

# Deutsche Börse Group's T7

# Enhanced Trading Interface Derivatives Message Reference

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## **Contents**

## 1 List of Abbreviations

Please find a list of all the abbreviations used in the document. The first time an abbreviation is introduced in the document it is written in brackets after the phrase.

| вос                  | Book or Cancel Order  |
|----------------------|---|
| CAO                  | Closing Auction Only Order  |
| CLIP – Eurex Improve | Client Liquidity Improvement Process                                  |
| ETI                  | Enhanced Trading Interface  |
| HF                   | High-frequency (session)  |
| IOC                  | Immediate or Cancel Order   |
| LF                   | Low-frequency (session)   |
| осо                  | One Cancels the Other Order   |
| PS (GW)              | Partition specific (gateway)  |
| SRQS - Eurex EnLight | Selective Request for Quote Service                                   |
| TES                  | T7 Entry Service  |
| UDF                  | User-defined field that is not part of the official FIX Specification |

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#### 2 Introduction

The Deutsche Börse Group's T7 is the industry-leading, multi-asset trading platform of the Deutsche Börse Group, its affiliates and partners.

The system has best-in-class performance and is scalable to support markets of any size. It can be customized to support different types of markets.

The Enhanced Trading Interface (ETI) is the high performance interface designed for participants who require the highest throughput and the lowest latency for their transactions. It supports both, cash and derivatives markets.

The ETI Manual provides the description of the main concepts for all supported market types (cash and derivatives).

The purpose of this document is to provide all message formats for the cash market part of ETI.

The chapter 3 Message Formats provides the detailed message formats and fields. An introduction to the XML Interface Description and important message flows are provided in the appendix.

In addition to this document a corresponding XML representation and the schema files as well as C-Header files are published.

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### 3 Message Formats

This chapter provides details on the administrative and application messages used by ETI. Information on data types and the most important error codes are provided. Messages sent by participants not listed in this section are rejected by the server via a Reject (3) message.

Each ETI message format has a unique binary message type identifier (*TemplateID (28500)*) and is based on a standard FIX message.

The Interface version used by the participant needs to be provided during Session Logon in DefaultCstmApplVerID (1408); the Session Logon Response will return the Interface Version, which the ETI Gateway currently uses, in the same field.

The Interface Version will allow the participant to recognize that ETI has changed. The Build Number shows to which ETI XML file, ETI XSD file, canned data, exchange software the ETI Manual belongs to.

#### 3.1 Message Fragmentation

In case the complete data of a transaction does not fit into a single message, ETI automatically sends a sequence of messages to the participant.

The field LastFragment (893) in the corresponding header structure indicates whether the current message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction or if the application should wait for further messages in order to retrieve the full data set.

Another mechanism for message fragmentation that is used for inquiring reference data (session, user, enrichment rules) bases on the LastEntityProcess (25035) field that is part of the requests and the responses. In the first inquiry (request) LastEntityProcess (25035) must not be set. The application should continue sending the inquiries using the LastEntityProcess (25035) from the recent response. A response with LastEntityProcess (25035) not set indicates that no more data is available.

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# 3.2 Data Types

ETI supports the following data types:

| ETI Data Type                | Description  | No Value  |
|------------------------------|--|---|
| signed int                   | Little endian byte order. Supported are 1, 2, 4 and 8-byte, signed integers two's complement representation.   | 1 byte signed int: 0x80<br>2 byte signed int: 0x8000<br>4 byte signed int: 0x80000000<br>8 byte signed int:<br>0x800000000000000000               |
| unsigned int                 | Little endian byte order. Supported are 1, 2, 4 and 8-byte, unsigned integers.   | 1 byte unsigned int: 0xFF 2 byte unsigned int: 0xFFFF 4 byte unsigned int: 0xFFFFFFFF 8 byte unsigned int: 0xFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF |
| Float                        | Encoded as 8-byte signed integer (8 implicit decimals).  | 0×800000000000000   |
| FloatDecimal4                | Encoded as 8-byte signed integer (4 implicit decimals).  | 0×800000000000000   |
| FloatDecimal6                | Encoded as 8-byte signed integer (6 implicit decimals).  | 0×800000000000000   |
| FloatDecimal7                | Encoded as 8-byte signed integer (7 implicit decimals).  | 0×800000000000000   |
| Fixed String                 | Length information specifies the fixed size. Encoded as character array. Completely filled with valid characters (space padding if required).  | $0\times00$ at the first position   |
| Fixed String (0- terminable) | Length information specifies the fixed size. Encoded as character array optionally 0-terminable (minimum string size of 1). XML file: attribute "isTerminable" is set to true. Padding after 0-terminator required up to fixed size. | $0\times00$ at the first position   |

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| ETI Data Type   | Description  | No Value  |
|-----------------|--|---|
| Variable String | Length information specifies the maximum possible size. Separate counter field specifies the transmitted string size. XML file: attribute "variableSize" set to true. The message is filled up to a multiple of 8 bytes and truncated. | 0x00 at the first position (if the field is not the last one of a certain message) OR the related counter field specifying the transmitted string size is set to 0. |
| Counter         | This data type represents an unsigned integer as a counter for arrays of variable size.  | see 1 byte unsigned int and 2 byte unsigned int respectively  |
| LocalMktDate    | Date of Local Market (as opposed to UTC) in YYYYMMDD 4 byte unsigned binary format. Example: date 10.09.2014 is represented by a 4 byte unsigned integer number 20140910.  | see 4 byte unsigned int   |
| PriceType       | Price in integer format including 8 decimals. For certain asset classes, prices may have negative values.  | see 8 byte signed int   |
| Qty             | Quantity in integer format including 4 decimals.   | see 8 byte signed int   |
| SeqNum          | Message sequence number in 8 byte unsigned binary format.  | see 8 byte unsigned int   |
| UTCTimestamp    | Date and time, in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).  | see 8 byte unsigned int   |
| char            | String of length 1.  | 0×00  |
| Data            | Byte array where each byte has a value from 0 to 255. The length information specifies the fixed size. Encoded as byte array. Byte array is always filled completely.  | Each byte filled with 0×00.   |

#### 3.3 Error Codes

All rejections and errors on an application and session level are communicated via the FIX standard *Reject (3)* message; except for Mass Quote Response.

The error code will be provided in field SessionRejectReason (373), the error text in field VarText (30355).

ETI offers detailed error description in the error text, only for selected errors unique error codes are available.

ETI will provide the following dedicated error codes, which the participant application may interpret for automated processing:

| SessionRejectReason (373) | Description   |
|---------------------------|---|
| 100                       | Reject due to exceeded throttle limit.                                |
| 101                       | Stale request was not forwarded to T7.                                |
| 102                       | Service temporarily not available.                                    |
| 103                       | Service not available.  |
| 211                       | User already logged in.   |
| 216                       | Gateway is standby.   |
| 217                       | Session login limit reached.  |
| 223                       | User entitlement data timeout.  |
| 224                       | Session limit reached (per PS Gateway and Business Unit).             |
| 225                       | User login tries (per time interval) reached.                         |
| 226                       | Limit of outstanding session/user logins reached (per Business Unit). |
| 227                       | Limit of outstanding session/user logins reached (per session).       |
| 228                       | Password timestamp not in grace period.                               |
| 10000                     | Order not found.  |
| 10001                     | Price reasonability check failed.                                     |
| 10002                     | Client order ID not unique.   |
| 10003                     | Quote activation in progress.   |
| 10006                     | Stop buy price not reasonable.  |
| 10007                     | Stop sell price not reasonable.                                       |
| 10008                     | GFD order is not executable on current business day.                  |
| 10009                     | Execution restriction and instrument state mismatch.                  |
| 10010                     | Throttle limit for creation of complex instrument exceeded.           |
| 10011                     | Order maintenance not allowed in current state.                       |
| 10013                     | Required min lot size not reached.                                    |

# 4 Overview of Supported Message Types

The following message formats are based on:

• Interface Version: 11.1

■ Build Number: 111.470.1.ga-111004071-18

Additionally, ETI clients implementing interface version '11.0' will be supported. Please refer

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to chapter Change Log for details regarding interface changes between the ETI versions '11.0' and '11.1'.

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# 4.1 Session Layer

| ETI Message                               | Sender      | FIX Message                  | MsgType (35) |
|---|-------------|------------------------------|--------------|
| Session Logon                             | Participant | Logon                        | А            |
| Session Logon (Password encrypted)        | Participant | Logon                        | А            |
| Session Logon Response                    | ETI Gateway | Logon                        | A            |
| Session Logout                            | Participant | Logout                       | 5            |
| Session Logout Response                   | ETI Gateway | Logout                       | 5            |
| Session Logout Notification               | ETI Gateway | Logout                       | 5            |
| Heartbeat                                 | Participant | Heartbeat                    | 0            |
| Heartbeat Notification                    | ETI Gateway | Heartbeat                    | 0            |
| Legal Notification                        | ETI Gateway | UserNotification             | СВ           |
| User Logon                                | Participant | UserRequest                  | BE           |
| User Logon (Password encrypted)           | Participant | UserRequest                  | BE           |
| User Logon Response                       | ETI Gateway | UserResponse                 | BF           |
| User Logout                               | Participant | UserRequest                  | BE           |
| User Logout Response                      | ETI Gateway | UserResponse                 | BF           |
| User Logout Notification                  | ETI Gateway | Logout                       | 5            |
| Throttle Update Notification              | ETI Gateway | UserNotification             | СВ           |
| Subscribe                                 | Participant | ApplicationMessageRequest    | BW           |
| Subscribe Response                        | ETI Gateway | ApplicationMessageRequestAck | BX           |
| Unsubscribe                               | Participant | ApplicationMessageRequest    | BW           |
| Unsubscribe Response                      | ETI Gateway | ApplicationMessageRequestAck | BX           |
| Retransmit                                | Participant | ApplicationMessageRequest    | BW           |
| Retransmit Response                       | ETI Gateway | ApplicationMessageRequestAck | BX           |
| Retransmit (Order/Quote Event)            | Participant | ApplicationMessageRequest    | BW           |
| Retransmit Response (Order/Quote Event)   | ETI Gateway | ApplicationMessageRequestAck | BX           |
| Reject                                    | ETI Gateway | Reject                       | 3            |
| Session List Inquire                      | Participant | SessionDetailsListRequest    | U5           |
| Session List Inquire Response             | ETI Gateway | SessionDetailsListResponse   | U6           |
| Trade Enrichment List Inquire             | Participant | TradeEnrichmentListRequest   | U7           |
| Trade Enrichment List Inquire<br>Response | ETI Gateway | TradeEnrichmentListReport    | U9           |
| User List Inquire                         | Participant | PartyDetailsListRequest      | CF           |
| User List Inquire Response                | ETI Gateway | PartyDetailsListReport       | CG           |

# 4.2 Order Handling

| ETI Message                     | Sender      | FIX Message    | MsgType (35) |
|---------------------------------|-------------|----------------|--------------|
| New Order Single                | Participant | NewOrderSingle | D            |
| New Order Single (short layout) | Participant | NewOrderSingle | D            |

| ETI Message                                 | Sender      | FIX Message                | MsgType (35) |
|---|-------------|----------------------------|--------------|
| New Order Multi Leg                         | Participant | NewOrderMultileg           | AB           |
| New Order Multi Leg (short layout)          | Participant | NewOrderSingle             | D            |
| New Order Response (Standard<br>Order)      | ETI Gateway | ExecutionReport            | 8            |
| New Order Response (Lean Order)             | ETI Gateway | ExecutionReport            | 8            |
| Immediate Execution Response                | ETI Gateway | ExecutionReport            | 8            |
| Book Order Execution                        | ETI Gateway | ExecutionReport            | 8            |
| Replace Order Single                        | Participant | OrderCancelReplaceRequest  | G            |
| Replace Order Single (short layout)         | Participant | OrderCancelReplaceRequest  | G            |
| Replace Order Multi Leg                     | Participant | MultilegOrderCancelReplace | AC           |
| Replace Order Multi Leg (short layout)      | Participant | OrderCancelReplaceRequest  | G            |
| Replace Order Response (Lean Order)         | ETI Gateway | ExecutionReport            | 8            |
| Replace Order Response (Standard Order)     | ETI Gateway | ExecutionReport            | 8            |
| Cancel Order Single                         | Participant | OrderCancelRequest         | F            |
| Cancel Order Multi Leg                      | Participant | OrderCancelRequest         | F            |
| Cancel Order Response (Standard Order)      | ETI Gateway | ExecutionReport            | 8            |
| Cancel Order Response (Lean Order)          | ETI Gateway | ExecutionReport            | 8            |
| Cancel Order Notification                   | ETI Gateway | ExecutionReport            | 8            |
| Order Mass Cancellation Request             | Participant | OrderMassActionRequest     | CA           |
| Order Mass Cancellation Response            | ETI Gateway | OrderMassActionReport      | BZ           |
| Order Mass Cancellation Response No<br>Hits | ETI Gateway | OrderMassActionReport      | BZ           |
| Order Mass Cancellation Notification        | ETI Gateway | OrderMassActionReport      | BZ           |
| Extended Order Information                  | ETI Gateway | ExecutionReport            | 8            |

# 4.3 Quote Handling

| ETI Message                          | Sender      | FIX Message              | MsgType (35) |
|--------------------------------------|-------------|--------------------------|--------------|
| Mass Quote                           | Participant | MassQuote                | i            |
| Mass Quote Response                  | ETI Gateway | MassQuoteAcknowledgement | b            |
| Quote Execution Notification         | ETI Gateway | QuoteExecutionReport     | U8           |
| Quote Mass Cancellation Request      | Participant | OrderMassActionRequest   | CA           |
| Quote Mass Cancellation Response     | ETI Gateway | OrderMassActionReport    | BZ           |
| Quote Mass Cancellation Notification | ETI Gateway | OrderMassActionReport    | BZ           |
| Quote Activation Request             | Participant | OrderMassActionRequest   | CA           |
| Quote Activation Response            | ETI Gateway | OrderMassActionReport    | BZ           |
| Quote Activation Notification        | ETI Gateway | OrderMassActionReport    | BZ           |
| Inquire Market Maker Parameters      | Participant | MMParameterRequest       | U17          |

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| ETI Message                       | Sender       | FIX Message                  | MsgType (35) |
|-----------------------------------|--------------|------------------------------|--------------|
| Inquire Market Maker Parameters   | ETI Cataway  | MMParameterResponse          | U18          |
| Response                          | ETI Gateway  | white arameter response      | 010          |
| Market Maker Parameter Definition | Participant  | MMParameterDefinitionRequest | U14          |
| Market Maker Parameter Definition | ETI Cataviav | Dominant Animanula des       | U1           |
| Response                          | ETI Gateway  | RequestAcknowledge           | 01           |

## 4.4 Strategy Creation

| ETI Message              | Sender      | FIX Message               | MsgType (35) |
|--------------------------|-------------|---------------------------|--------------|
| Create Strategy          | Participant | SecurityDefinitionRequest | С            |
| Create Strategy Response | ETI Gateway | SecurityDefinition        | d            |

#### 4.5 Flexible Instrument Creation

| ETI Message                         | Sender      | FIX Message               | MsgType (35) |
|-------------------------------------|-------------|---------------------------|--------------|
| Create Flexible Instrument Request  | Participant | SecurityDefinitionRequest | С            |
| Create Flexible Instrument Response | ETI Gateway | SecurityDefinition        | d            |

### 4.6 Quote and Cross Request

| ETI Message            | Sender      | FIX Message        | MsgType (35) |
|------------------------|-------------|--------------------|--------------|
| Quote Request          | Participant | QuoteRequest       | R            |
| Quote Request Response | ETI Gateway | RequestAcknowledge | U1           |
| Cross Request          | Participant | CrossRequest       | DS           |
| Cross Request Response | ETI Gateway | RequestAcknowledge | U1           |

### 4.7 CLIP Trading

| ETI Message                 | Sender      | FIX Message     | MsgType (35) |
|-----------------------------|-------------|-----------------|--------------|
| CLIP Enter Request          | Participant | CrossRequest    | DS           |
| Response to a CLIP Request  | ETI Gateway | CrossRequestAck | DT           |
| CLIP Execution Notification | ETI Gateway | ExecutionReport | 8            |
| CLIP Delete Request         | Participant | CrossRequest    | DS           |
| CLIP Deletion Notification  | ETI Gateway | ExecutionReport | 8            |

## 4.8 Selective Request for Quote Service

| ETI Message                   | Sender      | FIX Message  | MsgType (35) |
|-------------------------------|-------------|--------------|--------------|
| SRQS Open Negotiation Request | Participant | QuoteRequest | R            |

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| ETI Message                                       | Sender      | FIX Message                | MsgType (35) |
|---|-------------|----------------------------|--------------|
| SRQS Inquire Smart Respondent<br>Request          | Participant | PartyDetailsListRequest    | CF           |
| SRQS Inquire Smart Respondent                     | ETI Gateway | PartyDetailsListReport     | CG           |
| Response  | LTT Gateway | T arty Details List Neport |              |
| SRQS Quote Response                               | ETI Gateway | QuoteAck                   | CW           |
| SRQS Quote Snapshot Notification                  | ETI Gateway | MassQuote                  | i            |
| SRQS Quote Snapshot Request                       | Participant | QuoteRequest               | R            |
| SRQS Response                                     | ETI Gateway | MassQuoteAcknowledgement   | b            |
| SRQS Open Negotiation Notification for Requester  | ETI Gateway | QuoteStatusReport          | Al           |
| SRQS Open Negotiation Notification for Respondent | ETI Gateway | QuoteStatusReport          | Al           |
| SRQS Update Negotiation Request                   | Participant | QuoteRequest               | R            |
| SRQS Negotiation Notification for Requester       | ETI Gateway | QuoteStatusReport          | Al           |
| SRQS Enter Quote Request                          | Participant | QuoteRequest               | R            |
| SRQS Quote Notification for<br>Responder          | ETI Gateway | Quote                      | S            |
| SRQS Enter Quoting Status Request                 | Participant | MassQuoteAcknowledgement   | b            |
| SRQS Hit Quote Request                            | Participant | QuoteResponse              | AJ           |
| SRQS Deal Response                                | ETI Gateway | QuoteAck                   | CW           |
| SRQS Create Deal Notification                     | ETI Gateway | TradeCaptureReport         | AE           |
| SRQS Update Deal Request                          | Participant | TradeCaptureReport         | AE           |
| SRQS Deal Notification                            | ETI Gateway | TradeCaptureReport         | AE           |
| SRQS Negotiation Status Notification              | ETI Gateway | QuoteStatusReport          | Al           |
| SRQS Negotiation Notification for Respondent      | ETI Gateway | QuoteStatusReport          | AI           |
| SRQS Status Notification                          | ETI Gateway | QuoteStatusReport          | Al           |

# 4.9 TES Trading

| ETI Message                 | Sender      | FIX Message           | MsgType (35) |
|-----------------------------|-------------|-----------------------|--------------|
| Enter TES Trade Request     | Participant | TradeCaptureReport    | AE           |
| TES Response                | ETI Gateway | TradeCaptureReportAck | AR           |
| TES Broadcast               | ETI Gateway | TradeCaptureReport    | AE           |
| Modify TES Trade Request    | Participant | TradeCaptureReport    | AE           |
| Delete TES Trade Request    | Participant | TradeCaptureReport    | AE           |
| Delete TES Trade Broadcast  | ETI Gateway | TradeCaptureReport    | AE           |
| Approve TES Trade Request   | Participant | TradeCaptureReport    | AE           |
| Approve TES Trade Broadcast | ETI Gateway | TradeCaptureReport    | AE           |
| TES Status Broadcast        | ETI Gateway | TradingSessionStatus  | h            |

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| ETI Message                        | Sender      | FIX Message           | MsgType (35) |
|------------------------------------|-------------|-----------------------|--------------|
| TES Execution Broadcast            | ETI Gateway | TradeCaptureReport    | AE           |
| TES Trade Broadcast                | ETI Gateway | TradeCaptureReport    | AE           |
| Reverse TES Trade Request          | Participant | TradeCaptureReport    | AE           |
| Approve Reverse TES Trade Request  | Participant | TradeCaptureReport    | AE           |
| TES Reversal Broadcast             | ETI Gateway | TradeCaptureReport    | AE           |
| TES Compression Run Status Request | Participant | TradeCaptureReport    | AE           |
| TES Compression Run Status         | ETI Cara    | TradeCaptureReportAck | AR           |
| Response                           | ETI Gateway |                       |              |
| TES Compression Run Status         | ETI Gateway | TradeCaptureReport    | AF           |
| Broadcast                          |             |                       | ΛL.          |
| Upload TES Trade Request           | Participant | TradeCaptureReport    | AE           |
| TES Trade Upload Broadcast         | ETI Gateway | TradeCaptureReport    | AE           |

# 4.10 Basket Trading

| ETI Message                  | Sender      | FIX Message         | MsgType (35) |
|------------------------------|-------------|---------------------|--------------|
| Enter Basket Trade Request   | Participant | TradeMatchReport    | DC           |
| Basket Trading Response      | ETI Gateway | TradeMatchReportAck | DD           |
| Basket Trading Broadcast     | ETI Gateway | TradeMatchReport    | DC           |
| Approve Basket Broadcast     | ETI Gateway | TradeMatchReport    | DC           |
| Approve Basket Trade Request | Participant | TradeMatchReport    | DC           |
| Basket Execution Broadcast   | ETI Gateway | TradeMatchReport    | DC           |
| Modify Basket Trade Request  | Participant | TradeMatchReport    | DC           |
| Delete Basket Trade Request  | Participant | TradeMatchReport    | DC           |
| Delete Basket Broadcast      | ETI Gateway | TradeMatchReport    | DC           |
| Amend Basket Trade Request   | Participant | TradeMatchReport    | DC           |

# 4.11 Other

| ETI Message                     | Sender      | FIX Message                       | MsgType (35) |
|---------------------------------|-------------|-----------------------------------|--------------|
| Trade Notification              | ETI Gateway | TradeCaptureReport                | AE           |
| Inquire Margin Based Risk Limit | Dantiainant | PartyRiskLimitsRequest            | CL           |
| Request                         | Participant |                                   |              |
| Inquire Margin Based Risk Limit | ETI Gateway | PartyRiskLimitsReport             | СМ           |
| Response                        |             |                                   |              |
| Status Broadcast                | ETI Gateway | TradingSessionStatus              | h            |
| Trade Notification Status       | ETI Gateway | TradingSessionStatus              | h            |
| Update Remaining Risk Allowance | Participant | PartyRiskLimitsDefinitionRequest  | CS           |
| Base Request                    | Farticipant | r artyrviskeimitsDeimitiomvequest | C3           |
| Update Remaining Risk Allowance | ETI Gateway | PartyRiskLimitsDefinitionRequest- | СТ           |
| Base Response                   | LII Galeway | Ack                               |              |

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| ETI Message                           | Sender      | FIX Message                   | MsgType (35) |
|---------------------------------------|-------------|-------------------------------|--------------|
| Trading Session Event                 | ETI Gateway | TradingSessionStatus          | h            |
| Mass Cancellation Event               | ETI Gateway | OrderMassActionReport         | BZ           |
| Pre-Trade Risk Limits Definition      | Dt          | PartyRiskLimitsRequest        | CL           |
| Request                               | Participant |                               | CL           |
| Pre-Trade Risk Limit Response         | ETI Gateway | PartyRiskLimitsReport         | СМ           |
| Inquire Pre-Trade Risk Limits Request | Participant | PartyRiskLimitsRequest        | CL           |
| Service Availability                  | ETI Gateway | UserNotification              | СВ           |
| Service Availability Market           | ETI Gateway | UserNotification              | СВ           |
| News                                  | ETI Gateway | News                          | В            |
| Entitlement Notification              | ETI Gateway | PartyEntitlementsUpdateReport | CZ           |
| Party Action Report                   | ETI Gateway | PartyActionReport             | DI           |
| Risk Notification                     | ETI Gateway | PartyRiskLimitsUpdateReport   | CR           |
| Ping Request                          | Participant | TestRequest                   | 1            |
| Ping Response                         | ETI Gateway | Heartbeat                     | 0            |
| Gap Fill                              | ETI Gateway | ApplicationMessageReport      | BY           |

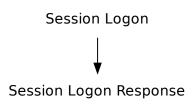
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# 5 Session Layer

### 5.1 Session Logon

This message must be the first message sent by the participant to the assigned gateway authenticating the T7 ETI session. Password change is not supported. For more details, please refer to the ETI Manual, chapters Session Authentication and Logon.



| Tag   | Field Name          | Req'd | Len | Ofs | Data Type      | Description                              |
|---|---------------------|-------|-----|-----|----------------|--|
| < Messa   | geHeaderIn>         |       |     |     |                |  |
| 9   | BodyLen             | Υ     | 4   | 0   | unsigned int   | Number of bytes for the message, in-     |
|   |                     |       |     |     |                | cluding this field.                      |
| 28500   | TemplateID          | Υ     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-      |
|   |                     |       |     |     |                | sage layout. Value: 10000 (Logon,        |
|   |                     |       |     |     |                | MsgType = A)                             |
| 25028   | NetworkMsgID        | U     | 8   | 6   | Fixed String   | not used                                 |
| 39020   | Pad2                | U     | 2   | 14  | Fixed String   | not used                                 |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>           |       |     |     |                |  |
| 34  | MsgSeqNum           | Υ     | 4   | 16  | unsigned int   | Must be set to 1.                        |
| 50  | SenderSubID         | U     | 4   | 20  | unsigned int   | not used                                 |
| < Messa   | geBody>             |       |     |     |                |  |
| 108   | HeartBtInt          | N     | 4   | 24  | unsigned int   | Heartbeat (in milliseconds) interval 0   |
|   |                     |       |     |     |                | = gateway will not take any action       |
|   |                     |       |     |     |                | for skipped heartbeats (only allowed     |
|   |                     |       |     |     |                | for non-production environments) not     |
|   |                     |       |     |     |                | set: gateway will define interval        |
| 20055   | PartyIDSessionID    | Υ     | 4   | 28  | unsigned int   | Session ID                               |
| 1408  | DefaultCstmApplVer- | Y     | 30  | 32  | Fixed String   | Indicates the ETI interface version the  |
| 1400  | ID                  | '     | 30  | 32  | (0-terminable) | participant application uses. The inter- |
|   |                     |       |     |     | (o terrimable) | face version can be found in XML and     |
|   |                     |       |     |     |                | C-Header files.                          |
|   |                     |       |     |     |                | Valid characters: \x20, \x22-\x7B,       |
|   |                     |       |     |     |                | \x7D, \x7E                               |
|   |                     |       |     |     |                | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\   |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type      | Description                                 |
|-------|-----------------------|-------|-----|-----|----------------|---|
| 554   | Password              | Υ     | 32  | 62  | Fixed String   | not encrypted                               |
|       |                       |       |     |     | (0-terminable) | Valid characters: 0-9, A-Z, a-z, \x21,      |
|       |                       |       |     |     |                | \x23, \x24, \x25, \x26, \x2A, \x2B,         |
|       |                       |       |     |     |                | \x2D, \x2F, \x3D, \x40, \x5F                |
| 25012 | ApplUsageOrders       | Y     | 1   | 94  | char           | Participant application: type of order      |
|       |                       |       |     |     |                | processing.                                 |
|       |                       |       |     |     |                | Value Description                           |
|       |                       |       |     |     |                | A Automated                                 |
|       |                       |       |     |     |                | M Manual                                    |
|       |                       |       |     |     |                | Both (Automated and Man-                    |
|       |                       |       |     |     |                | ual)  |
|       |                       |       |     |     |                | N None                                      |
| 05010 |                       |       |     | 0.5 |                |   |
| 25013 | ApplUsageQuotes       | Y     | 1   | 95  | char           | Participant application: type of quote      |
|       |                       |       |     |     |                | processing.                                 |
|       |                       |       |     |     |                | Value Description                           |
|       |                       |       |     |     |                | A Automated                                 |
|       |                       |       |     |     |                | M Manual                                    |
|       |                       |       |     |     |                | Both (Automated and Man-                    |
|       |                       |       |     |     |                | ual)  |
|       |                       |       |     |     |                | N None                                      |
| 25014 | OrderRoutingIndicator | Y     | 1   | 96  | char           | Indicates if the participant application    |
| 20011 | Orderroatingmateator  | •     | -   |     | Cital          | is an order routing system.                 |
|       |                       |       |     |     |                | Value Description                           |
|       |                       |       |     |     |                | Y Yes                                       |
|       |                       |       |     |     |                | N No  |
|       |                       |       |     |     |                | IN INO                                      |
| 1600  | FIXEngineName         | N     | 30  | 97  | Fixed String   | Provides the name of the infras-            |
|       |                       |       |     |     | (0-terminable) | tructure component being used for           |
|       |                       |       |     |     |                | session level communication.Normally        |
|       |                       |       |     |     |                | this would be the FIX Engine or FIX         |
|       |                       |       |     |     |                | Gateway product name.                       |
|       |                       |       |     |     |                | Valid characters: \x20, \x22-\x7B,          |
|       |                       |       |     |     |                | \x7D, \x7E                                  |
| 1601  | FIXEngineVersion      | N     | 30  | 127 | Fixed String   | Provides the version of the FIX infras-     |
|       |                       |       |     |     | (0-terminable) | tructure component.                         |
|       |                       |       |     |     |                | Valid characters: $\x 20$ , $\x 22-\x 7B$ , |
|       |                       |       |     |     |                | \x7D, \x7E                                  |

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| Tag   | Field Name         | Req'd    | Len | Ofs | Data Type      | Description                              |
|-------|--------------------|----------|-----|-----|----------------|--|
| 1602  | FIXEngineVendor    | N        | 30  | 157 | Fixed String   | Provides the name of the vendor pro-     |
|       |                    |          |     |     | (0-terminable) | viding the FIX infrastructure compo-     |
|       |                    |          |     |     |                | nent.                                    |
|       |                    |          |     |     |                | Valid characters: $\x20$ , $\x22-\x7B$ , |
|       |                    |          |     |     |                | \x7D, \x7E                               |
| 1603  | ApplicationSystem- | Y        | 30  | 187 | Fixed String   | Provides the name of the applica-        |
|       | Name               |          |     |     | (0-terminable) | tion system being used to generate       |
|       |                    |          |     |     | ,              | T7 ETI application messages. This will   |
|       |                    |          |     |     |                | normally be a trading system, OMS,       |
|       |                    |          |     |     |                | or EMS.                                  |
|       |                    |          |     |     |                | Valid characters: $\x20$ , $\x22-\x7B$ , |
|       |                    |          |     |     |                | \x7D, \x7E                               |
| 1604  | ApplicationSystem- | Y        | 30  | 217 | Fixed String   | Provides the version of the application  |
|       | Version            |          |     |     | (0-terminable) | system being used to initiate T7 ETI     |
|       |                    |          |     |     | ,              | application messages.                    |
|       |                    |          |     |     |                | Valid characters: \x20, \x22-\x7B,       |
|       |                    |          |     |     |                | \x7D, \x7E                               |
| 1605  | ApplicationSystem- | Υ        | 30  | 247 | Fixed String   | Provides the vendor of the appli-        |
| 1003  | Vendor             | <u> </u> | 30  | 211 | (0-terminable) | cation system as the 5-letter EU-        |
|       |                    |          |     |     | (5 55          | REX/XETRA Member ID.                     |
|       |                    |          |     |     |                | Valid characters: \x20, \x22-\x7B,       |
|       |                    |          |     |     |                | \x7D, \x7E                               |
| 39030 | Pad3               | U        | 3   | 277 | Fixed String   | not used                                 |

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# 5.2 Session Logon (Password encrypted)

ETI session logon with encrypted password. Password change is not supported. For more details, please refer to the ETI Manual, chapters Session Authentication and Logon.

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type      | Description                            |
|---|---------------------|-------|-----|-----|----------------|--|
| <messa< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderIn>         |       |     |     |                |  |
| 9   | BodyLen             | Υ     | 4   | 0   | unsigned int   | Number of bytes for the message, in-   |
|   |                     |       |     |     |                | cluding this field.                    |
| 28500   | TemplateID          | Υ     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-    |
|   |                     |       |     |     |                | sage layout. Value: 19000 (Logon,      |
|   |                     |       |     |     |                | MsgType = A)                           |
|   | NetworkMsgID        | U     | 8   | 6   | Fixed String   | not used                               |
| 39020   |                     | U     | 2   | 14  | Fixed String   | not used                               |
| < Reque   | stHeader>           |       |     |     |                |  |
| 34  | MsgSeqNum           | Y     | 4   | 16  | unsigned int   | Message sequence number used by the    |
|   |                     |       |     |     |                | participant for requests sent to the   |
|   |                     |       |     |     |                | gateway.                               |
| 50  | SenderSubID         | U     | 4   | 20  | unsigned int   | not used                               |
|   | geBody>             |       |     |     |                |  |
| 108   | HeartBtInt          | N     | 4   | 24  | unsigned int   | Heartbeat (in milliseconds) interval 0 |
|   |                     |       |     |     |                | = gateway will not take any action     |
|   |                     |       |     |     |                | for skipped heartbeats (only allowed   |
|   |                     |       |     |     |                | for non-production environments) not   |
|   |                     |       |     |     |                | set: gateway will define interval      |
| 20055   | ,                   | Y     | 4   | 28  | unsigned int   | Session ID                             |
| 1408  | DefaultCstmApplVer- | Υ     | 30  | 32  | Fixed String   | Indicates the T7 ETI interface version |
|   | ID                  |       |     |     | (0-terminable) | the ETI gateway software uses.         |
|   |                     |       |     |     |                | Valid characters: \x20, \x22-\x7B,     |
|   |                     |       |     |     |                | \x7D, \x7E                             |
| 1402  | EncryptedPassword   | Υ     | 684 | 62  | Fixed String   | Encrypted password.                    |
|   |                     |       |     |     |                | Valid characters: A-Z, a-z, 0-9, \x2B, |
|   |                     |       |     |     |                | \x2F, \x3D                             |
| 25012   | ApplUsageOrders     | Υ     | 1   | 746 | char           | Participant application: type of order |
|   |                     |       |     |     |                | processing.                            |
|   |                     |       |     |     |                | Value Description                      |
|   |                     |       |     |     |                | A Automated                            |
|   |                     |       |     |     |                | M Manual                               |
|   |                     |       |     |     |                | Both (Automated and Man-               |
|   |                     |       |     |     |                | B ual)                                 |
|   |                     |       |     |     |                | N None                                 |
|   |                     |       |     |     |                |  |

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| Tag   | Field Name                              | Req'd | Len | Ofs | Data Type      | Description                                   |
|-------|---|-------|-----|-----|----------------|---|
| 25013 | ApplUsageQuotes                         | Y     | 1   | 747 | char           | Participant application: type of quote        |
|       |   |       |     |     |                | processing.                                   |
|       |   |       |     |     |                | Value Description                             |
|       |   |       |     |     |                | A Automated                                   |
|       |   |       |     |     |                | M Manual                                      |
|       |   |       |     |     |                | Both (Automated and Man-                      |
|       |   |       |     |     |                | N None  |
| 25014 | OrderRoutingIndicator                   | Y     | 1   | 748 | char           | Indicates if the participant application      |
|       | o a a a a a a a a a a a a a a a a a a a | -     | _   |     |                | is an order routing system.                   |
|       |   |       |     |     |                | Value Description                             |
|       |   |       |     |     |                | Y Yes   |
|       |   |       |     |     |                | N No  |
| 1600  | FIXEngineName                           | N     | 30  | 749 | Fixed String   | Provides the name of the infras-              |
|       | 0                                       |       |     |     | (0-terminable) | tructure component being used for             |
|       |   |       |     |     | ,              | session level communication.Normally          |
|       |   |       |     |     |                | this would be the FIX Engine or FIX           |
|       |   |       |     |     |                | Gateway product name.                         |
|       |   |       |     |     |                | Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 1601  | FIXEngineVersion                        | N     | 30  | 779 | Fixed String   | Provides the version of the FIX infras-       |
|       | 0                                       |       |     |     | (0-terminable) | tructure component.                           |
|       |   |       |     |     | ,              | Valid characters: \x20, \x22-\x7B,            |
|       |   |       |     |     |                | \x7D, \x7E                                    |
| 1602  | FIXEngineVendor                         | N     | 30  | 809 | Fixed String   | Provides the name of the vendor pro-          |
|       |   |       |     |     | (0-terminable) | viding the FIX infrastructure compo-          |
|       |   |       |     |     |                | nent.   |
|       |   |       |     |     |                | Valid characters: \x20, \x22-\x7B,            |
|       | A 1: .: C                               |       |     |     |                | \x7D, \x7E                                    |
| 1603  | ApplicationSystem-                      | Y     | 30  | 839 | Fixed String   | Provides the name of the applica-             |
|       | Name                                    |       |     |     | (0-terminable) | tion system being used to generate            |
|       |   |       |     |     |                | T7 ETI application messages. This will        |
|       |   |       |     |     |                | normally be a trading system, OMS,            |
|       |   |       |     |     |                | or EMS.                                       |
|       |   |       |     |     |                | Valid characters: \x20, \x22-\x7B,            |
|       |   |       |     |     |                | \x7D, \x7E                                    |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type                      | Description   |
|-------|-------------------------------|-------|-----|-----|--------------------------------|---|
| 1604  | ApplicationSystem-<br>Version | Y     | 30  | 869 | Fixed String<br>(0-terminable) | Provides the version of the application system being used to initiate T7 ETI application messages.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 1605  | ApplicationSystem-<br>Vendor  | Y     | 30  | 899 | Fixed String<br>(0-terminable) | Provides the vendor of the application system as the 5-letter EU-REX/XETRA Member ID.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E              |
| 39070 | Pad7                          | U     | 7   | 929 | Fixed String                   | not used  |

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# 5.3 Session Logon Response

This message confirms the Session Logon request. For more details, please refer to the ETI Manual, chapters Session Authentication and Logon.

| Tag  | Field Name                   | Req'd | Len | Ofs | Data Type    | Description  |
|--|------------------------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderOut>                 |       |     |     |              |  |
| 9  | BodyLen                      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.   |
| 28500  | TemplateID                   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10001 (Logon, $MsgType = A$ )  |
| 39020  | Pad2                         | U     | 2   | 6   | Fixed String | not used   |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<>   | nseHeader>                   |       |     |     |              |  |
| 5979   | RequestTime                  | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.  |
| 52   | SendingTime                  | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by the gateway   |
| 34   | MsgSeqNum                    | Y     | 4   | 24  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.  |
| 39040  | Pad4                         | U     | 4   | 28  | Fixed String | not used   |
| < Messa  | geBody>                      |       |     |     |              |  |
| 1614   | ThrottleTimeInterval         | Y     | 8   | 32  | signed int   | Throttle time interval in number of milliseconds; applicable for transaction limit.  |
| 1613   | ThrottleNoMsgs               | Y     | 4   | 40  | unsigned int | Transaction limit per ThrottleTime-Interval (1614). If set to 0, throttling will be switched off.                                      |
| 25002  | ThrottleDisconnect-<br>Limit | Y     | 4   | 44  | unsigned int | Disconnect limit: maximum number of sequential message rejects due to throttle violation allowed by the T7 ETI.                        |
| 108  | HeartBtInt                   | Y     | 4   | 48  | unsigned int | Actual heartbeat interval (in milliseconds), gateway overrides out of range value or sets to default if logon omits the field          |
| 25004  | SessionInstanceID            | Y     | 4   | 52  | unsigned int | Unique ID for the session instance assigned by the T7 system during session logon; to be communicated to helpdesk for troubleshooting. |
| 25243  | LatestPublicKeySeq-<br>No    | N     | 4   | 56  | unsigned int | Sequence number of current public key.   |
| 25242  | PublicKeyLen                 | N     | 2   | 60  | unsigned int | Byte length of the public key.   |

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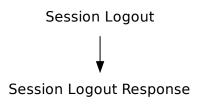
| Tag   | Field Name                   | Req'd    | Len | Ofs | Data Type                      | Description  |
|-------|------------------------------|----------|-----|-----|--------------------------------|--|
| 1301  | MarketID                     | Υ        | 2   | 62  | unsigned int                   | Market ID.   |
|       |                              |          |     |     |                                | Value Description  |
|       |                              |          |     |     |                                | 1 XEUR   |
|       |                              |          |     |     |                                | 2 XEEE   |
|       |                              |          |     |     |                                | 12 NODX  |
|       |                              |          |     |     |                                | * More values  |
| 339   | TradSesMode                  | Y        | 1   | 64  | unsigned int                   | Environment Type   |
| 339   | TradSesiviode                | <b>'</b> |     | 04  | unsigned int                   |  |
|       |                              |          |     |     |                                | Value Description  |
|       |                              |          |     |     |                                | 1 Development  |
|       |                              |          |     |     |                                | 2 Simulation   |
|       |                              |          |     |     |                                | 3 Production   |
|       |                              |          |     |     |                                | 4 Acceptance   |
|       |                              |          |     |     |                                | 5 Disaster Recovery  |
| 1408  | DefaultCstmApplVer-ID        | Y        | 30  | 65  | Fixed String<br>(0-terminable) | Indicates the T7 ETI interface version the ETI gateway software uses.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 28763 | DefaultCstmAppIVer-<br>SubID | Y        | 5   | 95  | Fixed String                   | ETI subversion. Identifies ETI changes within one ETI version.   |
|       |                              |          |     |     |                                | Value Description  |
|       |                              |          |     |     |                                | D0003 Derivatives subversion   |
|       |                              |          |     |     |                                |  |
| 25233 | PublicKey                    | N        | 814 | 100 | Variable String                | Public key. Length is defined by field   |
|       |                              |          |     |     |                                | PublicKeyLen.  |
|       |                              |          |     |     |                                | Valid characters: A-Z, a-z, 0-9, \x2B,   |
| 20063 | D 16                         |          |     |     | F: 1.C. :                      | \x2F, \x3D, \x2D, \x20, \x0A, \x0D   |
| 39060 | Pad6                         | U        | 6   | 0   | Fixed String                   | not used   |

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## 5.4 Session Logout

Session Logout request. For more details, please refer to the ETI Manual, chapter Logout.



