated the recall.
			sumPartTotBuyOrdr	CE	m	1	Decimal	The total quantity bought by the user (the respective "partIdCod" field) in "qtyUnit". The quantity is reported per contract for the trading day stated in the "rptPrntEffDat" field.
			sumPartTotSellOrdr	CE	m	1	Decimal	The total quantity sold by the user (the respective "partIdCod" field) in "qtyUnit". The quantity is reported per contract for the trading day contained in the "rptPrntEffDat" field.
			sumMembTotBuyOrdr	CE	m	1	Decimal	The total quantity bought by a member in "qtyUnit" per contract on the trading day contained in the "rptPrntEffDat" field.
			sumMembTotSellOrdr	CE	m	1	Decimal	The total quantity sold by a member in "qtyUnit" per contract on the trading day contained in the "rptPrntEffDat" field.

6.3 TC820 Daily Open OTC Maintenance

Description	The report contains a list of all OTC orders which have been modified for each member during the trading day. For each member, this report is arranged by traders and contracts and lists all measures taken for the maintenance of OTC orders during the trading day. For market operations, the report is an aggregation of all member reports, arranged by members and then as described previously.
Frequency	Daily
Generation	Triggered by timer
Availability	Report user of a non-Admin member + market operations report user

6.3.1 TC820 Selection Criteria and Target Group

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

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

6.3.2 TC820 Structural Logic

For each member, a <tc820Grp> contains all open OTC orders that have been modified by its users. Inside this group tag, the orders are separated by the user's 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 trading day, which is displayed in the tag <rptPrntEffDat>.

6.3.3 TC820 Example

Member A has two traders called Trader I and Trader II. Trader I performed two maintenance actions on an OTC order for contract X and Trader II performed one maintenance action on an OTC order for the same contract X and two maintenance actions on an OTC 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 the trading day stated in the "rptPrntEffDat" field.

The resulting report structure is:

```

<tc820Grp>                                <!-- contains all actions of Member A -->
  <tc820Grp1>                             <!-- contains all actions of Trader I -->
    <tc820Grp2>                           <!-- contains all actions of Trader I on contract X -->
      <tc820Rec>                          <!-- the first action of Trader I on order of contract X -->
      <tc820Rec>                          <!-- the second action of Trader I on order of contract X -->
    <tc820Grp1>                             <!-- contains all actions of Trader II -->
      <tc820Grp2>                           <!-- contains all actions of Trader II on contract X -->
        <tc820Rec>                          <!-- an action of Trader II on order of contract X -->
      <tc820Grp2>                           <!-- contains all actions of Trader II on contract Y -->
        <tc820Rec>                          <!-- the first action of Trader II on order of contract Y -->
        <tc820Rec>                          <!-- the second action of Trader II on order of contract Y -->

```

6.3.4 TC820 Structure

XML Tag			Type	m/o	No.	Data Type	Short description
tc820			SE	m	1	Structure	TC820 Daily Open Otc Maintenance
	rptHdr		SE	m	1	Structure	
		exchNam	CE	m	1	Char(6)	The name of the exchange the report was created for.
		envText	CE	m	1	Char(1)	The technical environment where the report was generated. Valid values: D: Development A: Acceptance S: Simulation P: Production