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |                                      |  |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                  |  |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10002 (Logout,   |  |  |  |  |  |
|   |                                     |       |     |     |              | MsgType = 5)                         |  |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                             |  |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                             |  |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |                                      |  |  |  |  |  |
| 34  | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |  |  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the |  |  |  |  |  |
|   |                                     |       |     |     |              | gateway.                             |  |  |  |  |  |
| 50  | SenderSubID                         | U     | 4   | 20  | unsigned int | not used                             |  |  |  |  |  |

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# 5.5 Session Logout Response

This message confirms the Session Logout request. For more details, please refer to the ETI Manual, chapter Logout.

| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description                          |
|--|--------------|-------|-----|-----|--------------|--------------------------------------|
| <messa,< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderOut> |       |     |     |              |                                      |
| 9  | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|  |              |       |     |     |              | cluding this field.                  |
| 28500  | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|  |              |       |     |     |              | sage layout. Value: 10003 (Logout,   |
|  |              |       |     |     |              | MsgType = 5)                         |
| 39020  | Pad2         | U     | 2   | 6   | Fixed String | not used                             |
| < Respo  | nseHeader>   |       | ,   |     |              |                                      |
| 5979   | RequestTime  | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.        |
| 52   | SendingTime  | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by |
|  |              |       |     |     |              | the gateway                          |
| 34   | MsgSeqNum    | Y     | 4   | 24  | unsigned int | Message sequence number used by the  |
|  |              |       |     |     |              | participant for requests sent to the |
|  |              |       |     |     |              | gateway.                             |
| 39040  | Pad4         | U     | 4   | 28  | Fixed String | not used                             |

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# 5.6 Session Logout Notification

The Session Logout Notification message is used to inform about an unsolicited session logout triggered by the operator of the T7 system or by the T7 system itself. For more details, please refer to the ETI Manual, chapter Logout.

| Tag   | Field Name   | Req'd | Len  | Ofs | Data Type       | Description                            |
|---|--------------|-------|------|-----|-----------------|--|
| < Messa   | geHeaderOut> |       |      |     |                 |  |
| 9   | BodyLen      | Υ     | 4    | 0   | unsigned int    | Number of bytes for the message, in-   |
|   |              |       |      |     |                 | cluding this field.                    |
| 28500   | TemplateID   | Υ     | 2    | 4   | unsigned int    | Unique identifier for a T7 ETI mes-    |
|   |              |       |      |     |                 | sage layout. Value: 10012 (Logout,     |
|   |              |       |      |     |                 | MsgType = 5)                           |
| 39020   | Pad2         | U     | 2    | 6   | Fixed String    | not used                               |
| <notifh< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></notifh<> | leader>      |       |      |     |                 |  |
| 52  | SendingTime  | Υ     | 8    | 8   | UTCTimestamp    | Outgoing timestamp; filled always by   |
|   |              |       |      |     |                 | the gateway                            |
| < Messa   | geBody>      |       |      |     |                 |  |
| 30354   | VarTextLen   | Υ     | 2    | 16  | Counter         | Number of used bytes for field VarText |
|   |              |       |      |     |                 | (30355).                               |
| 39060   | Pad6         | U     | 6    | 18  | Fixed String    | not used                               |
| 30355   | VarText      | Υ     | 2000 | 24  | Variable String | Error text.                            |
|   |              |       |      |     |                 | Valid characters: \x09, \x0A, \x0D,    |
|   |              |       |      |     |                 | \x20-\x7B, \x7D, \x7E                  |

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### 5.7 Heartbeat

The Heartbeat message is used by the T7 ETI gateway to monitor the status of the communication link to the ETI client during periods of inactivity. For more details, please refer to the ETI Manual, chapter Heartbeat.

| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                          |
|---------|--------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa | geHeaderIn>  |       |     |     |              |                                      |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|         |              |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|         |              |       |     |     |              | sage layout. Value: 10011 (Heart-    |
|         |              |       |     |     |              | beat,MsgType=0)                      |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                             |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                             |

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### 5.8 Heartbeat Notification

The Heartbeat notification may be used by the ETI client to monitor the status of the communication link to the T7 ETI gateway during periods of inactivity. For more details, please refer to the ETI Manual, chapter Heartbeat.

| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                          |
|---|--------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa   | geHeaderOut> |       |     |     |              |                                      |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|   |              |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|   |              |       |     |     |              | sage layout. Value: 10023 (Heart-    |
|   |              |       |     |     |              | beat,MsgType=0)                      |
| 39020   | Pad2         | U     | 2   | 6   | Fixed String | not used                             |
| <notifh< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></notifh<> | leader>      |       |     |     |              |                                      |
| 52  | SendingTime  | Υ     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by |
|   |              |       |     |     |              | the gateway                          |

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# 5.9 Legal Notification

This message informs about the suspension from trading. For more details, please refer to the ETI Manual, chapter Risk Control.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|
| <messa<sub>k</messa<sub>  | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10037 (User-       |  |  |
|   |                                       |       |     |     |              | Notification, MsgType = CB)            |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                               |       |     |     |              |  |  |  |
| 52  | SendingTime                           | Υ     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |
|   |                                       |       |     |     |              | the gateway                            |  |  |
| 1181  | ApplSeqNum                            | Υ     | 8   | 16  | unsigned int | Application sequence number as-        |  |  |
|   |                                       |       |     |     |              | signed to a non-order related T7 ETI   |  |  |
|   |                                       |       |     |     |              | data stream.                           |  |  |
| 28727   | ApplSubID                             | U     | 4   | 24  | unsigned int | not used                               |  |  |
| 5948  | PartitionID                           | Y     | 2   | 28  | unsigned int | Grouping of T7 products.               |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail- |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.       |  |  |
| 1352  | ApplResendFlag                        | Υ     | 1   | 30  | unsigned int | Indicates a retransmission message.    |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 0 False                                |  |  |
|   |                                       |       |     |     |              | 1 True                                 |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 6 Risk Control                         |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 33  | Fixed String | not used                               |  |  |
| <messa<sub>{</messa<sub>  | geBody>                               |       |     |     |              |  |  |  |
| 60  | TransactTime                          | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                 |  |  |
| 30354   | VarTextLen                            | Y     | 2   | 48  | Counter      | Number of used bytes for field VarText |  |  |
|   |                                       |       |     |     |              | (30355).                               |  |  |

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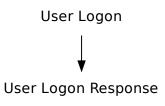
| Tag   | Field Name | Req'd | Len  | Ofs | Data Type       | Description   |
|-------|------------|-------|------|-----|-----------------|---|
| 926   | UserStatus | Υ     | 1    | 50  | unsigned int    | The status of the User  |
|       |            |       |      |     |                 | Value Description   |
|       |            |       |      |     |                 | Admission to trading sus-   |
|       |            |       |      |     |                 | pended  |
|       |            |       |      |     |                 | 11 Suspension revoked   |
|       |            |       |      |     |                 |   |
| 39050 | Pad5       | U     | 5    | 51  | Fixed String    | not used  |
| 30355 | VarText    | Υ     | 2000 | 56  | Variable String | Error text.   |
|       |            |       |      |     |                 | Valid characters: $\xspace \times 09$ , $\xspace \times 00$ , $\xspace \times 00$ , |
|       |            |       |      |     |                 | \x20-\x7B, \x7D, \x7E   |

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# 5.10 User Logon

Each user needs to logon to T7 via the User Logon message. For more details, please refer to the ETI Manual, chapter User Authentication.



| Tag                                 | Field Name   | Req'd | Len | Ofs | Data Type      | Description                            |  |  |  |
|-------------------------------------|--------------|-------|-----|-----|----------------|--|--|--|--|
| <messageheaderin></messageheaderin> |              |       |     |     |                |  |  |  |  |
| 9                                   | BodyLen      | Y     | 4   | 0   | unsigned int   | Number of bytes for the message, in-   |  |  |  |
|                                     |              |       |     |     |                | cluding this field.                    |  |  |  |
| 28500                               | TemplateID   | Υ     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-    |  |  |  |
|                                     |              |       |     |     |                | sage layout. Value: 10018 (User-       |  |  |  |
|                                     |              |       |     |     |                | Request, $MsgType = BE$ )              |  |  |  |
| 25028                               | NetworkMsgID | U     | 8   | 6   | Fixed String   | not used                               |  |  |  |
| 39020                               | Pad2         | U     | 2   | 14  | Fixed String   | not used                               |  |  |  |
| <requestheader></requestheader>     |              |       |     |     |                |  |  |  |  |
| 34                                  | MsgSeqNum    | Y     | 4   | 16  | unsigned int   | Message sequence number used by the    |  |  |  |
|                                     |              |       |     |     |                | participant for requests sent to the   |  |  |  |
|                                     |              |       |     |     |                | gateway.                               |  |  |  |
| 50                                  | SenderSubID  | U     | 4   | 20  | unsigned int   | not used                               |  |  |  |
| <messagebody></messagebody>         |              |       |     |     |                |  |  |  |  |
| 553                                 | Username     | Y     | 4   | 24  | unsigned int   | The trader ID                          |  |  |  |
| 554                                 | Password     | Y     | 32  | 28  | Fixed String   | not encrypted                          |  |  |  |
|                                     |              |       |     |     | (0-terminable) | Valid characters: 0-9, A-Z, a-z, \x21, |  |  |  |
|                                     |              |       |     |     |                | \x23, \x24, \x25, \x26, \x2A, \x2B,    |  |  |  |
|                                     |              |       |     |     |                | \x2D, \x2F, \x3D, \x40, \x5F           |  |  |  |
| 39040                               | Pad4         | U     | 4   | 60  | Fixed String   | not used                               |  |  |  |

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# 5.11 User Logon (Password encrypted)

| Tag                                 | Field Name        | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |
|-------------------------------------|-------------------|-------|-----|-----|--------------|--|--|--|--|
| <messageheaderin></messageheaderin> |                   |       |     |     |              |  |  |  |  |
| 9                                   | BodyLen           | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |
|                                     |                   |       |     |     |              | cluding this field.                    |  |  |  |
| 28500                               | TemplateID        | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |
|                                     |                   |       |     |     |              | sage layout. Value: 19018 (User-       |  |  |  |
|                                     |                   |       |     |     |              | ${\sf Request,\ MsgType} = {\sf BE)}$  |  |  |  |
| 25028                               | NetworkMsgID      | U     | 8   | 6   | Fixed String | not used                               |  |  |  |
| 39020                               | Pad2              | U     | 2   | 14  | Fixed String | not used                               |  |  |  |
| <requestheader></requestheader>     |                   |       |     |     |              |  |  |  |  |
| 34                                  | MsgSeqNum         | Y     | 4   | 16  | unsigned int | Message sequence number used by the    |  |  |  |
|                                     |                   |       |     |     |              | participant for requests sent to the   |  |  |  |
|                                     |                   |       |     |     |              | gateway.                               |  |  |  |
| 50                                  | SenderSubID       | U     | 4   | 20  | unsigned int | not used                               |  |  |  |
| <messagebody></messagebody>         |                   |       |     |     |              |  |  |  |  |
| 553                                 | Username          | Υ     | 4   | 24  | unsigned int | The trader ID                          |  |  |  |
| 1402                                | EncryptedPassword | Υ     | 684 | 28  | Fixed String | Encrypted password.                    |  |  |  |
|                                     |                   |       |     |     |              | Valid characters: A-Z, a-z, 0-9, \x2B, |  |  |  |
|                                     |                   |       |     |     |              | \x2F, \x3D                             |  |  |  |

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# 5.12 User Logon Response

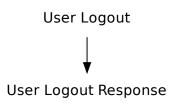
The User Logon Response message is used to confirm a user logon. For more details, please refer to the ETI Manual, chapter User Authentication.

| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                  |
|--|--------------|-------|-----|-----|--------------|--|
| <messa,< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderOut> |       |     |     |              |  |
| 9  | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-         |
|  |              |       |     |     |              | cluding this field.                          |
| 28500  | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-          |
|  |              |       |     |     |              | sage layout. Value: 10019 (User-             |
|  |              |       |     |     |              | ${\sf Response},\ {\sf MsgType} = {\sf BF})$ |
| 39020  | Pad2         | U     | 2   | 6   | Fixed String | not used                                     |
| < Respo  | nseHeader>   |       |     |     |              |  |
| 5979   | RequestTime  | Υ     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.                |
| 52   | SendingTime  | Υ     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by         |
|  |              |       |     |     |              | the gateway                                  |
| 34   | MsgSeqNum    | Υ     | 4   | 24  | unsigned int | Message sequence number used by the          |
|  |              |       |     |     |              | participant for requests sent to the         |
|  |              |       |     |     |              | gateway.                                     |
| 39040  | Pad4         | U     | 4   | 28  | Fixed String | not used                                     |

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# 5.13 User Logout

Each user may logout from T7 via the User Logout message.



| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                          |
|---------|--------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa | geHeaderIn>  |       |     |     |              |                                      |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|         |              |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|         |              |       |     |     |              | sage layout. Value: 10029 (User-     |
|         |              |       |     |     |              | Request, $MsgType = BE$ )            |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                             |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                             |
| < Reque | stHeader>    |       |     |     |              |                                      |
| 34      | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |
|         |              |       |     |     |              | participant for requests sent to the |
|         |              |       |     |     |              | gateway.                             |
| 50      | SenderSubID  | U     | 4   | 20  | unsigned int | not used                             |
| < Messa | geBody>      |       |     |     |              |                                      |
| 553     | Username     | Y     | 4   | 24  | unsigned int | The trader ID                        |
| 39040   | Pad4         | U     | 4   | 28  | Fixed String | not used                             |

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# 5.14 User Logout Response

The User Logout Response message is used to confirm a user logout.

| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                            |
|---------|--------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderOut> |       |     |     |              |  |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|         |              |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|         |              |       |     |     |              | sage layout. Value: 10024 (User-       |
|         |              |       |     |     |              | ${\sf Response,\ MsgType} = {\sf BF)}$ |
| 39020   | Pad2         | U     | 2   | 6   | Fixed String | not used                               |
| < Respo | nseHeader>   |       |     |     |              |  |
| 5979    | RequestTime  | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.          |
| 52      | SendingTime  | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by   |
|         |              |       |     |     |              | the gateway                            |
| 34      | MsgSeqNum    | Υ     | 4   | 24  | unsigned int | Message sequence number used by the    |
|         |              |       |     |     |              | participant for requests sent to the   |
|         |              |       |     |     |              | gateway.                               |
| 39040   | Pad4         | U     | 4   | 28  | Fixed String | not used                               |

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## 5.15 User Logout Notification

The User Logout Notification message is used to confirm the forced logout of a user from the session that receives the message. The logout is performed by the exchange on behalf of the participant's request (for example via telephone).

| Tag  | Field Name   | Req'd | Len  | Ofs | Data Type       | Description   |
|--|--------------|-------|------|-----|-----------------|---|
| <messa< th=""><th>geHeaderOut&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<> | geHeaderOut> |       |      |     |                 |   |
| 9  | BodyLen      | Y     | 4    | 0   | unsigned int    | Number of bytes for the message, in-  |
| 28500  | TemplateID   | Y     | 2    | 4   | unsigned int    | cluding this field.  Unique identifier for a T7 ETI mes-                            |
| 20300  | remplaterD   | Į.    |      | 4   | unsigned int    | sage layout. Value: 10043 (Logout,  |
|  |              |       |      |     |                 | MsgType = 5)  |
| 39020  | Pad2         | U     | 2    | 6   | Fixed String    | not used  |
| <notifh< td=""><td>leader&gt;</td><td>•</td><td></td><td></td><td></td><td></td></notifh<>   | leader>      | •     |      |     |                 |   |
| 52   | SendingTime  | Υ     | 8    | 8   | UTCTimestamp    | Outgoing timestamp; filled always by  |
|  |              |       |      |     |                 | the gateway   |
| < Messa  | geBody>      |       |      |     |                 |   |
| 553  | Username     | Υ     | 4    | 16  | unsigned int    | The trader ID   |
| 30354  | VarTextLen   | Y     | 2    | 20  | Counter         | Number of used bytes for field VarText  |
|  |              |       |      |     |                 | (30355).  |
| 926  | UserStatus   | Y     | 1    | 22  | unsigned int    | The status of the User  |
|  |              |       |      |     |                 | Value Description   |
|  |              |       |      |     |                 | Forced user logout by ex-   |
|  |              |       |      |     |                 | change  |
|  |              |       |      |     |                 |   |
| 39000  | Pad1         | U     | 1    | 23  | Fixed String    | not used  |
| 30355  | VarText      | Y     | 2000 | 24  | Variable String | Error text.   |
|  |              |       |      |     |                 | Valid characters: $\xspace \times 09$ , $\xspace \times 0A$ , $\xspace \times 0D$ , |
|  |              |       |      |     |                 | \x20-\x7B, \x7D, \x7E   |

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# 5.16 Throttle Update Notification

This message informs about throttle parameters that have been updated intraday.

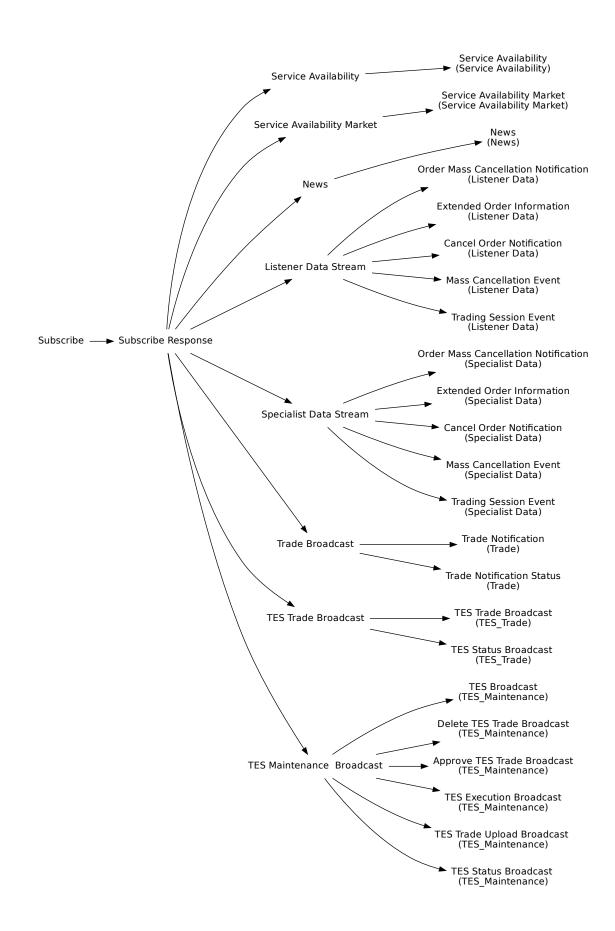
| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |
|---|----------------------|-------|-----|-----|--------------|--|--|--|--|
| <messageheaderout></messageheaderout>   |                      |       |     |     |              |  |  |  |  |
| 9   | BodyLen              | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |
|   |                      |       |     |     |              | cluding this field.                        |  |  |  |
| 28500   | TemplateID           | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |  |  |  |
|   |                      |       |     |     |              | sage layout. Value: 10028 (User-           |  |  |  |
|   |                      |       |     |     |              | ${\sf Notification,\ MsgType} = {\sf CB)}$ |  |  |  |
| 39020   | Pad2                 | U     | 2   | 6   | Fixed String | not used                                   |  |  |  |
| <notifh< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></notifh<> | leader>              |       |     |     |              |  |  |  |  |
| 52  | SendingTime          | Υ     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by       |  |  |  |
|   |                      |       |     |     |              | the gateway                                |  |  |  |
| < Messa   | geBody>              |       |     |     |              |  |  |  |  |
| 1614  | ThrottleTimeInterval | Y     | 8   | 16  | signed int   | Throttle time interval in number of        |  |  |  |
|   |                      |       |     |     |              | milliseconds; applicable for transac-      |  |  |  |
|   |                      |       |     |     |              | tion limit.                                |  |  |  |
| 1613  | ThrottleNoMsgs       | Y     | 4   | 24  | unsigned int | Transaction limit per ThrottleTime-        |  |  |  |
|   |                      |       |     |     |              | Interval (1614). If set to 0, throttling   |  |  |  |
|   |                      |       |     |     |              | will be switched off.                      |  |  |  |
| 25002   | ThrottleDisconnect-  | Y     | 4   | 28  | unsigned int | Disconnect limit: maximum number           |  |  |  |
| 23002   | Limit                | '     | •   | 0   | ansigned int | of sequential message rejects due to       |  |  |  |
|   |                      |       |     |     |              | throttle violation allowed by the T7       |  |  |  |
|   |                      |       |     |     |              | ETI.                                       |  |  |  |
|   |                      |       |     |     |              | LII.                                       |  |  |  |

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## 5.17 Subscribe

This message is used to subscribe to a T7 ETI broadcast. Multiple subscriptions to the same pair of RefApplId (1355) and SubscriptionScope (25001) are not allowed. For more details, please refer to the ETI Manual, chapter Broadcast.

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description  |
|---|-------------------|-------|-----|-----|--------------|--|
| <messa< th=""><th>geHeaderIn&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<> | geHeaderIn>       |       |     |     |              |  |
| 9   | BodyLen           | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.   |
| 28500   | TemplateID        | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10025 (ApplicationMessageRequest, Msg-Type = BW) |
| 25028   | NetworkMsgID      | U     | 8   | 6   | Fixed String | not used   |
| 39020   | Pad2              | U     | 2   | 14  | Fixed String | not used   |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<>   | stHeader>         |       |     |     |              |  |
| 34  | MsgSeqNum         | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |
|   |                   |       |     |     |              | participant for requests sent to the gateway.  |
| 50  | SenderSubID       | U     | 4   | 20  | unsigned int | not used   |
| < Messa   | geBody>           |       |     |     |              |  |
| 25001   | SubscriptionScope | N     | 4   | 24  | unsigned int | For filter criteria for broadcast sub-   |
|   |                   |       |     |     |              | scription see the ETI Manual, chapter Broadcast.   |
| 1355  | RefAppIID         | Y     | 1   | 28  | unsigned int | Application identifier of a T7 ETI data stream.  |
|   |                   |       |     |     |              | Value Description  |
|   |                   |       |     |     |              | 1 Trade  |
|   |                   |       |     |     |              | 2 News   |
|   |                   |       |     |     |              | 3 Service Availability   |
|   |                   |       |     |     |              | 5 Listener Data  |
|   |                   |       |     |     |              | 7 TES Maintenance  |
|   |                   |       |     |     |              | 8 TES Trade  |
|   |                   |       |     |     |              | 9 SRQS Maintenance   |
|   |                   |       |     |     |              | 10 Service Availability Market   |
| 39030   | Pad3              | U     | 3   | 29  | Fixed String | not used   |

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# 5.18 Subscribe Response

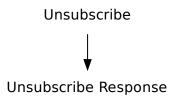
The Subscribe Broadcast Response message is used to confirm the broadcast subscription. For more details, please refer to the ETI Manual, chapter Broadcast.

| Tag  | Field Name                  | Req'd | Len | Ofs | Data Type    | Description                            |  |  |
|--|-----------------------------|-------|-----|-----|--------------|--|--|--|
| < Messa  | geHeaderOut>                |       |     |     |              |  |  |  |
| 9  | BodyLen                     | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |
|  |                             |       |     |     |              | cluding this field.                    |  |  |
| 28500  | TemplateID                  | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI         |  |  |
|  |                             |       |     |     |              | message layout. Value: 10005           |  |  |
|  |                             |       |     |     |              | (ApplicationMessageRequestAck,         |  |  |
|  |                             |       |     |     |              | MsgType = BX)                          |  |  |
| 39020  | Pad2                        | U     | 2   | 6   | Fixed String | not used                               |  |  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeader>                  |       |     |     |              |  |  |  |
| 5979   | RequestTime                 | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.          |  |  |
| 52   | SendingTime                 | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |
|  |                             |       |     |     |              | the gateway                            |  |  |
| 34   | MsgSeqNum                   | Y     | 4   | 24  | unsigned int | Message sequence number used by the    |  |  |
|  |                             |       |     |     |              | participant for requests sent to the   |  |  |
|  |                             |       |     |     |              | gateway.                               |  |  |
| 39040  | Pad4                        | U     | 4   | 28  | Fixed String | not used                               |  |  |
| < Messa  | <messagebody></messagebody> |       |     |     |              |  |  |  |
| 28727  | ApplSubID                   | Y     | 4   | 32  | unsigned int | Unique ID assigned by the T7 system    |  |  |
|  |                             |       |     |     |              | during broadcast subscription in order |  |  |
|  |                             |       |     |     |              | to link broadcasts to the related sub- |  |  |
|  |                             |       |     |     |              | scription.                             |  |  |
| 39040  | Pad4                        | U     | 4   | 36  | Fixed String | not used                               |  |  |

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## 5.19 Unsubscribe

This message is used to revoke a broadcast subscription.



| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description                           |
|--|--------------|-------|-----|-----|--------------|---------------------------------------|
| < Messa  | geHeaderIn>  |       |     |     |              |                                       |
| 9  | BodyLen      | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|  |              |       |     |     |              | cluding this field.                   |
| 28500  | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI        |
|  |              |       |     |     |              | message layout. Value: 10006          |
|  |              |       |     |     |              | (ApplicationMessageRequest, Msg-      |
|  |              |       |     |     |              | Type = BW)                            |
| 25028  | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                              |
| 39020  | Pad2         | U     | 2   | 14  | Fixed String | not used                              |
| <reque< td=""><td>stHeader&gt;</td><td></td><td>,</td><td></td><td></td><td></td></reque<> | stHeader>    |       | ,   |     |              |                                       |
| 34   | MsgSeqNum    | Υ     | 4   | 16  | unsigned int | Message sequence number used by the   |
|  |              |       |     |     |              | participant for requests sent to the  |
|  |              |       |     |     |              | gateway.                              |
| 50   | SenderSubID  | U     | 4   | 20  | unsigned int | not used                              |
| < Messa  | geBody>      |       |     |     |              |                                       |
| 28728  | RefApplSubID | Υ     | 4   | 24  | unsigned int | Unique ID for the subscription in-    |
|  |              |       |     |     |              | stance assigned by the T7 system dur- |
|  |              |       |     |     |              | ing broadcast subscription.           |
| 39040  | Pad4         | U     | 4   | 28  | Fixed String | not used                              |

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# 5.20 Unsubscribe Response

The Unsubscribe Broadcast Response message is used to confirm the revocation of a broadcast subscription.

| Tag   | Field Name                        | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |
|---|-----------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|
| < Messa   | geHeaderOut>                      |       |     |     |              |                                      |  |  |  |
| 9   | BodyLen                           | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |
|   |                                   |       |     |     |              | cluding this field.                  |  |  |  |
| 28500   | TemplateID                        | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI       |  |  |  |
|   |                                   |       |     |     |              | message layout. Value: 10007         |  |  |  |
|   |                                   |       |     |     |              | (ApplicationMessageRequestAck,       |  |  |  |
|   |                                   |       |     |     |              | MsgType = BX)                        |  |  |  |
| 39020   | Pad2                              | U     | 2   | 6   | Fixed String | not used                             |  |  |  |
| <respo< td=""><td colspan="9"><responseheader></responseheader></td></respo<> | <responseheader></responseheader> |       |     |     |              |                                      |  |  |  |
| 5979  | RequestTime                       | Υ     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.        |  |  |  |
| 52  | SendingTime                       | Υ     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by |  |  |  |
|   |                                   |       |     |     |              | the gateway                          |  |  |  |
| 34  | MsgSeqNum                         | Y     | 4   | 24  | unsigned int | Message sequence number used by the  |  |  |  |
|   |                                   |       |     |     |              | participant for requests sent to the |  |  |  |
|   |                                   |       |     |     |              | gateway.                             |  |  |  |
| 39040   | Pad4                              | U     | 4   | 28  | Fixed String | not used                             |  |  |  |

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| Derivatives Message Reference          |

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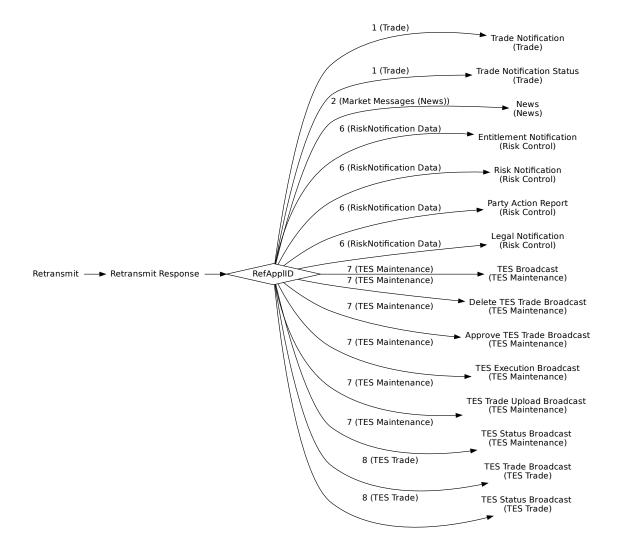
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#### 5.21 Retransmit

This message is used for re-transmission of trade, TES trades, SRQS (Eurex/Xetra EnLight) maintenance data, risk control and news data for recovery purposes. The specified application sequence number range will lead to the retransmission of data whose application sequence number is >= ApplBegSeqNum (1182) and <= ApplEndSeqNum (1183). Depending on RefApplID (1355), the request is sent to the respective service:

- RefAppIID = 1 (Trade) => request is sent to the Trades service
- RefAppIID = 2 (News) => request is sent to the News service
- RefAppIID = 6 (Risk Control) => request is sent to the Risk Control service
- RefAppIID = 7 (TES Maintenance) => request is sent to the TES Retransmission Service
- RefAppIID = 8 (TES Trades) => request is sent to the TES Retransmission service
- RefAppIID = 9 (SRQS Maintenance) => request is sent to the SRQS service

For more details, please refer to the ETI Manual, chapter Retransmission.



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| MessageHeaderIn   Y  | Tag   | Field Name      | Req'd                                 | Len | Ofs | Data Type    | Description                          |
|--|-------|-----------------|---------------------------------------|-----|-----|--------------|--------------------------------------|
| Cluding this field.   Cluding this field.  |       |                 |                                       |     |     |              | ·                                    |
| 28500   TemplateID   | 9     | BodyLen         | Υ                                     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
| message layout. Value: 1000 (ApplicationMessageRequest, Msg Type = BW)  25028 NetworkMsgID U 8 6 Fixed String not used 39020 Pad2 U 2 14 Fixed String not used  **RequestHeader**  34 MsgSeqNum Y 4 16 unsigned int Message sequence number used by th participant for requests sent to th gateway.  50 SenderSubID U 4 20 unsigned int not used  **MessageBody**  1182 ApplBegSeqNum N 8 24 SeqNum "no value" means first known sequence number: 1  1183 ApplEndSeqNum N 8 32 SeqNum Ending range of application sequence numbers.  5948 PartitionID N 2 40 unsigned int The application sequence number are only unique per RefApplIC SubcriptionScope and Partion ID.Therefore, the PartitionID in required to define the scope of Retransmission Request.  Not to be set for News, Risk Control and SRQS Maintenance.  1355 RefApplID Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.    Value   Description  |       |                 |                                       |     |     |              | cluding this field.                  |
| CapplicationMessageRequest, Msg Type = BW  | 28500 | TemplateID      | Υ                                     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI       |
| Type = BW    Type = BW   |       |                 |                                       |     |     |              | message layout. Value: 10008         |
| 25028   NetworkMsgID   U   8   6   Fixed String   not used   |       |                 |                                       |     |     |              | ,                                    |
| 39020 Pad2   |       |                 |                                       |     |     |              | ,                                    |
| SequestHeader   Sequest    |       | _               |                                       |     |     |              |                                      |
| 34   MsgSeqNum   |       |                 | U                                     | 2   | 14  | Fixed String | not used                             |
| participant for requests sent to the gateway.  50 SenderSubID U 4 20 unsigned int not used  **MessageBody**  1182 ApplBegSeqNum N 8 24 SeqNum "no value" means first known sequence number: 1  1183 ApplEndSeqNum N 8 32 SeqNum Ending range of application sequence numbers.  5948 PartitionID N 2 40 unsigned int The application sequence number are only unique per RefApplID SubcriptionScope and Partion ID. Therefore, the PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Control and SRQS Maintenance.  1355 RefApplID Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.    Value   Description   Trade   Description   Tra | -     |                 |                                       |     | 1 1 |              |                                      |
| SenderSubID  | 34    | MsgSeqNum       | Y                                     | 4   | 16  | unsigned int |                                      |
| SenderSubID  |       |                 |                                       |     |     |              |                                      |
| MessageBody   1182   ApplBegSeqNum   N   8   24   SeqNum   "no value" means first known sequence number: 1   | FO    | Carada «CarbiD  | 11                                    | 4   | 20  |              |                                      |
| 1182   ApplBegSeqNum   |       |                 | U                                     | 4   | 20  | unsigned int | not used                             |
| quence number: 1  1183 ApplEndSeqNum N 8 32 SeqNum Ending range of application sequence numbers.  5948 PartitionID N 2 40 unsigned int The application sequence number are only unique per RefApplID SubcriptionScope and Partion ID.Therefore, the PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Control and SRQS Maintenance.  1355 RefApplID Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  |       | - ·             | N                                     | 8   | 24  | SeaNum       | "no value" means first known se-     |
| 1183 ApplEndSeqNum N 8 32 SeqNum Ending range of application sequence numbers.  5948 PartitionID N 2 40 unsigned int The application sequence number are only unique per RefApplID SubcriptionScope and PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Control and SRQS Maintenance.  1355 RefApplID Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  | 1102  | Appidegoeqivani |                                       | O   | 24  | Sequalii     |                                      |
| numbers.  5948 PartitionID  N 2 40 unsigned int The application sequence number are only unique per RefAppIID SubcriptionScope and Partion ID.Therefore, the PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Contro and SRQS Maintenance.  1355 RefAppIID  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade   | 1183  | ApplEndSeaNum   | N                                     | 8   | 32  | SeaNum       | ļ '                                  |
| are only unique per RefAppIID SubcriptionScope and Partion ID.Therefore, the PartitionID is required to define the scope of Retransmission Request. Not to be set for News, Risk Contro and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  |       |                 |                                       |     |     |              |                                      |
| SubcriptionScope and Partion ID.Therefore, the PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Contro and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade   | 5948  | PartitionID     | N                                     | 2   | 40  | unsigned int | The application sequence numbers     |
| ID.Therefore, the PartitionID is required to define the scope of Retransmission Request.  Not to be set for News, Risk Control and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade   |       |                 |                                       |     |     |              | are only unique per RefAppIID,       |
| required to define the scope of Retransmission Request. Not to be set for News, Risk Contro and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description 1 Trade   |       |                 |                                       |     |     |              | SubcriptionScope and Partion-        |
| Retransmission Request. Not to be set for News, Risk Contro and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description 1 Trade   |       |                 |                                       |     |     |              | ID.Therefore, the PartitionID is     |
| Not to be set for News, Risk Contro and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  |       |                 |                                       |     |     |              | required to define the scope of a    |
| and SRQS Maintenance.  Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  |       |                 |                                       |     |     |              | · ·                                  |
| 1355 RefAppIID Y 1 42 unsigned int Application identifier of a T7 ETI dat stream.  Value Description  1 Trade  |       |                 |                                       |     |     |              |                                      |
| stream.  Value Description  1 Trade  | 1055  | D (A UD         | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 40  |              | 1                                    |
| Value Description  1 Trade   | 1355  | RefAppIID       | Y                                     | 1   | 42  | unsigned int |                                      |
| 1 Trade  |       |                 |                                       |     |     |              |                                      |
|  |       |                 |                                       |     |     |              |                                      |
|  |       |                 |                                       |     |     |              |                                      |
| 2 News   |       |                 |                                       |     |     |              |                                      |
| 6 Risk Control   |       |                 |                                       |     |     |              |                                      |
| 7 TES Maintenance  |       |                 |                                       |     |     |              |                                      |
| 8 TES Trade  |       |                 |                                       |     |     |              |                                      |
| 9 SRQS Maintenance   |       |                 |                                       |     |     |              | 9 SKQS Waintenance                   |
| 39050 Pad5 U 5 43 Fixed String not used  | 39050 | Pad5            | U                                     | 5   | 43  | Fixed String | not used                             |

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#### 5.22 Retransmit Response

The Retransmission Response message confirms the Retransmit request and delivers only a fixed number of the requested data packages. So the requesting client would have to send a new retransmission request (with updated sequence numbers) if the captured response does not contain all requested data. (See below: ApplEndSeqNum (1183)).

The field ApplTotalMessageCount (1349) indicates how many retransmitted broadcast messages will follow. For fragmented messages, each fragment counts as one message. They will not be interrupted by other messages.

All these messages will consist of:

- <MessageHeaderOut>.
- < RBCHeader>, where ApplSubID (28727) is always set to 'no value' and ApplResendFlag (1352) is always set to True (indicating a retransmission message).
- <MessageBody>, which is specific for the TemplateID (28500) in <MessageHeaderOut>.

For more details, please refer to chapter Retransmission.

| Tag  | Field Name    | Req'd | Len | Ofs | Data Type             | Description                             |
|--|---------------|-------|-----|-----|-----------------------|---|
| < Messa  | geHeaderOut>  |       |     |     |                       |   |
| 9  | BodyLen       | Y     | 4   | 0   | unsigned int          | Number of bytes for the message, in-    |
|  |               |       |     |     |                       | cluding this field.                     |
| 28500  | TemplateID    | Υ     | 2   | 4   | unsigned int          | Unique identifier for a T7 ETI          |
|  |               |       |     |     |                       | message layout. Value: 10009            |
|  |               |       |     |     |                       | (ApplicationMessageRequestAck,          |
|  |               |       |     |     |                       | MsgType = BX)                           |
| 39020  | Pad2          | U     | 2   | 6   | Fixed String          | not used                                |
| <respo.< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo.<> | nseHeader>    |       |     |     |                       |   |
| 5979   | RequestTime   | Y     | 8   | 8   | ${\sf UTCT} imestamp$ | Gateway request in timestamp.           |
| 52   | SendingTime   | Υ     | 8   | 16  | UTCTimestamp          | Outgoing timestamp; filled always by    |
|  |               |       |     |     |                       | the gateway                             |
| 34   | MsgSeqNum     | Y     | 4   | 24  | unsigned int          | Message sequence number used by the     |
|  |               |       |     |     |                       | participant for requests sent to the    |
|  |               |       |     |     |                       | gateway.                                |
| 39040  | Pad4          | U     | 4   | 28  | Fixed String          | not used                                |
| < Messa  | geBody>       |       |     |     |                       |   |
| 1183   | ApplEndSeqNum | N     | 8   | 32  | SeqNum                | Ending range of application sequence    |
|  |               |       |     |     |                       | numbers.If it is not set to the related |
|  |               |       |     |     |                       | request's ApplEndSeqNum, the client     |
|  |               |       |     |     |                       | will have to send another retransmis-   |
|  |               |       |     |     |                       | sion request (with an updated Appl-     |
|  |               |       |     |     |                       | BegSeqNum)."no value" means the         |
|  |               |       |     |     |                       | requested data is not available.        |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|-------------------|-------|-----|-----|--------------|---------------------------------------|
| 1357  | RefApplLastSeqNum | N     | 8   | 40  | SeqNum       | Last application sequence num-        |
|       |                   |       |     |     |              | ber known by the T7 system for        |
|       |                   |       |     |     |              | a certain scope of RefApplID,         |
|       |                   |       |     |     |              | SubscriptionScope and Partition-      |
|       |                   |       |     |     |              | ID. "no value" means that there is no |
|       |                   |       |     |     |              | data persisted yet for the requested  |
|       |                   |       |     |     |              | stream/subscription scope.            |
| 1349  | ApplTotalMessage- | Υ     | 2   | 48  | unsigned int | Total number of messages (frag-       |
| 1549  | Count             | '     | _   | 10  | unsigned int | ments) included in transmission.      |
|       |                   |       |     |     |              | ments) included in transmission.      |
| 39060 | Pad6              | U     | 6   | 50  | Fixed String | not used                              |

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#### 5.23 Retransmit (Order/Quote Event)

This message is used for re-transmission of recoverable order/quote event data for recovery purposes. The specified application message identifier range will lead to the retransmission of data whose application message identifier is > ApplBegMsgID (28718) and <= ApplEndMsgID (28719).

For more details, please refer to the ETI Manual, chapter Retransmission. This message is sent to the service "Retransmission of Order and Quote Events".



| Tag     | Field Name  | Req'd | Len | Ofs | Data Type    | Description                          |
|---------|-------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa | geHeaderIn> |       |     |     |              |                                      |
| 9       | BodyLen     | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|         |             |       |     |     |              | cluding this field.                  |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description                             |
|---|-------------------|-------|-----|-----|--------------|---|
| 28500   | TemplateID        | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI          |
|   |                   |       |     |     |              | message layout. Value: 10026            |
|   |                   |       |     |     |              | (ApplicationMessageRequest, Msg-        |
|   |                   |       |     |     |              | Type = BW)                              |
|   | NetworkMsgID      | U     | 8   | 6   | Fixed String | not used                                |
| 39020   | Pad2              | U     | 2   | 14  | Fixed String | not used                                |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>         |       |     |     |              |   |
| 34  | MsgSeqNum         | Y     | 4   | 16  | unsigned int | Message sequence number used by the     |
|   |                   |       |     |     |              | participant for requests sent to the    |
|   |                   |       |     |     |              | gateway.                                |
| 50  | SenderSubID       | U     | 4   | 20  | unsigned int | not used                                |
| < Messa   | geBody>           |       |     |     |              |   |
| 25001   | SubscriptionScope | N     | 4   | 24  | unsigned int | Retransmission scope (for the sup-      |
|   |                   |       |     |     |              | ported RefAppIIDs):                     |
|   |                   |       |     |     |              | - Session Data: "no value"              |
|   |                   |       |     |     |              | - Listener Data: session ID             |
| 5948  | PartitionID       | Y     | 2   | 28  | unsigned int | Application message identifiers         |
|   |                   |       |     |     |              | are only unique per RefAppIID,          |
|   |                   |       |     |     |              | SubcriptionScope and Partition-         |
|   |                   |       |     |     |              | ID.Therefore, the PartitionID is        |
|   |                   |       |     |     |              | required to define the scope of a       |
|   |                   |       |     |     |              | Retransmit request.                     |
| 1355  | RefAppIID         | Y     | 1   | 30  | unsigned int | Application identifier of a T7 ETI data |
|   |                   |       |     |     |              | stream.                                 |
|   |                   |       |     |     |              | Value Description                       |
|   |                   |       |     |     |              | 4 Session Data                          |
|   |                   |       |     |     |              | 5 Listener Data                         |
|   |                   |       |     |     |              |   |
| 28718   | ApplBegMsgID      | N     | 16  | 31  | data         | Beginning range of application mes-     |
|   |                   |       |     |     |              | sage identifiers; 'no value' indicates  |
|   |                   |       |     |     |              | first known application message iden-   |
|   |                   |       |     |     |              | tifier.                                 |
| 28719   | ApplEndMsgID      | N     | 16  | 47  | data         | Ending range of application message     |
|   |                   |       |     |     |              | identifiers; "no value" means last      |
|   |                   |       |     |     |              | known application message identifier.   |
| 39000   | Pad1              | U     | 1   | 63  | Fixed String | not used                                |

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## 5.24 Retransmit Response (Order/Quote Event)

This message confirms the Retransmit (Order/Quote Event) request and delivers only a fixed number of the requested data packages. So the requesting client would have to send a new Retransmit (Order/Quote Event) request (with updated application message identifiers), if the captured response does not contain all requested data.(See below: ApplEndMsgID (28719)). The field ApplTotalMessageCount (1349) indicates how many retransmitted broadcast messages will follow.For fragmented messages, each fragment counts as one message. They will not be interrupted by other messages.

All these messages will consist of:

- $\quad \quad \quad < MessageHeaderOut >.$
- < RBCHeaderME>, where ApplSubID (28727) is always set to "no value", TrdRegTSTimeOut (21003) is always set to "no value", and ApplResendFlag (1352) is always set to True (indicating a retransmission message).
- <MessageBody>, which is specific for the TemplateID (28500) in <MessageHeaderOut>.

The retransmission message template used for order and quote events differs from the session data response template in the following cases:

| Tag  | Field Name                  | Req'd | Len | Ofs | Data Type    | Description                          |
|--|-----------------------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa  | geHeaderOut>                |       |     |     |              |                                      |
| 9  | BodyLen                     | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|  |                             |       |     |     |              | cluding this field.                  |
| 28500  | TemplateID                  | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI       |
|  |                             |       |     |     |              | message layout. Value: 10027         |
|  |                             |       |     |     |              | (ApplicationMessageRequestAck,       |
|  |                             |       |     |     |              | MsgType = BX)                        |
| 39020  | Pad2                        | U     | 2   | 6   | Fixed String | not used                             |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeader>                  |       |     |     |              |                                      |
| 5979   | RequestTime                 | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.        |
| 52   | SendingTime                 | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by |
|  |                             |       |     |     |              | the gateway                          |
| 34   | MsgSeqNum                   | Y     | 4   | 24  | unsigned int | Message sequence number used by the  |
|  |                             |       |     |     |              | participant for requests sent to the |
|  |                             |       |     |     |              | gateway.                             |
| 39040  | Pad4                        | U     | 4   | 28  | Fixed String | not used                             |
| < Messa  | <messagebody></messagebody> |       |     |     |              |                                      |
| 1349   | ApplTotalMessage-           | Y     | 2   | 32  | unsigned int | Total number of messages (frag-      |
| 1349   | Count                       | '     | 2   | J2  | unsigned int | ments) included in transmission.     |
|  |                             |       |     |     |              | ments) included in transmission.     |

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| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description                                 |
|-------|------------------|-------|-----|-----|--------------|---|
| 28719 | ApplEndMsgID     | N     | 16  | 34  | data         | Ending range of application message         |
|       |                  |       |     |     |              | identifiers.If it is not set to the related |
|       |                  |       |     |     |              | request's ApplEndMsgID, the client          |
|       |                  |       |     |     |              | will have to send another Retransmit        |
|       |                  |       |     |     |              | request (with an updated ApplBeg-           |
|       |                  |       |     |     |              | MsgID).                                     |
| 28722 | RefApplLastMsgID | N     | 16  | 50  | data         | Last application message identifier         |
|       |                  |       |     |     |              | known by the T7 system for a certain        |
|       |                  |       |     |     |              | scope of RefAppIID, Subscription-           |
|       |                  |       |     |     |              | Scope and PartitionID.                      |
| 39060 | Pad6             | U     | 6   | 66  | Fixed String | not used                                    |

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# 5.25 Reject

All rejections and errors on an application and session level are communicated via the FIX standard Reject (3) message; except for Mass Quote Response.

| Tag   | Field Name                            | Req'd                                 | Len | Ofs  | Data Type    | Description                               |  |
|---|---------------------------------------|---------------------------------------|-----|------|--------------|---|--|
| < Messa   | <messageheaderout></messageheaderout> |                                       |     |      |              |   |  |
| 9   | BodyLen                               | Υ                                     | 4   | 0    | unsigned int | Number of bytes for the message, in-      |  |
|   |                                       |                                       |     |      |              | cluding this field.                       |  |
| 28500   | TemplateID                            | Υ                                     | 2   | 4    | unsigned int | Unique identifier for a T7 ETI mes-       |  |
|   |                                       |                                       |     |      |              | sage layout. Value: 10010 (Reject,        |  |
|   |                                       |                                       |     |      |              | MsgType = 3)                              |  |
| 39020   | Pad2                                  | U                                     | 2   | 6    | Fixed String | not used                                  |  |
| <nrre< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre<> | sponseHeaderME>                       |                                       |     |      |              |   |  |
| 5979  | RequestTime                           | Y                                     | 8   | 8    | UTCTimestamp | In timestamp; filled always by the        |  |
|   |                                       |                                       |     |      |              | gateway                                   |  |
| 21002   | TrdRegTSTimeIn                        | N                                     | 8   | 16   | UTCTimestamp | Matching engine in timestamp.             |  |
| 21003   | TrdRegTSTimeOut                       | N                                     | 8   | 24   | UTCTimestamp | Matching engine out timestamp.            |  |
| 7765  | ResponseIn                            | N                                     | 8   | 32   | UTCTimestamp | Timestamp the gateway receives a          |  |
|   |                                       |                                       |     |      |              | message from the Matching Engine          |  |
| 52  | SendingTime                           | Y                                     | 8   | 40   | UTCTimestamp | Outgoing delta timestamp; filled al-      |  |
|   |                                       |                                       |     |      |              | ways by the gateway                       |  |
| 34  | MsgSeqNum                             | Y                                     | 4   | 48   | unsigned int | Message sequence number used by the       |  |
|   |                                       |                                       |     |      |              | participant for requests sent to the      |  |
|   |                                       |                                       |     |      |              | gateway.                                  |  |
| 893   | LastFragment                          | Y                                     | 1   | 52   | unsigned int | Indicates whether this message is the     |  |
|   |                                       |                                       |     |      |              | last fragment (part) of a sequence of     |  |
|   |                                       |                                       |     |      |              | messages belonging to one dedicated       |  |
|   |                                       |                                       |     |      |              | transaction.                              |  |
|   |                                       |                                       |     |      |              | Value Description                         |  |
|   |                                       |                                       |     |      |              | 1 Last Message                            |  |
| 20020   | D 10                                  |                                       |     |      | F: 1.C. :    |   |  |
| 39030   |                                       | U                                     | 3   | 53   | Fixed String | not used                                  |  |
|   | geBody>                               | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     | F.C. |              | le .                                      |  |
| 373   | SessionRejectReason                   | Y                                     | 4   | 56   | unsigned int | Error code.                               |  |
|   |                                       |                                       |     |      |              | Valid values are listed after this table. |  |
|   |                                       |                                       |     |      |              |   |  |
| 30354   | VarTextLen                            | Υ                                     | 2   | 60   | Counter      | Values <100 are reserved by FIX. We       |  |
|   |                                       | '                                     | -   |      |              | will use user-defined values for appli-   |  |
|   |                                       |                                       |     |      |              | cation level errors as well               |  |
|   |                                       |                                       |     |      |              | 122.1.1.1.1.0.0.1.0.0.0.0.0.0.0.0.0.0.0.  |  |

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| Tag   | Field Name    | Req'd | Len  | Ofs | Data Type       | Description                         |
|-------|---------------|-------|------|-----|-----------------|-------------------------------------|
| 1409  | SessionStatus | Υ     | 1    | 62  | unsigned int    | Session status.                     |
|       |               |       |      |     |                 | Value Description                   |
|       |               |       |      |     |                 | 0 Session active                    |
|       |               |       |      |     |                 | 4 Session logout complete           |
|       |               |       |      |     |                 |                                     |
| 39000 | Pad1          | U     | 1    | 63  | Fixed String    | not used                            |
| 30355 | VarText       | Υ     | 2000 | 64  | Variable String | Error text.                         |
|       |               |       |      |     |                 | Valid characters: \x09, \x0A, \x0D, |
|       |               |       |      |     |                 | \x20-\x7B, \x7D, \x7E               |

#### $Valid\ Values\ of\ SessionRejectReason\ (datatype\ SessionRejectReason)$

| Valid | Description  |
|-------|--|
| Value |  |
| 1     | Required Tag Missing   |
| 5     | Value is incorrect (out of range) for this tag   |
| 7     | Decryption problem   |
| 11    | Invalid TemplateID   |
| 16    | Incorrect NumInGroup count for repeating group   |
| 99    | Other  |
| 100   | Throttle limit exceeded  |
| 101   | Stale request was not forwarded to T7  |
| 102   | Service temporarily not available  |
| 103   | Service not available  |
| 105   | Error converting response or broadcast   |
| 152   | Heartbeat violation error  |
| 200   | Internal technical error   |
| 210   | Validation Error   |
| 211   | User already logged in   |
| 216   | Gateway is standby   |
| 217   | Session login limit (per time interval) reached  |
| 223   | User Entitlement Data time out   |
| 224   | Session limit reached (per PS Gateway and Business Unit)                                       |
| 225   | User login tries limit (per time interval) reached   |
| 226   | Limit of outstanding session/user logins reached (per Business Unit)                           |
| 227   | Limit of outstanding session/user logins reached (per Session)                                 |
| 228   | Password timestamp not in grace period   |
| 10000 | Order not found  |
| 10001 | Price not reasonable   |
| 10002 | Duplicate Order (ClOrdID)  |
| 10003 | another quote activation request is pending for the same Product / Instrument Type / SessionID |
| 10006 | Stop buy price not reasonable  |
| 10007 | Stop sell price not reasonable   |

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| 10008 | GFD order is not executable on current business day        |
|-------|--|
| 10010 | Throttle limit for creation of complex instrument exceeded |
| 10011 | Order maintenance not allowed in current state             |
| 10013 | Required min lot size not reached                          |

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### 5.26 Session List Inquire

This message is used to get the list of sessions for the own business unit. These returned sessions (PartyIDSessionID (20055)) can be used as SubscriptionScope (25001) for retransmission and subscriptions requests to Listener Data (RefAppIID (1355) = 4).

For more details, please refer to the ETI Manual, chapter Retransmission.

Session List Inquire



Session List Inquire Response

| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                      |
|---------|--------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderIn>  |       |     |     |              |  |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-             |
|         |              |       |     |     |              | cluding this field.                              |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-              |
|         |              |       |     |     |              | sage layout. Value: 10035 (Session-              |
|         |              |       |     |     |              | ${\sf DetailsListRequest,\ MsgType} = {\sf U5)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used   |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used   |
| < Reque | stHeader>    |       |     |     |              |  |
| 34      | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the              |
|         |              |       |     |     |              | participant for requests sent to the             |
|         |              |       |     |     |              | gateway.   |
| 50      | SenderSubID  | U     | 4   | 20  | unsigned int | not used   |

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## 5.27 Session List Inquire Response

This message confirms the Session List Inquire request and provides information about sessions of the own business unit. The SessionSubMode (28730) is only set for LF sessions.

| Tag   | Field Name              | Req'd     | Len    | Ofs  | Data Type       | Description                          |
|---|-------------------------|-----------|--------|------|-----------------|--------------------------------------|
| <messageheaderout></messageheaderout>   |                         |           |        |      |                 |                                      |
| 9   | BodyLen                 | Y         | 4      | 0    | unsigned int    | Number of bytes for the message, in- |
|   |                         |           |        |      |                 | cluding this field.                  |
| 28500   | TemplateID              | Y         | 2      | 4    | unsigned int    | Unique identifier for a T7 ETI mes-  |
|   |                         |           |        |      |                 | sage layout. Value: 10036 (Session-  |
|   |                         |           |        |      |                 |                                      |
| 39020   |                         | U         | 2      | 6    | Fixed String    | not used                             |
| •   | nseHeader>              |           |        |      |                 |                                      |
| 5979  | RequestTime             | Y         | 8      | 8    | UTCTimestamp    | Gateway request in timestamp.        |
| 52  | SendingTime             | Y         | 8      | 16   | UTCTimestamp    | Outgoing timestamp; filled always by |
|   |                         |           |        |      |                 | the gateway                          |
| 34  | MsgSeqNum               | Y         | 4      | 24   | unsigned int    | Message sequence number used by the  |
|   |                         |           |        |      |                 | participant for requests sent to the |
|   |                         |           |        |      |                 | gateway.                             |
| 39040   | Pad4                    | U         | 4      | 28   | Fixed String    | not used                             |
|   | geBody>                 |           |        |      |                 |                                      |
| 28734   | NoSessions              | Y         | 2      | 32   | Counter         | Number of sessions in a response     |
| 39060   | Pad6                    | U         | 6      | 34   | Fixed String    | not used                             |
| <sessi< td=""><td>ionsGrp&gt; Cardinality: 1</td><td>- 1000, I</td><td>Record</td><td>coun</td><td>ter: NoSessions</td><td></td></sessi<> | ionsGrp> Cardinality: 1 | - 1000, I | Record | coun | ter: NoSessions |                                      |
| 20055   | >PartyIDSessionID       | Y         | 4      | 40   | unsigned int    | Session ID.                          |
| 28730   | >SessionMode            | Y         | 1      | 44   | unsigned int    | Session type.                        |
|   |                         |           |        |      |                 | Value Description                    |
|   |                         |           |        |      |                 | 1 ETI HF                             |
|   |                         |           |        |      |                 | 2 ETI LF                             |
|   |                         |           |        |      |                 | 3 GUI                                |
|   |                         |           |        |      |                 | 4 FIX LF                             |
|   |                         |           |        |      |                 |                                      |
| 28735   | >SessionSubMode         | N         | 1      | 45   | unsigned int    | Set if SessionMode(28730) = $2(LF)$  |
|   |                         |           |        |      |                 | Value Description                    |
|   |                         |           |        |      |                 | 0 Regular Trading Session            |
|   |                         |           |        |      |                 | 2 Regular Back Office Session        |
| 20020   | > D- 40                 | 11        | 2      | 16   | Eivad Chrima    | not used                             |
| 39020   | >Pad2                   | U         | 2      | 46   | Fixed String    | not used                             |

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#### 5.28 Trade Enrichment List Inquire

This message is used to get the list of enrichment rules and enrichment rule IDs for the own business unit. To retrieve all enrichment rule data, in the first request LastEntityProcessed (25035) must be set to 'no value'. While the LastEntityProcessed (25035) received in the response is not 'no value', continue sending requests using the LastEntityProcessed (25035) obtained from the response.

Trade Enrichment List Inquire



Trade Enrichment List Inquire Response

| Tag     | Field Name          | Req'd | Len | Ofs | Data Type    | Description                           |
|---------|---------------------|-------|-----|-----|--------------|---------------------------------------|
| < Messa | geHeaderIn>         |       |     |     |              |                                       |
| 9       | BodyLen             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|         |                     |       |     |     |              | cluding this field.                   |
| 28500   | TemplateID          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|         |                     |       |     |     |              | sage layout. Value: 10040 (Trade-     |
|         |                     |       |     |     |              |                                       |
|         |                     |       |     |     |              | U7)                                   |
| 25028   | NetworkMsgID        | U     | 8   | 6   | Fixed String | not used                              |
| 39020   | Pad2                | U     | 2   | 14  | Fixed String | not used                              |
| < Reque | stHeader>           |       | ,   |     |              |                                       |
| 34      | MsgSeqNum           | Y     | 4   | 16  | unsigned int | Message sequence number used by the   |
|         |                     |       |     |     |              | participant for requests sent to the  |
|         |                     |       |     |     |              | gateway.                              |
| 50      | SenderSubID         | U     | 4   | 20  | unsigned int | not used                              |
| < Messa | geBody>             |       | ,   |     |              |                                       |
| 25035   | LastEntityProcessed | N     | 16  | 24  | data         | Paging key for reference data request |

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## 5.29 Trade Enrichment List Inquire Response

This message confirms the Enrichment List Inquire request and provides information about enrichment rules of the own business unit.

| Tag   | Field Name                     | Req'd     | Len      | Ofs   | Data Type         | Description  |
|---|--------------------------------|-----------|----------|-------|-------------------|--|
| <messageheaderout></messageheaderout>   |                                |           |          |       |                   |  |
| 9   | BodyLen                        | Y         | 4        | 0     | unsigned int      | Number of bytes for the message, including this field.   |
| 28500   | TemplateID                     | Y         | 2        | 4     | unsigned int      | Unique identifier for a T7 ETI message layout. Value: 10041 (Trade-EnrichmentListReport, MsgType = U9)   |
| 39020   | Pad2                           | U         | 2        | 6     | Fixed String      | not used   |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<>  | nseHeader>                     |           |          |       |                   |  |
| 5979  | RequestTime                    | Y         | 8        | 8     | UTCTimestamp      | Gateway request in timestamp.  |
| 52  | SendingTime                    | Y         | 8        | 16    | UTCTimestamp      | Outgoing timestamp; filled always by the gateway   |
| 34  | MsgSeqNum                      | Y         | 4        | 24    | unsigned int      | Message sequence number used by the participant for requests sent to the gateway.  |
| 39040   | Pad4                           | U         | 4        | 28    | Fixed String      | not used   |
| < Messa   | geBody>                        |           |          |       |                   |  |
| 25035   | LastEntityProcessed            | N         | 16       | 32    | data              | Paging key for reference data request  |
| 28738   | NoEnrichmentRules              | Y         | 2        | 48    | Counter           | Number of enrichment rules in a response   |
| 39060   | Pad6                           | U         | 6        | 50    | Fixed String      | not used   |
| <enric< td=""><td>chmentRulesGrp&gt; Cardi</td><td>nality: 0</td><td>) - 400,</td><td>Recor</td><td>rd counter: NoEnr</td><td>richmentRules</td></enric<> | chmentRulesGrp> Cardi          | nality: 0 | ) - 400, | Recor | rd counter: NoEnr | richmentRules  |
| 25033   | >EnrichmentRuleID              | Υ         | 2        | 56    | unsigned int      | Identifies an enrichment rule  |
| 20099   | >PartyIDOrigination-<br>Market | N         | 1        | 58    | unsigned int      | The origination market  Value Description  1 Korea Exchange  |
| 1   | >Account                       | N         | 2        | 59    | Fixed String      | Accounts to book trades and keep positions on. Valid characters: 1-9, $\times$ 41, $\times$ 47, $\times$ 49, $\times$ 4D, $\times$ 50, $\times$ 52 |

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| Tag   | Field Name                              | Req'd    | Len | Ofs | Data Type     | Description                              |
|-------|---|----------|-----|-----|---------------|--|
| 77    | >PositionEffect                         | N        | 1   | 61  | char          | Field is used for T7 position manage-    |
|       |   |          |     |     |               | ment purposes and indicates whether      |
|       |   |          |     |     |               | the order is submitted to open or close  |
|       |   |          |     |     |               | a position.                              |
|       |   |          |     |     |               | Value Description                        |
|       |   |          |     |     |               | C Close                                  |
|       |   |          |     |     |               | O Open                                   |
|       |   |          |     |     |               |  |
| 20096 | >PartyIDTakeUp-                         | N        | 5   | 62  | Fixed String  | Take-up Member Short Name.               |
|       | TradingFirm                             |          |     |     |               | Valid characters: A-Z, 0-9, \x20         |
| 20013 | >PartyIDOrder-                          | N        | 7   | 67  | Fixed String  | External Member ID.                      |
| 20013 | OriginationFirm                         | '        | •   |     | r ixed String | Valid characters: A-Z, 0-9, \x20         |
| 20032 | >PartyIDBeneficiary                     | N        | 9   | 74  | Fixed String  | Final Beneficiary                        |
|       | , |          |     |     | J             | Valid characters: A-Z, 0-9, \x20         |
| 25007 | >FreeText1                              | N        | 12  | 83  | Fixed String  | First free-format text field for trader  |
|       |   |          |     |     |               | specific or customer-related com-        |
|       |   |          |     |     |               | ments                                    |
|       |   |          |     |     |               | Valid characters: \x20, \x23-\x25,       |
|       |   |          |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |   |          |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25008 | >FreeText2                              | N        | 12  | 95  | Fixed String  | Second free-format text field for        |
|       |   |          |     |     |               | trader specific or customer-related      |
|       |   |          |     |     |               | comments                                 |
|       |   |          |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |   |          |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |   |          |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25009 | >FreeText3                              | N        | 12  | 107 | Fixed String  | Third free-format text field for trader- |
|       |   |          |     |     |               | specific or customer-related com-        |
|       |   |          |     |     |               | ments.                                   |
|       |   |          |     |     |               | Valid characters: \x20, \x23-\x25,       |
|       |   |          |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
| 2225  |   | <u> </u> |     | 110 |               | \x5F, \x61-\x7B, \x7D, \x7E              |
| 39000 | >Pad1                                   | U        | 1   | 119 | Fixed String  | not used                                 |

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#### 5.30 User List Inquire

This message is used to get the list of traders of the own business unit. To retrieve all user data, in the first request LastEntityProcessed (25035) must be set to 'no value'. While the LastEntityProcessed (25035) received in the response is not 'no value', continue sending requests using the LastEntityProcessed (25035) obtained from the response.



| Tag     | Field Name                  | Req'd | Len | Ofs | Data Type    | Description                                      |  |  |  |
|---------|-----------------------------|-------|-----|-----|--------------|--|--|--|--|
| < Messa | geHeaderIn>                 |       |     |     |              |  |  |  |  |
| 9       | BodyLen                     | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-             |  |  |  |
|         |                             |       |     |     |              | cluding this field.                              |  |  |  |
| 28500   | TemplateID                  | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-              |  |  |  |
|         |                             |       |     |     |              | sage layout. Value: 10038 (Party-                |  |  |  |
|         |                             |       |     |     |              | ${\sf DetailsListRequest,\ MsgType} = {\sf CF)}$ |  |  |  |
| 25028   | NetworkMsgID                | U     | 8   | 6   | Fixed String | not used   |  |  |  |
| 39020   | Pad2                        | U     | 2   | 14  | Fixed String | not used   |  |  |  |
| < Reque | stHeader>                   |       |     |     |              |  |  |  |  |
| 34      | MsgSeqNum                   | Y     | 4   | 16  | unsigned int | Message sequence number used by the              |  |  |  |
|         |                             |       |     |     |              | participant for requests sent to the             |  |  |  |
|         |                             |       |     |     |              | gateway.   |  |  |  |
| 50      | SenderSubID                 | U     | 4   | 20  | unsigned int | not used   |  |  |  |
| < Messa | <messagebody></messagebody> |       |     |     |              |  |  |  |  |
| 25035   | LastEntityProcessed         | N     | 16  | 24  | data         | Paging key for reference data request            |  |  |  |

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# 5.31 User List Inquire Response

This message confirms the User List Inquire request and provides information about the traders of the own business unit.

| Tag  | Field Name              | Req'd   | Len    | Ofs    | Data Type         | Description                                     |
|--|-------------------------|---------|--------|--------|-------------------|---|
| < Messa  | geHeaderOut>            |         |        |        |                   |   |
| 9  | BodyLen                 | Υ       | 4      | 0      | unsigned int      | Number of bytes for the message, in-            |
|  |                         |         |        |        |                   | cluding this field.                             |
| 28500  | TemplateID              | Υ       | 2      | 4      | unsigned int      | Unique identifier for a T7 ETI mes-             |
|  |                         |         |        |        |                   | sage layout. Value: 10039 (Party-               |
|  |                         |         |        |        |                   | ${\sf DetailsListReport,\ MsgType} = {\sf CG)}$ |
| 39020  | Pad2                    | U       | 2      | 6      | Fixed String      | not used  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<>   | nseHeader>              |         |        |        |                   |   |
| 5979   | RequestTime             | Y       | 8      | 8      | UTCTimestamp      | Gateway request in timestamp.                   |
| 52   | SendingTime             | Υ       | 8      | 16     | UTCTimestamp      | Outgoing timestamp; filled always by            |
|  |                         |         |        |        |                   | the gateway                                     |
| 34   | MsgSeqNum               | Υ       | 4      | 24     | unsigned int      | Message sequence number used by the             |
|  |                         |         |        |        |                   | participant for requests sent to the            |
|  |                         |         |        |        |                   | gateway.  |
| 39040  | Pad4                    | U       | 4      | 28     | Fixed String      | not used  |
| < Messa  | geBody>                 |         |        |        |                   |   |
| 25035  | LastEntityProcessed     | N       | 16     | 32     | data              | Paging key for reference data request           |
| 1671   | NoPartyDetails          | Y       | 2      | 48     | Counter           | Number of PartyDetailsGrp repeating             |
|  |                         |         |        |        |                   | group   |
| 39060  | Pad6                    | U       | 6      | 50     | Fixed String      | not used  |
| <party< td=""><td>yDetailsGrp&gt; Cardinalit</td><td>y: 0-10</td><td>00, Re</td><td>cord c</td><td>counter: NoPartyD</td><td>Details Details</td></party<> | yDetailsGrp> Cardinalit | y: 0-10 | 00, Re | cord c | counter: NoPartyD | Details Details                                 |
| 20212  | >PartyDetail-           | Y       | 4      | 56     | unsigned int      | Trader ID                                       |
| 20212  | IDExecutingTrader       | '       | 4      | 30     | unsigned int      | Trader 1D                                       |
| 22212  | >PartyDetail-           | Y       | 6      | 60     | Fixed String      | Trader Name                                     |
| 22212  | ExecutingTrader         |         |        |        | Fixed String      | Valid characters: \x20, \x22-\x7B,              |
|  |                         |         |        |        |                   | \x7D, \x7E                                      |
|  | >PartyDetailRole-       |         |        |        |                   | (XID, (XID                                      |
| 1674   | Qualifier               | Y       | 1      | 66     | unsigned int      | User Role                                       |
|  |                         |         |        |        |                   | Value Description                               |
|  |                         |         |        |        |                   | 10 Trader                                       |
|  |                         |         |        |        |                   | 11 Head Trader                                  |
|  |                         |         |        |        |                   | 12 Supervisor                                   |
|  |                         |         |        |        |                   |   |
| 1672   | >PartyDetailStatus      | Y       | 1      | 67     | unsigned int      | Member status.                                  |
|  |                         |         |        |        |                   | Value Description                               |
|  |                         |         |        |        |                   | 0 Active  |
|  |                         |         |        |        |                   | 1 Suspend                                       |
|  |                         |         |        |        |                   |   |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                      |
|-------|--------------------|-------|-----|-----|--------------|----------------------------------|
| 22276 | >PartyDetailDeskID | N     | 3   | 68  | Fixed String | Trader Group.                    |
|       |                    |       |     |     |              | Valid characters: A-Z, 0-9, \x20 |
| 39000 | >Pad1              | U     | 1   | 71  | Fixed String | not used                         |

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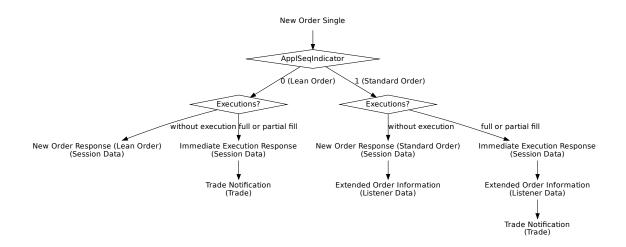
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# 6 Order Handling

#### 6.1 New Order Single

The New Order Single message is used by the participant to submit an order for single leg securities. For more details, please refer to the ETI Manual, chapter Order Types. This message is sent to the service "Order and Quote Management".



| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                              |
|---------|--------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderIn>  |       |     |     |              |  |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-     |
|         |              |       |     |     |              | cluding this field.                      |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-      |
|         |              |       |     |     |              | sage layout. Value: 10100 (New-          |
|         |              |       |     |     |              | ${\sf OrderSingle,\ MsgType} = {\sf D)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                 |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                 |
| < Reque | stHeader>    |       |     |     |              |  |
| 34      | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the      |
|         |              |       |     |     |              | participant for requests sent to the     |
|         |              |       |     |     |              | gateway.                                 |
| 50      | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                 |
| < Messa | geBody>      |       |     |     |              |  |
| 44      | Price        | N     | 8   | 24  | PriceType    | Limit price. Required if OrdType (40)    |
|         |              |       |     |     |              | is Limit (2) or Stop Limit (4).          |
| 38      | OrderQty     | Y     | 8   | 32  | Qty          | Total Order Quantity.                    |
| 99      | StopPx       | N     | 8   | 40  | PriceType    | Stop price. Required if OrdType (40)     |
|         |              |       |     |     |              | is Stop (3) or used as the trigger price |
|         |              |       |     |     |              | for an One-cancels-the-other order.      |

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| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------------|-------|-----|-----|--------------|---|
| 11    | ClOrdID                             | N     | 8   | 48  | unsigned int | Client Order ID: Unique participant   |
|       |                                     |       |     |     |              | defined order request identifier; used for client order id chaining.        |
| 20003 | PartyIDClientID                     | N     | 8   | 56  | unsigned int | MiFID field: Client Identifier field  |
|       |                                     |       |     |     |              | (ESMA Field 3 (Section A))used to   |
|       |                                     |       |     |     |              | identify the client of an order for agent account of the member or partici- |
|       |                                     |       |     |     |              | pant of the trading venue. If the   |
|       |                                     |       |     |     |              | Client Identifier field is not provided                                     |
|       |                                     |       |     |     |              | for agent orders, then they will be re-                                     |
|       |                                     |       |     |     |              | jected. For orders sent with Trading Capacity Proprietary or Market Mak-    |
|       |                                     |       |     |     |              | ing, the Client Identifier field may re-                                    |
|       |                                     |       |     |     |              | main empty.   |
| 20122 | PartyldInvestment-<br>DecisionMaker | N     | 8   | 64  | unsigned int | MiFID field: Investment decision  |
|       | D ceisionivianei                    |       |     |     |              | within firm (ESMA Field 4 (Section  |
|       |                                     |       |     |     |              | A)) is the code used to identify the person or the algorithm within the     |
|       |                                     |       |     |     |              | member or participant of the Trading  |
|       |                                     |       |     |     |              | Venue who is responsible for the in-  |
| 05100 | F .: T .                            | NI NI | 0   | 70  |              | vestment decision.  |
| 25123 | ExecutingTrader                     | N     | 8   | 72  | unsigned int | MiFID field: Executing Trader data<br>Field(ESMA Field 5 (Section A))used   |
|       |                                     |       |     |     |              | to identify the person or algorithm   |
|       |                                     |       |     |     |              | within the member or participant of   |
|       |                                     |       |     |     |              | the trading venue who is responsible  |
|       |                                     |       |     |     |              | for the execution of the transaction resulting from the order.              |
| 432   | ExpireDate                          | N     | 4   | 80  | LocalMktDate | Date of order expiry. Required if   |
|       |                                     |       |     |     |              | TimeInForce $(59) = 6$ .  |
| 1300  | MarketSegmentID                     | Y     | 4   | 84  | signed int   | Product identifier.   |
| 30048 | SimpleSecurityID                    | Y     | 4   | 88  | unsigned int | Instrument identifier for simple instruments. Should be filled with the 4   |
|       |                                     |       |     |     |              | least significant bytes of SecurityID                                       |
|       |                                     |       |     |     |              | (48) provided in T7 RDI and T7 RDF  |
|       |                                     |       |     |     |              | reference data.   |
| 28744 | MatchInstCrossID                    | N     | 4   | 92  | unsigned int | Self Match Prevention ID.   |
| 20096 | PartyIDTakeUp-<br>TradingFirm       | N     | 5   | 96  | Fixed String | Take-up Member Short Name.  |
|       | -                                   |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 20013 | PartyIDOrder-<br>OriginationFirm    | N     | 7   | 101 | Fixed String | External Member ID.   |
|       |                                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|---------------------|-------|-----|-----|--------------|--|
| 20032 | PartyIDBeneficiary  | N     | 9   | 108 | Fixed String | Final Beneficiary                      |
|       |                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20       |
| 28703 | ApplSeqIndicator    | Y     | 1   | 117 | unsigned int | Indicates if the order is a Lean Order |
|       |                     |       |     |     |              | or a Standard Order.                   |
|       |                     |       |     |     |              | Value Description                      |
|       |                     |       |     |     |              | 0 No Recovery Required                 |
|       |                     |       |     |     |              | 1 Recovery Required                    |
|       |                     | .,    |     |     |              |  |
| 54    | Side                | Y     | 1   | 118 | unsigned int | Side of the order.                     |
|       |                     |       |     |     |              | Value Description                      |
|       |                     |       |     |     |              | 1 Buy                                  |
|       |                     |       |     |     |              | 2 Sell                                 |
| 40    | OrdType             | Y     | 1   | 119 | unsigned int | Order type                             |
| 40    | Огатуре             | ı     | 1   | 119 | unsigned int | Order type.                            |
|       |                     |       |     |     |              | Value Description                      |
|       |                     |       |     |     |              | 1 Market                               |
|       |                     |       |     |     |              | 2 Limit                                |
|       |                     |       |     |     |              | 3 Stop                                 |
|       |                     |       |     |     |              | 4 Stop Limit                           |
|       | PriceValidityCheck- |       |     |     |              |  |
| 28710 | Type                | Y     | 1   | 120 | unsigned int | Indicator how price validity check     |
|       | Type                |       |     |     |              | should be performed by the exchange    |
|       |                     |       |     |     |              | (see the ETI Manual, chapter Price     |
|       |                     |       |     |     |              | Reasonability Check).                  |
|       |                     |       |     |     |              | Value Description                      |
|       |                     |       |     |     |              | 0 None                                 |
|       |                     |       |     |     |              | 1 Optional                             |
|       |                     |       |     |     |              | 2 Mandatory                            |
| 0510- |                     |       |     | 461 |              |  |
| 25126 | ValueCheckTypeValue | Y     | 1   | 121 | unsigned int | Indicator for checking the maximum     |
|       |                     |       |     |     |              | order/quote value by the exchange.     |
|       |                     |       |     |     |              | Value Description                      |
|       |                     |       |     |     |              | 0 Do not check                         |
|       |                     |       |     |     |              | 1 Check                                |
|       |                     |       |     |     |              |  |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 122 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision   |
| 23003 | OrderAttributeRisk-Reduction          | N     | 1   | 123 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description   1   Risk reduction   0   No risk reduction |
| 59    | TimeInForce                           | Y     | 1   | 124 | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)  6 Good Till Date (GTD) - Standard Orders only   |
| 18    | ExecInst                              | Y     | 1   | 125 | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')  Persistent and Book or Cancel order (FIX value 'H 6')  Non-persistent and Book or Cancel order (FIX value 'Q')   |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------|-------|-----|-----|--------------|---|
| 625   |                    | N     | 1   | 126 | unsigned int | Marks a certain order to be included  |
|       |                    |       |     |     |              | in a defined auction.   |
|       |                    |       |     |     |              | Value Description   |
|       |                    |       |     |     |              | 2 Opening or opening auction  |
|       |                    |       |     |     |              | 4 Closing or closing auction  |
|       |                    |       |     |     |              | 8 Any auction   |
|       |                    |       |     |     |              |   |
| 1815  | TradingCapacity    | Y     | 1   | 127 | unsigned int | This field designates if the trader is                                      |
|       |                    |       |     |     |              | acting in the capacity of agent, trad-                                      |
|       |                    |       |     |     |              | ing for its own account or acting as a                                      |
|       |                    |       |     |     |              | market maker.   |
|       |                    |       |     |     |              | Value Description   |
|       |                    |       |     |     |              | 1 Customer (Agency)   |
|       |                    |       |     |     |              | 5 Principal (Proprietary)   |
|       |                    |       |     |     |              | 6 Market Maker  |
| 1724  | OrderOrigination   | N     | 1   | 128 | unsigned int | MiFID field: Field to indicate order  |
| 1,2,  | Orderongination    | ''    | -   |     | ansigned int | received from a direct access or spon-                                      |
|       |                    |       |     |     |              | sored access customer   |
|       |                    |       |     |     |              | Value Description   |
|       |                    |       |     |     |              | Order received from a direct  |
|       |                    |       |     |     |              | 5 access customer   |
|       |                    |       |     |     |              |   |
|       | PartyldInvestment- |       |     |     |              |   |
| 21222 |                    | N     | 1   | 129 | unsigned int | MiFID field: Qualifier for field Party-                                     |
|       | Qualifier          |       |     |     |              | IdInvestmentDecisionMaker. Mem-   |
|       |                    |       |     |     |              | bers/participants will have the possibility to specify an Investment quali- |
|       |                    |       |     |     |              | fier value to distinguish between nat-                                      |
|       |                    |       |     |     |              | ural persons and Algos.   |
|       |                    |       |     |     |              |   |
|       |                    |       |     |     |              | Value Description  22 Algo  |
|       |                    |       |     |     |              |   |
|       |                    |       |     |     |              | 24 Human/Natural person   |
| 25124 | ExecutingTrader-   | Y     | 1   | 120 |              | MICID CALL OUTS S. S.L.   |
| 25124 | Qualifier          | Y     | 1   | 130 | unsigned int | MiFID field: Qualifier for field  Evecuting Trader It is required to dis    |
|       |                    |       |     |     |              | ExecutingTrader. It is required to distinguish between natural persons and  |
|       |                    |       |     |     |              | Algos.  |
|       |                    |       |     |     |              |   |
|       |                    |       |     |     |              | Value Description   |
|       |                    |       |     |     |              | 22 Algo   |
|       |                    |       |     |     |              | 24 Human/Natural person   |
|       |                    |       |     |     |              |   |