XML Tag		Type	m/o	No.	Data Type	Short description
	rptCod	CE	m	1	Char(5)	The naming code of the XML report. Valid values: TC540 TC810 TC820 TC840
	rptNam	CE	m	1	Char(53)	The XML report name
	rptFlexKey	CE	o	0..1	Char(14)	DEPRECATED This field contains the Report Flexible Key.
	mbrld	CE	o	0..1	Char(5)	This field contains the Member Identifier.
	membLglNam	CE	o	0..1	Char(40)	The market area. Valid values: A valid market area (short name)
	rptPrntEffDat	CE	m	1	Date	The print effective date of the XML report. All data in the report refers to this trading day.
	rptPrntEffTim	CE	o	0..1	Time	DEPRECATED This field contains the effective time of the printed report.
	rptPrntRunDat	CE	m	1	Date	The run date of the XML report. This is the day when the report was created.
	tc820Grp	SE	o	0..n	Structure	Conditions: present only if an order was modified on rptPrntEffDat
	tc820KeyGrp	SE	m	1	Structure	
	membExclcdCod	CE	m	1	Char(5)	The "Member ID" of the order owner. If contained in the tag <i>ctpyMembPartIdCod</i> , the field contains the "Member ID" of the order owner counterparty.
	tc820Grp1	SE	m	1..n	Structure	
	tc820KeyGrp1	SE	m	1	Structure	
	partIdCod	CE	o	0..1	Char(6)	The "User Code" of the latest order owner.
	tc820Grp2	SE	m	1..n	Structure	
	tc820KeyGrp2	SE	m	1	Structure	
	instTitl	SE	m	1	Structure	
	instMnem	CE	o	0..1	Char(5)	DEPRECATED This field contains the instrument mnemonic.
	instNam	CE	o	0..1	Char(30)	DEPRECATED This field contains the instrument long name.

XML Tag						Type	m/o	No.	Data Type	Short description
					wknNo	CE	o	0..1	Char(9)	This field contains the WKN number
					isinCod	CE	m	1	Char(128)	The contract identifier. It is the long name of the contract.
					denCurrTypCod	CE	o	0..1	Char(3)	DEPRECATED This field contains the denominated currency type code.
					setlCurrTypCod	CE	o	0..1	Char(3)	DEPRECATED This field contains the settlement currency type code.
					product	CE	m	1	Char(32)	The name of the product.
					currTypCod	CE	m	1	Char(3)	Currency Type Code contains the currency in which the product is traded. Valid values: A valid ISO code
					tc820Rec	SE	m	1..n	Structure	
					mktArea	CE	m	1	Char(8)	The market area. Valid values: A valid market area (short name)
					tso	CE	m	1	Char(8)	The short name of a delivery area
					balGrp	CE	m	1	Char(32)	Balancing Group for which the order was entered.
					clgHseCode	CE	o	0..1	Char(4)	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing house code was specified as part of the respective order.
					clgAcctId	CE	o	0..1	Integer	DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified. Condition: Present if a clearing account ID was specified as part of the respective order.
					aggressorIndicator	CE	o	0..1	Char(1)	Indicates whether the executed order was as a trade aggressor or as a trade originator. Valid values: Y - Trade aggressor N - Trade originator U - Unknown, used for executed orders of remote products, orders transferred to linked contracts and data before migration
					tranTim	CE	m	1	Time	The transaction timestamp. The exact time when the trade execution or modification was performed.

XML Tag					Type	m/o	No.	Data Type	Short description
				tranTypCod	CE	m	1	Char(1)	<p>The transaction type code describes the maintenance action performed on an OTC order.</p> <p>A - Add</p> <p>C - Change</p> <p>D - Delete</p> <p>H - Hibernation (deactivation)</p> <p>I - Insertion of new slice (iceberg orders)</p> <p>M - Full match</p> <p>P - Partial match</p> <p>X - System deletion (order expiration)</p>
				otcTrdTim	CE	o	0..1	Time	<p>The OTC trade time. It is the time when the OTC order was accepted by the counterparty.</p> <p>Conditions: present if an OTC order was accepted by the counterparty.</p>
				tranIdNo	CE	m	1	Long	An "Order ID" of an OTC order
				ordrBuyCod	CE	m	1	Char(1)	<p>Order Buy Code. It indicates whether the order is a buy or a sell order. Valid values:</p> <p>B - Buy order</p> <p>S - Sell order</p>
				acctTypCodGrp	CE	m	1	Char(2)	<p>The account type group. Valid values:</p> <p>A or A1..A9 - Agent account</p> <p>P or P1..P9 - Proprietary account</p>
				ordrQty	CE	m	1	Decimal	<p>The order quantity in "qtyUnit". After a trade, the quantity is reduced by the amount executed in the last trade until the order is fully matched (quantity = 0.0). For iceberg orders it is the current exposed quantity (the current size of the active slice).</p>
				ordrExePrc	CE	m	1	Decimal	<p>The limit price and execution price of the OTC order (OTC orders are always matched at the initial limit price).</p>
				ordrValCode	CE	m	1	Char(3)	<p>The validity restriction of an order.</p> <p>GFS - Good For Session</p> <p>GTD - Good Till Date</p> <p>NON - None, if the execution restriction is "IOC" or "FOK".</p>