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| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 1     | Account                     | N     | 2   | 131 | Fixed String | Accounts to book trades and keep positions on. Valid characters: 1-9, $\xspace \xspace \xspac$ |
| 20038 | PartyIDPosition-<br>Account | N     | 32  | 133 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 77    | PositionEffect              | Y     | 1   | 165 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description C Close O Open  |
| 20075 | PartyIDLocationID           | N     | 2   | 166 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 1031  | CustOrderHandling-<br>Inst  | N     | 1   | 168 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.   |
|       |                             |       |     |     |              | Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values   |

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                 |
|-------|-----------------|-------|-----|-----|--------------|---|
| 2404  | ComplianceText  | N     | 20  | 169 | Fixed String | This field is used to provide addi-         |
|       |                 |       |     |     |              | tional regulatory information (accord-      |
|       |                 |       |     |     |              | ing to respective rules & regs, circu-      |
|       |                 |       |     |     |              | lars and/or bilateral coordination be-      |
|       |                 |       |     |     |              | tween participant and Trading Surveil-      |
|       |                 |       |     |     |              | lance Office).                              |
|       |                 |       |     |     |              | Valid characters: $\x20$ , $\x22-\x7B$ ,    |
|       |                 |       |     |     |              | \x7D, \x7E                                  |
| 25007 | FreeText1       | N     | 12  | 189 | Fixed String | First free-format text field for trader     |
|       |                 |       |     |     |              | specific or customer-related com-           |
|       |                 |       |     |     |              | ments                                       |
|       |                 |       |     |     |              | Valid characters: $\x 20$ , $\x 23-\x 25$ , |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-           |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                 |
| 25008 | FreeText2       | N     | 12  | 201 | Fixed String | Second free-format text field for           |
|       |                 |       |     |     |              | trader specific or customer-related         |
|       |                 |       |     |     |              | comments                                    |
|       |                 |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ ,    |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-           |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                 |
| 25009 | FreeText3       | N     | 12  | 213 | Fixed String | Third free-format text field for trader-    |
|       |                 |       |     |     |              | specific or customer-related com-           |
|       |                 |       |     |     |              | ments.                                      |
|       |                 |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ ,    |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-           |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                 |
| 30011 | FIXCIOrdID      | N     | 20  | 225 | Fixed String | User defined client order ID                |
|       |                 |       |     |     |              | Valid characters: \x20-\x7E                 |
| 25241 | PartyEndClient- | N     | 5   | 245 | Fixed String | End client identifier.                      |
|       | Identification  | '     | J   |     | , Jernig     | Valid characters: A-Z, 0-9, \x20,           |
|       |                 |       |     |     |              | \x5F  |
| 39060 | Pad6            | U     | 6   | 250 | Fixed String | not used                                    |

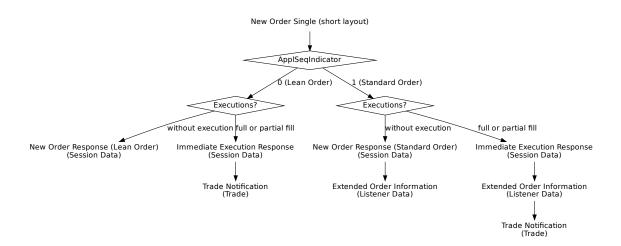
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### 6.2 New Order Single (short layout)

This short order message layout is used by the participant to submit an order in a simple instrument. Selected order attributes are implicitly set. For more details, please refer to the ETI Manual, chapter Short Order Message Layouts. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                              |
|---|--------------|-------|-----|-----|--------------|--|
| < Messa   | geHeaderIn>  |       |     |     |              |  |
| 9   | BodyLen      | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-     |
|   |              |       |     |     |              | cluding this field.                      |
| 28500   | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-      |
|   |              |       |     |     |              | sage layout. Value: 10125 (New-          |
|   |              |       |     |     |              | ${\sf OrderSingle,\ MsgType} = {\sf D)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                 |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                 |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>    |       |     |     |              |  |
| 34  | MsgSeqNum    | Υ     | 4   | 16  | unsigned int | Message sequence number used by the      |
|   |              |       |     |     |              | participant for requests sent to the     |
|   |              |       |     |     |              | gateway.                                 |
| 50  | SenderSubID  | Υ     | 4   | 20  | unsigned int | User ID.                                 |
| < Messa   | geBody>      |       |     |     |              |  |
| 44  | Price        | Y     | 8   | 24  | PriceType    | Limit price.                             |
| 38  | OrderQty     | Υ     | 8   | 32  | Qty          | Total Order Quantity.                    |
| 11  | ClOrdID      | Υ     | 8   | 40  | unsigned int | Client Order ID: Unique participant      |
|   |              |       |     |     |              | defined order request identifier; used   |
|   |              |       |     |     |              | for client order id chaining.            |

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| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------------|-------|-----|-----|--------------|--|
| 20003 |                                     | N     | 8   | 48  | unsigned int | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to identify the client of an order for agent account of the member or participant of the trading venue. If the Client Identifier field is not provided for agent orders, then they will be rejected. For orders sent with Trading Capacity Proprietary or Market Making, the Client Identifier field may remain empty. |
| 20122 | PartyldInvestment-<br>DecisionMaker | N     | 8   | 56  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.   |
| 25123 | ExecutingTrader                     | N     | 8   | 64  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.   |
| 30048 | SimpleSecurityID                    | Y     | 4   | 72  | unsigned int | Instrument identifier for simple instruments. Should be filled with the 4 least significant bytes of SecurityID (48) provided in T7 RDI and T7 RDF reference data.   |
| 28744 | MatchInstCrossID                    | N     | 4   | 76  | unsigned int | Self Match Prevention ID.  |
| 25033 | EnrichmentRuleID                    | N     | 2   | 80  | unsigned int | Identifies an enrichment rule  |
| 54    | Side                                | Y     | 1   | 82  | unsigned int | Side of the order.  Value Description  1 Buy 2 Sell  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---------------------|-------|-----|-----|--------------|--|
| 28703 | ApplSeqIndicator    | Υ     | 1   | 83  | unsigned int | Indicates if the order is a Lean Order                                 |
|       |                     |       |     |     |              | or a Standard Order.   |
|       |                     |       |     |     |              | Value Description  |
|       |                     |       |     |     |              | 0 No Recovery Required   |
|       |                     |       |     |     |              | 1 Recovery Required  |
| 28710 | PriceValidityCheck- | Y     | 1   | 84  |              | Ludiantan hannanian malidian ahaala                                    |
| 20710 | Туре                | ī     | 1   | 04  | unsigned int | Indicator how price validity check should be performed by the exchange |
|       |                     |       |     |     |              | (see the ETI Manual, chapter Price                                     |
|       |                     |       |     |     |              | Reasonability Check).  |
|       |                     |       |     |     |              | Value Description  |
|       |                     |       |     |     |              | 0 None   |
|       |                     |       |     |     |              | 1 Optional   |
|       |                     |       |     |     |              | 2 Mandatory  |
| 25126 | ValueCheckTypeValue | Y     | 1   | 85  | unsigned int | Indicator for checking the maximum                                     |
|       | , , , , ,           |       |     |     |              | order/quote value by the exchange.                                     |
|       |                     |       |     |     |              | Value Description  |
|       |                     |       |     |     |              | 0 Do not check   |
|       |                     |       |     |     |              | 1 Check  |
|       |                     |       |     |     |              |  |
| 23002 | OrderAttribute-     | Y     | 1   | 86  | unsigned int | MiFID field: Indication as to whether                                  |
|       | LiquidityProvision  |       |     |     |              | an order is submitted to a Trading                                     |
|       |                     |       |     |     |              | Venue as part of a market making                                       |
|       |                     |       |     |     |              | strategy.  |
|       |                     |       |     |     |              | Value Description  |
|       |                     |       |     |     |              | 1 Liquidity provision  |
|       |                     |       |     |     |              | 0 No liquidity provision   |
| 59    | TimeInForce         | Y     | 1   | 87  | unsigned int | Execution and trading restriction pa-                                  |
|       |                     |       |     |     | -            | rameters supported by T7.  |
|       |                     |       |     |     |              | Value Description  |
|       |                     |       |     |     |              | 0 Day (GFD)  |
|       |                     |       |     |     |              | Good Till Cancelled (GTC) -  |
|       |                     |       |     |     |              | Standard Orders only   |
|       |                     |       |     |     |              | 3 Immediate or Cancel (IOC)  |
|       |                     |       |     |     |              |  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---|-------|-----|-----|--------------|---|
| 18    | ExecInst  | Υ     | 1   | 88  | unsigned int | Instructions for order handling.  |
|       |   |       |     |     |              | Value Description   |
|       |   |       |     |     |              | Persistent Order (FIX value 'H')  |
|       |   |       |     |     |              | Non-persistent Order (FIX value 'Q')  |
|       |   |       |     |     |              | 5 Persistent and Book or Cancel order (FIX value 'H 6')   |
|       |   |       |     |     |              | Non-persistent and Book or 6 Cancel order (FIX value 'Q 6')   |
| 1815  | TradingCapacity                                   | Y     | 1   | 89  | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  |
|       |   |       |     |     |              | 5 Principal (Proprietary) 6 Market Maker  |
| 1724  | OrderOrigination                                  | N     | 1   | 90  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer   |
|       |   |       |     |     |              | Value Description  Order received from a direct access customer   |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 91  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo |
|       |   |       |     |     |              | 24 Human/Natural person   |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | Y     | 1   | 92  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 2404  | ComplianceText                 | N     | 20  | 93  | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 39070 | Pad7                           | U     | 7   | 113 | Fixed String | not used  |

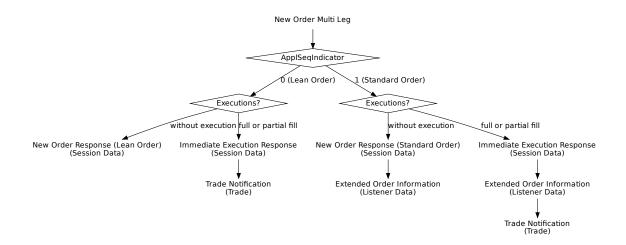
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## 6.3 New Order Multi Leg

The New Order Multi Leg message is provided to submit orders for securities that are made up of multiple securities, known as "legs". For more details, please refer to the ETI Manual, chapter Order Types. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|--------------|-------|-----|-----|--------------|---|
| <messa< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderIn>  |       |     |     |              |   |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |              |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |              |       |     |     |              | sage layout. Value: 10113 (New-             |
|   |              |       |     |     |              | ${\sf OrderMultileg,\ MsgType} = {\sf AB)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                    |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td>•</td><td></td><td></td><td></td><td></td></reque<>  | stHeader>    | •     |     |     |              |   |
| 34  | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the         |
|   |              |       |     |     |              | participant for requests sent to the        |
|   |              |       |     |     |              | gateway.                                    |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa   | geBody>      |       |     |     |              |   |
| 11  | ClOrdID      | N     | 8   | 24  | unsigned int | Client Order ID: Unique participant         |
|   |              |       |     |     |              | defined order request identifier; used      |
|   |              |       |     |     |              | for client order id chaining.               |
| 48  | SecurityID   | Y     | 8   | 32  | signed int   | Instrument identifier.                      |
| 44  | Price        | Y     | 8   | 40  | PriceType    | Limit price. Required if OrdType (40)       |
|   |              |       |     |     |              | is Limit (2) or Stop Limit (4).             |
| 38  | OrderQty     | Y     | 8   | 48  | Qty          | Total Order Quantity.                       |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                               |
|-------|--------------------|-------|-----|-----|--------------|---|
| 20003 | PartyIDClientID    | N     | 8   | 56  | unsigned int | MiFID field: Client Identifier field      |
|       |                    |       |     |     |              | (ESMA Field 3 (Section A))used to         |
|       |                    |       |     |     |              | identify the client of an order for agent |
|       |                    |       |     |     |              | account of the member or partici-         |
|       |                    |       |     |     |              | pant of the trading venue. If the         |
|       |                    |       |     |     |              | Client Identifier field is not provided   |
|       |                    |       |     |     |              | for agent orders, then they will be re-   |
|       |                    |       |     |     |              | jected. For orders sent with Trading      |
|       |                    |       |     |     |              | Capacity Proprietary or Market Mak-       |
|       |                    |       |     |     |              | ing, the Client Identifier field may re-  |
|       |                    |       |     |     |              | main empty.                               |
| 20122 | PartyldInvestment- | N     | 8   | 64  | unsigned int | MiFID field: Investment decision          |
| 20122 | DecisionMaker      |       | O   |     | unsigned int | within firm (ESMA Field 4 (Section        |
|       |                    |       |     |     |              | A)) is the code used to identify the      |
|       |                    |       |     |     |              | person or the algorithm within the        |
|       |                    |       |     |     |              | member or participant of the Trading      |
|       |                    |       |     |     |              | Venue who is responsible for the in-      |
|       |                    |       |     |     |              | vestment decision.                        |
| 25123 | ExecutingTrader    | N     | 8   | 72  | unsigned int | MiFID field: Executing Trader data        |
|       | ,                  |       |     |     | O            | Field(ESMA Field 5 (Section A))used       |
|       |                    |       |     |     |              | to identify the person or algorithm       |
|       |                    |       |     |     |              | within the member or participant of       |
|       |                    |       |     |     |              | the trading venue who is responsible      |
|       |                    |       |     |     |              | for the execution of the transaction re-  |
|       |                    |       |     |     |              | sulting from the order.                   |
| 1300  | MarketSegmentID    | Υ     | 4   | 80  | signed int   | Product identifier.                       |
| 432   | ExpireDate         | N     | 4   | 84  | LocalMktDate | Date of order expiry. Required if         |
|       |                    |       |     |     |              | TimeInForce $(59) = 6$ .                  |
| 28744 | MatchInstCrossID   | N     | 4   | 88  | unsigned int | Self Match Prevention ID.                 |
| 20096 | PartyIDTakeUp-     | N     | 5   | 92  | Fixed String | Take-up Member Short Name.                |
|       | TradingFirm        |       |     |     |              | Valid characters: A-Z, 0-9, \x20          |
| 20013 | PartyIDOrder-      | N     | 7   | 97  | Fixed String | External Member ID.                       |
| 20013 | OriginationFirm    | 1 4   | '   | "   | Tixed String | Valid characters: A-Z, 0-9, \x20          |
| 20032 | PartyIDBeneficiary | N     | 9   | 104 | Fixed String | Final Beneficiary                         |
|       |                    |       |     |     | 9            | Valid characters: A-Z, 0-9, \x20          |
| 28703 | ApplSeqIndicator   | Υ     | 1   | 113 | unsigned int | Indicates if the order is a Lean Order    |
|       |                    |       |     |     |              | or a Standard Order.                      |
|       |                    |       |     |     |              | Value Description                         |
|       |                    |       |     |     |              | 0 No Recovery Required                    |
|       |                    |       |     |     |              | 1 Recovery Required                       |
|       |                    |       |     |     |              |   |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|---------------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex      | Y     | 1   | 114 | unsigned int | This field qualifies an instrument type |
|       |                     |       |     |     |              | on T7.                                  |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 2 Standard Option Strategy              |
|       |                     |       |     |     |              | Non-Standard Option Strat-              |
|       |                     |       |     |     |              | egy                                     |
|       |                     |       |     |     |              | 4 Volatility Strategy                   |
|       |                     |       |     |     |              | 5 Futures Spread                        |
|       |                     |       |     |     |              | 6 Inter-Product Spread                  |
|       |                     |       |     |     |              | 7 Standard Future Strategy              |
|       |                     |       |     |     |              | 8 Pack and Bundle                       |
|       |                     |       |     |     |              | 9 Strip                                 |
|       |                     |       |     |     |              | 11 Commodity Strip                      |
| F.4   | C                   |       | -   | 115 |              | Sit out                                 |
| 54    | Side                | Y     | 1   | 115 | unsigned int | Side of the order.                      |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 1 Buy                                   |
|       |                     |       |     |     |              | 2 Sell                                  |
| 40    | OrdType             | Y     | 1   | 116 | unsigned int | Order type.                             |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 2 Limit                                 |
|       |                     |       |     |     |              |   |
| 28710 | PriceValidityCheck- | Y     | 1   | 117 | unsigned int | Indicator how price validity check      |
|       | Туре                |       |     |     |              | should be performed by the exchange     |
|       |                     |       |     |     |              | (see the ETI Manual, chapter Price      |
|       |                     |       |     |     |              | Reasonability Check).                   |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 0 None                                  |
|       |                     |       |     |     |              | 1 Optional                              |
|       |                     |       |     |     |              | 2 Mandatory                             |
|       |                     |       |     |     |              |   |
| 25126 | ValueCheckTypeValue | Y     | 1   | 118 | unsigned int | Indicator for checking the maximum      |
|       |                     |       |     |     |              | order/quote value by the exchange.      |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 0 Do not check                          |
|       |                     |       |     |     |              | 1 Check                                 |
|       |                     |       |     |     |              |   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 119 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision   |
| 23003 | OrderAttributeRisk-Reduction          | N     | 1   | 120 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.  Value Description  1 Risk reduction  0 No risk reduction |
| 18    | ExecInst                              | Y     | 1   | 121 | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')   |
| 59    | TimeInForce                           | Y     | 1   | 122 | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)  6 Good Till Date (GTD) - Standard Orders only   |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 1815  | TradingCapacity                                   | Y     | 1   | 123 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker  |
| 1724  | OrderOrigination                                  | N     | 1   | 124 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 125 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 25124 | ExecutingTrader-<br>Qualifier                     | Y     | 1   | 126 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 20075 | PartyIDLocationID                                 | N     | 2   | 127 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |

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| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 2404  |                             | N     | 20  | 129 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 1031  | CustOrderHandling-Inst      | N     | 1   | 149 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 20038 | PartyIDPosition-<br>Account | N     | 32  | 150 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30-\x39$ , $\x41-\x5A$   |
|       | FreeText1                   | N     | 12  | 182 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | FreeText2                   | N     | 12  | 194 | Fixed String | Second free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |

| Tag  | Field Name              | Req'd   | Len    | Ofs    | Data Type       | Description                              |
|--|-------------------------|---------|--------|--------|-----------------|--|
| 25009  | FreeText3               | N       | 12     | 206    | Fixed String    | Third free-format text field for trader- |
|  |                         |         |        |        |                 | specific or customer-related com-        |
|  |                         |         |        |        |                 | ments.                                   |
|  |                         |         |        |        |                 | Valid characters: $\x20$ , $\x23-\x25$ , |
|  |                         |         |        |        |                 | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|  |                         |         |        |        |                 | \x5F, \x61-\x7B, \x7D, \x7E              |
| 30011  | FIXCIOrdID              | N       | 20     | 218    | Fixed String    | User defined client order ID             |
|  |                         |         |        |        |                 | Valid characters: \x20-\x7E              |
| 25241  | PartyEndClient-         | N       | 5      | 238    | Fixed String    | End client identifier.                   |
| 23211  | Identification          | '       | 9      | 250    | Tixed String    | Valid characters: A-Z, 0-9, \x20,        |
|  |                         |         |        |        |                 | \x5F                                     |
| 28555  | NoLegOnbooks            | Y       | 1      | 243    | Counter         | Number of InstrumentLeg repeating        |
|  |                         |         |        |        |                 | group instances. (only for on-book       |
|  |                         |         |        |        |                 | trades)                                  |
| 39040  | Pad4                    | U       | 4      | 244    | Fixed String    | not used                                 |
| <leg(< td=""><td>OrdGrp&gt; Cardinality: 0-</td><td>144, Re</td><td>cord o</td><td>counte</td><td>r: NoLegOnbooks</td><td>5</td></leg(<> | OrdGrp> Cardinality: 0- | 144, Re | cord o | counte | r: NoLegOnbooks | 5  |
| 2680   | >LegAccount             | N       | 2      | 248    | Fixed String    | Leg-specific account to book trades      |
|  |                         |         |        |        |                 | and keep positions on.                   |
|  |                         |         |        |        |                 | Valid characters: 1-9, \x41, \x47,       |
|  |                         |         |        |        |                 | \x4D, \x50                               |
| 564  | >LegPositionEffect      | Υ       | 1      | 250    | char            | Leg-specific field used for T7 position  |
|  |                         |         |        |        |                 | management purposes and indicates        |
|  |                         |         |        |        |                 | whether the leg is submitted to open     |
|  |                         |         |        |        |                 | or close a position.                     |
|  |                         |         |        |        |                 | Value Description                        |
|  |                         |         |        |        |                 | C Close                                  |
|  |                         |         |        |        |                 | O Open                                   |
|  |                         |         |        |        |                 |  |
| 39050  | >Pad5                   | U       | 5      | 251    | Fixed String    | not used                                 |

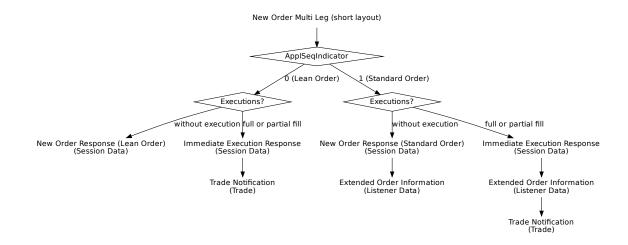
| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

Deutsche Börse Group

Build 111.470.1.ga-111004071-18

# 6.4 New Order Multi Leg (short layout)

This message is sent to the service "Order and Quote Management".



| Tag     | Field Name                      | Req'd | Len | Ofs | Data Type    | Description                              |  |  |  |
|---------|---------------------------------|-------|-----|-----|--------------|--|--|--|--|
| < Messa | geHeaderIn>                     |       |     |     |              |  |  |  |  |
| 9       | BodyLen                         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-     |  |  |  |
|         |                                 |       |     |     |              | cluding this field.                      |  |  |  |
| 28500   | TemplateID                      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-      |  |  |  |
|         |                                 |       |     |     |              | sage layout. Value: 10129 (New-          |  |  |  |
|         |                                 |       |     |     |              | ${\sf OrderSingle,\ MsgType} = {\sf D)}$ |  |  |  |
| 25028   | NetworkMsgID                    | U     | 8   | 6   | Fixed String | not used                                 |  |  |  |
| 39020   | Pad2                            | U     | 2   | 14  | Fixed String | not used                                 |  |  |  |
| < Reque | <requestheader></requestheader> |       |     |     |              |  |  |  |  |
| 34      | MsgSeqNum                       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the      |  |  |  |
|         |                                 |       |     |     |              | participant for requests sent to the     |  |  |  |
|         |                                 |       |     |     |              | gateway.                                 |  |  |  |
| 50      | SenderSubID                     | Y     | 4   | 20  | unsigned int | User ID.                                 |  |  |  |
| < Messa | geBody>                         |       |     |     |              |  |  |  |  |
| 48      | SecurityID                      | Υ     | 8   | 24  | signed int   | Instrument identifier.                   |  |  |  |
| 44      | Price                           | Υ     | 8   | 32  | PriceType    | Limit price. Required if OrdType (40)    |  |  |  |
|         |                                 |       |     |     |              | is Limit (2) or Stop Limit (4).          |  |  |  |
| 38      | OrderQty                        | Υ     | 8   | 40  | Qty          | Total Order Quantity.                    |  |  |  |
| 11      | ClOrdID                         | Υ     | 8   | 48  | unsigned int | Client Order ID: Unique participant      |  |  |  |
|         |                                 |       |     |     |              | defined order request identifier; used   |  |  |  |
|         |                                 |       |     |     |              | for client order id chaining.            |  |  |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                               |
|-------|--------------------|-------|-----|-----|--------------|---|
| 20003 | PartyIDClientID    | N     | 8   | 56  | unsigned int | MiFID field: Client Identifier field      |
|       |                    |       |     |     |              | (ESMA Field 3 (Section A))used to         |
|       |                    |       |     |     |              | identify the client of an order for agent |
|       |                    |       |     |     |              | account of the member or partici-         |
|       |                    |       |     |     |              | pant of the trading venue. If the         |
|       |                    |       |     |     |              | Client Identifier field is not provided   |
|       |                    |       |     |     |              | for agent orders, then they will be re-   |
|       |                    |       |     |     |              | jected. For orders sent with Trading      |
|       |                    |       |     |     |              | Capacity Proprietary or Market Mak-       |
|       |                    |       |     |     |              | ing, the Client Identifier field may re-  |
|       |                    |       |     |     |              | main empty.                               |
| 20122 | PartyldInvestment- | N     | 8   | 64  | unsigned int | MiFID field: Investment decision          |
|       | DecisionMaker      |       |     |     |              | within firm (ESMA Field 4 (Section        |
|       |                    |       |     |     |              | A)) is the code used to identify the      |
|       |                    |       |     |     |              | person or the algorithm within the        |
|       |                    |       |     |     |              | member or participant of the Trading      |
|       |                    |       |     |     |              | Venue who is responsible for the in-      |
|       |                    |       |     |     |              | vestment decision.                        |
| 25123 | ExecutingTrader    | N     | 8   | 72  | unsigned int | MiFID field: Executing Trader data        |
|       |                    |       |     |     |              | Field(ESMA Field 5 (Section A))used       |
|       |                    |       |     |     |              | to identify the person or algorithm       |
|       |                    |       |     |     |              | within the member or participant of       |
|       |                    |       |     |     |              | the trading venue who is responsible      |
|       |                    |       |     |     |              | for the execution of the transaction re-  |
|       |                    |       |     |     |              | sulting from the order.                   |
|       | MarketSegmentID    | Y     | 4   | 80  | signed int   | Product identifier.                       |
|       | MatchInstCrossID   | N     | 4   | 84  | unsigned int | Self Match Prevention ID.                 |
|       | EnrichmentRuleID   | N     | 2   | 88  | unsigned int | Identifies an enrichment rule             |
| 28703 | ApplSeqIndicator   | Y     | 1   | 90  | unsigned int | Indicates if the order is a Lean Order    |
|       |                    |       |     |     |              | or a Standard Order.                      |
|       |                    |       |     |     |              | Value Description                         |
|       |                    |       |     |     |              | 0 No Recovery Required                    |
|       |                    |       |     |     |              | 1 Recovery Required                       |
|       |                    |       |     |     |              |   |

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex      | Υ     | 1   | 91  | unsigned int | This field qualifies an instrument type                               |
|       |                     |       |     |     |              | on T7.  |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 2 Standard Option Strategy  |
|       |                     |       |     |     |              | Non-Standard Option Strategy  |
|       |                     |       |     |     |              | 4 Volatility Strategy   |
|       |                     |       |     |     |              | 5 Futures Spread  |
|       |                     |       |     |     |              | 6 Inter-Product Spread  |
|       |                     |       |     |     |              | 7 Standard Future Strategy  |
|       |                     |       |     |     |              | 8 Pack and Bundle   |
|       |                     |       |     |     |              | 9 Strip   |
|       |                     |       |     |     |              | 11 Commodity Strip  |
|       |                     | .,    |     |     |              |   |
| 54    | Side                | Y     | 1   | 92  | unsigned int | Side of the order.  |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 1 Buy   |
|       |                     |       |     |     |              | 2 Sell  |
|       | PriceValidityCheck- |       |     |     |              |   |
| 28710 | Type                | Y     | 1   | 93  | unsigned int | Indicator how price validity check                                    |
|       | 1,7,6-2             |       |     |     |              | should be performed by the exchange                                   |
|       |                     |       |     |     |              | (see the ETI Manual, chapter Price                                    |
|       |                     |       |     |     |              | Reasonability Check).   |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 0 None  |
|       |                     |       |     |     |              | 1 Optional  |
|       |                     |       |     |     |              | 2 Mandatory   |
| 25126 | ValuaChackTimaValua | Y     | 1   | 94  | uncigned int | Indicator for chacking the maying                                     |
| 23120 | ValueCheckTypeValue | ſ     | 1   | 94  | unsigned int | Indicator for checking the maximum order/quote value by the exchange. |
|       |                     |       |     |     |              |   |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 0 Do not check  |
|       |                     |       |     |     |              | 1 Check   |
|       |                     |       |     |     |              |   |

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| Tag   | Field Name                            | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|----------|-----|-----|--------------|---|
| 23002 | OrderAttribute-<br>LiquidityProvision | Y        | 1   | 95  | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision                             |
| 18    | ExecInst                              | Y        | 1   | 96  | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')   |
| 59    | TimeInForce                           | <b>Y</b> | 1   | 97  | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)                                      |
| 1815  | TradingCapacity                       | Y        | 1   | 98  | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker |
| 1724  | OrderOrigination                      | N        | 1   | 99  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer  |

| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------|-------|-----|-----|--------------|--|
| 21222 | PartyldInvestment-            | N N   | 1   | 100 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 25124 | ExecutingTrader-<br>Qualifier | Y     | 1   | 101 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 2404  |                               | N     | 20  | 102 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E              |
| 39060 | Pad6                          | U     | 6   | 122 | Fixed String | not used   |

| Deutsche Börse Group's T7 Release 11.1 |  |
|--|--|
| Enhanced Trading Interface             |  |
| Derivatives Message Reference          |  |

Deutsche Börse Group

Build 111.470.1.ga-111004071-18

# 6.5 New Order Response (Standard Order)

This message confirms a New Order request for a Standard Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Section 19 SodyLen Program of Sec | a T7 ETI<br>alue: 10101<br>Type = 8) |
|---|--------------------------------------|
| cluding this field.  28500 TemplateID Y 2 4 unsigned int Unique identifier for message layout. Va (ExecutionReport, MsgT 39020 Pad2 U 2 6 Fixed String not used   | a T7 ETI<br>alue: 10101<br>Type = 8) |
| 28500 TemplateID Y 2 4 unsigned int Unique identifier for message layout. Va (ExecutionReport, MsgT 39020 Pad2 U 2 6 Fixed String not used  | Type = 8)                            |
| message layout. Va<br>(ExecutionReport, MsgT  | Type = 8)                            |
| 39020 Pad2 U 2 6 Fixed String not used (ExecutionReport, MsgT   | Туре = 8)                            |
| 39020 Pad2 U 2 6 Fixed String not used  |                                      |
|   | lucius by the                        |
| <responseheaderme></responseheaderme>   | lways by the                         |
|   | hyaye by the                         |
| 5979 RequestTime Y 8 8 UTCTimestamp In timestamp; filled all gateway  | iways by the                         |
| 21002 TrdRegTSTimeIn Y 8 16 UTCTimestamp Matching engine in time  | estamp.                              |
| 21003 TrdRegTSTimeOut Y 8 24 UTCTimestamp Matching engine out time  | nestamp.                             |
| 7765 Responseln Y 8 32 UTCTimestamp Timestamp the gatewa  | ay receives a                        |
| message from the Match  | hing Engine                          |
| 52 SendingTime Y 8 40 UTCTimestamp Outgoing delta timesta   | mp; filled al-                       |
| ways by the gateway   |                                      |
| 34 MsgSeqNum Y 4 48 unsigned int Message sequence numb  | - 1                                  |
| participant for requests  | s sent to the                        |
| gateway.  |                                      |
| 5948 PartitionID Y 2 52 unsigned int Grouping of T7 products  |                                      |
| Belongs to the scope of   |                                      |
| ability and Retransmit re   | -                                    |
| 1180 AppIID Y 1 54 unsigned int Identifier for an ETI dat   | a stream.                            |
| Value   Description   |                                      |
| 4 Session Data  |                                      |
| 28704 ApplMsgID N 16 55 data Application message i  | identifier as                        |
| signed to an order or qu  |                                      |
| 893 LastFragment Y 1 71 unsigned int Indicates whether this m   |                                      |
| last fragment (part) of a   | -                                    |
| messages belonging to d   | -                                    |
| transaction.  |                                      |
| Value Description   |                                      |
| 0 Not Last Messag   | <sub>σe</sub>                        |
| 1 Last Message  | 0~                                   |
| Last Wessage  |                                      |
| <messagebody></messagebody>   |                                      |

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| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type    | Description   |
|-------|----------------------------|-------|-----|-----|--------------|---|
| 37    | OrderID                    | Υ     | 8   | 72  | unsigned int | Exchange Order ID generated by the  |
|       |                            |       |     |     |              | T7 System; it remains constant over   |
|       |                            |       |     |     |              | the lifetime of an order.   |
| 11    | ClOrdID                    | N     | 8   | 80  | unsigned int | Client Order ID: Unique participant   |
|       |                            |       |     |     |              | defined order request identifier; used  |
|       |                            |       |     |     |              | for client order id chaining.   |
| 48    | SecurityID                 | Y     | 8   | 88  | signed int   | Instrument identifier.  |
| 17    | ExecID                     | Υ     | 8   | 96  | UTCTimestamp | Transaction timestamp.  |
| 151   | LeavesQty                  | Υ     | 8   | 104 | Qty          | Remaining quantity of an order.   |
| 84    | CxIQty                     | Υ     | 8   | 112 | Qty          | Total quantity cancelled for this order.                                      |
| 21009 | TrdRegTSEntryTime          | Υ     | 8   | 120 | UTCTimestamp | The entry timestamp is the time of  |
|       |                            |       |     |     |              | the creation of the order.  |
| 21008 | TrdRegTSTime-<br>Priority  | Y     | 8   | 128 | UTCTimestamp | Priority timestamp.   |
| 39    | OrdStatus                  | Υ     | 1   | 136 | char         | Conveys the current status of an or-  |
|       |                            |       |     |     |              | der.  |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 0 New   |
|       |                            |       |     |     |              | 4 Cancelled   |
|       |                            |       |     |     |              | 9 Suspended   |
|       |                            |       |     |     |              | Современия  |
| 150   | ExecType                   | Υ     | 1   | 137 | char         | The reason why this message was gen-  |
|       |                            |       |     |     |              | erated.   |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 0 New   |
|       |                            |       |     |     |              | 4 Cancelled   |
|       |                            |       |     |     |              | L Triggered   |
|       |                            |       |     |     |              | Triggered   |
| 378   | ExecRestatement-<br>Reason | Y     | 2   | 138 | unsigned int | Code to further qualify the field Exec-<br>Type (150) of the Execution Report |
|       |                            |       |     |     |              | (8) message.  |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | · · · · · · · · · · · · · · · · · · ·   |
|       |                            |       |     |     |              |   |
|       |                            |       |     |     |              | 105 IOC Order accepted  Book or Cancel Order ac-                              |
|       |                            |       |     |     |              | 212 cepted  |
|       |                            |       |     |     |              | 114 Order has been changed to IOC   |
|       |                            |       |     |     |              |   |

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| Tag   | Field Name             | Req'd | Len     | Ofs | Data Type    | Description                             |
|-------|------------------------|-------|---------|-----|--------------|---|
| 2523  | CrossedIndicator       | Υ     | 1       | 140 | unsigned int | Indicates SMP involvement.              |
|       |                        |       |         |     |              | Value Description                       |
|       |                        |       |         |     |              | No crossing (Order not sub-             |
|       |                        |       |         |     |              | ject to crossing)                       |
|       |                        |       |         |     |              | Cross rejected (Order subject           |
|       |                        |       |         |     |              | 1 to crossing and match pre-            |
|       |                        |       |         |     |              | vented)                                 |
| 1227  | ProductComplex         | Y     | 1       | 141 | unsigned int | This field qualifies an instrument type |
|       | r roduct complex       |       | _       |     | anoigned in  | on T7.                                  |
|       |                        |       |         |     |              | Value Description                       |
|       |                        |       |         |     |              | 1 Simple instrument                     |
|       |                        |       |         |     |              | 2 Standard Option Strategy              |
|       |                        |       |         |     |              | Non-Standard Option Strat-              |
|       |                        |       |         |     |              | a egy                                   |
|       |                        |       |         |     |              | 4 Volatility Strategy                   |
|       |                        |       |         |     |              | 5 Futures Spread                        |
|       |                        |       |         |     |              | 6 Inter-Product Spread                  |
|       |                        |       |         |     |              | 7 Standard Future Strategy              |
|       |                        |       |         |     |              | 8 Pack and Bundle                       |
|       |                        |       |         |     |              | 9 Strip                                 |
|       |                        |       |         |     |              | 11 Commodity Strip                      |
| 1823  | Triggered              | Y     | 1       | 142 | unsigned int | Indicates if an order has been previ-   |
| 1020  | Triggered              |       | -       | 1.2 | ansigned int | ously triggered.                        |
|       |                        |       |         |     |              | Value Description                       |
|       |                        |       |         |     |              | 0 Not Triggered                         |
|       |                        |       |         |     |              | 1 Triggered Stop                        |
|       |                        |       |         |     |              | 2 Triggered OCO                         |
|       | TransactionDelay-      |       |         |     |              |   |
| 25159 | Indicator              | Y     | 1       | 143 | unsigned int | Indicator for a delayed transaction     |
|       |                        |       |         |     |              | Value Description                       |
|       |                        |       |         |     |              | 0 Transaction not delayed               |
|       |                        |       |         |     |              | 1 Transaction delayed                   |
| 28790 | NoOrderEvents          | Y     | 1       | 144 | Counter      | Number of order events                  |
| 39070 |                        | U     | 7       | 145 | Fixed String | not used                                |
|       | rEventGrp> Cardinality |       | ), Reco |     |              |   |
| 1799  |                        | Υ     | 8       | 152 | PriceType    | Price level for the order event.        |
| 1800  | >OrderEventQty         | Υ     | 8       | 160 | Qty          | Quantity for the order event.           |

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| Derivatives Message Reference          |

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|--------------------|-------|-----|-----|--------------|--|
| 30060 | >OrderEventMatchID | Y     | 4   | 168 | unsigned int | Unique identifier for each price level |
|       |                    |       |     |     |              | (match step) of an order event.        |
| 1798  | >OrderEventReason  | Y     | 1   | 172 | unsigned int | Action that caused the event to occur. |
|       |                    |       |     |     |              |  |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 100 SMP event                          |
|       |                    |       |     |     |              |  |
| 39030 | >Pad3              | U     | 3   | 173 | Fixed String | not used                               |

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| Derivatives Message Reference          |

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# 6.6 New Order Response (Lean Order)

This message confirms a New Order request for a Lean Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name                            | Req'd                                 | Len | Ofs | Data Type    | Description   |  |  |  |  |
|---|---------------------------------------|---------------------------------------|-----|-----|--------------|---|--|--|--|--|
|   | <messageheaderout></messageheaderout> |                                       |     |     |              |   |  |  |  |  |
| 9   | BodyLen                               | Y                                     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |  |  |
|   |                                       |                                       |     |     |              | cluding this field.   |  |  |  |  |
| 28500   | TemplateID                            | Y                                     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI  |  |  |  |  |
|   |                                       |                                       |     |     |              | message layout. Value: 10102  |  |  |  |  |
|   |                                       |                                       |     |     |              | (ExecutionReport, MsgType $= 8$ )   |  |  |  |  |
| 39020   | Pad2                                  | U                                     | 2   | 6   | Fixed String | not used  |  |  |  |  |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre:<> | sponseHeaderME>                       |                                       |     |     |              |   |  |  |  |  |
| 5979  | RequestTime                           | Y                                     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway                                  |  |  |  |  |
| 21002   | TrdRegTSTimeIn                        | Υ                                     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.   |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | Y                                     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.  |  |  |  |  |
| 7765  | ResponseIn                            | Υ                                     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a  |  |  |  |  |
|   |                                       |                                       |     |     |              | message from the Matching Engine  |  |  |  |  |
| 52  | SendingTime                           | Y                                     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |  |  |  |  |
|   |                                       |                                       |     |     |              | ways by the gateway   |  |  |  |  |
| 34  | MsgSeqNum                             | Y                                     | 4   | 48  | unsigned int | Message sequence number used by the   |  |  |  |  |
|   |                                       |                                       |     |     |              | participant for requests sent to the  |  |  |  |  |
| 002   |                                       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | F2  |              | gateway.  |  |  |  |  |
| 893   | LastFragment                          | Y                                     | 1   | 52  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of |  |  |  |  |
|   |                                       |                                       |     |     |              | messages belonging to one dedicated   |  |  |  |  |
|   |                                       |                                       |     |     |              | transaction.  |  |  |  |  |
|   |                                       |                                       |     |     |              | Value Description   |  |  |  |  |
|   |                                       |                                       |     |     |              | 0 Not Last Message  |  |  |  |  |
|   |                                       |                                       |     |     |              | 1 Last Message  |  |  |  |  |
|   |                                       |                                       |     |     |              | Last iviessage  |  |  |  |  |
| 39030   | Pad3                                  | U                                     | 3   | 53  | Fixed String | not used  |  |  |  |  |
| <messa< td=""><td>geBody&gt;</td><td>_</td><td></td><td>ı</td><td>ı</td><td></td></messa<>      | geBody>                               | _                                     |     | ı   | ı            |   |  |  |  |  |
| 37  | OrderID                               | Y                                     | 8   | 56  | unsigned int | Exchange Order ID generated by the  |  |  |  |  |
|   |                                       |                                       |     |     |              | T7 System; it remains constant over   |  |  |  |  |
|   |                                       |                                       |     |     |              | the lifetime of an order.   |  |  |  |  |
| 11  | ClOrdID                               | N                                     | 8   | 64  | unsigned int | Client Order ID: Unique participant   |  |  |  |  |
|   |                                       |                                       |     |     |              | defined order request identifier; used                                      |  |  |  |  |
|   |                                       |                                       |     |     |              | for client order id chaining.   |  |  |  |  |
|   | SecurityID                            | Y                                     | 8   | 72  | signed int   | Instrument identifier.  |  |  |  |  |
| 17  |                                       | Y                                     | 8   | 80  | UTCTimestamp | Transaction timestamp.  |  |  |  |  |
| 151   | LeavesQty                             | Y                                     | 8   | 88  | Qty          | Remaining quantity of an order.   |  |  |  |  |

| Tag  | Field Name                 | Req'd | Len | Ofs | Data Type    | Description   |
|------|----------------------------|-------|-----|-----|--------------|---|
| 84   | CxlQty                     | Y     | 8   | 96  | Qty          | Total quantity cancelled for this order.  |
| 39   | OrdStatus                  | Y     | 1   | 104 | char         | Conveys the current status of an order.   |
|      |                            |       |     |     |              | Value Description   |
|      |                            |       |     |     |              | 0 New   |
|      |                            |       |     |     |              | 4 Cancelled   |
|      |                            |       |     |     |              | 9 Suspended   |
| 150  | ExecType                   | Y     | 1   | 105 | char         | The reason why this message was generated.  |
|      |                            |       |     |     |              | Value Description   |
|      |                            |       |     |     |              | 0 New   |
|      |                            |       |     |     |              | 4 Cancelled   |
|      |                            |       |     |     |              | L Triggered   |
| 378  | ExecRestatement-<br>Reason | Y     | 2   | 106 | unsigned int | Code to further qualify the field Exec-<br>Type (150) of the Execution Report<br>(8) message. |
|      |                            |       |     |     |              | Value Description   |
|      |                            |       |     |     |              | 101 Order add accepted  |
|      |                            |       |     |     |              | 105 IOC Order accepted  Book or Cancel Order accepted cepted                                  |
|      |                            |       |     |     |              | Order has been changed to IOC   |
| 2523 | CrossedIndicator           | Υ     | 1   | 108 | unsigned int | Indicates SMP involvement.  |
|      |                            |       |     |     |              | Value Description   |
|      |                            |       |     |     |              | No crossing (Order not subject to crossing)   |
|      |                            |       |     |     |              | Cross rejected (Order subject   |
|      |                            |       |     |     |              | 1 to crossing and match pre-  |
|      |                            |       |     |     |              | vented)   |
|      |                            |       |     |     |              |   |

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| Tag   | Field Name                              | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 1227  | ProductComplex                          | Υ     | 1   | 109 | unsigned int | This field qualifies an instrument type              |
|       |   |       |     |     |              | on T7.   |
|       |   |       |     |     |              | Value Description                                    |
|       |   |       |     |     |              | 1 Simple instrument                                  |
|       |   |       |     |     |              | 2 Standard Option Strategy                           |
|       |   |       |     |     |              | 3 Non-Standard Option Strategy                       |
|       |   |       |     |     |              | 4 Volatility Strategy                                |
|       |   |       |     |     |              | 5 Futures Spread                                     |
|       |   |       |     |     |              | 6 Inter-Product Spread                               |
|       |   |       |     |     |              | 7 Standard Future Strategy                           |
|       |   |       |     |     |              | 8 Pack and Bundle                                    |
|       |   |       |     |     |              | 9 Strip  |
|       |   |       |     |     |              | 11 Commodity Strip                                   |
| 1823  | Triggered                               | Y     | 1   | 110 | unsigned int | Indicates if an order has been previously triggered. |
|       |   |       |     |     |              | Value Description                                    |
|       |   |       |     |     |              | 0 Not Triggered                                      |
|       |   |       |     |     |              | 1 Triggered Stop                                     |
|       |   |       |     |     |              | 2 Triggered OCO                                      |
| 25159 | TransactionDelay-<br>Indicator          | Y     | 1   | 111 | unsigned int | Indicator for a delayed transaction                  |
|       |   |       |     |     |              | Value Description                                    |
|       |   |       |     |     |              | 0 Transaction not delayed                            |
|       |   |       |     |     |              | 1 Transaction delayed                                |
| 28790 | NoOrderEvents                           | Y     | 1   | 112 | Counter      | Number of order events                               |
| 39070 |   | U     | 7   | 113 | Fixed String | not used   |
|       | Pau <i>r</i><br>erEventGrp> Cardinality |       |     |     |              |  |
| 1799  |   | Y     | 8   | 120 | PriceType    | Price level for the order event.                     |
| 1800  |   | Y     | 8   | 128 | Qty          | Quantity for the order event.                        |
| 30060 |   | Υ     | 4   | 136 | unsigned int | Unique identifier for each price level               |
|       |   |       |     |     | G            | (match step) of an order event.                      |
| 1798  | >OrderEventReason                       | Y     | 1   | 140 | unsigned int | Action that caused the event to occur.               |
|       |   |       |     |     |              | Value Description                                    |
|       |   |       |     |     |              | 100 SMP event  |
|       |   |       |     |     |              |  |
| 39030 | >Pad3                                   | U     | 3   | 141 | Fixed String | not used   |

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| Enhanced Trading Interface             |                                 |
| Derivatives Message Reference          | Build 111.470.1.ga-111004071-18 |

# 6.7 Immediate Execution Response

This message informs about the immediate execution of an incoming order or the execution of a book order due to a replace request. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag  | Field Name                            | Req'd | Len | Ofs | Data Type      | Description                                |  |  |  |  |
|--|---------------------------------------|-------|-----|-----|----------------|--|--|--|--|--|
| <messa< th=""><th colspan="10"><messageheaderout></messageheaderout></th></messa<> | <messageheaderout></messageheaderout> |       |     |     |                |  |  |  |  |  |
| 9  | BodyLen                               | Y     | 4   | 0   | unsigned int   | Number of bytes for the message, in-       |  |  |  |  |
|  |                                       |       |     |     |                | cluding this field.                        |  |  |  |  |
| 28500  | TemplateID                            | Y     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI             |  |  |  |  |
|  |                                       |       |     |     |                | message layout. Value: 10103               |  |  |  |  |
|  |                                       |       |     | _   |                | (ExecutionReport, MsgType = 8)             |  |  |  |  |
| 39020  |                                       | U     | 2   | 6   | Fixed String   | not used                                   |  |  |  |  |
| ,  | nseHeaderME>                          |       |     | ı   | T              |  |  |  |  |  |
| 5979   | RequestTime                           | Y     | 8   | 8   | UTCTimestamp   | In timestamp; filled always by the gateway |  |  |  |  |
| 21002  | TrdRegTSTimeIn                        | Y     | 8   | 16  | UTCTimestamp   | Matching engine in timestamp.              |  |  |  |  |
| 21003  |                                       | Y     | 8   | 24  | UTCTimestamp   | Matching engine out timestamp.             |  |  |  |  |
| 7765   |                                       | Y     | 8   | 32  | UTCTimestamp   | Timestamp the gateway receives a           |  |  |  |  |
| 1103   | rtesponsem                            | '     | O   | 52  | OTCTIMEStamp   | message from the Matching Engine           |  |  |  |  |
| 52   | SendingTime                           | Y     | 8   | 40  | UTCTimestamp   | Outgoing delta timestamp; filled al-       |  |  |  |  |
| 32   | Schaing rime                          | '     | Ü   | 10  | o re rimestamp | ways by the gateway                        |  |  |  |  |
| 34   | MsgSeqNum                             | Y     | 4   | 48  | unsigned int   | Message sequence number used by the        |  |  |  |  |
|  | , maga eqritam                        |       |     |     |                | participant for requests sent to the       |  |  |  |  |
|  |                                       |       |     |     |                | gateway.                                   |  |  |  |  |
| 5948   | PartitionID                           | Y     | 2   | 52  | unsigned int   | Grouping of T7 products.                   |  |  |  |  |
|  |                                       |       |     |     |                | Belongs to the scope of Service Avail-     |  |  |  |  |
|  |                                       |       |     |     |                | ability and Retransmit requests.           |  |  |  |  |
| 1180   | ApplID                                | Y     | 1   | 54  | unsigned int   | Identifier for an ETI data stream.         |  |  |  |  |
|  |                                       |       |     |     |                | Value Description                          |  |  |  |  |
|  |                                       |       |     |     |                | 4 Session Data                             |  |  |  |  |
|  |                                       |       |     |     |                |  |  |  |  |  |
| 28704  | ApplMsgID                             | N     | 16  | 55  | data           | Not set if the submitting session is not   |  |  |  |  |
|  |                                       |       |     |     |                | the owner of the executed order.           |  |  |  |  |
| 893  | LastFragment                          | Y     | 1   | 71  | unsigned int   | Indicates whether this message is the      |  |  |  |  |
|  |                                       |       |     |     |                | last fragment (part) of a sequence of      |  |  |  |  |
|  |                                       |       |     |     |                | messages belonging to one dedicated        |  |  |  |  |
|  |                                       |       |     |     |                | transaction.                               |  |  |  |  |
|  |                                       |       |     |     |                | Value Description                          |  |  |  |  |
|  |                                       |       |     |     |                | 0 Not Last Message                         |  |  |  |  |
|  |                                       |       |     |     |                | 1 Last Message                             |  |  |  |  |
|  |                                       |       |     |     |                |  |  |  |  |  |
| < Messa  | geBody>                               |       |     |     |                |  |  |  |  |  |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|-------------------|-------|-----|-----|--------------|--|
| 37    | OrderID           | Υ     | 8   | 72  | unsigned int | Exchange Order ID generated by the       |
|       |                   |       |     |     |              | T7 System; it remains constant over      |
|       |                   |       |     |     |              | the lifetime of an order.                |
| 11    | ClOrdID           | N     | 8   | 80  | unsigned int | Client Order ID: Unique participant      |
|       |                   |       |     |     |              | defined order request identifier; used   |
|       |                   |       |     |     |              | for client order id chaining.            |
| 41    | OrigClOrdID       | N     | 8   | 88  | unsigned int | CIOrdID (11) of the last successfully    |
|       |                   |       |     |     |              | processed task (request) referring to    |
|       |                   |       |     |     |              | the specific order.                      |
| 48    | SecurityID        | Y     | 8   | 96  | signed int   | Instrument identifier.                   |
| 17    | ExecID            | Y     | 8   | 104 | UTCTimestamp | Transaction timestamp.                   |
| 21009 | TrdRegTSEntryTime | N     | 8   | 112 | UTCTimestamp | The entry timestamp is the time of       |
|       |                   |       |     |     |              | the creation of the order.               |
| 21008 | TrdRegTSTime-     | N     | 8   | 120 | UTCTimestamp | Priority timestamp.                      |
|       | Priority          |       |     |     |              |  |
| 151   | LeavesQty         | Y     | 8   | 128 | Qty          | Remaining quantity of an order.          |
| 14    | CumQty            | Y     | 8   | 136 | Qty          | Cumulated executed quantity of an or-    |
|       |                   |       |     |     |              | der.                                     |
| 84    | ` ,               | Y     | 8   | 144 | Qty          | Total quantity cancelled for this order. |
| 1300  | MarketSegmentID   | Υ     | 4   | 152 | signed int   | Product identifier.                      |
| 30555 | NoLegExecs        | Y     | 2   | 156 | Counter      | Number of InstrmntLegExec repeat-        |
|       |                   |       |     |     |              | ing group instances.                     |
| 378   | ExecRestatement-  | Y     | 2   | 158 | unsigned int | Code to further qualify the field Exec-  |
|       | Reason            |       |     |     |              | Type (150) of the Execution Report       |
|       |                   |       |     |     |              | (8) message.                             |
|       |                   |       |     |     |              | Value Description                        |
|       |                   |       |     |     |              | 101 Order add accepted                   |
|       |                   |       |     |     |              | 102 Order modify accepted                |
|       |                   |       |     |     |              | 105 IOC Order accepted                   |
|       |                   |       |     |     |              |  |
|       |                   |       |     |     |              |  |
|       |                   |       |     |     |              | Order has been changed to IOC            |
|       |                   |       |     |     |              |  |
| 54    | Side              | Υ     | 1   | 160 | unsigned int | Side of the order.                       |
|       |                   |       |     |     | _            | Value Description                        |
|       |                   |       |     |     |              | 1 Buy                                    |
|       |                   |       |     |     |              | 2 Sell                                   |
|       |                   |       |     |     |              |  |
|       | 1                 |       |     | -   | 1            | 1  |

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| Tag  | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                             |
|------|---------------------------------------|-------|-----|-----|--------------|---|
| 1227 | ProductComplex                        | Υ     | 1   | 161 | unsigned int | This field qualifies an instrument type |
|      |                                       |       |     |     |              | on T7.                                  |
|      |                                       |       |     |     |              | Value Description                       |
|      |                                       |       |     |     |              | 1 Simple instrument                     |
|      |                                       |       |     |     |              | 2 Standard Option Strategy              |
|      |                                       |       |     |     |              | Non-Standard Option Strat-              |
|      |                                       |       |     |     |              | egy                                     |
|      |                                       |       |     |     |              | 4 Volatility Strategy                   |
|      |                                       |       |     |     |              | 5 Futures Spread                        |
|      |                                       |       |     |     |              | 6 Inter-Product Spread                  |
|      |                                       |       |     |     |              | 7 Standard Future Strategy              |
|      |                                       |       |     |     |              | 8 Pack and Bundle                       |
|      |                                       |       |     |     |              | 9 Strip                                 |
|      |                                       |       |     |     |              | 11 Commodity Strip                      |
| 20   | 0.10.                                 | Y     | 1   | 160 | -1 -         |   |
| 39   | OrdStatus                             | Y     | 1   | 162 | char         | Conveys the current status of an order. |
|      |                                       |       |     |     |              |   |
|      |                                       |       |     |     |              | Value Description                       |
|      |                                       |       |     |     |              | 1 Partially filled                      |
|      |                                       |       |     |     |              | 2 Filled                                |
|      |                                       |       |     |     |              | 4 Cancelled                             |
| 150  | ЕхесТуре                              | Υ     | 1   | 163 | char         | The reason why this message was gen-    |
|      | , , , , , , , , , , , , , , , , , , , |       |     |     |              | erated.                                 |
|      |                                       |       |     |     |              | Value Description                       |
|      |                                       |       |     |     |              | F Trade                                 |
|      |                                       |       |     |     |              |   |
| 1823 | Triggered                             | Υ     | 1   | 164 | unsigned int | Indicates if an order has been previ-   |
|      |                                       |       |     |     |              | ously triggered.                        |
|      |                                       |       |     |     |              | Value Description                       |
|      |                                       |       |     |     |              | 0 Not Triggered                         |
|      |                                       |       |     |     |              | 1 Triggered Stop                        |
|      |                                       |       |     |     |              | 2 Triggered OCO                         |
|      |                                       |       |     |     |              |   |
| 2523 | CrossedIndicator                      | Y     | 1   | 165 | unsigned int | Indicates SMP involvement.              |
|      |                                       |       |     |     |              | Value Description                       |
|      |                                       |       |     |     |              | No crossing (Order not sub-             |
|      |                                       |       |     |     |              | ject to crossing)                       |
|      |                                       |       |     |     |              | Cross rejected (Order subject           |
|      |                                       |       |     |     |              | 1 to crossing and match pre-            |
|      |                                       |       |     |     |              | vented)                                 |
|      |                                       |       |     |     |              |   |

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| Tag  | Field Name                     | Req'd     | Len             | Ofs     | Data Type    | Description  |
|--|--------------------------------|-----------|-----------------|---------|--------------|--|
| 25159  | TransactionDelay-<br>Indicator | Y         | 1               | 166     | unsigned int | Indicator for a delayed transaction  Value Description  0 Transaction not delayed  1 Transaction delayed   |
| 1362   | NoFills                        | Y         | 1               | 167     | Counter      | Specifies the number of partial fills included in this Execution Report.   |
| 28790  | NoOrderEvents                  | Y         | 1               | 168     | Counter      | Number of order events   |
| 39070  | Pad7                           | U         | 7               | 169     | Fixed String | not used   |
| <fills< td=""><td>Grp&gt; Cardinality: 0-100</td><td>), Recor</td><td>d cour</td><td>nter: N</td><td>oFills</td><td></td></fills<> | Grp> Cardinality: 0-100        | ), Recor  | d cour          | nter: N | oFills       |  |
| 1364   | >FillPx                        | Υ         | 8               | 176     | PriceType    | Price of Fill.   |
| 1365   | >FillQty                       | Υ         | 8               | 184     | Qty          | Quantity of Fill.  |
| 28708  | >FillMatchID                   | Y         | 4               | 192     | unsigned int | Unique identifier for each price level (match step) of a match event; it is used for public trade reporting.   |
| 1363   | >FillExecID                    | Y         | 4               | 196     | signed int   | Private identifier of an order match step event, which can be reconciled with the field SideTradeID (1506) in the Trade Notification.  |
| 1443   | >FillLiquidityInd              | N         | 1               | 200     | unsigned int | Indicates whether the order added or removed liquidity. Required only for execution reports generated for fills.  Value Description  2 Removed Liquidity  5 Triggered Stop Order |
| 39070  | >Pad7                          | U         | 7               | 201     | Fixed String | not used   |
|  | mntLegExecGrp> Cardi           | nality: ( | ) <i>- 600,</i> | Recor   |              | gExecs   |
| 602  |                                | Y         | 8               | 0       | signed int   | Instrument identifier of the leg security.   |
| 637  | >LegLastPx                     | Y         | 8               | 8       | PriceType    | Price of this leg fill.  |
| 1418   | _                              | Υ         | 8               | 16      | Qty          | Quantity executed in this leg fill.  |
| 1893   |                                | Y         | 4               | 24      | signed int   | Private identifier of a leg match step, which can be reconciled with the field SideTradeID (1506) in the Trade Notification.   |

| Tag  | Field Name              | Req'd   | Len     | Ofs     | Data Type        | Description   |
|--|-------------------------|---------|---------|---------|------------------|---|
| 624  | >LegSide                | Y       | 1       | 28      | unsigned int     | The side of the individual leg of a strategy as defined in its signature.  Value Description  1 Buy |
| 2421   | >FillRefID              | Y       | 1       | 29      | unsigned int     | 2 Sell  Reference to the corresponding Fills-   |
| 2421   | >1 lilikelib            | '       | _       | 29      | unsigned int     | Grp repeating group instance.   |
| 39020  | >Pad2                   | U       | 2       | 30      | Fixed String     | not used  |
| <orde< td=""><td>erEventGrp&gt; Cardinality</td><td>: 0-100</td><td>), Reco</td><td>ord cou</td><td>ınter: NoOrderEv</td><td>ents</td></orde<> | erEventGrp> Cardinality | : 0-100 | ), Reco | ord cou | ınter: NoOrderEv | ents  |
| 1799   | >OrderEventPx           | Υ       | 8       | 0       | PriceType        | Price level for the order event.  |
| 1800   | >OrderEventQty          | Υ       | 8       | 8       | Qty              | Quantity for the order event.   |
| 30060  | >OrderEventMatchID      | Y       | 4       | 16      | unsigned int     | Unique identifier for each price level (match step) of an order event.                              |
| 1798   | >OrderEventReason       | Y       | 1       | 20      | unsigned int     | Action that caused the event to occur.  Value Description  100 SMP event                            |
| 39030  | >Pad3                   | U       | 3       | 21      | Fixed String     | not used  |

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|---|---------------------------------|
| Derivatives Message Reference                                     | Build 111.470.1.ga-111004071-18 |

#### 6.8 Book Order Execution

This message informs about the execution of a resting book order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name                            | Req'd | Len | Ofs       | Data Type    | Description                            |  |  |  |
|---|---------------------------------------|-------|-----|-----------|--------------|--|--|--|--|
| <messa< td=""><td colspan="9"><messageheaderout></messageheaderout></td></messa<>       | <messageheaderout></messageheaderout> |       |     |           |              |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0         | unsigned int | Number of bytes for the message, in-   |  |  |  |
|   |                                       |       |     |           |              | cluding this field.                    |  |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4         | unsigned int | Unique identifier for a T7 ETI         |  |  |  |
|   |                                       |       |     |           |              | message layout. Value: 10104           |  |  |  |
|   |                                       |       |     |           |              | (ExecutionReport, MsgType $= 8$ )      |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6         | Fixed String | not used                               |  |  |  |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>                             |       |     |           |              |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N     | 8   | 8         | UTCTimestamp | Matching engine out timestamp.         |  |  |  |
| 25043   | NotificationIn                        | N     | 8   | 16        | UTCTimestamp | Timestamp the gateway receives a no-   |  |  |  |
|   |                                       |       |     |           |              | tification message from the Matching   |  |  |  |
|   |                                       |       |     |           |              | Engine                                 |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 24        | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |
|   |                                       |       |     |           |              | the gateway                            |  |  |  |
| 28727   | ApplSubID                             | U     | 4   | 32        | unsigned int | not used                               |  |  |  |
| 5948  | PartitionID                           | Y     | 2   | 36        | unsigned int | Grouping of T7 products.               |  |  |  |
|   |                                       |       |     |           |              | Belongs to the scope of Service Avail- |  |  |  |
|   |                                       |       |     |           |              | ability and Retransmit requests.       |  |  |  |
| 28704   | ApplMsgID                             | Y     | 16  | 38        | data         | Application message identifier as-     |  |  |  |
|   |                                       |       |     |           |              | signed to an order or quote event.     |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 54        | unsigned int | Identifier for an ETI data stream.     |  |  |  |
|   |                                       |       |     |           |              | Value Description                      |  |  |  |
|   |                                       |       |     |           |              | 4 Session Data                         |  |  |  |
| 10-0  |                                       |       |     |           |              |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 55        | unsigned int | Indicates a retransmission message.    |  |  |  |
|   |                                       |       |     |           |              | Value Description                      |  |  |  |
|   |                                       |       |     |           |              | 0 False                                |  |  |  |
|   |                                       |       |     |           |              | 1 True                                 |  |  |  |
| 000   |                                       |       |     |           |              |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 56        | unsigned int | Indicates whether this message is the  |  |  |  |
|   |                                       |       |     |           |              | last fragment (part) of a sequence of  |  |  |  |
|   |                                       |       |     |           |              | messages belonging to one dedicated    |  |  |  |
|   |                                       |       |     |           |              | transaction.                           |  |  |  |
|   |                                       |       |     |           |              | Value Description                      |  |  |  |
|   |                                       |       |     |           |              | 0 Not Last Message                     |  |  |  |
|   |                                       |       |     |           |              | 1 Last Message                         |  |  |  |
| 20070   | Dod7                                  | 11    | 7   | <b>57</b> | Fixed Stains | not used                               |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 57        | Fixed String | not used                               |  |  |  |

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| Tag   | Field Name             | Req'd | Len | Ofs | Data Type    | Description  |
|-------|------------------------|-------|-----|-----|--------------|--|
|       | geBody>                |       |     |     |              |  |
| 37    | OrderID                | Y     | 8   | 64  | unsigned int | Exchange Order ID generated by the T7 System; it remains constant over the lifetime of an order.   |
| 11    | ClOrdID                | N     | 8   | 72  | unsigned int | Client Order ID: Unique participant defined order request identifier; used for client order id chaining.   |
| 41    | OrigClOrdID            | N     | 8   | 80  | unsigned int | CIOrdID (11) of the last successfully processed task (request) referring to the specific order.  |
| 48    | SecurityID             | Y     | 8   | 88  | signed int   | Instrument identifier.   |
| 17    | ExecID                 | Υ     | 8   | 96  | UTCTimestamp | Transaction timestamp.   |
| 151   | LeavesQty              | Υ     | 8   | 104 | Qty          | Remaining quantity of an order.  |
| 14    | CumQty                 | Y     | 8   | 112 | Qty          | Cumulated executed quantity of an order.   |
| 84    | CxIQty                 | Y     | 8   | 120 | Qty          | Total quantity cancelled for this order.   |
| 1300  | MarketSegmentID        | Y     | 4   | 128 | signed int   | Product identifier.  |
| 30555 | NoLegExecs             | Y     | 2   | 132 | Counter      | Number of InstrmntLegExec repeating group instances.   |
| 378   | ExecRestatement-Reason | Y     | 2   | 134 | unsigned int | Code to further qualify the field Exec- Type (150) of the Execution Report (8) message.  Value Description 101 Order add accepted 108 Book Order executed 135 Market Order triggered and executed 164 One-cancels-the-other Order has been triggered 172 Stop Order has been triggered 150 Closing Auction Order has been inactivated 152 Opening Auction Order has been inactivated 154 Any Auction Order has been inactivated Pending order cancellation 199 processed (end of FREEZE state) 181 Ownership Changed |

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| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description                             |
|------|----------------|-------|-----|-----|--------------|---|
| 54   | Side           | Υ     | 1   | 136 | unsigned int | Side of the order.                      |
|      |                |       |     |     |              | Value Description                       |
|      |                |       |     |     |              | 1 Buy                                   |
|      |                |       |     |     |              | 2 Sell                                  |
|      |                |       |     |     |              |   |
| 1227 | ProductComplex | Y     | 1   | 137 | unsigned int | This field qualifies an instrument type |
|      |                |       |     |     |              | on T7.                                  |
|      |                |       |     |     |              | Value Description                       |
|      |                |       |     |     |              | 1 Simple instrument                     |
|      |                |       |     |     |              | 2 Standard Option Strategy              |
|      |                |       |     |     |              | Non-Standard Option Strat-              |
|      |                |       |     |     |              | egy                                     |
|      |                |       |     |     |              | 4 Volatility Strategy                   |
|      |                |       |     |     |              | 5 Futures Spread                        |
|      |                |       |     |     |              | 6 Inter-Product Spread                  |
|      |                |       |     |     |              | 7 Standard Future Strategy              |
|      |                |       |     |     |              | 8 Pack and Bundle                       |
|      |                |       |     |     |              | 9 Strip                                 |
|      |                |       |     |     |              | 11 Commodity Strip                      |
| 39   | OrdStatus      | Y     | 1   | 138 | char         | Conveys the current status of an or-    |
|      | o radiatas     |       | _   |     | G.I.G.       | der.                                    |
|      |                |       |     |     |              | Value Description                       |
|      |                |       |     |     |              | 1 Partially filled                      |
|      |                |       |     |     |              | 2 Filled                                |
|      |                |       |     |     |              | 9 Suspended                             |
|      |                |       |     |     |              | 4 Cancelled                             |
|      |                |       |     |     |              |   |
| 150  | ExecType       | Y     | 1   | 139 | char         | The reason why this message was gen-    |
|      |                |       |     |     |              | erated.                                 |
|      |                |       |     |     |              | Value Description                       |
|      |                |       |     |     |              | F Trade                                 |
|      |                |       |     |     |              | 9 Suspended                             |
| 1823 | Triggorod      | Y     | 1   | 140 | unsigned int | Indicates if an order has been previ-   |
| 1023 | Triggered      | '     | 1   | 140 | ansigned int | ously triggered.                        |
|      |                |       |     |     |              |   |
|      |                |       |     |     |              | Value Description                       |
|      |                |       |     |     |              | 0 Not Triggered                         |
|      |                |       |     |     |              | 1 Triggered Stop                        |
|      |                |       |     |     |              | 2 Triggered OCO                         |
|      |                |       |     |     |              |   |

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| Tag  | Field Name              | Req'd     | Len      | Ofs     | Data Type         | Description  |
|--|-------------------------|-----------|----------|---------|-------------------|--|
| 2523   | CrossedIndicator        | Υ         | 1        | 141     | unsigned int      | Indicates SMP involvement.   |
|  |                         |           |          |         |                   | Value Description  No crossing (Order not subject to crossing)  Cross rejected (Order subject to crossing and match prevented)   |
| 30011  | FIXCIOrdID              | N         | 20       | 142     | Fixed String      | User defined client order ID  Valid characters: \x20-\x7E  |
| 1362   | NoFills                 | Y         | 1        | 162     | Counter           | Specifies the number of partial fills included in this Execution Report.   |
| 28790  | NoOrderEvents           | Υ         | 1        | 163     | Counter           | Number of order events   |
| 39040  | Pad4                    | U         | 4        | 164     | Fixed String      | not used   |
| <fills< td=""><td>Grp&gt; Cardinality: 0-100</td><td>), Recor</td><td>d cour</td><td>nter: N</td><td>loFills</td><td></td></fills<>              | Grp> Cardinality: 0-100 | ), Recor  | d cour   | nter: N | loFills           |  |
| 1364   | >FillPx                 | Y         | 8        | 168     | PriceType         | Price of Fill.   |
| 1365   | >FillQty                | Y         | 8        | 176     | Qty               | Quantity of Fill.  |
| 28708  | >FillMatchID            | Y         | 4        | 184     | unsigned int      | Unique identifier for each price level (match step) of a match event; it is used for public trade reporting.   |
| 1363   | >FillExecID             | Y         | 4        | 188     | signed int        | Private identifier of an order match step event, which can be reconciled with the field SideTradeID (1506) in the Trade Notification.  |
| 1443   | >FillLiquidityInd       | N         | 1        | 192     | unsigned int      | Indicates whether the order added or removed liquidity. Required only for execution reports generated for fills.  Value Description  1 Added Liquidity  4 Auction  5 Triggered Stop Order  6 Triggered OCO Order  7 Triggered Market Order |
| 39070  | >Pad7                   | U         | 7        | 193     | Fixed String      | not used   |
| <instr< td=""><td>mntLegExecGrp&gt; Cardi</td><td>nality: C</td><td>0 - 600,</td><td>Recor</td><td>rd counter: NoLeg</td><td>Execs</td></instr<> | mntLegExecGrp> Cardi    | nality: C | 0 - 600, | Recor   | rd counter: NoLeg | Execs  |
| 602  | >LegSecurityID          | Y         | 8        | 0       | signed int        | Instrument identifier of the leg security.   |
| 637  | >LegLastPx              | Y         | 8        | 8       | PriceType         | Price of this leg fill.  |
| 1418   | >LegLastQty             | Y         | 8        | 16      | Qty               | Quantity executed in this leg fill.  |

| Tag  | Field Name              | Req'd   | Len     | Ofs     | Data Type        | Description                             |
|--|-------------------------|---------|---------|---------|------------------|---|
| 1893   | >LegExecID              | Y       | 4       | 24      | signed int       | Private identifier of a leg match step, |
|  |                         |         |         |         |                  | which can be reconciled with the field  |
|  |                         |         |         |         |                  | SideTradeID (1506) in the Trade No-     |
|  |                         |         |         |         |                  | tification.                             |
| 624  | >LegSide                | Y       | 1       | 28      | unsigned int     | The side of the individual leg of a     |
|  |                         |         |         |         |                  | strategy as defined in its signature.   |
|  |                         |         |         |         |                  | Value Description                       |
|  |                         |         |         |         |                  | 1 Buy                                   |
|  |                         |         |         |         |                  | 2 Sell                                  |
|  |                         |         |         |         |                  |   |
| 2421   | >FillRefID              | Y       | 1       | 29      | unsigned int     | Reference to the corresponding Fills-   |
|  |                         |         |         |         |                  | Grp repeating group instance.           |
| 39020  | >Pad2                   | U       | 2       | 30      | Fixed String     | not used                                |
| <orde< td=""><td>erEventGrp&gt; Cardinality</td><td>: 0-100</td><td>), Reco</td><td>ord cou</td><td>inter: NoOrderEv</td><td>ents</td></orde<> | erEventGrp> Cardinality | : 0-100 | ), Reco | ord cou | inter: NoOrderEv | ents                                    |
| 1799   | >OrderEventPx           | Y       | 8       | 0       | PriceType        | Price level for the order event.        |
| 1800   | >OrderEventQty          | Y       | 8       | 8       | Qty              | Quantity for the order event.           |
| 30060  | >OrderEventMatchID      | Y       | 4       | 16      | unsigned int     | Unique identifier for each price level  |
|  |                         |         |         |         |                  | (match step) of an order event.         |
| 1798   | >OrderEventReason       | Y       | 1       | 20      | unsigned int     | Action that caused the event to occur.  |
|  |                         |         |         |         |                  |   |
|  |                         |         |         |         |                  | Value Description                       |
|  |                         |         |         |         |                  | 100 SMP event                           |
|  |                         |         |         |         |                  |   |
| 39030  | >Pad3                   | U       | 3       | 21      | Fixed String     | not used                                |

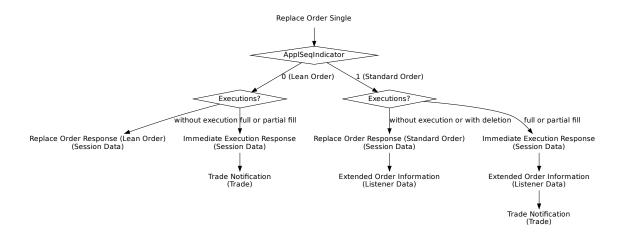
| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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## 6.9 Replace Order Single

This message is used to replace an existing order in a simple instrument. For more details, please refer to the ETI Manual, chapters Modification and Total Order Quantity Modification. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                               |  |  |  |
|---|--------------|-------|-----|-----|--------------|---|--|--|--|
| <messageheaderin></messageheaderin>   |              |       |     |     |              |   |  |  |  |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-      |  |  |  |
|   |              |       |     |     |              | cluding this field.                       |  |  |  |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-       |  |  |  |
|   |              |       |     |     |              | sage layout. Value: 10106 (Order-         |  |  |  |
|   |              |       |     |     |              | ${\sf CancelReplaceRequest,\ MsgType}\ =$ |  |  |  |
|   |              |       |     |     |              | G)  |  |  |  |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                  |  |  |  |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>    |       |     |     |              |   |  |  |  |
| 34  | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the       |  |  |  |
|   |              |       |     |     |              | participant for requests sent to the      |  |  |  |
|   |              |       |     |     |              | gateway.                                  |  |  |  |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                  |  |  |  |
| < Messa   | geBody>      |       |     |     |              |   |  |  |  |
| 37  | OrderID      | N     | 8   | 24  | unsigned int | Exchange Order ID generated by the        |  |  |  |
|   |              |       |     |     |              | T7 System; it remains constant over       |  |  |  |
|   |              |       |     |     |              | the lifetime of an order.                 |  |  |  |
| 11  | ClOrdID      | N     | 8   | 32  | unsigned int | Client Order ID: Unique participant       |  |  |  |
|   |              |       |     |     |              | defined order request identifier; used    |  |  |  |
|   |              |       |     |     |              | for client order id chaining.             |  |  |  |
| 41  | OrigClOrdID  | N     | 8   | 40  | unsigned int | ClOrdID (11) of the last successfully     |  |  |  |
|   |              |       |     |     |              | processed task (request) referring to     |  |  |  |
|   |              |       |     |     |              | the specific order.                       |  |  |  |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description                               |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 44    | Price                 | N     | 8   | 48  | PriceType    | Limit price. Required if OrdType (40)     |
|       |                       |       |     |     |              | is Limit (2) or Stop Limit (4).           |
| 38    | OrderQty              | Υ     | 8   | 56  | Qty          | Total Order Quantity.                     |
| 99    | StopPx                | N     | 8   | 64  | PriceType    | Stop price. Required if OrdType (40)      |
|       |                       |       |     |     |              | is Stop (3) or used as the trigger price  |
|       |                       |       |     |     |              | for an One-cancels-the-other order.       |
| 20003 | PartyIDClientID       | N     | 8   | 72  | unsigned int | MiFID field: Client Identifier field      |
|       |                       |       |     |     |              | (ESMA Field 3 (Section A))used to         |
|       |                       |       |     |     |              | identify the client of an order for agent |
|       |                       |       |     |     |              | account of the member or partici-         |
|       |                       |       |     |     |              | pant of the trading venue. If the         |
|       |                       |       |     |     |              | Client Identifier field is not provided   |
|       |                       |       |     |     |              | for agent orders, then they will be re-   |
|       |                       |       |     |     |              | jected. For orders sent with Trading      |
|       |                       |       |     |     |              | Capacity Proprietary or Market Mak-       |
|       |                       |       |     |     |              | ing, the Client Identifier field may re-  |
|       |                       |       |     |     |              | main empty.                               |
| 20122 | PartyldInvestment-    | N     | 8   | 80  | unsigned int | MiFID field: Investment decision          |
|       | DecisionMaker         |       |     |     |              | within firm (ESMA Field 4 (Section        |
|       |                       |       |     |     |              | A)) is the code used to identify the      |
|       |                       |       |     |     |              | person or the algorithm within the        |
|       |                       |       |     |     |              | member or participant of the Trading      |
|       |                       |       |     |     |              | Venue who is responsible for the in-      |
|       |                       |       |     |     |              | vestment decision.                        |
| 25123 | ExecutingTrader       | N     | 8   | 88  | unsigned int | MiFID field: Executing Trader data        |
|       |                       |       |     |     |              | Field(ESMA Field 5 (Section A))used       |
|       |                       |       |     |     |              | to identify the person or algorithm       |
|       |                       |       |     |     |              | within the member or participant of       |
|       |                       |       |     |     |              | the trading venue who is responsible      |
|       |                       |       |     |     |              | for the execution of the transaction re-  |
|       |                       |       |     |     |              | sulting from the order.                   |
| 432   | ExpireDate            | N     | 4   | 96  | LocalMktDate | Date of order expiry. Required if         |
|       |                       |       | _   |     |              | TimeInForce $(59) = 6$ .                  |
| 1300  | <u> </u>              | Y     | 4   | 100 | signed int   | Product identifier.                       |
| 30048 | SimpleSecurityID      | Y     | 4   | 104 | unsigned int | Instrument identifier for simple instru-  |
|       |                       |       |     |     |              | ments. Should be filled with the 4        |
|       |                       |       |     |     |              | least significant bytes of SecurityID     |
|       |                       |       |     |     |              | (48) provided in T7 RDI and T7 RDF        |
| 20744 | M . II . C . ID       | N.    |     | 100 |              | reference data.                           |
| 28744 |                       | N     | 4   | 108 | unsigned int | Self Match Prevention ID.                 |
| 20655 | TargetPartyIDSession- | N     | 4   | 112 | unsigned int | Session ID.                               |
|       | ID                    |       |     |     |              |   |

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| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description   |
|-------|----------------------------------|-------|-----|-----|--------------|---|
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 116 | Fixed String | Take-up Member Short Name.<br>Valid characters: A-Z, 0-9, \x20  |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 121 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20   |
| 20032 | PartyIDBeneficiary               | N     | 9   | 128 | Fixed String | Final Beneficiary Valid characters: A-Z, 0-9, \x20  |
| 28703 | ApplSeqIndicator                 | Y     | 1   | 137 | unsigned int | Indicates if the order is a Lean Order or a Standard Order.  Value Description  0 No Recovery Required  1 Recovery Required   |
| 54    | Side                             | Y     | 1   | 138 | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell  |
| 40    | OrdType                          | Y     | 1   | 139 | unsigned int | Order type.  Value Description  1 Market  2 Limit  3 Stop  4 Stop Limit   |
| 28710 | PriceValidityCheck-<br>Type      | Y     | 1   | 140 | unsigned int | Indicator how price validity check should be performed by the exchange (see the ETI Manual, chapter Price Reasonability Check).  Value Description  0 None  1 Optional  2 Mandatory |
| 25126 | ValueCheckTypeValue              | Y     | 1   | 141 | unsigned int | Indicator for checking the maximum order/quote value by the exchange.  Value Description  0 Do not check  1 Check   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 142 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision   |
| 59    | TimeInForce                           | Y     | 1   | 143 | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)  6 Good Till Date (GTD) - Standard Orders only               |
| 18    | ExecInst                              | Y     | 1   | 144 | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')  Persistent and Book or Cancel order (FIX value 'H 6')  Non-persistent and Book or Cancel order (FIX value 'Q') |
| 625   | TradingSessionSubID                   | N     | 1   | 145 | unsigned int | Marks a certain order to be included in a defined auction.  Value Description  2 Opening or opening auction  4 Closing or closing auction  8 Any auction  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 1815  | TradingCapacity                                   | Y     | 1   | 146 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker  |
| 1724  | OrderOrigination                                  | N     | 1   | 147 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 21222 | PartyIdInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 148 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 25124 | ExecutingTrader-<br>Qualifier                     | N     | 1   | 149 | unsigned int | Derivatives Markets: Required, Cash Markets: ExecutingTraderQualifier can be omitted only if specialist submits transaction On-Behalf of another business unit    Value   Description   22   Algo   24   Human/Natural person                                    |
| 1     | Account   | N     | 2   | 150 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x4D, \x50, \x52  |