XML Tag					Type	m/o	No.	Data Type	Short description
				valDat	CE	o	0..1	Char(23)	<p>If the validity restriction of an order ("ordrValCode") is "GTD", the "valDat" field will contain the data and time when an order will be deleted. Valid values:</p> <p>Format is:</p> <p>YYYY-MM-DD hh:mm+hh:mm</p> <p>where YYYY-MM-DD hh:mm is the timestamp in CET/CEST, and +hh:mm is the UTC offset</p> <p>Conditions: present if <i>ordrValCode</i> is "GTD"</p>
				ctpyMembPartIdCod	SE	m	1	Structure	
				membExclIdCod	CE	m	1	Char(5)	This field contains the member id code.
				partIdCod	CE	m	1	Char(6)	The "User Code" of the latest order owner.
				mktArea	CE	m	1	Char(8)	<p>The market area.</p> <p>Valid values: A valid market area (short name)</p>
				balGrp	CE	m	1	Char(32)	Balancing group, for which order was entered.
				clgHse	SE	o	0..1	Structure	DEPRECATED Conditions: present only if a clearing house was specified as part of the order
				clgHseCode	CE	m	1	Char(4)	<p>DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified.</p> <p>Condition: Present if a clearing house code was specified as part of the respective order.</p>
				clgAcct	SE	m	1	Structure	DEPRECATED
				clgAcctId	CE	m	1..n	Integer	<p>DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified.</p> <p>Condition: Present if a clearing account ID was specified as part of the respective order.</p>
				clgAcctId	CE	o	0..1	Integer	<p>DEPRECATED The code of the clearing house for which the order was entered, respectively modified; or for which the trade was executed, respectively modified.</p> <p>Condition: Present if a clearing account ID was specified as part of the respective order.</p>

XML Tag						Type	m/o	No.	Data Type	Short description
					aggressorIndicator	CE	o	0..1	Char(1)	Indicates whether the executed order was as a trade aggressor or as a trade originator. Valid values: Y - Trade aggressor N - Trade originator U - Unknown, used for executed orders of remote products, orders transferred to linked contracts and data before migration
					stlDate	CE	m	1	Date	The settlement date. It is defined by the delivery start date of the contract
					setlmCod1	CE	m	1	Char(3)	The settlement code. Valid values: Always "DVP"
					text	CE	o	0..1	Char(250)	The text entered in the text field of an order. Conditions: Present if the text field is not empty
					userOrdNum	CE	o	0..1	Char(16)	DEPRECATED This field contains the Member internal order number.
					otcTrdFlgGrp	SE	o	0..1	Structure	DEPRECATED
					otcTrdFlg_1	CE	o	0..1	Char(2)	DEPRECATED This field contains the OTC trade flag.
					otcTrdFlg_2	CE	o	0..1	Char(2)	DEPRECATED This field contains the OTC trade flag.
					otcTrdFlg_3	CE	o	0..1	Char(2)	DEPRECATED This field contains the OTC trade flag.
					membExclcdCodOboMs	CE	o	0..1	Char(5)	The "Member ID" of the user who performed a maintenance action on behalf of the order owner. Conditions: Present if the maintenance step was performed by an admin or a trader user that performed an on behalf action
					partIdCodOboMs	CE	o	0..1	Char(6)	The "User Code" of the user who performed a maintenance action on behalf of the order owner. Conditions: Present if the maintenance step was performed by an admin or a trader user that performed an on behalf action.