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| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 20038 | PartyIDPosition-<br>Account | N     | 32  | 152 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 77    | PositionEffect              | Y     | 1   | 184 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close O Open   |
| 28743 | OwnershipIndicator          | Y     | 1   | 185 | unsigned int | Indicator to change the ownership of an order  Value Description  0 Do not change ownership  Change ownership to executing party (User ID)   |
| 20075 | PartyIDLocationID           | N     | 2   | 186 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 1031  | CustOrderHandling-Inst      | N     | 1   | 188 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |

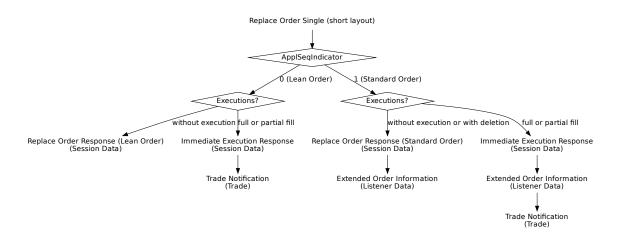
| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                     |
|-------|-----------------|-------|-----|-----|--------------|---|
| 2404  | ComplianceText  | N     | 20  | 189 | Fixed String | This field is used to provide addi-             |
|       |                 |       |     |     |              | tional regulatory information (accord-          |
|       |                 |       |     |     |              | ing to respective rules & regs, circu-          |
|       |                 |       |     |     |              | lars and/or bilateral coordination be-          |
|       |                 |       |     |     |              | tween participant and Trading Surveil-          |
|       |                 |       |     |     |              | lance Office).                                  |
|       |                 |       |     |     |              | Valid characters: $\x20$ , $\x22-\x7B$ ,        |
|       |                 |       |     |     |              | \x7D, \x7E                                      |
| 25007 | FreeText1       | N     | 12  | 209 | Fixed String | First free-format text field for trader         |
|       |                 |       |     |     |              | specific or customer-related com-               |
|       |                 |       |     |     |              | ments   |
|       |                 |       |     |     |              | Valid characters: $\x 20$ , $\x 23-\x 25$ ,     |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-               |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                     |
| 25008 | FreeText2       | N     | 12  | 221 | Fixed String | Second free-format text field for               |
|       |                 |       |     |     |              | trader specific or customer-related             |
|       |                 |       |     |     |              | comments  |
|       |                 |       |     |     |              | Valid characters: $\x 20$ , $\x 23$ - $\x 25$ , |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-               |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                     |
| 25009 | FreeText3       | N     | 12  | 233 | Fixed String | Third free-format text field for trader-        |
|       |                 |       |     |     |              | specific or customer-related com-               |
|       |                 |       |     |     |              | ments.  |
|       |                 |       |     |     |              | Valid characters: $\x 20$ , $\x 23-\x 25$ ,     |
|       |                 |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-               |
|       |                 |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E                     |
| 30011 | FIXCIOrdID      | N     | 20  | 245 | Fixed String | User defined client order ID                    |
|       |                 |       |     |     |              | Valid characters: \x20-\x7E                     |
| 25241 | PartyEndClient- | N     | 5   | 265 | Fixed String | End client identifier.                          |
|       | Identification  |       |     |     | 3            | Valid characters: A-Z, 0-9, \x20,               |
|       |                 |       |     |     |              | \x5F  |
| 39020 | Pad2            | U     | 2   | 270 | Fixed String | not used  |

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## 6.10 Replace Order Single (short layout)

This short order message layout is used by the participant to replace an order in a simple instrument. Selected order attributes are implicitly set. For more details, please refer to the ETI Manual, chapter Short Order Message Layouts. This message is sent to the service "Order and Quote Management".



| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                            |
|---------|--------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderIn>  |       |     |     |              |  |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|         |              |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|         |              |       |     |     |              | sage layout. Value: 10126 (Order-      |
|         |              |       |     |     |              |  |
|         |              |       |     |     |              | G)                                     |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                               |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                               |
| < Reque | stHeader>    |       |     |     |              |  |
| 34      | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the    |
|         |              |       |     |     |              | participant for requests sent to the   |
|         |              |       |     |     |              | gateway.                               |
| 50      | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                               |
| < Messa | geBody>      |       |     |     |              |  |
| 11      | ClOrdID      | N     | 8   | 24  | unsigned int | Client Order ID: Unique participant    |
|         |              |       |     |     |              | defined order request identifier; used |
|         |              |       |     |     |              | for client order id chaining.          |
| 41      | OrigClOrdID  | Y     | 8   | 32  | unsigned int | ClOrdID (11) of the last successfully  |
|         |              |       |     |     |              | processed task (request) referring to  |
|         |              |       |     |     |              | the specific order.                    |
| 44      | Price        | Y     | 8   | 40  | PriceType    | Limit price. Required if OrdType (40)  |
|         |              |       |     |     |              | is Limit (2) or Stop Limit (4).        |
| 38      | OrderQty     | Y     | 8   | 48  | Qty          | Total Order Quantity.                  |

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| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------------|-------|-----|-----|--------------|--|
| 20003 |                                     | N     | 8   | 56  | unsigned int | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to identify the client of an order for agent account of the member or participant of the trading venue. If the Client Identifier field is not provided for agent orders, then they will be rejected. For orders sent with Trading Capacity Proprietary or Market Making, the Client Identifier field may remain empty. |
| 20122 | PartyldInvestment-<br>DecisionMaker | N     | 8   | 64  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.   |
| 25123 | ExecutingTrader                     | N     | 8   | 72  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.   |
| 30048 | SimpleSecurityID                    | Y     | 4   | 80  | unsigned int | Instrument identifier for simple instruments. Should be filled with the 4 least significant bytes of SecurityID (48) provided in T7 RDI and T7 RDF reference data.   |
| 28744 | MatchInstCrossID                    | N     | 4   | 84  | unsigned int | Self Match Prevention ID.  |
| 25033 | EnrichmentRuleID                    | N     | 2   | 88  | unsigned int | Identifies an enrichment rule  |
| 54    | Side                                | Y     | 1   | 90  | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 28710 | PriceValidityCheck-<br>Type           | Y     | 1   | 91  | unsigned int | Indicator how price validity check should be performed by the exchange (see the ETI Manual, chapter Price Reasonability Check).  Value Description  0 None  1 Optional  2 Mandatory     |
| 25126 | ,                                     | Y     | 1   | 92  | unsigned int | Indicator for checking the maximum order/quote value by the exchange.  Value Description  0 Do not check  1 Check   |
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 93  | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision |
| 59    | TimeInForce                           | Y     | 1   | 94  | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)          |
| 28703 | ApplSeqIndicator                      | Y     | 1   | 95  | unsigned int | Indicates if the order is a Lean Order or a Standard Order.  Value Description  0 No Recovery Required  1 Recovery Required   |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 18    | ExecInst  | Υ     | 1   | 96  | unsigned int | Instructions for order handling.   |
|       |   |       |     |     |              | Value Description  Persistent Order (FIX value)  |
|       |   |       |     |     |              | Non-persistent Order (FIX value 'Q')   |
|       |   |       |     |     |              | 5 Persistent and Book or Cancel order (FIX value 'H 6')  |
|       |   |       |     |     |              | Non-persistent and Book or Cancel order (FIX value 'Q 6')  |
| 1815  | TradingCapacity                                   | Y     | 1   | 97  | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.    Value   Description  |
| 1724  | OrderOrigination                                  | N     | 1   | 98  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 99  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |

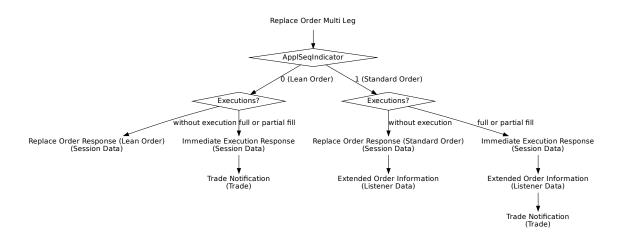
| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | Y     | 1   | 100 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to dis-            |
|       |                                |       |     |     |              | tinguish between natural persons and  |
|       |                                |       |     |     |              | Algos.  |
|       |                                |       |     |     |              | Value Description   |
|       |                                |       |     |     |              | 22 Algo   |
|       |                                |       |     |     |              | 24 Human/Natural person   |
| 2404  | C !: T :                       | N     | 20  | 101 | F: . I C: :  | This Call is an I to a set to a lit   |
| 2404  | ComplianceText                 | IN    | 20  | 101 | Fixed String | This field is used to provide additional regulatory information (accord-            |
|       |                                |       |     |     |              | ing to respective rules & regs, circu-  |
|       |                                |       |     |     |              | lars and/or bilateral coordination be-  |
|       |                                |       |     |     |              | tween participant and Trading Surveil-  |
|       |                                |       |     |     |              | lance Office).  |
|       |                                |       |     |     |              | Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7B$ , |
|       |                                |       |     |     |              | \x7D, \x7E  |
| 39070 | Pad7                           | U     | 7   | 121 | Fixed String | not used  |

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#### 6.11 Replace Order Multi Leg

This message is used to replace a multi leg order (previously submitted using the New Order Multi Leg message). For more details, please refer to the ETI Manual, chapters Modification and Total Order Quantity Modification. This message is sent to the service "Order and Quote Management".



| Tag     | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                    |
|---------|--------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderIn>  |       |     |     |              |  |
| 9       | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |
|         |              |       |     |     |              | cluding this field.                            |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |
|         |              |       |     |     |              | sage layout. Value: 10114 (Multileg-           |
|         |              |       |     |     |              | ${\sf OrderCancelReplace,MsgType} = {\sf AC)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                       |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                       |
| < Reque | stHeader>    | ·     |     |     |              |  |
| 34      | MsgSeqNum    | Υ     | 4   | 16  | unsigned int | Message sequence number used by the            |
|         |              |       |     |     |              | participant for requests sent to the           |
|         |              |       |     |     |              | gateway.                                       |
| 50      | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                       |
| < Messa | geBody>      |       |     |     |              |  |
| 37      | OrderID      | N     | 8   | 24  | unsigned int | Exchange Order ID generated by the             |
|         |              |       |     |     |              | T7 System; it remains constant over            |
|         |              |       |     |     |              | the lifetime of an order.                      |
| 11      | ClOrdID      | N     | 8   | 32  | unsigned int | Client Order ID: Unique participant            |
|         |              |       |     |     |              | defined order request identifier; used         |
|         |              |       |     |     |              | for client order id chaining.                  |
| 41      | OrigClOrdID  | N     | 8   | 40  | unsigned int | ClOrdID (11) of the last successfully          |
|         |              |       |     |     |              | processed task (request) referring to          |
|         |              |       |     |     |              | the specific order.                            |
| 48      | SecurityID   | Y     | 8   | 48  | signed int   | Instrument identifier.                         |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description                               |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 44    | Price                 | Υ     | 8   | 56  | PriceType    | Limit price. Required if OrdType (40)     |
|       |                       |       |     |     |              | is Limit (2) or Stop Limit (4).           |
| 38    | OrderQty              | Y     | 8   | 64  | Qty          | Total Order Quantity.                     |
| 20003 | PartyIDClientID       | N     | 8   | 72  | unsigned int | MiFID field: Client Identifier field      |
|       |                       |       |     |     |              | (ESMA Field 3 (Section A))used to         |
|       |                       |       |     |     |              | identify the client of an order for agent |
|       |                       |       |     |     |              | account of the member or partici-         |
|       |                       |       |     |     |              | pant of the trading venue. If the         |
|       |                       |       |     |     |              | Client Identifier field is not provided   |
|       |                       |       |     |     |              | for agent orders, then they will be re-   |
|       |                       |       |     |     |              | jected. For orders sent with Trading      |
|       |                       |       |     |     |              | Capacity Proprietary or Market Mak-       |
|       |                       |       |     |     |              | ing, the Client Identifier field may re-  |
|       |                       |       |     |     |              | main empty.                               |
| 20122 | PartyldInvestment-    | N     | 8   | 80  | unsigned int | MiFID field: Investment decision          |
|       | DecisionMaker         |       |     |     | ane.g.rea    | within firm (ESMA Field 4 (Section        |
|       |                       |       |     |     |              | A)) is the code used to identify the      |
|       |                       |       |     |     |              | person or the algorithm within the        |
|       |                       |       |     |     |              | member or participant of the Trading      |
|       |                       |       |     |     |              | Venue who is responsible for the in-      |
|       |                       |       |     |     |              | vestment decision.                        |
| 25123 | ExecutingTrader       | N     | 8   | 88  | unsigned int | MiFID field: Executing Trader data        |
|       |                       |       |     |     |              | Field(ESMA Field 5 (Section A))used       |
|       |                       |       |     |     |              | to identify the person or algorithm       |
|       |                       |       |     |     |              | within the member or participant of       |
|       |                       |       |     |     |              | the trading venue who is responsible      |
|       |                       |       |     |     |              | for the execution of the transaction re-  |
|       |                       |       |     |     |              | sulting from the order.                   |
| 1300  | MarketSegmentID       | Y     | 4   | 96  | signed int   | Product identifier.                       |
| 432   | ExpireDate            | N     | 4   | 100 | LocalMktDate | Date of order expiry. Required if         |
|       |                       |       |     |     |              | TimeInForce $(59) = 6$ .                  |
| 28744 | MatchInstCrossID      | N     | 4   | 104 | unsigned int | Self Match Prevention ID.                 |
| 20655 | TargetPartyIDSession- | N     | 4   | 108 | unsigned int | Session ID.                               |
|       | ID                    |       |     |     |              |   |
| 20096 | PartyIDTakeUp-        | N     | 5   | 112 | Fixed String | Take-up Member Short Name.                |
|       | TradingFirm           |       |     |     |              | Valid characters: A-Z, 0-9, \x20          |
| 00010 | PartyIDOrder-         | N.    | 7   | 117 | F: .1.C: :   |   |
| 20013 | OriginationFirm       | N     | 7   | 117 | Fixed String | External Member ID.                       |
| 20222 | D . IDD               | N.    | 0   | 104 | F: .1C: :    | Valid characters: A-Z, 0-9, \x20          |
| 20032 | PartyIDBeneficiary    | N     | 9   | 124 | Fixed String | Final Beneficiary                         |
|       |                       |       |     |     |              | Valid characters: A-Z, 0-9, \x20          |

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| Tag   | Field Name                  | Req'd                                 | Len | Ofs | Data Type    | Description   |
|-------|-----------------------------|---------------------------------------|-----|-----|--------------|---|
| 28703 | ApplSeqIndicator            | Y                                     | 1   | 133 | unsigned int | Indicates if the order is a Lean Order                |
|       |                             |                                       |     |     |              | or a Standard Order.                                  |
|       |                             |                                       |     |     |              | Value Description                                     |
|       |                             |                                       |     |     |              | 0 No Recovery Required                                |
|       |                             |                                       |     |     |              | 1 Recovery Required                                   |
| 1007  | D 1 .C 1                    | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     | 104 |              | The Call of the second                                |
| 1227  | ProductComplex              | Y                                     | 1   | 134 | unsigned int | This field qualifies an instrument type on T7.        |
|       |                             |                                       |     |     |              |   |
|       |                             |                                       |     |     |              | Value Description                                     |
|       |                             |                                       |     |     |              | 2 Standard Option Strategy Non-Standard Option Strat- |
|       |                             |                                       |     |     |              | a egy   |
|       |                             |                                       |     |     |              | 4 Volatility Strategy                                 |
|       |                             |                                       |     |     |              | 5 Futures Spread                                      |
|       |                             |                                       |     |     |              | 6 Inter-Product Spread                                |
|       |                             |                                       |     |     |              | 7 Standard Future Strategy                            |
|       |                             |                                       |     |     |              | 8 Pack and Bundle                                     |
|       |                             |                                       |     |     |              | 9 Strip   |
|       |                             |                                       |     |     |              | 11 Commodity Strip                                    |
| 54    | Side                        | Y                                     | 1   | 135 | unsigned int | Side of the order.                                    |
|       |                             |                                       |     |     | · ·          | Value Description                                     |
|       |                             |                                       |     |     |              | 1 Buy   |
|       |                             |                                       |     |     |              | 2 Sell  |
|       |                             |                                       |     |     |              |   |
| 40    | OrdType                     | Y                                     | 1   | 136 | unsigned int | Order type.   |
|       |                             |                                       |     |     |              | Value Description                                     |
|       |                             |                                       |     |     |              | 2 Limit   |
|       | D: A/APP CLAR               |                                       |     |     |              |   |
| 28710 | PriceValidityCheck-<br>Type | Y                                     | 1   | 137 | unsigned int | Indicator how price validity check                    |
|       | Туре                        |                                       |     |     |              | should be performed by the exchange                   |
|       |                             |                                       |     |     |              | (see the ETI Manual, chapter Price                    |
|       |                             |                                       |     |     |              | Reasonability Check).                                 |
|       |                             |                                       |     |     |              | Value Description                                     |
|       |                             |                                       |     |     |              | 0 None  |
|       |                             |                                       |     |     |              | 1 Optional  |
|       |                             |                                       |     |     |              | 2 Mandatory   |
|       |                             |                                       |     |     |              |   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 25126 |                                       | Y     | 1   | 138 | unsigned int | Indicator for checking the maximum order/quote value by the exchange.  Value Description  0 Do not check  1 Check   |
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 139 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision                                       |
| 18    | ExecInst                              | Y     | 1   | 140 | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')   |
| 59    | TimeInForce                           | Y     | 1   | 141 | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)  6 Good Till Date (GTD) - Standard Orders only |
| 1815  | TradingCapacity                       | Y     | 1   | 142 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker           |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---|-------|-----|-----|--------------|---|
| 28743 | OwnershipIndicator                                | Y     | 1   | 143 | unsigned int | Indicator to change the ownership of an order  Value Description  0 Do not change ownership  Change ownership to executing party (User ID)  |
| 1724  | OrderOrigination                                  | N     | 1   | 144 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer  |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 145 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo 24 Human/Natural person |
| 25124 | ExecutingTrader-<br>Qualifier                     | Y     | 1   | 146 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 20075 | PartyIDLocationID                                 | N     | 2   | 147 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E   |

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| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-<br>Inst  | Z     | 1   | 149 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 2404  | ComplianceText              | N     | 20  | 150 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 20038 | PartyIDPosition-<br>Account | N     | 32  | 170 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 25007 | FreeText1                   | N     | 12  | 202 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | FreeText2                   | N     | 12  | 214 | Fixed String | Second free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |

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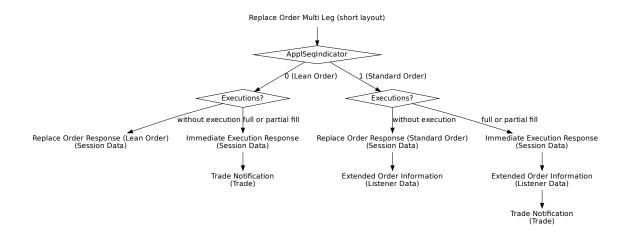
| Tag  | Field Name              | Req'd   | Len    | Ofs     | Data Type      | Description                              |
|--|-------------------------|---------|--------|---------|----------------|--|
| 25009  | FreeText3               | N       | 12     | 226     | Fixed String   | Third free-format text field for trader- |
|  |                         |         |        |         |                | specific or customer-related com-        |
|  |                         |         |        |         |                | ments.                                   |
|  |                         |         |        |         |                | Valid characters: $\x20$ , $\x23-\x25$ , |
|  |                         |         |        |         |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|  |                         |         |        |         |                | \x5F, \x61-\x7B, \x7D, \x7E              |
| 30011  | FIXCIOrdID              | N       | 20     | 238     | Fixed String   | User defined client order ID             |
|  |                         |         |        |         |                | Valid characters: \x20-\x7E              |
| 25241  | PartyEndClient-         | N       | 5      | 258     | Fixed String   | End client identifier.                   |
|  | Identification          |         |        |         | 3. 3. 9        | Valid characters: A-Z, 0-9, \x20,        |
|  |                         |         |        |         |                | \x5F                                     |
| 28555  | NoLegOnbooks            | Υ       | 1      | 263     | Counter        | Number of InstrumentLeg repeating        |
|  |                         |         |        |         |                | group instances. (only for on-book       |
|  |                         |         |        |         |                | trades)                                  |
| <legc< td=""><td>OrdGrp&gt; Cardinality: 0-</td><td>144, Re</td><td>cord c</td><td>counter</td><td>: NoLegOnbooks</td><td>5</td></legc<> | OrdGrp> Cardinality: 0- | 144, Re | cord c | counter | : NoLegOnbooks | 5  |
| 2680   | >LegAccount             | N       | 2      | 264     | Fixed String   | Leg-specific account to book trades      |
|  |                         |         |        |         |                | and keep positions on.                   |
|  |                         |         |        |         |                | Valid characters: 1-9, \x41, \x47,       |
|  |                         |         |        |         |                | \x4D, \x50                               |
| 564  | >LegPositionEffect      | Y       | 1      | 266     | char           | Leg-specific field used for T7 position  |
|  |                         |         |        |         |                | management purposes and indicates        |
|  |                         |         |        |         |                | whether the leg is submitted to open     |
|  |                         |         |        |         |                | or close a position.                     |
|  |                         |         |        |         |                | Value Description                        |
|  |                         |         |        |         |                | C Close                                  |
|  |                         |         |        |         |                | O Open                                   |
|  |                         |         |        |         |                |  |
| 39050  | >Pad5                   | U       | 5      | 267     | Fixed String   | not used                                 |

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## 6.12 Replace Order Multi Leg (short layout)

This message is sent to the service "Order and Quote Management".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|--------------|-------|-----|-----|--------------|---|
| <messa< th=""><th>geHeaderIn&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<> | geHeaderIn>  |       |     |     |              |   |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |              |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |              |       |     |     |              | sage layout. Value: 10130 (Order-           |
|   |              |       |     |     |              | ${\sf CancelReplaceRequest,\ MsgType\ =\ }$ |
|   |              |       |     |     |              | G)  |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                    |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<>   | stHeader>    |       |     |     |              |   |
| 34  | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the         |
|   |              |       |     |     |              | participant for requests sent to the        |
|   |              |       |     |     |              | gateway.                                    |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa   | geBody>      |       |     |     |              |   |
| 11  | CIOrdID      | N     | 8   | 24  | unsigned int | Client Order ID: Unique participant         |
|   |              |       |     |     |              | defined order request identifier; used      |
|   |              |       |     |     |              | for client order id chaining.               |
| 41  | OrigClOrdID  | Y     | 8   | 32  | unsigned int | ClOrdID (11) of the last successfully       |
|   |              |       |     |     |              | processed task (request) referring to       |
|   |              |       |     |     |              | the specific order.                         |
| 48  | SecurityID   | Y     | 8   | 40  | signed int   | Instrument identifier.                      |
| 44  | Price        | Y     | 8   | 48  | PriceType    | Limit price. Required if OrdType (40)       |
|   |              |       |     |     |              | is Limit (2) or Stop Limit (4).             |
| 38  | OrderQty     | Y     | 8   | 56  | Qty          | Total Order Quantity.                       |

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| Tag   | Field Name                         | Req'd | Len | Ofs | Data Type                  | Description                                  |
|-------|------------------------------------|-------|-----|-----|----------------------------|--|
| 20003 | PartyIDClientID                    | N     | 8   | 64  | unsigned int               | MiFID field: Client Identifier field         |
|       |                                    |       |     |     |                            | (ESMA Field 3 (Section A))used to            |
|       |                                    |       |     |     |                            | identify the client of an order for agent    |
|       |                                    |       |     |     |                            | account of the member or partici-            |
|       |                                    |       |     |     |                            | pant of the trading venue. If the            |
|       |                                    |       |     |     |                            | Client Identifier field is not provided      |
|       |                                    |       |     |     |                            | for agent orders, then they will be re-      |
|       |                                    |       |     |     |                            | jected. For orders sent with Trading         |
|       |                                    |       |     |     |                            | Capacity Proprietary or Market Mak-          |
|       |                                    |       |     |     |                            | ing, the Client Identifier field may re-     |
|       | 5                                  |       |     |     |                            | main empty.                                  |
| 20122 | PartyldInvestment-                 | N     | 8   | 72  | unsigned int               | MiFID field: Investment decision             |
|       | DecisionMaker                      |       |     |     |                            | within firm (ESMA Field 4 (Section           |
|       |                                    |       |     |     |                            | A)) is the code used to identify the         |
|       |                                    |       |     |     |                            | person or the algorithm within the           |
|       |                                    |       |     |     |                            | member or participant of the Trading         |
|       |                                    |       |     |     |                            | Venue who is responsible for the in-         |
|       |                                    |       |     |     |                            | vestment decision.                           |
| 25123 | ExecutingTrader                    | N     | 8   | 80  | unsigned int               | MiFID field: Executing Trader data           |
|       |                                    |       |     |     |                            | Field(ESMA Field 5 (Section A))used          |
|       |                                    |       |     |     |                            | to identify the person or algorithm          |
|       |                                    |       |     |     |                            | within the member or participant of          |
|       |                                    |       |     |     |                            | the trading venue who is responsible         |
|       |                                    |       |     |     |                            | for the execution of the transaction re-     |
| 1300  | MarketCormontID                    | Y     | 4   | 88  | signed int                 | sulting from the order.  Product identifier. |
| 28744 |                                    | N     | 4   | 92  | signed int<br>unsigned int | Self Match Prevention ID.                    |
|       |                                    | N     | 2   | 96  | unsigned int               | Identifies an enrichment rule                |
|       | EnrichmentRuleID  ApplSeqIndicator | Y     | 1   | 98  | unsigned int               | Indicates if the order is a Lean Order       |
| 20703 | Approequidicator                   | i i   | 1   | 90  | unsigned int               | or a Standard Order.                         |
|       |                                    |       |     |     |                            |  |
|       |                                    |       |     |     |                            | Value Description                            |
|       |                                    |       |     |     |                            | 0 No Recovery Required                       |
|       |                                    |       |     |     |                            | 1 Recovery Required                          |
|       |                                    |       |     |     |                            |  |

| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-----------------------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex              | Υ     | 1   | 99  | unsigned int | This field qualifies an instrument type   |
|       |                             |       |     |     |              | on T7.  |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 2 Standard Option Strategy  |
|       |                             |       |     |     |              | 3 Non-Standard Option Strategy  |
|       |                             |       |     |     |              | 4 Volatility Strategy   |
|       |                             |       |     |     |              | 5 Futures Spread  |
|       |                             |       |     |     |              | 6 Inter-Product Spread  |
|       |                             |       |     |     |              | 7 Standard Future Strategy  |
|       |                             |       |     |     |              | 8 Pack and Bundle   |
|       |                             |       |     |     |              | 9 Strip   |
|       |                             |       |     |     |              | 11 Commodity Strip  |
|       | 0.1                         | .,    |     | 100 |              |   |
| 54    | Side                        | Y     | 1   | 100 | unsigned int | Side of the order.  |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 1 Buy   |
|       |                             |       |     |     |              | 2 Sell  |
| 28710 | PriceValidityCheck-<br>Type | Y     | 1   | 101 | unsigned int | Indicator how price validity check should be performed by the exchange (see the ETI Manual, chapter Price Reasonability Check).  Value Description  0 None  1 Optional  2 Mandatory |
| 25126 | ValueCheckTypeValue         | Y     | 1   | 102 | unsigned int | Indicator for checking the maximum order/quote value by the exchange.  Value Description  0 Do not check  1 Check   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 23002 | OrderAttribute-<br>LiquidityProvision | Y     | 1   | 103 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision                             |
| 18    | ExecInst                              | Y     | 1   | 104 | unsigned int | Instructions for order handling.  Value Description  Persistent Order (FIX value 'H')  Non-persistent Order (FIX value 'Q')   |
| 59    | TimeInForce                           | Y     | 1   | 105 | unsigned int | Execution and trading restriction parameters supported by T7.  Value Description  0 Day (GFD)  1 Good Till Cancelled (GTC) - Standard Orders only  3 Immediate or Cancel (IOC)                                      |
| 1815  | TradingCapacity                       | Y     | 1   | 106 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker |
| 1724  | OrderOrigination                      | N     | 1   | 107 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer  |

| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 108 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 25124 | ExecutingTrader-<br>Qualifier                     | Y     | 1   | 109 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 2404  |   | N     | 20  | 110 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E              |
| 39060 | Pad6  | U     | 6   | 130 | Fixed String | not used   |

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## 6.13 Replace Order Response (Lean Order)

This message confirms a Replace Order request for a Lean Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|
| <messa< td=""><td colspan="8"><messageheaderout></messageheaderout></td></messa<>               | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI         |  |  |
|   |                                       |       |     |     |              | message layout. Value: 10108           |  |  |
|   |                                       |       |     |     |              | (ExecutionReport, MsgType = 8)         |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME>                       |       |     |     |              |  |  |  |
| 5979  | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the     |  |  |
|   |                                       |       |     |     |              | gateway                                |  |  |
| 21002   | TrdRegTSTimeIn                        | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.          |  |  |
| 21003   | TrdRegTSTimeOut                       | Υ     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.         |  |  |
| 7765  | ResponseIn                            | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a       |  |  |
|   |                                       |       |     |     |              | message from the Matching Engine       |  |  |
| 52  | SendingTime                           | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-   |  |  |
|   |                                       |       |     |     |              | ways by the gateway                    |  |  |
| 34  | MsgSeqNum                             | Y     | 4   | 48  | unsigned int | Message sequence number used by the    |  |  |
|   |                                       |       |     |     |              | participant for requests sent to the   |  |  |
|   |                                       |       |     |     |              | gateway.                               |  |  |
| 893   | LastFragment                          | Y     | 1   | 52  | unsigned int | Indicates whether this message is the  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 0 Not Last Message                     |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 39030   |                                       | U     | 3   | 53  | Fixed String | not used                               |  |  |
|   | geBody>                               | 1 1   |     |     | l            |  |  |  |
| 37  | OrderID                               | Y     | 8   | 56  | unsigned int | Exchange Order ID generated by the     |  |  |
|   |                                       |       |     |     |              | T7 System; it remains constant over    |  |  |
|   |                                       |       |     |     |              | the lifetime of an order.              |  |  |
| 11  | ClOrdID                               | N     | 8   | 64  | unsigned int | Client Order ID: Unique participant    |  |  |
|   |                                       |       |     |     |              | defined order request identifier; used |  |  |
|   |                                       |       |     |     |              | for client order id chaining.          |  |  |
| 41  | OrigClOrdID                           | N     | 8   | 72  | unsigned int | CIOrdID (11) of the last successfully  |  |  |
|   |                                       |       |     |     |              | processed task (request) referring to  |  |  |
|   |                                       |       |     |     |              | the specific order.                    |  |  |

| Tag  | Field Name             | Req'd | Len | Ofs | Data Type    | Description   |
|------|------------------------|-------|-----|-----|--------------|---|
| 48   | SecurityID             | Υ     | 8   | 80  | signed int   | Instrument identifier.  |
| 17   | ExecID                 | Y     | 8   | 88  | UTCTimestamp | Transaction timestamp.  |
| 151  | LeavesQty              | Y     | 8   | 96  | Qty          | Remaining quantity of an order.   |
| 14   | CumQty                 | Y     | 8   | 104 | Qty          | Cumulated executed quantity of an or-   |
|      |                        |       |     |     |              | der.  |
| 84   | CxIQty                 | Y     | 8   | 112 | Qty          | Total quantity cancelled for this order.  |
| 39   | OrdStatus              | Y     | 1   | 120 | char         | Conveys the current status of an or-  |
|      |                        |       |     |     |              | der.  |
|      |                        |       |     |     |              | Value Description   |
|      |                        |       |     |     |              | 0 New   |
|      |                        |       |     |     |              | 1 Partially filled  |
|      |                        |       |     |     |              | 2 Filled  |
|      |                        |       |     |     |              | 4 Cancelled   |
|      |                        |       |     |     |              | 9 Suspended   |
|      |                        |       |     |     |              |   |
| 150  | ExecType               | Y     | 1   | 121 | char         | The reason why this message was gen-  |
|      |                        |       |     |     |              | erated.   |
|      |                        |       |     |     |              | Value Description   |
|      |                        |       |     |     |              | 4 Cancelled   |
|      |                        |       |     |     |              | 5 Replaced  |
|      |                        |       |     |     |              | L Triggered   |
| 378  | ExecRestatement-Reason | Y     | 2   | 122 | unsigned int | Code to further qualify the field Exec- Type (150) of the Execution Report (8) message.  Value Description 102 Order modify accepted 105 IOC Order accepted 181 Ownership Changed 212 Book or Cancel Order accepted 114 Order has been changed to IOC |
| 2523 | CrossedIndicator       | Y     | 1   | 124 | unsigned int | Indicates SMP involvement.  Value Description  No crossing (Order not subject to crossing)  Cross rejected (Order subject to crossing and match prevented)  |

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| Tag   | Field Name                     | Req'd  | Len         | Ofs | Data Type    | Description  |
|-------|--------------------------------|--------|-------------|-----|--------------|--|
| 1227  | ProductComplex                 | Υ      | 1           | 125 | unsigned int | This field qualifies an instrument type              |
|       |                                |        |             |     |              | on T7.   |
|       |                                |        |             |     |              | Value Description                                    |
|       |                                |        |             |     |              | 1 Simple instrument                                  |
|       |                                |        |             |     |              | 2 Standard Option Strategy                           |
|       |                                |        |             |     |              | 3 Non-Standard Option Strategy                       |
|       |                                |        |             |     |              | 4 Volatility Strategy                                |
|       |                                |        |             |     |              | 5 Futures Spread                                     |
|       |                                |        |             |     |              | 6 Inter-Product Spread                               |
|       |                                |        |             |     |              | 7 Standard Future Strategy                           |
|       |                                |        |             |     |              | 8 Pack and Bundle                                    |
|       |                                |        |             |     |              | 9 Strip  |
|       |                                |        |             |     |              | 11 Commodity Strip                                   |
| 1823  | Triggered                      | Y      | 1           | 126 | unsigned int | Indicates if an order has been previously triggered. |
|       |                                |        |             |     |              | Value Description  0 Not Triggered                   |
|       |                                |        |             |     |              | 1111 111661111                                       |
|       |                                |        |             |     |              | 1 Triggered Stop 2 Triggered OCO                     |
|       |                                |        |             |     |              | 2 Miggered OCO                                       |
| 25159 | TransactionDelay-<br>Indicator | Y      | 1           | 127 | unsigned int | Indicator for a delayed transaction                  |
|       |                                |        |             |     |              | Value Description                                    |
|       |                                |        |             |     |              | 0 Transaction not delayed                            |
|       |                                |        |             |     |              | 1 Transaction delayed                                |
| 20700 | Na Ouda C                      | V      | 1           | 100 | C            | Number of order county                               |
|       | NoOrderEvents                  | Y<br>U | 7           | 128 | Counter      | Number of order events                               |
| 39070 | Pad                            |        | 7<br>) Reco | 129 | Fixed String | not used   |
| 1799  |                                | Y      | 8 8         | 136 | PriceType    | Price level for the order event.                     |
| 1800  |                                | Y      | 8           | 144 | Qty          | Quantity for the order event.                        |
| 30060 |                                | Y      | 4           | 152 | unsigned int | Unique identifier for each price level               |
|       | - Jack Eventiviate III         |        |             | -02 | 2Biled iiit  | (match step) of an order event.                      |
| 1798  | >OrderEventReason              | Y      | 1           | 156 | unsigned int | Action that caused the event to occur.               |
|       |                                |        |             |     |              | Value Description                                    |
|       |                                |        |             |     |              | 100 SMP event  |
|       |                                |        |             |     |              | 250 01111 01011                                      |
| 39030 | >Pad3                          | U      | 3           | 157 | Fixed String | not used   |

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## 6.14 Replace Order Response (Standard Order)

This message confirms a Replace Order request for a Standard Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag                      | Field Name              | Req'd | Len | Ofs | Data Type    | Description   |
|--------------------------|-------------------------|-------|-----|-----|--------------|---|
| < Messa                  | geHeaderOut>            |       |     |     |              |   |
| 9                        | BodyLen                 | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500                    | TemplateID              | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10107 (ExecutionReport, MsgType = 8)  |
| 39020                    | Pad2                    | U     | 2   | 6   | Fixed String | not used  |
| < Respon                 | nseHeaderME>            | '     |     |     | 1            |   |
| 5979                     | RequestTime             | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway  |
| 21002                    | TrdRegTSTimeIn          | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.   |
| 21003                    | ${\sf TrdRegTSTimeOut}$ | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.  |
| 7765                     | ResponseIn              | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a message from the Matching Engine   |
| 52                       | SendingTime             | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled always by the gateway  |
| 34                       | MsgSeqNum               | Y     | 4   | 48  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.   |
| 5948                     | PartitionID             | Y     | 2   | 52  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 1180                     | ApplID                  | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.  Value Description  4 Session Data   |
| 28704                    | ApplMsgID               | N     | 16  | 55  | data         | Not set if the submitting session is not the owner of the replaced order.   |
| 893                      | LastFragment            | Y     | 1   | 71  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  0 Not Last Message  1 Last Message |
| <messa<sub>i</messa<sub> | geBody>                 |       |     |     |              |   |

| Tag   | Field Name                | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|---------------------------|-------|-----|-----|--------------|--|
| 37    | OrderID                   | Υ     | 8   | 72  | unsigned int | Exchange Order ID generated by the       |
|       |                           |       |     |     |              | T7 System; it remains constant over      |
|       |                           |       |     |     |              | the lifetime of an order.                |
| 11    | ClOrdID                   | N     | 8   | 80  | unsigned int | Client Order ID: Unique participant      |
|       |                           |       |     |     |              | defined order request identifier; used   |
|       |                           |       |     |     |              | for client order id chaining.            |
| 41    | OrigClOrdID               | N     | 8   | 88  | unsigned int | ClOrdID (11) of the last successfully    |
|       |                           |       |     |     |              | processed task (request) referring to    |
|       |                           |       |     |     |              | the specific order.                      |
| 48    | SecurityID                | Y     | 8   | 96  | signed int   | Instrument identifier.                   |
| 17    | ExecID                    | Y     | 8   | 104 | UTCTimestamp | Transaction timestamp.                   |
| 151   | LeavesQty                 | Υ     | 8   | 112 | Qty          | Remaining quantity of an order.          |
| 14    | CumQty                    | Υ     | 8   | 120 | Qty          | Cumulated executed quantity of an or-    |
|       |                           |       |     |     |              | der.                                     |
| 84    | CxIQty                    | Υ     | 8   | 128 | Qty          | Total quantity cancelled for this order. |
| 21008 | TrdRegTSTime-<br>Priority | Y     | 8   | 136 | UTCTimestamp | Priority timestamp.                      |
| 39    |                           | Y     | 1   | 144 | char         | Conveys the current status of an or-     |
|       | OluStatus                 | '     | _   | 144 | Cital        | der.                                     |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | 0 New                                    |
|       |                           |       |     |     |              | 1 Partially filled                       |
|       |                           |       |     |     |              | 2 Filled                                 |
|       |                           |       |     |     |              | 4 Cancelled                              |
|       |                           |       |     |     |              | 9 Suspended                              |
|       |                           |       |     |     |              |  |
| 150   | ExecType                  | Υ     | 1   | 145 | char         | The reason why this message was gen-     |
|       |                           |       |     |     |              | erated.                                  |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | 4 Cancelled                              |
|       |                           |       |     |     |              | 5 Replaced                               |
|       |                           |       |     |     |              | L Triggered                              |
|       |                           |       |     |     |              |  |

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| Tag  | Field Name                 | Req'd | Len | Ofs | Data Type    | Description   |
|------|----------------------------|-------|-----|-----|--------------|---|
| 378  | ExecRestatement-<br>Reason | Y     | 2   | 146 | unsigned int | Code to further qualify the field Exec-<br>Type (150) of the Execution Report<br>(8) message.   |
|      |                            |       |     |     |              | Value Description  102 Order modify accepted  105 IOC Order accepted  181 Ownership Changed  212 Book or Cancel Order accepted  114 Order has been changed to IOC   |
| 2523 | CrossedIndicator           | Y     | 1   | 148 | unsigned int | Indicates SMP involvement.  Value Description  No crossing (Order not subject to crossing)  Cross rejected (Order subject to crossing and match prevented)  |
| 1227 | ProductComplex             | Y     | 1   | 149 | unsigned int | This field qualifies an instrument type on T7.  Value Description  1 Simple instrument  2 Standard Option Strategy  Non-Standard Option Strategy  4 Volatility Strategy  5 Futures Spread  6 Inter-Product Spread  7 Standard Future Strategy  8 Pack and Bundle  9 Strip  11 Commodity Strip |

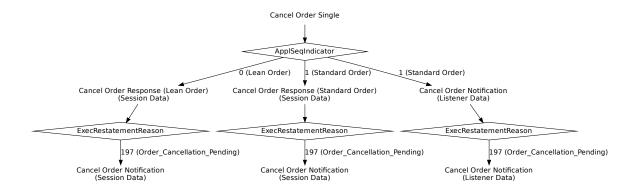
| Tag   | Field Name                     | Req'd   | Len    | Ofs     | Data Type        | Description  |
|---|--------------------------------|---------|--------|---------|------------------|--|
| 1823  | Triggered                      | Y       | 1      | 150     | unsigned int     | Indicates if an order has been previously triggered. |
|   |                                |         |        |         |                  | Value Description  0 Not Triggered                   |
|   |                                |         |        |         |                  | 1 Triggered Stop                                     |
|   |                                |         |        |         |                  | 2 Triggered OCO                                      |
| 25159   | TransactionDelay-<br>Indicator | Y       | 1      | 151     | unsigned int     | Indicator for a delayed transaction                  |
|   |                                |         |        |         |                  | Value Description                                    |
|   |                                |         |        |         |                  | 0 Transaction not delayed  1 Transaction delayed     |
|   |                                |         |        |         |                  | 1 Transaction delayed                                |
| 28790   | NoOrderEvents                  | Υ       | 1      | 152     | Counter          | Number of order events                               |
| 39070   | Pad7                           | U       | 7      | 153     | Fixed String     | not used   |
| <orde< td=""><td>erEventGrp&gt; Cardinality</td><td>: 0-100</td><td>, Reco</td><td>ord cou</td><td>ınter: NoOrderEv</td><td>ents</td></orde<> | erEventGrp> Cardinality        | : 0-100 | , Reco | ord cou | ınter: NoOrderEv | ents   |
| 1799  | >OrderEventPx                  | Υ       | 8      | 160     | PriceType        | Price level for the order event.                     |
| 1800  | >OrderEventQty                 | Y       | 8      | 168     | Qty              | Quantity for the order event.                        |
| 30060   | >OrderEventMatchID             | Υ       | 4      | 176     | unsigned int     | Unique identifier for each price level               |
|   |                                |         |        |         |                  | (match step) of an order event.                      |
| 1798  | >OrderEventReason              | Υ       | 1      | 180     | unsigned int     | Action that caused the event to occur.               |
|   |                                |         |        |         |                  | Value Description                                    |
|   |                                |         |        |         |                  | 100 SMP event  |
| 39030   | >Pad3                          | U       | 3      | 181     | Fixed String     | not used   |

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### 6.15 Cancel Order Single

This message is used to cancel a single order. For more details, please refer to the ETI Manual, chapter Cancellation. This message is sent to the service "Order and Quote Management".



| Tag                                 | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |
|-------------------------------------|--------------|-------|-----|-----|--------------|--|--|--|--|
| <messageheaderin></messageheaderin> |              |       |     |     |              |  |  |  |  |
| 9                                   | BodyLen      | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |
|                                     |              |       |     |     |              | cluding this field.                        |  |  |  |
| 28500                               | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |  |  |  |
|                                     |              |       |     |     |              | sage layout. Value: 10109 (Order-          |  |  |  |
|                                     |              |       |     |     |              | ${\sf CancelRequest,\ MsgType} = {\sf F)}$ |  |  |  |
| 25028                               | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                   |  |  |  |
| 39020                               | Pad2         | U     | 2   | 14  | Fixed String | not used                                   |  |  |  |
| < Reque                             | stHeader>    |       |     |     |              |  |  |  |  |
| 34                                  | MsgSeqNum    | Υ     | 4   | 16  | unsigned int | Message sequence number used by the        |  |  |  |
|                                     |              |       |     |     |              | participant for requests sent to the       |  |  |  |
|                                     |              |       |     |     |              | gateway.                                   |  |  |  |
| 50                                  | SenderSubID  | Υ     | 4   | 20  | unsigned int | User ID.                                   |  |  |  |
| < Messa                             | geBody>      |       |     |     |              |  |  |  |  |
| 37                                  | OrderID      | N     | 8   | 24  | unsigned int | Exchange Order ID generated by the         |  |  |  |
|                                     |              |       |     |     |              | T7 System; it remains constant over        |  |  |  |
|                                     |              |       |     |     |              | the lifetime of an order.                  |  |  |  |
| 11                                  | ClOrdID      | N     | 8   | 32  | unsigned int | Client Order ID: Unique participant        |  |  |  |
|                                     |              |       |     |     |              | defined order request identifier; used     |  |  |  |
|                                     |              |       |     |     |              | for client order id chaining.              |  |  |  |
| 41                                  | OrigClOrdID  | N     | 8   | 40  | unsigned int | ClOrdID (11) of the last successfully      |  |  |  |
|                                     |              |       |     |     |              | processed task (request) referring to      |  |  |  |
|                                     |              |       |     |     |              | the specific order.                        |  |  |  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 20122 | PartyldInvestment-<br>DecisionMaker               | N     | 8   | 48  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.                           |
| 25123 | ExecutingTrader                                   | N     | 8   | 56  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.               |
| 1300  | MarketSegmentID                                   | Y     | 4   | 64  | signed int   | Product identifier.  |
| 30048 | SimpleSecurityID                                  | Y     | 4   | 68  | unsigned int | Instrument identifier for simple instruments. Should be filled with the 4 least significant bytes of SecurityID (48) provided in T7 RDI and T7 RDF reference data.   |
| 20655 | TargetPartyIDSession-ID                           | N     | 4   | 72  | unsigned int | Session ID that entered the order.   |
| 1724  | OrderOrigination                                  | N     | 1   | 76  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 77  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |

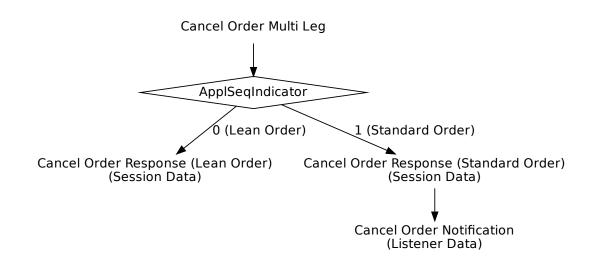
| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | N     | 1   | 78  | unsigned int | Derivatives Markets: Required. Cash Markets: ExecutingTraderQualifier can be omitted only if specialist submits transaction On-Behalf of another business unit  Value Description  22 Algo  24 Human/Natural person                                 |
| 30011 | FIXCIOrdID                     | N     | 20  | 79  | Fixed String | User defined client order ID Valid characters: \x20-\x7E  |
| 2404  | ComplianceText                 | N     | 20  | 99  | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 39000 | Pad1                           | U     | 1   | 119 | Fixed String | not used  |

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# 6.16 Cancel Order Multi Leg

This message is used to cancel a multi leg order. For more details, please refer to the ETI Manual, chapter Cancellation. This message is sent to the service "Order and Quote Management".



| Tag                                 | Field Name                      | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |
|-------------------------------------|---------------------------------|-------|-----|-----|--------------|--|--|--|--|
| <messageheaderin></messageheaderin> |                                 |       |     |     |              |  |  |  |  |
| 9                                   | BodyLen                         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |
|                                     |                                 |       |     |     |              | cluding this field.                        |  |  |  |
| 28500                               | TemplateID                      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |  |  |  |
|                                     |                                 |       |     |     |              | sage layout. Value: 10123 (Order-          |  |  |  |
|                                     |                                 |       |     |     |              | ${\sf CancelRequest,\ MsgType} = {\sf F)}$ |  |  |  |
| 25028                               | NetworkMsgID                    | U     | 8   | 6   | Fixed String | not used                                   |  |  |  |
| 39020                               | Pad2                            | U     | 2   | 14  | Fixed String | not used                                   |  |  |  |
| < Reque                             | <requestheader></requestheader> |       |     |     |              |  |  |  |  |
| 34                                  | MsgSeqNum                       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the        |  |  |  |
|                                     |                                 |       |     |     |              | participant for requests sent to the       |  |  |  |
|                                     |                                 |       |     |     |              | gateway.                                   |  |  |  |
| 50                                  | SenderSubID                     | Υ     | 4   | 20  | unsigned int | User ID.                                   |  |  |  |
| < Messa                             | geBody>                         |       |     |     |              |  |  |  |  |
| 37                                  | OrderID                         | N     | 8   | 24  | unsigned int | Exchange Order ID generated by the         |  |  |  |
|                                     |                                 |       |     |     |              | T7 System; it remains constant over        |  |  |  |
|                                     |                                 |       |     |     |              | the lifetime of an order.                  |  |  |  |
| 11                                  | ClOrdID                         | N     | 8   | 32  | unsigned int | Client Order ID: Unique participant        |  |  |  |
|                                     |                                 |       |     |     |              | defined order request identifier; used     |  |  |  |
|                                     |                                 |       |     |     |              | for client order id chaining.              |  |  |  |

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| Tag   | Field Name              | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------|-------|-----|-----|--------------|--|
| 41    | OrigClOrdID             | N     | 8   | 40  | unsigned int | ClOrdID (11) of the last successfully                                  |
|       |                         |       |     |     |              | processed task (request) referring to                                  |
|       |                         |       |     |     |              | the specific order.  |
| 48    | SecurityID              | Y     | 8   | 48  | signed int   | Instrument identifier.   |
| 20122 | PartyldInvestment-      | N     | 8   | 56  | unsigned int | MiFID field: Investment decision                                       |
|       | DecisionMaker           |       |     |     |              | within firm (ESMA Field 4 (Section                                     |
|       |                         |       |     |     |              | A)) is the code used to identify the                                   |
|       |                         |       |     |     |              | person or the algorithm within the                                     |
|       |                         |       |     |     |              | member or participant of the Trading                                   |
|       |                         |       |     |     |              | Venue who is responsible for the in-                                   |
| 05100 | E T .                   | N.    | 0   | C 4 |              | vestment decision.   |
| 25123 | ExecutingTrader         | N     | 8   | 64  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used |
|       |                         |       |     |     |              | to identify the person or algorithm                                    |
|       |                         |       |     |     |              | within the member or participant of                                    |
|       |                         |       |     |     |              | the trading venue who is responsible                                   |
|       |                         |       |     |     |              | for the execution of the transaction re-                               |
|       |                         |       |     |     |              | sulting from the order.  |
| 1300  | MarketSegmentID         | Y     | 4   | 72  | signed int   | Product identifier.  |
| 20655 | TargetPartyIDSession-ID | N     | 4   | 76  | unsigned int | Session ID.  |
| 1724  | OrderOrigination        | N     | 1   | 80  | unsigned int | MiFID field: Field to indicate order                                   |
|       |                         |       |     |     |              | received from a direct access or spon-                                 |
|       |                         |       |     |     |              | sored access customer  |
|       |                         |       |     |     |              | Value Description  |
|       |                         |       |     |     |              | Order received from a direct   |
|       |                         |       |     |     |              | access customer  |
|       | PartyldInvestment-      |       |     |     |              |  |
| 21222 |                         | N     | 1   | 81  | unsigned int | MiFID field: Qualifier for field Party-                                |
|       | Qualifier               |       |     |     |              | IdInvestmentDecisionMaker. Mem-  |
|       |                         |       |     |     |              | bers/participants will have the possi-                                 |
|       |                         |       |     |     |              | bility to specify an Investment quali-                                 |
|       |                         |       |     |     |              | fier value to distinguish between nat-                                 |
|       |                         |       |     |     |              | ural persons and Algos.  |
|       |                         |       |     |     |              | Value Description  |
|       |                         |       |     |     |              | 22 Algo  |
|       |                         |       |     |     |              | 24 Human/Natural person  |
|       |                         |       |     |     |              |  |

| Tag   | Field Name                     | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|----------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | <b>Y</b> | 1   | 82  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 30011 | FIXCIOrdID                     | N        | 20  | 83  | Fixed String | User defined client order ID Valid characters: \x20-\x7E  |
| 2404  | ComplianceText                 | N        | 20  | 103 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 39050 | Pad5                           | U        | 5   | 123 | Fixed String | not used  |

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# 6.17 Cancel Order Response (Standard Order)

This message confirms the cancellation of a Standard Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description   |  |  |
|---|-----------------|-------|-----|-----|--------------|---|--|--|
| <messageheaderout></messageheaderout>   |                 |       |     |     |              |   |  |  |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |  |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10110 (ExecutionReport, MsgType = 8)  |  |  |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used  |  |  |
| <respo< td=""><td>nseHeaderME&gt;</td><td>'</td><td></td><td></td><td></td><td></td></respo<> | nseHeaderME>    | '     |     |     |              |   |  |  |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway  |  |  |
| 21002   | TrdRegTSTimeIn  | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.   |  |  |
| 21003   | TrdRegTSTimeOut | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.  |  |  |
| 7765  | ResponseIn      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a message from the Matching Engine   |  |  |
| 52  | SendingTime     | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled always by the gateway  |  |  |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.   |  |  |
| 5948  | PartitionID     | Y     | 2   | 52  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |  |  |
| 1180  | AppIID          | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.  Value Description  4 Session Data   |  |  |
| 28704   | ApplMsgID       | N     | 16  | 55  | data         | Not set if the submitting session is not the owner of the cancelled order.  |  |  |
| 893   | LastFragment    | Y     | 1   | 71  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |
| < Messa   | geBody>         |       |     | 1   |              |   |  |  |

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| 37 OrderID Y 8 72 unsigned            | int Exchange Order ID generated by the      |
|---------------------------------------|---|
|                                       |   |
|                                       | T7 System; it remains constant over         |
|                                       | the lifetime of an order.                   |
| 11 ClOrdID N 8 80 unsigned            | int Client Order ID: Unique participant     |
|                                       | defined order request identifier; used      |
|                                       | for client order id chaining.               |
| 41 OrigClOrdID N 8 88 unsigned        | int ClOrdID (11) of the last successfully   |
|                                       | processed task (request) referring to       |
|                                       | the specific order.                         |
| 48 SecurityID Y 8 96 signed in        | nt Instrument identifier.                   |
| 17 ExecID Y 8 104 UTCTimes            | tamp Transaction timestamp.                 |
| 14 CumQty Y 8 112 Qty                 | Cumulated executed quantity of an or-       |
|                                       | der.  |
| 84 CxIQty Y 8 120 Qty                 | Total quantity cancelled for this order.    |
| 39 OrdStatus Y 1 128 char             | Conveys the current status of an or-        |
|                                       | der.  |
|                                       | Value Description                           |
|                                       | 4 Cancelled                                 |
|                                       | Pending Cancel (i.e. result of              |
|                                       | Order Cancel Request)                       |
|                                       | 9 Suspended                                 |
|                                       |   |
| 150 ExecType Y 1 129 char             | The reason why this message was gen-        |
|                                       | erated.                                     |
|                                       | Value Description                           |
|                                       | 4 Cancelled                                 |
|                                       | Pending Cancel (e.g. result                 |
|                                       | of Order Cancel Request)                    |
| EverDestatement                       |   |
| 378 ExecRestatement- Y 2 130 unsigned | int Code to further qualify the field Exec- |
| INEASOII                              | Type (150) of the Execution Report          |
|                                       | (8) message.                                |
|                                       | Value Description                           |
|                                       | 103 Order delete accepted                   |
|                                       | 197 Pending order deletion                  |
|                                       | Pending order cancellation                  |
|                                       | 199 processed (end of FREEZE                |
|                                       | state)                                      |
|                                       |   |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type      | Description                                    |
|-------|--------------------------------|-------|-----|-----|----------------|--|
| 1227  | ProductComplex                 | Y     | 1   | 132 | unsigned int   | This field qualifies an instrument type on T7. |
|       |                                |       |     |     |                | Value Description                              |
|       |                                |       |     |     |                | 1 Simple instrument                            |
|       |                                |       |     |     |                | 2 Standard Option Strategy                     |
|       |                                |       |     |     |                | Non-Standard Option Strat-                     |
|       |                                |       |     |     |                | egy  |
|       |                                |       |     |     |                | 4 Volatility Strategy                          |
|       |                                |       |     |     |                | 5 Futures Spread                               |
|       |                                |       |     |     |                | 6 Inter-Product Spread                         |
|       |                                |       |     |     |                | 7 Standard Future Strategy                     |
|       |                                |       |     |     |                | 8 Pack and Bundle                              |
|       |                                |       |     |     |                | 9 Strip  |
|       |                                |       |     |     |                | 11 Commodity Strip                             |
|       |                                |       |     |     |                |  |
| 25159 | TransactionDelay-<br>Indicator | Y     | 1   | 133 | unsigned int   | Indicator for a delayed transaction            |
|       |                                |       |     |     |                | Value Description                              |
|       |                                |       |     |     |                | 0 Transaction not delayed                      |
|       |                                |       |     |     |                | 1 Transaction delayed                          |
| 39020 | Pad2                           | U     | 2   | 134 | Fixed String   | not used                                       |
| 39020 | rau∠                           | U     |     | 134 | i ixeu Strillg | HOL USEU                                       |

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## 6.18 Cancel Order Response (Lean Order)

This message confirms the cancellation of a Lean Order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description   |  |  |
|---|-----------------|-------|-----|-----|--------------|---|--|--|
| <messageheaderout></messageheaderout>   |                 |       |     |     |              |   |  |  |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |  |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10111 (ExecutionReport, MsgType = 8)  |  |  |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used  |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME> |       |     |     |              |   |  |  |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway  |  |  |
| 21002   | TrdRegTSTimeIn  | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.   |  |  |
| 21003   | TrdRegTSTimeOut | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.  |  |  |
| 7765  | ResponseIn      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a message from the Matching Engine   |  |  |
| 52  | SendingTime     | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled always by the gateway  |  |  |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.   |  |  |
| 893   | LastFragment    | Y     | 1   | 52  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |
| 39030   | Pad3            | U     | 3   | 53  | Fixed String | not used  |  |  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td>I</td><td></td></messa<>        | geBody>         |       |     |     | I            |   |  |  |
| 37  | OrderID         | Y     | 8   | 56  | unsigned int | Exchange Order ID generated by the T7 System; it remains constant over the lifetime of an order.  |  |  |
| 11  | ClOrdID         | N     | 8   | 64  | unsigned int | Client Order ID: Unique participant defined order request identifier; used for client order id chaining.  |  |  |
| 41  | OrigClOrdID     | N     | 8   | 72  | unsigned int | ClOrdID (11) of the last successfully processed task (request) referring to the specific order.   |  |  |
| 48  | SecurityID      | Y     | 8   | 80  | signed int   | Instrument identifier.  |  |  |

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| Tag  | Field Name       | Req'd | Len | Ofs | Data Type    | Description                              |
|------|------------------|-------|-----|-----|--------------|--|
| 17   | ExecID           | Υ     | 8   | 88  | UTCTimestamp | Transaction timestamp.                   |
| 14   | CumQty           | Υ     | 8   | 96  | Qty          | Cumulated executed quantity of an or-    |
|      |                  |       |     |     |              | der.                                     |
| 84   | CxIQty           | Y     | 8   | 104 | Qty          | Total quantity cancelled for this order. |
| 39   | OrdStatus        | Y     | 1   | 112 | char         | Conveys the current status of an or-     |
|      |                  |       |     |     |              | der.                                     |
|      |                  |       |     |     |              | Value Description                        |
|      |                  |       |     |     |              | 4 Cancelled                              |
|      |                  |       |     |     |              | Pending Cancel (i.e. result of           |
|      |                  |       |     |     |              | Order Cancel Request)                    |
|      |                  |       |     |     |              | 9 Suspended                              |
| 150  | ЕхесТуре         | Y     | 1   | 113 | char         | The reason why this message was gen-     |
|      | - Zince Type     |       | _   |     | G.I.G.       | erated.                                  |
|      |                  |       |     |     |              | Value Description                        |
|      |                  |       |     |     |              | 4 Cancelled                              |
|      |                  |       |     |     |              | Pending Cancel (e.g. result              |
|      |                  |       |     |     |              | of Order Cancel Request)                 |
|      |                  |       |     |     |              |  |
| 378  | ExecRestatement- | Y     | 2   | 114 | unsigned int | Code to further qualify the field Exec-  |
|      | Reason           |       |     |     |              | Type (150) of the Execution Report       |
|      |                  |       |     |     |              | (8) message.                             |
|      |                  |       |     |     |              | Value Description                        |
|      |                  |       |     |     |              | 103 Order delete accepted                |
|      |                  |       |     |     |              | 197 Pending order deletion               |
|      |                  |       |     |     |              |  |
| 1227 | ProductComplex   | Y     | 1   | 116 | unsigned int | This field qualifies an instrument type  |
|      |                  |       |     |     |              | on 17.                                   |
|      |                  |       |     |     |              | Value Description                        |
|      |                  |       |     |     |              | 1 Simple instrument                      |
|      |                  |       |     |     |              | 2 Standard Option Strategy               |
|      |                  |       |     |     |              | Non-Standard Option Strat-               |
|      |                  |       |     |     |              | egy                                      |
|      |                  |       |     |     |              | 4 Volatility Strategy 5 Futures Spread   |
|      |                  |       |     |     |              | 6 Inter-Product Spread                   |
|      |                  |       |     |     |              | 7 Standard Future Strategy               |
|      |                  |       |     |     |              | 8 Pack and Bundle                        |
|      |                  |       |     |     |              | 9 Strip                                  |
|      |                  |       |     |     |              | 11 Commodity Strip                       |
|      |                  |       |     |     |              | Li Commodity Strip                       |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------|-------|-----|-----|--------------|--|
| 25159 | TransactionDelay-<br>Indicator | Y     | 1   | 117 | unsigned int | Indicator for a delayed transaction  Value Description  0 Transaction not delayed  1 Transaction delayed |
| 39020 | Pad2                           | U     | 2   | 118 | Fixed String | not used   |

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### 6.19 Cancel Order Notification

This message informs about an unsolicited cancellation of a single order. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                            |
|---|-----------------|-------|-----|-----|--------------|--|
| < Messa   | geHeaderOut>    |       |     |     |              |  |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|   |                 |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI         |
|   |                 |       |     |     |              | message layout. Value: 10112           |
|   |                 |       |     |     |              | (ExecutionReport,MsgType=8)            |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                               |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>       |       |     |     |              |  |
| 21003   | TrdRegTSTimeOut | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.         |
| 25043   | NotificationIn  | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-   |
|   |                 |       |     |     |              | tification message from the Matching   |
|   |                 |       |     |     |              | Engine                                 |
| 52  | SendingTime     | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by   |
|   |                 |       |     |     |              | the gateway                            |
| 28727   | ApplSubID       | N     | 4   | 32  | unsigned int | Unique ID assigned by the T7 system    |
|   |                 |       |     |     |              | during broadcast subscription in order |
|   |                 |       |     |     |              | to link broadcasts to the related sub- |
|   |                 |       |     |     |              | scription.                             |
| 5948  | PartitionID     | Y     | 2   | 36  | unsigned int | Grouping of T7 products.               |
|   |                 |       |     |     |              | Belongs to the scope of Service Avail- |
|   |                 |       |     |     |              | ability and Retransmit requests.       |
| 28704   | ApplMsgID       | N     | 16  | 38  | data         | Application message identifier as-     |
|   |                 |       |     |     |              | signed to an order or quote event.     |
| 1180  | AppIID          | N     | 1   | 54  | unsigned int | Identifier for an ETI data stream.     |
|   |                 |       |     |     |              | Value Description                      |
|   |                 |       |     |     |              | 4 Session Data                         |
|   |                 |       |     |     |              | 5 Listener Data                        |
|   |                 |       |     |     |              |  |
| 1352  | ApplResendFlag  | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.    |
|   |                 |       |     |     |              | Value Description                      |
|   |                 |       |     |     |              | 0 False                                |
|   |                 |       |     |     |              | 1 True                                 |
|   |                 |       |     |     |              |  |

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| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|----------------------------|-------|-----|-----|--------------|--|
| 893   | LastFragment               | Υ     | 1   | 56  | unsigned int | Indicates whether this message is the    |
|       |                            |       |     |     |              | last fragment (part) of a sequence of    |
|       |                            |       |     |     |              | messages belonging to one dedicated      |
|       |                            |       |     |     |              | transaction.                             |
|       |                            |       |     |     |              | Value Description                        |
|       |                            |       |     |     |              | 1 Last Message                           |
|       |                            |       |     |     |              |  |
| 39070 |                            | U     | 7   | 57  | Fixed String | not used                                 |
|       | geBody>                    |       |     | ı   | T .          |  |
| 37    | OrderID                    | Y     | 8   | 64  | unsigned int | Exchange Order ID generated by the       |
|       |                            |       |     |     |              | T7 System; it remains constant over      |
|       |                            |       |     |     |              | the lifetime of an order.                |
| 11    | ClOrdID                    | N     | 8   | 72  | unsigned int | Client Order ID: Unique participant      |
|       |                            |       |     |     |              | defined order request identifier; used   |
|       |                            |       |     |     |              | for client order id chaining.            |
| 41    | OrigClOrdID                | N     | 8   | 80  | unsigned int | CIOrdID (11) of the last successfully    |
|       |                            |       |     |     |              | processed task (request) referring to    |
|       |                            |       |     |     |              | the specific order.                      |
| 48    | ,                          | Y     | 8   | 88  | signed int   | Instrument identifier.                   |
| 17    |                            | Y     | 8   | 96  | UTCTimestamp | Transaction timestamp.                   |
| 14    | CumQty                     | Y     | 8   | 104 | Qty          | Cumulated executed quantity of an or-    |
|       |                            |       |     |     |              | der.                                     |
| 84    |                            | Y     | 8   | 112 | Qty          | Total quantity cancelled for this order. |
| 1300  |                            | Y     | 4   | 120 | signed int   | Product identifier.                      |
| 20036 | PartyIDEntering-<br>Trader | N     | 4   | 124 | unsigned int | Entering User ID.                        |
| 20055 | PartyIDSessionID           | N     | 4   | 128 | unsigned int | Session ID.                              |
| 378   | ExecRestatement-           |       | 2   | 132 | unsigned int | Code to further qualify the field Exec-  |
| 370   | Reason                     | '     |     | 152 | unsigned int | Type (150) of the Execution Report       |
|       |                            |       |     |     |              | (8) message.                             |
|       |                            |       |     |     |              |  |
|       |                            |       |     |     |              | Value Description                        |
|       |                            |       |     |     |              | 103 Order delete accepted                |
|       |                            |       |     |     |              | 122 Instrument State Change              |
|       |                            |       |     |     |              | 197 Pending order deletion               |
|       |                            |       |     |     |              | Pending order cancellation               |
|       |                            |       |     |     |              | 199 processed (end of FREEZE             |
|       |                            |       |     |     |              | state)                                   |
|       |                            |       |     |     |              | 261 Panic Cancel                         |
|       |                            |       |     |     |              | 302 Market Order uncrossing              |
|       |                            |       |     |     |              |  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type      | Description                             |
|-------|---------------------|-------|-----|-----|----------------|---|
| 20007 | PartyIDEnteringFirm | N     | 1   | 134 | unsigned int   | Entering Entity ID.                     |
|       |                     |       |     |     |                | Value Description                       |
|       |                     |       |     |     |                | 1 Participant                           |
|       |                     |       |     |     |                | 2 Market Supervision                    |
|       |                     |       |     |     |                |   |
| 39    | OrdStatus           | Y     | 1   | 135 | char           | Conveys the current status of an or-    |
|       |                     |       |     |     |                | der.                                    |
|       |                     |       |     |     |                | Value Description                       |
|       |                     |       |     |     |                | 4 Cancelled                             |
|       |                     |       |     |     |                | Pending Cancel (i.e. result of          |
|       |                     |       |     |     |                | Order Cancel Request)                   |
|       |                     |       |     |     |                | 9 Suspended                             |
| 150   | ExecType            | Υ     | 1   | 136 | char           | The reason why this message was gen-    |
|       | ,,,                 |       |     |     |                | erated.                                 |
|       |                     |       |     |     |                | Value Description                       |
|       |                     |       |     |     |                | 4 Cancelled                             |
|       |                     |       |     |     |                | Pending Cancel (e.g. result             |
|       |                     |       |     |     |                | of Order Cancel Request)                |
|       |                     |       |     |     |                |   |
| 1227  | ProductComplex      | Y     | 1   | 137 | unsigned int   | This field qualifies an instrument type |
|       |                     |       |     |     |                | on T7.                                  |
|       |                     |       |     |     |                | Value Description                       |
|       |                     |       |     |     |                | 1 Simple instrument                     |
|       |                     |       |     |     |                | 2 Standard Option Strategy              |
|       |                     |       |     |     |                | Non-Standard Option Strat-              |
|       |                     |       |     |     |                | 4 Volatility Strategy                   |
|       |                     |       |     |     |                | 5 Futures Spread                        |
|       |                     |       |     |     |                | 6 Inter-Product Spread                  |
|       |                     |       |     |     |                | 7 Standard Future Strategy              |
|       |                     |       |     |     |                | 8 Pack and Bundle                       |
|       |                     |       |     |     |                | 9 Strip                                 |
|       |                     |       |     |     |                | 11 Commodity Strip                      |
|       |                     |       |     |     |                |   |
| 54    | Side                | Y     | 1   | 138 | unsigned int   | Side of the order.                      |
|       |                     |       |     |     |                | Value Description                       |
|       |                     |       |     |     |                | 1 Buy                                   |
|       |                     |       |     |     |                | 2 Sell                                  |
| 30011 | FIXCIOrdID          | N     | 20  | 139 | Fixed String   | User defined client order ID            |
| 30011 | I IVCIOIAID         | IN    | 20  | 139 | r ixed Strillg | Valid characters: \x20-\x7E             |
|       |                     |       |     |     |                | valid Cilaracters. \XZU-\XIL            |

| Tag Fie   | eld Name F | Req'd | Len | Ofs | Data Type    | Description |
|-----------|------------|-------|-----|-----|--------------|-------------|
| 39000 Pac | d1         | U     | 1   | 159 | Fixed String | not used    |

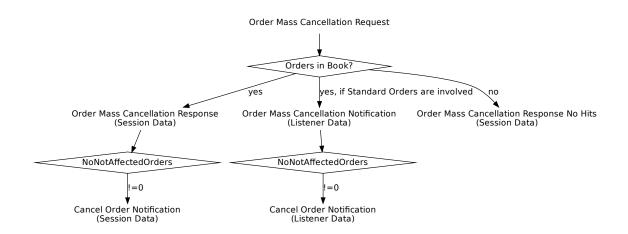
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## 6.20 Order Mass Cancellation Request

This message is used for mass cancellation of orders. For more details, please refer to the ETI Manual, chapter Order Mass Cancellation. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description   |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|---|--|--|
| < Messa   | geHeaderIn>                         |       |     |     |              |   |  |  |
| 9   | BodyLen                             | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |
|   |                                     |       |     |     |              | cluding this field.   |  |  |
| 28500   | TemplateID                          | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10120 (Order-   |  |  |
|   |                                     |       |     |     |              | ${\sf MassActionRequest,\ MsgType} = {\sf CA)}$   |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used  |  |  |
| <reque< td=""><td colspan="8"><requestheader></requestheader></td></reque<> | <requestheader></requestheader>     |       |     |     |              |   |  |  |
| 34  | MsgSeqNum                           | Υ     | 4   | 16  | unsigned int | Message sequence number used by the   |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the  |  |  |
|   |                                     |       |     |     |              | gateway.  |  |  |
| 50  | SenderSubID                         | Υ     | 4   | 20  | unsigned int | User ID.  |  |  |
| < Messa   | geBody>                             |       |     |     |              |   |  |  |
| 48  | SecurityID                          | N     | 8   | 24  | signed int   | Instrument identifier.  |  |  |
| 44  | Price                               | N     | 8   | 32  | PriceType    | Price boundary for deletion.  |  |  |
| 20122   | PartyldInvestment-<br>DecisionMaker | N     | 8   | 40  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the |  |  |
|   |                                     |       |     |     |              | member or participant of the Trading  |  |  |
|   |                                     |       |     |     |              | Venue who is responsible for the in-  |  |  |
|   |                                     |       |     |     |              | vestment decision.  |  |  |

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| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------------------|-------|-----|-----|--------------|--|
| 25123 | ExecutingTrader                | N     | 8   | 48  | unsigned int | MiFID field: Executing Trader data       |
|       |                                |       |     |     |              | Field(ESMA Field 5 (Section A))used      |
|       |                                |       |     |     |              | to identify the person or algorithm      |
|       |                                |       |     |     |              | within the member or participant of      |
|       |                                |       |     |     |              | the trading venue who is responsible     |
|       |                                |       |     |     |              | for the execution of the transaction re- |
|       |                                |       |     |     |              | sulting from the order.                  |
| 1300  | MarketSegmentID                | Y     | 4   | 56  | signed int   | Product identifier.                      |
| 20655 | TargetPartyIDSession-ID        | N     | 4   | 60  | unsigned int | Session ID.                              |
| 20612 | TargetParty- IDExecutingTrader | N     | 4   | 64  | unsigned int | Owning User ID.                          |
| 54    | Side                           | N     | 1   | 68  | unsigned int | Side of the order.                       |
|       |                                |       |     |     |              | Value Description                        |
|       |                                |       |     |     |              | 1 Buy                                    |
|       |                                |       |     |     |              | 2 Sell                                   |
|       |                                |       |     |     |              |  |
| 1724  | OrderOrigination               | N     | 1   | 69  | unsigned int | MiFID field: Field to indicate order     |
|       |                                |       |     |     |              | received from a direct access or spon-   |
|       |                                |       |     |     |              | sored access customer                    |
|       |                                |       |     |     |              | Value Description                        |
|       |                                |       |     |     |              | 5 Order received from a direct           |
|       |                                |       |     |     |              | access customer                          |
|       |                                |       |     |     |              |  |
|       | PartyldInvestment-             |       |     |     |              |  |
| 21222 | DecisionMaker-                 | N     | 1   | 70  | unsigned int | MiFID field: Qualifier for field Party-  |
|       | Qualifier                      |       |     |     |              | IdInvestmentDecisionMaker. Mem-          |
|       |                                |       |     |     |              | bers/participants will have the possi-   |
|       |                                |       |     |     |              | bility to specify an Investment quali-   |
|       |                                |       |     |     |              | fier value to distinguish between nat-   |
|       |                                |       |     |     |              | ural persons and Algos.                  |
|       |                                |       |     |     |              | Value Description                        |
|       |                                |       |     |     |              | 22 Algo                                  |
|       |                                |       |     |     |              | 24 Human/Natural person                  |
|       |                                |       |     |     |              |  |

| Tag   | Field Name                     | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|----------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | <b>Y</b> | 1   | 71  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |

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## 6.21 Order Mass Cancellation Response

This message confirms the Mass Cancellation request for orders. For more details, please refer to the ETI Manual, chapter Mass Cancellation Notification and Mass Cancellation Events.

| Tag  | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                    |  |  |  |
|--|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| <messa< td=""><td colspan="9"><messageheaderout></messageheaderout></td></messa<>            | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9  | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |  |  |  |
|  |                                       |       |     |     |              | cluding this field.                            |  |  |  |
| 28500  | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |  |  |  |
|  |                                       |       |     |     |              | sage layout. Value: 10121 (Order-              |  |  |  |
|  |                                       |       |     |     |              | ${\sf MassActionReport,\ MsgType} = {\sf BZ)}$ |  |  |  |
| 39020  | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                       |  |  |  |
| <respo< td=""><td>nseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeaderME>                          |       |     |     |              |  |  |  |  |
| 5979   | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway     |  |  |  |
| 21002  | TrdRegTSTimeIn                        | Υ     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.                  |  |  |  |
| 21003  | TrdRegTSTimeOut                       | Υ     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.                 |  |  |  |
| 7765   | ResponseIn                            | Υ     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a               |  |  |  |
|  |                                       |       |     |     |              | message from the Matching Engine               |  |  |  |
| 52   | SendingTime                           | Υ     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-           |  |  |  |
|  |                                       |       |     |     |              | ways by the gateway                            |  |  |  |
| 34   | MsgSeqNum                             | Y     | 4   | 48  | unsigned int | Message sequence number used by the            |  |  |  |
|  |                                       |       |     |     |              | participant for requests sent to the           |  |  |  |
|  |                                       |       |     |     |              | gateway.                                       |  |  |  |
| 5948   | PartitionID                           | Y     | 2   | 52  | unsigned int | Grouping of T7 products.                       |  |  |  |
|  |                                       |       |     |     |              | Belongs to the scope of Service Avail-         |  |  |  |
| 1100   | A IID                                 | Y     | 1   | E 4 |              | ability and Retransmit requests.               |  |  |  |
| 1180   | ApplID                                | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.             |  |  |  |
|  |                                       |       |     |     |              | Value Description                              |  |  |  |
|  |                                       |       |     |     |              | 4 Session Data                                 |  |  |  |
| 28704  | ApplMsgID                             | Y     | 16  | 55  | data         | Application message identifier as-             |  |  |  |
| 20701  | Applivisgi                            | '     | 10  |     | data         | signed to an order or quote event.             |  |  |  |
| 893  | LastFragment                          | Υ     | 1   | 71  | unsigned int | Indicates whether this message is the          |  |  |  |
|  |                                       |       |     |     |              | last fragment (part) of a sequence of          |  |  |  |
|  |                                       |       |     |     |              | messages belonging to one dedicated            |  |  |  |
|  |                                       |       |     |     |              | transaction.                                   |  |  |  |
|  |                                       |       |     |     |              | Value Description                              |  |  |  |
|  |                                       |       |     |     |              | 0 Not Last Message                             |  |  |  |
|  |                                       |       |     |     |              | 1 Last Message                                 |  |  |  |
|  |                                       |       |     |     |              |  |  |  |  |
| < Messa  | geBody>                               |       |     |     |              |  |  |  |  |
| 1369   | MassActionReportID                    | Y     | 8   | 72  | UTCTimestamp | Transaction timestamp.                         |  |  |  |

| Tag   | Field Name            | Req'd   | Len      | Ofs              | Data Type       | Description                           |
|---|-----------------------|---------|----------|------------------|-----------------|---------------------------------------|
| 1370  | NoNotAffectedOrders   | Υ       | 2        | 80               | Counter         | Number of NotAffectedOrders repeat-   |
|   |                       |         |          |                  |                 | ing group instances.                  |
| 28782   | NoAffectedOrder-      | Υ       | 2        | 82               | Counter         | Number of affected order transactions |
| 20102   | Requests              | ı       |          | 02               | Counter         | Number of affected order transactions |
| 39040   | Pad4                  | U       | 4        | 84               | Fixed String    | not used                              |
| <notaffectedordersgrp> Cardinality: 0-500, Record counter: NoNotAffectedOrders</notaffectedordersgrp>   |                       |         |          |                  |                 |                                       |
| 1371  | >NotAffectedOrderID   | Y       | 8        | 88               | unsigned int    | Exchange Order ID of an order whose   |
|   |                       |         |          |                  |                 | cancellation is pending.              |
| 1372  | >NotAffOrigClOrdID    | N       | 8        | 96               | unsigned int    | Original Client Order ID of an order  |
|   |                       |         |          |                  |                 | whose cancellation is pending.        |
| <affect< td=""><td>ctedOrderRequestsGrp&gt;</td><td>Cardina</td><td>ality: C</td><td>) - <i>500</i>,</td><td>Record counter:</td><td>NoAffectedOrderRequests</td></affect<> | ctedOrderRequestsGrp> | Cardina | ality: C | ) - <i>500</i> , | Record counter: | NoAffectedOrderRequests               |
| 28783   | >AffectedOrder-       | Υ       | 4        | 0                | unsigned int    | ETI message sequence number af-       |
| 20703   | RequestID             | '       | 4        |                  | unsigned int    | fected by the transaction             |
|   |                       |         |          | _                |                 |                                       |
| 39040   | >Pad4                 | U       | 4        | 4                | Fixed String    | not used                              |

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## 6.22 Order Mass Cancellation Response No Hits

This message confirms the Mass Cancellation request for orders if the order book of the session was not affected.

| Tag  | Field Name         | Req'd | Len | Ofs | Data Type    | Description                                    |
|--|--------------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<>     | geHeaderOut>       |       |     |     |              |  |
| 9  | BodyLen            | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |
|  |                    |       |     |     |              | cluding this field.                            |
| 28500  | TemplateID         | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |
|  |                    |       |     |     |              | sage layout. Value: 10124 (Order-              |
|  |                    |       |     |     |              | ${\sf MassActionReport,\ MsgType} = {\sf BZ)}$ |
| 39020  | Pad2               | U     | 2   | 6   | Fixed String | not used                                       |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td>,</td><td></td></nrre:<> | sponseHeaderME>    |       |     |     | ,            |  |
| 5979   | RequestTime        | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the             |
|  |                    |       |     |     |              | gateway  |
| 21002  | TrdRegTSTimeIn     | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.                  |
| 21003  | TrdRegTSTimeOut    | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.                 |
| 7765   | ResponseIn         | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a               |
|  |                    |       |     |     |              | message from the Matching Engine               |
| 52   | SendingTime        | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-           |
|  |                    |       |     |     |              | ways by the gateway                            |
| 34   | MsgSeqNum          | Y     | 4   | 48  | unsigned int | Message sequence number used by the            |
|  |                    |       |     |     |              | participant for requests sent to the           |
|  |                    |       |     |     |              | gateway.                                       |
| 893  | LastFragment       | Y     | 1   | 52  | unsigned int | Indicates whether this message is the          |
|  |                    |       |     |     |              | last fragment (part) of a sequence of          |
|  |                    |       |     |     |              | messages belonging to one dedicated            |
|  |                    |       |     |     |              | transaction.                                   |
|  |                    |       |     |     |              | Value Description                              |
|  |                    |       |     |     |              | 1 Last Message                                 |
| 2005   |                    |       |     |     |              |  |
| 39030  |                    | U     | 3   | 53  | Fixed String | not used                                       |
|  | geBody>            |       | _   | I   | T            |  |
| 1369   | MassActionReportID | Y     | 8   | 56  | UTCTimestamp | Transaction timestamp.                         |

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### 6.23 Order Mass Cancellation Notification

This message informs about an unsolicited mass cancellation event of orders. For more details, please refer to the ETI Manual, chapter Mass Cancellation Notification and Mass Cancellation Events.

| Tag  | Field Name      | Req'd | Len | Ofs | Data Type    | Description                            |
|--|-----------------|-------|-----|-----|--------------|--|
| <messa,< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderOut>    |       |     |     |              |  |
| 9  | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|  |                 |       |     |     |              | cluding this field.                    |
| 28500  | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|  |                 |       |     |     |              | sage layout. Value: 10122 (Order-      |
|  |                 |       |     |     |              | $MassActionReport,\ MsgType = BZ)$     |
| 39020  | Pad2            | U     | 2   | 6   | Fixed String | not used                               |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<>        | leaderME>       |       |     |     |              |  |
| 21003  | TrdRegTSTimeOut | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.         |
| 25043  | NotificationIn  | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-   |
|  |                 |       |     |     |              | tification message from the Matching   |
|  |                 |       |     |     |              | Engine                                 |
| 52   | SendingTime     | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by   |
|  |                 |       |     |     |              | the gateway                            |
| 28727  | - ' '           | N     | 4   | 32  | unsigned int | Only set for Listener Data.            |
| 5948   | PartitionID     | Y     | 2   | 36  | unsigned int | Grouping of T7 products.               |
|  |                 |       |     |     |              | Belongs to the scope of Service Avail- |
|  |                 |       |     |     |              | ability and Retransmit requests.       |
| 28704  | ApplMsgID       | Y     | 16  | 38  | data         | Application message identifier as-     |
|  |                 |       |     |     |              | signed to an order or quote event.     |
| 1180   | ApplID          | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.     |
|  |                 |       |     |     |              | Value Description                      |
|  |                 |       |     |     |              | 4 Session Data                         |
|  |                 |       |     |     |              | 5 Listener Data                        |
| 1352   | ApplResendFlag  | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.    |
|  |                 |       |     |     |              | Value Description                      |
|  |                 |       |     |     |              | 0 False                                |
|  |                 |       |     |     |              | 1 True                                 |
|  |                 |       |     |     |              |  |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description   |
|---|--|-------|-----|-----|--------------|---|
| 893   | LastFragment   | Y     | 1   | 56  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of |
|   |  |       |     |     |              | messages belonging to one dedicated   |
|   |  |       |     |     |              | transaction.  |
|   |  |       |     |     |              | Value Description   |
|   |  |       |     |     |              | 0 Not Last Message  |
|   |  |       |     |     |              | 1 Last Message  |
| 39070   | Pad7   | U     | 7   | 57  | Fixed String | not used  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geBody>  |       |     |     |              |   |
| 1369  | MassActionReportID                                     | Y     | 8   | 64  | UTCTimestamp | Transaction timestamp.  |
| 48  | SecurityID   | N     | 8   | 72  | signed int   | Only set for mass cancellations on in-                                      |
|   |  |       |     |     |              | strument (SecurityID) level.  |
| 44  | Price  | N     | 8   | 80  | PriceType    | Price boundary for deletion.  |
| 1300  | •  | Υ     | 4   | 88  | signed int   | Product identifier.   |
| 20655   | $\label{eq:continuous} Target Party ID Session- \\ ID$ | Y     | 4   | 92  | unsigned int | Session ID.   |
| 20612   | TargetParty-IDExecutingTrader                          | N     | 4   | 96  | unsigned int | Owning User ID.   |
| 20036   | PartyIDEntering-<br>Trader                             | N     | 4   | 100 | unsigned int | Entering User ID.   |
| 1370  | NoNotAffectedOrders                                    | Y     | 2   | 104 | Counter      | Number of NotAffectedOrders repeat-   |
|   |  |       |     |     |              | ing group instances.  |
| 28782   | NoAffectedOrder-<br>Requests                           | Y     | 2   | 106 | Counter      | Number of affected order transactions                                       |
| 20007   | ${\sf PartyIDEnteringFirm}$                            | N     | 1   | 108 | unsigned int | Entering Entity ID.   |
|   |  |       |     |     |              | Value Description   |
|   |  |       |     |     |              | 1 Participant   |
|   |  |       |     |     |              | 2 Market Supervision  |
|   |  |       |     |     |              |   |

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| Tag  | Field Name                                    | Req'd   | Len      | Ofs      | Data Type       | Description  |
|--|---|---------|----------|----------|-----------------|--|
| 28721  | MassActionReason                              | Υ       | 1        | 109      | unsigned int    | Reason for mass cancellation.                          |
|  |   |         |          |          |                 | Value Description                                      |
|  |   |         |          |          |                 | 0 No special reason                                    |
|  |   |         |          |          |                 | 1 Trading was stopped                                  |
|  |   |         |          |          |                 | 2 Emergency  |
|  |   |         |          |          |                 | 3 Market Maker Protection                              |
|  |   |         |          |          |                 | 6 Session loss or logout                               |
|  |   |         |          |          |                 | 7 Duplicate Session Login                              |
|  |   |         |          |          |                 | 8 Clearing Risk Control                                |
|  |   |         |          |          |                 | 100 Internal connection loss                           |
|  |   |         |          |          |                 | 107 Instrument Suspended                               |
|  |   |         |          |          |                 | 117 Member has been disabled                           |
| 18   | ExecInst                                      | Y       | 1        | 110      | unsigned int    | Instructions for order handling.                       |
|  |   |         |          |          |                 | Value Description                                      |
|  |   |         |          |          |                 | Persistent and non-persistent                          |
|  |   |         |          |          |                 | 3 orders affected (FIX value 'H                        |
|  |   |         |          |          |                 | Q')  |
|  |   |         |          |          |                 | Non-persistent Order (FIX                              |
|  |   |         |          |          |                 | value 'Q')   |
| 54   | Side  | N       | 1        | 111      | unsigned int    | Side of the order.                                     |
|  |   |         |          |          |                 | Value Description                                      |
|  |   |         |          |          |                 | 1 Buy  |
|  |   |         |          |          |                 | 2 Sell   |
| .01 .  | A.C 10 1 . C C                                | 1. 1.   | 0 50     |          |                 |  |
| 1371   | AffectedOrdersGrp> Car<br>>NotAffectedOrderID |         |          |          |                 | VotAffectedOrders  Exchange Order ID of an order whose |
| 13/1   | >NotAffectedOrderID                           | ſ       | 0        | 112      | unsigned int    | cancellation is pending.                               |
| 1372   | >NotAffOrigClOrdID                            | N       | 8        | 120      | unsigned int    | Original Client Order ID of an order                   |
| 1512   | / Not mongeroral                              | '*      |          |          | ansigned int    | whose cancellation is pending.                         |
| <affect< td=""><td>ı<br/>ctedOrderRequestsGrp&gt;</td><td>Cardina</td><td>ality: (</td><td>) - 500,</td><td>Record counter:</td><td>NoAffectedOrderRequests</td></affect<> | ı<br>ctedOrderRequestsGrp>                    | Cardina | ality: ( | ) - 500, | Record counter: | NoAffectedOrderRequests                                |
|  | >AffectedOrder-                               |         |          |          |                 |  |
| 28783  | RequestID                                     | Y       | 4        | 0        | unsigned int    | ETI message sequence number af-                        |
| 39040  | >Pad4   | U       | 4        | 4        | Fixed String    | fected by the transaction not used                     |
| 39040  | / F dU4                                       | 0       | +        | +        | I IVER ORITING  | HOL USEU   |

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### 6.24 Extended Order Information

This message format is used for order book restatement, retransmission of order events, the Listener Broadcast and for unsolicited order events within the session data. For more details, please refer to the ETI Manual, chapter Order Status and Execution Reports.

| Tag  | Field Name      | Req'd                                 | Len | Ofs        | Data Type    | Description                            |
|--|-----------------|---------------------------------------|-----|------------|--------------|--|
| <messa,< th=""><th>geHeaderOut&gt;</th><th></th><th></th><th></th><th></th><th></th></messa,<> | geHeaderOut>    |                                       |     |            |              |  |
| 9  | BodyLen         | Υ                                     | 4   | 0          | unsigned int | Number of bytes for the message, in-   |
|  |                 |                                       |     |            |              | cluding this field.                    |
| 28500  | TemplateID      | Y                                     | 2   | 4          | unsigned int | Unique identifier for a T7 ETI         |
|  |                 |                                       |     |            |              | message layout. Value: 10117           |
|  |                 |                                       |     |            |              | (ExecutionReport,MsgType=8)            |
| 39020  |                 | U                                     | 2   | 6          | Fixed String | not used                               |
|  | leaderME>       |                                       |     |            |              |  |
| 21003  | TrdRegTSTimeOut | N                                     | 8   | 8          | UTCTimestamp | Matching engine out timestamp.         |
| 25043  | NotificationIn  | N                                     | 8   | 16         | UTCTimestamp | Timestamp the gateway receives a no-   |
|  |                 |                                       |     |            |              | tification message from the Matching   |
|  |                 |                                       |     |            |              | Engine                                 |
| 52   | SendingTime     | Y                                     | 8   | 24         | UTCTimestamp | Outgoing timestamp; filled always by   |
|  |                 |                                       |     |            |              | the gateway                            |
| 28727  | ''              | N                                     | 4   | 32         | unsigned int | Only set for Listener Data.            |
| 5948   | PartitionID     | Y                                     | 2   | 36         | unsigned int | Grouping of T7 products.               |
|  |                 |                                       |     |            |              | Belongs to the scope of Service Avail- |
|  |                 |                                       |     |            |              | ability and Retransmit requests.       |
| 28704  | ApplMsgID       | N                                     | 16  | 38         | data         | Application message identifier as-     |
| 1100   | A 115           | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -   | <b>5</b> 4 |              | signed to an order or quote event.     |
| 1180   | ApplID          | Y                                     | 1   | 54         | unsigned int | Identifier for an ETI data stream.     |
|  |                 |                                       |     |            |              | Value Description                      |
|  |                 |                                       |     |            |              | 4 Session Data                         |
|  |                 |                                       |     |            |              | 5 Listener Data                        |
| 1352   | ApplResendFlag  | Y                                     | 1   | 55         | unsigned int | Indicates a retransmission message.    |
|  |                 |                                       |     |            |              | Value Description                      |
|  |                 |                                       |     |            |              | 0 False                                |
|  |                 |                                       |     |            |              | 1 True                                 |
|  |                 |                                       |     |            |              |  |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type      | Description                                    |
|-------|-------------------|-------|-----|-----|----------------|--|
| 893   | LastFragment      | Υ     | 1   | 56  | unsigned int   | Indicates whether this message is the          |
|       |                   |       |     |     |                | last fragment (part) of a sequence of          |
|       |                   |       |     |     |                | messages belonging to one dedicated            |
|       |                   |       |     |     |                | transaction.                                   |
|       |                   |       |     |     |                | Value Description                              |
|       |                   |       |     |     |                | 0 Not Last Message                             |
|       |                   |       |     |     |                | 1 Last Message                                 |
|       |                   |       |     |     |                |  |
| 39070 |                   | U     | 7   | 57  | Fixed String   | not used                                       |
|       | geBody>           |       |     |     |                |  |
| 37    | OrderID           | Y     | 8   | 64  | unsigned int   | Exchange Order ID generated by the             |
|       |                   |       |     |     |                | T7 System; it remains constant over            |
|       |                   |       |     |     |                | the lifetime of an order.                      |
| 11    | CIOrdID           | N     | 8   | 72  | unsigned int   | Client Order ID: Unique participant            |
|       |                   |       |     |     |                | defined order request identifier; used         |
|       |                   |       | _   |     |                | for client order id chaining.                  |
| 41    | OrigClOrdID       | N     | 8   | 80  | unsigned int   | CIOrdID (11) of the last successfully          |
|       |                   |       |     |     |                | processed task (request) referring to          |
|       |                   |       | _   |     |                | the specific order.                            |
|       | SecurityID        | Y     | 8   | 88  | signed int     | Instrument identifier.                         |
| 17    |                   | Υ     | 8   | 96  | UTCTimestamp   | Transaction timestamp.                         |
| 21009 | TrdRegTSEntryTime | Y     | 8   | 104 | UTCTimestamp   | The entry timestamp is the time of             |
|       | - ID              |       |     |     |                | the creation of the order.                     |
| 21008 | TrdRegTSTime-     | Υ     | 8   | 112 | UTCTimestamp   | Priority timestamp.                            |
|       | Priority          | N.    | 0   | 100 | D: T           | 1: :: D : 1::0 IT (40)                         |
| 44    | Price             | N     | 8   | 120 | PriceType      | Limit price. Required if OrdType (40)          |
| 151   |                   | V     | 0   | 100 | 0+.            | is Limit (2) or Stop Limit (4).                |
|       | LeavesQty         | Y     | 8   | 128 | Qty            | Remaining quantity of an order.                |
| 14    | CumQty            | Y     | 8   | 136 | Qty            | Cumulated executed quantity of an or-          |
| 84    | CylOty            | Y     | 8   | 144 | Qty            | der.  Total quantity cancelled for this order. |
| 38    | . ,               | Y     | 8   | 152 | Qty            | Total Order Quantity.                          |
| 99    | •                 | N     | 8   | 160 | PriceType      | Stop price. Required if OrdType (40)           |
| 99    | Stopex            | IN    | 0   | 100 | FriceType      | is Stop (3) or used as the trigger price       |
|       |                   |       |     |     |                | for an One-cancels-the-other order.            |
| 1300  | MarketSegmentID   | Y     | 4   | 168 | signed int     | Product identifier.                            |
| 432   | -                 | N     | 4   | 172 | LocalMktDate   | Date of order expiry. Required if              |
| +32   | Lyhiepate         | IN    | 7   | 112 | LocalivikiDate | TimeInForce $(59) = 6$ .                       |
| 28744 | MatchInstCrossID  | N     | 4   | 176 | unsigned int   | Self Match Prevention ID.                      |
| 20059 |                   | N     | 4   | 180 | unsigned int   | Business Unit ID.                              |
|       |                   | N     | 4   | 184 | unsigned int   | Session ID.                                    |
| 20055 | PartyIDSessionID  | IN    | 4   | 104 | unsigned int   | Jessiuli ID.                                   |

| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 20012 | PartyIDExecuting-<br>Trader | N     | 4   | 188 | unsigned int | Owning User ID.  |
| 20036 | PartyIDEntering-<br>Trader  | N     | 4   | 192 | unsigned int | Entering User ID.  |
| 30555 | NoLegExecs                  | Y     | 2   | 196 | Counter      | Number of InstrmntLegExec repeating group instances.   |
| 378   | ExecRestatement-Reason      | Y     | 2   | 198 | unsigned int | Code to further qualify the field Exec-<br>Type (150) of the Execution Report<br>(8) message.<br>Valid values are listed after this table. |
| 20007 | PartyIDEnteringFirm         | N     | 1   | 200 | unsigned int | Entering Entity ID.  |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 1 Participant  |
|       |                             |       |     |     |              | 2 Market Supervision   |
|       |                             |       |     |     |              |  |
| 1227  | ProductComplex              | Y     | 1   | 201 | unsigned int | This field qualifies an instrument type on T7.   |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 1 Simple instrument  |
|       |                             |       |     |     |              | 2 Standard Option Strategy   |
|       |                             |       |     |     |              | Non-Standard Option Strategy   |
|       |                             |       |     |     |              | 4 Volatility Strategy  |
|       |                             |       |     |     |              | 5 Futures Spread   |
|       |                             |       |     |     |              | 6 Inter-Product Spread   |
|       |                             |       |     |     |              | 7 Standard Future Strategy   |
|       |                             |       |     |     |              | 8 Pack and Bundle  |
|       |                             |       |     |     |              | 9 Strip  |
|       |                             |       |     |     |              | 11 Commodity Strip   |
| 39    | OrdStatus                   | Y     | 1   | 202 | char         | Conveys the current status of an order.  |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 0 New  |
|       |                             |       |     |     |              | 1 Partially filled   |
|       |                             |       |     |     |              | 2 Filled   |
|       |                             |       |     |     |              | 4 Cancelled  |
|       |                             |       |     |     |              | 9 Suspended  |
|       |                             |       |     |     |              |  |

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| Tag  | Field Name      | Req'd                                 | Len | Ofs | Data Type    | Description  |
|------|-----------------|---------------------------------------|-----|-----|--------------|--|
| 150  | ExecType        | Υ                                     | 1   | 203 | char         | The reason why this message was gen-                 |
|      |                 |                                       |     |     |              | erated.  |
|      |                 |                                       |     |     |              | Value Description                                    |
|      |                 |                                       |     |     |              | 0 New  |
|      |                 |                                       |     |     |              | 4 Cancelled  |
|      |                 |                                       |     |     |              | 5 Replaced   |
|      |                 |                                       |     |     |              | 9 Suspended  |
|      |                 |                                       |     |     |              | D Restated   |
|      |                 |                                       |     |     |              | L Triggered  |
|      |                 |                                       |     |     |              | F Trade  |
| F.4  | C: 1            | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 204 |              | C. L. C. I.  |
| 54   | Side            | Y                                     | 1   | 204 | unsigned int | Side of the order.                                   |
|      |                 |                                       |     |     |              | Value Description                                    |
|      |                 |                                       |     |     |              | 1 Buy  |
|      |                 |                                       |     |     |              | 2 Sell   |
| 40   | OrdType         | Y                                     | 1   | 205 | unsigned int | Order type.  |
|      |                 |                                       |     |     |              | Value Description                                    |
|      |                 |                                       |     |     |              | 1 Market   |
|      |                 |                                       |     |     |              | 2 Limit  |
|      |                 |                                       |     |     |              | 3 Stop   |
|      |                 |                                       |     |     |              | 4 Stop Limit   |
|      |                 |                                       |     |     |              |  |
| 1815 | TradingCapacity | Y                                     | 1   | 206 | unsigned int | This field designates if the trader is               |
|      |                 |                                       |     |     |              | acting in the capacity of agent, trad-               |
|      |                 |                                       |     |     |              | ing for its own account or acting as a market maker. |
|      |                 |                                       |     |     |              |  |
|      |                 |                                       |     |     |              | Value Description                                    |
|      |                 |                                       |     |     |              | 1 Customer (Agency)                                  |
|      |                 |                                       |     |     |              | 5 Principal (Proprietary) 6 Market Maker             |
|      |                 |                                       |     |     |              | 0 Warket Waker                                       |
| 59   | TimeInForce     | N                                     | 1   | 207 | unsigned int | Execution and trading restriction pa-                |
|      |                 |                                       |     |     |              | rameters supported by T7.                            |
|      |                 |                                       |     |     |              | Value Description                                    |
|      |                 |                                       |     |     |              | 0 Day (GFD)  |
|      |                 |                                       |     |     |              | Good Till Cancelled (GTC) -                          |
|      |                 |                                       |     |     |              | Standard Orders only                                 |
|      |                 |                                       |     |     |              | 3 Immediate or Cancel (IOC)                          |
|      |                 |                                       |     |     |              | Good Till Date (GTD) -                               |
|      |                 |                                       |     |     |              | Standard Orders only                                 |
|      |                 |                                       |     |     |              |  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------|-------|-----|-----|--------------|---|
| 18    | ExecInst            | N     | 1   | 208 | unsigned int | Instructions for order handling.                            |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | Persistent Order (FIX value 'H')                            |
|       |                     |       |     |     |              | Non-persistent Order (FIX value 'Q')                        |
|       |                     |       |     |     |              | Persistent and Book or Cancel order (FIX value 'H 6')       |
|       |                     |       |     |     |              | Non-persistent and Book or 6 Cancel order (FIX value 'Q 6') |
| 625   | TradingSessionSubID | N     | 1   | 209 | unsigned int | Marks a certain order to be included                        |
|       |                     |       |     |     |              | in a defined auction.                                       |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 2 Opening or opening auction                                |
|       |                     |       |     |     |              | 4 Closing or closing auction                                |
|       |                     |       |     |     |              | 8 Any auction   |
| 28703 | ApplSeqIndicator    | N     | 1   | 210 | unsigned int | Indicates if the order is a Lean Order                      |
|       |                     |       |     |     |              | or a Standard Order.  |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | 0 No Recovery Required                                      |
|       |                     |       |     |     |              | 1 Recovery Required   |
| 1     | Account             | N     | 2   | 211 | Fixed String | Accounts to book trades and keep po-                        |
|       |                     |       |     |     | 9            | sitions on.   |
|       |                     |       |     |     |              | Valid characters: 1-9, \x41, \x47,                          |
|       |                     |       |     |     |              | \x49, \x4D, \x50, \x52                                      |
| 20038 | PartyIDPosition-    | N     | 32  | 213 | Fixed String | 'Flexible Account' information.                             |
| 25050 | Account             |       | 52  | 213 | 7 Med String | Valid characters: \x20, \x30-\x39,                          |
|       |                     |       |     |     |              | \x41-\x5A   |
| 77    | PositionEffect      | N     | 1   | 245 | char         | Field is used for T7 position manage-                       |
|       |                     |       |     |     |              | ment purposes and indicates whether                         |
|       |                     |       |     |     |              | the order is submitted to open or close                     |
|       |                     |       |     |     |              | a position.   |
|       |                     |       |     |     |              | Value Description   |
|       |                     |       |     |     |              | C Close   |
|       |                     |       |     |     |              | O Open  |
|       |                     |       |     |     |              |   |

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| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 246 | Fixed String | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20   |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 251 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20032 | PartyIDBeneficiary               | N     | 9   | 258 | Fixed String | Final Beneficiary Valid characters: A-Z, 0-9, \x20   |
| 20075 | PartyIDLocationID                | N     | 2   | 267 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 1031  | CustOrderHandling-Inst           | N     | 1   | 269 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 2404  | ComplianceText                   | N     | 20  | 270 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |

| Tag   | Field Name              | Req'd   | Len    | Ofs     | Data Type      | Description                                  |
|---|-------------------------|---------|--------|---------|----------------|--|
| 25007   | FreeText1               | N       | 12     | 290     | Fixed String   | First free-format text field for trader      |
|   |                         |         |        |         |                | specific or customer-related com-            |
|   |                         |         |        |         |                | ments  |
|   |                         |         |        |         |                | Valid characters: $\x20$ , $\x23$ - $\x25$ , |
|   |                         |         |        |         |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-            |
|   |                         |         |        |         |                | \x5F, \x61-\x7B, \x7D, \x7E                  |
| 25008   | FreeText2               | N       | 12     | 302     | Fixed String   | Second free-format text field for            |
|   |                         |         |        |         |                | trader specific or customer-related          |
|   |                         |         |        |         |                | comments                                     |
|   |                         |         |        |         |                | Valid characters: $\x20$ , $\x23$ - $\x25$ , |
|   |                         |         |        |         |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-            |
|   |                         |         |        |         |                | \x5F, \x61-\x7B, \x7D, \x7E                  |
| 25009   | FreeText3               | N       | 12     | 314     | Fixed String   | Third free-format text field for trader-     |
|   |                         |         |        |         |                | specific or customer-related com-            |
|   |                         |         |        |         |                | ments.                                       |
|   |                         |         |        |         |                | Valid characters: \x20, \x23-\x25,           |
|   |                         |         |        |         |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-            |
|   |                         |         |        |         |                | \x5F, \x61-\x7B, \x7D, \x7E                  |
| 30011   | FIXCIOrdID              | N       | 20     | 326     | Fixed String   | User defined client order ID                 |
| 1000  | N. E.II                 |         |        | 246     | <u> </u>       | Valid characters: \x20-\x7E                  |
| 1362  | NoFills                 | Y       | 1      | 346     | Counter        | Specifies the number of partial fills in-    |
| 20555   | Note: October           | Y       | 1      | 247     | Country        | cluded in this Execution Report.             |
| 26555   | NoLegOnbooks            | Y       | 1      | 347     | Counter        | Number of InstrumentLeg repeating            |
|   |                         |         |        |         |                | group instances. (only for on-book trades)   |
| 28790   | NoOrderEvents           | Y       | 1      | 348     | Counter        | Number of order events                       |
|   | Triggered               | Y       | 1      | 349     | unsigned int   | Indicates if an order has been previ-        |
| 1020  | Triggered               | •       | -      | 0.5     | anoigned int   | ously triggered.                             |
|   |                         |         |        |         |                |  |
|   |                         |         |        |         |                | Value Description                            |
|   |                         |         |        |         |                | 0 Not Triggered                              |
|   |                         |         |        |         |                | 1 Triggered Stop                             |
|   |                         |         |        |         |                | 2 Triggered OCO                              |
| 2523  | CrossedIndicator        | Y       | 1      | 350     | unsigned int   | Indicates SMP involvement.                   |
|   |                         |         |        |         | -              | Value Description                            |
|   |                         |         |        |         |                | No crossing (Order not sub-                  |
|   |                         |         |        |         |                | o ject to crossing)                          |
|   |                         |         |        |         |                | Cross rejected (Order subject                |
|   |                         |         |        |         |                | 1 to crossing and match pre-                 |
|   |                         |         |        |         |                | vented)                                      |
|   |                         |         |        |         |                |  |
| 39000   | Pad1                    | U       | 1      | 351     | Fixed String   | not used                                     |
| <legc< td=""><td>OrdGrp&gt; Cardinality: 0-</td><td>144, Re</td><td>cord c</td><td>counter</td><td>: NoLegOnbooks</td><td></td></legc<> | OrdGrp> Cardinality: 0- | 144, Re | cord c | counter | : NoLegOnbooks |  |

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| Tag  | Field Name              | Req'd     | Len                  | Ofs     | Data Type         | Description                             |
|--|-------------------------|-----------|----------------------|---------|-------------------|---|
| 2680   | >LegAccount             | N         | 2                    | 352     | Fixed String      | Leg-specific account to book trades     |
|  | _                       |           |                      |         |                   | and keep positions on.                  |
|  |                         |           |                      |         |                   | Valid characters: 1-9, \x41, \x47,      |
|  |                         |           |                      |         |                   | \x4D, \x50                              |
| 564  | >LegPositionEffect      | Υ         | 1                    | 354     | char              | Leg-specific field used for T7 position |
|  |                         |           |                      |         |                   | management purposes and indicates       |
|  |                         |           |                      |         |                   | whether the leg is submitted to open    |
|  |                         |           |                      |         |                   | or close a position.                    |
|  |                         |           |                      |         |                   | Value Description                       |
|  |                         |           |                      |         |                   | C Close                                 |
|  |                         |           |                      |         |                   | O Open                                  |
|  |                         |           |                      |         |                   |   |
| 39050  | >Pad5                   | U         | 5                    | 355     | Fixed String      | not used                                |
| <fills(< td=""><td>Grp&gt; Cardinality: 0-100</td><td>), Recor</td><td>d cour</td><td>nter: N</td><td>loFills</td><td></td></fills(<>                        | Grp> Cardinality: 0-100 | ), Recor  | d cour               | nter: N | loFills           |   |
| 1364   | >FillPx                 | Y         | 8                    | 0       | PriceType         | Price of Fill.                          |
| 1365   | >FillQty                | N         | 8                    | 8       | Qty               | Quantity of Fill.                       |
| 28708  | >FillMatchID            | Y         | 4                    | 16      | unsigned int      | Unique identifier for each price level  |
|  |                         |           |                      |         |                   | (match step) of a match event; it is    |
|  |                         |           |                      |         |                   | used for public trade reporting.        |
| 1363   | >FillExecID             | Y         | 4                    | 20      | signed int        | Private identifier of an order match    |
|  |                         |           |                      |         |                   | step event, which can be reconciled     |
|  |                         |           |                      |         |                   | with the field SideTradeID (1506) in    |
|  |                         |           |                      |         |                   | the Trade Notification.                 |
| 1443   | >FillLiquidityInd       | N         | 1                    | 24      | unsigned int      | Indicates whether the order added or    |
|  |                         |           |                      |         |                   | removed liquidity. Required only for    |
|  |                         |           |                      |         |                   | execution reports generated for fills.  |
|  |                         |           |                      |         |                   | Value Description                       |
|  |                         |           |                      |         |                   | 1 Added Liquidity                       |
|  |                         |           |                      |         |                   | 2 Removed Liquidity                     |
|  |                         |           |                      |         |                   | 4 Auction                               |
|  |                         |           |                      |         |                   | 5 Triggered Stop Order                  |
|  |                         |           |                      |         |                   | 6 Triggered OCO Order                   |
|  |                         |           |                      |         |                   | 7 Triggered Market Order                |
|  |                         |           |                      |         |                   | 30                                      |
| 39070  | >Pad7                   | U         | 7                    | 25      | Fixed String      | not used                                |
| <instr< td=""><td>mntLegExecGrp&gt; Cardi</td><td>nality: C</td><td>) - <del>6</del>00,</td><td>Recor</td><td>rd counter: NoLeg</td><td>gExecs</td></instr<> | mntLegExecGrp> Cardi    | nality: C | ) - <del>6</del> 00, | Recor   | rd counter: NoLeg | gExecs                                  |
| 602  | >LegSecurityID          | Y         | 8                    | 0       | signed int        | Instrument identifier of the leg secu-  |
|  |                         |           |                      |         |                   | rity.                                   |
| 637  | >LegLastPx              | Y         | 8                    | 8       | PriceType         | Price of this leg fill.                 |
| 1418   | >LegLastQty             | Y         | 8                    | 16      | Qty               | Quantity executed in this leg fill.     |

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| Tag   | Field Name              | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------|-------|-----|-----|--------------|--|
| 1893  | >LegExecID              | Y     | 4   | 24  | signed int   | Private identifier of a leg match step, which can be reconciled with the field |
|       |                         |       |     |     |              | SideTradeID (1506) in the Trade No-  |
|       |                         |       |     |     |              | tification.  |
| 624   | >LegSide                | Y     | 1   | 28  | unsigned int | The side of the individual leg of a  |
|       |                         |       |     |     |              | strategy as defined in its signature.  |
|       |                         |       |     |     |              | Value Description  |
|       |                         |       |     |     |              | 1 Buy  |
|       |                         |       |     |     |              | 2 Sell   |
| 2421  | EUD GD                  | \ \   | 1   | 20  |              | Defends to the control of Fills  |
| 2421  | >FillRefID              | Y     | 1   | 29  | unsigned int | Reference to the corresponding Fills-Grp repeating group instance.             |
| 20020 | > D. 10                 | U     | 2   | 20  | F:           | not used   |
|       | >Pad2                   |       |     | 30  | Fixed String | 1  |
|       | erEventGrp> Cardinality |       |     |     |              |  |
| 1799  | >OrderEventPx           | Y     | 8   | 0   | PriceType    | Price level for the order event.   |
| 1800  | >OrderEventQty          | Y     | 8   | 8   | Qty          | Quantity for the order event.  |
| 30060 | >OrderEventMatchID      | Y     | 4   | 16  | unsigned int | Unique identifier for each price level   |
|       |                         |       |     |     |              | (match step) of an order event.  |
| 1798  | >OrderEventReason       | Υ     | 1   | 20  | unsigned int | Action that caused the event to occur.   |
|       |                         |       |     |     |              |  |
|       |                         |       |     |     |              | Value Description  |
|       |                         |       |     |     |              | 100 SMP event  |
| 39030 | >Pad3                   | U     | 3   | 21  | Fixed String | not used   |

#### Valid Values of ExecRestatementReason (datatype ExecRestatementReason)

| Valid | Description                                |
|-------|--|
| Value |  |
| 1     | Order book restatement                     |
| 101   | Order add accepted                         |
| 102   | Order modify accepted                      |
| 103   | Order delete accepted                      |
| 105   | IOC Order accepted                         |
| 122   | Instrument State Change                    |
| 108   | Book Order executed                        |
| 135   | Market Order triggered and executed        |
| 149   | Closing Auction Order has been activated   |
| 150   | Closing Auction Order has been inactivated |
| 151   | Opening Auction Order has been activated   |
| 152   | Opening Auction Order has been inactivated |
| 153   | Any Auction Order has been activated       |
| 154   | Any Auction Order has been inactivated     |

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|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

| 164 | One-cancels-the-other Order has been triggered             |
|-----|--|
| 172 | Stop Order has been triggered                              |
| 212 | Book or Cancel Order accepted                              |
| 197 | Pending order deletion                                     |
| 199 | Pending order cancellation processed (end of FREEZE state) |
| 181 | Ownership Changed  |
| 114 | Order has been changed to IOC                              |
| 340 | CLIP execution after improvement period                    |
| 343 | CLIP Request deleted by arrangement time out               |
| 344 | CLIP Request deleted by arrangement validation             |

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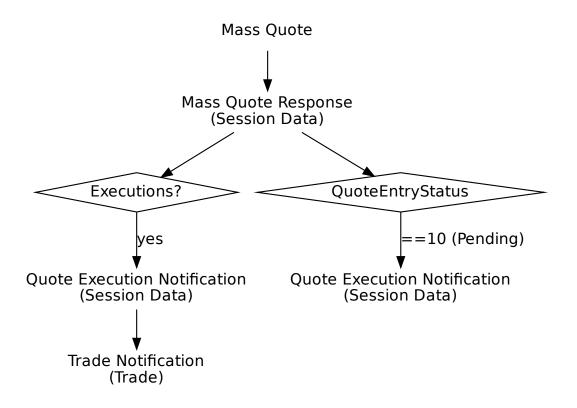
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# 7 Quote Handling

#### 7.1 Mass Quote

Quotes are entered using the Mass Quote message. For more details, please refer to the ETI Manual, chapter Maintaining Quotes. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |                                      |  |  |  |
| 9   | BodyLen                             | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10405 (Mass-     |  |  |  |
|   |                                     |       |     |     |              | ${\sf Quote,\ MsgType} = {\sf i)}$   |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                             |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                             |  |  |  |
| <reque< td=""><td colspan="8"><requestheader></requestheader></td></reque<> | <requestheader></requestheader>     |       |     |     |              |                                      |  |  |  |
| 34  | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the |  |  |  |
|   |                                     |       |     |     |              | gateway.                             |  |  |  |

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| Tag     | Field Name                          | Req'd | Len | Ofs | Data Type    | Description  |
|---------|-------------------------------------|-------|-----|-----|--------------|--|
| 50      | SenderSubID                         | Υ     | 4   | 20  | unsigned int | User ID.   |
| < Messa | geBody>                             |       |     |     |              |  |
| 117     | QuoteID                             | Y     | 8   | 24  | unsigned int | Customer defined mass quote identifier.  |
| 20122   | PartyIdInvestment-<br>DecisionMaker | N     | 8   | 32  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.             |
| 25123   | ExecutingTrader                     | N     | 8   | 40  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order. |
| 1300    | MarketSegmentID                     | Υ     | 4   | 48  | signed int   | Product identifier.  |
| 28744   | MatchInstCrossID                    | N     | 4   | 52  | unsigned int | Self Match Prevention ID.  |
| 25033   | EnrichmentRuleID                    | N     | 2   | 56  | unsigned int | Identifies an enrichment rule  |
| 28710   | PriceValidityCheck-<br>Type         | Y     | 1   | 58  | unsigned int | Indicator how price validity check should be performed by the exchange (see the ETI Manual, chapter Price Reasonability Check).  Value Description  0 None  1 Optional  2 Mandatory  |
| 25126   | ValueCheckTypeValue                 | Y     | 1   | 59  | unsigned int | Indicator for checking the maximum order/quote value by the exchange.  Value Description  0 Do not check  1 Check  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 28723 | QuoteSizeType                                     | Υ     | 1   | 60  | unsigned int | Identifies the quoting model.  |
|       |   |       |     |     |              | Value Description  1 Total Size (Quote Modification) 2 Open Size(Quote Entry)  |
| 537   | QuoteType   | Υ     | 1   | 61  | unsigned int | Quote Type   |
|       |   |       |     |     |              | Value Description  |
|       |   |       |     |     |              | Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  |
|       |   |       |     |     |              | 1 Tradeable  |
|       |   |       |     |     |              | 100 Tradeable(BOC)   |
| 23002 | OrderAttribute-<br>LiquidityProvision             | Y     | 1   | 62  | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  |
|       |   |       |     |     |              | Value Description  |
|       |   |       |     |     |              | 1 Liquidity provision  |
|       |   |       |     |     |              | 0 No liquidity provision   |
| 295   | NoQuoteEntries                                    | Y     | 1   | 63  | Counter      | The number of quote entries for a Mass Quote.  |
| 21222 | PartyIdInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 64  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |

| Tag  | Field Name                    | Req'd     | Len     | Ofs     | Data Type        | Description   |
|--|-------------------------------|-----------|---------|---------|------------------|---|
| 25124  | ExecutingTrader-<br>Qualifier | Y         | 1       | 65      | unsigned int     | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 39060  | Pad6                          | U         | 6       | 66      | Fixed String     | not used  |
| <quo< td=""><td>teEntryGrp&gt; Cardinality</td><td>: 0 - 100</td><td>), Reco</td><td>ord cou</td><td>ınter: NoQuoteEr</td><td>ntries</td></quo<> | teEntryGrp> Cardinality       | : 0 - 100 | ), Reco | ord cou | ınter: NoQuoteEr | ntries  |
| 48   | >SecurityID                   | Y         | 8       | 72      | signed int       | Instrument identifier.  |
| 132  | >BidPx                        | N         | 8       | 80      | PriceType        | Bid price/rate.   |
| 134  | >BidSize                      | N         | 8       | 88      | Qty              | Quantity of bid.  |
| 133  | >OfferPx                      | N         | 8       | 96      | PriceType        | Offer price/rate.   |
| 135  | >OfferSize                    | N         | 8       | 104     | Qty              | Quantity of offer.  |

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### 7.2 Mass Quote Response

This message is the acknowledgement for a Mass Quote request. For more details, please refer to the ETI Manual, chapter Maintaining Quotes. For a list of scenarios for the valid values of QuoteEntryStatus, please refer to the ETI Manual, chapter Quote Entry Status.

| Tag  | Field Name   | Req'd                                 | Len | Ofs  | Data Type    | Description                           |  |  |  |
|--|--|---------------------------------------|-----|------|--------------|---------------------------------------|--|--|--|
| <messa< th=""><th colspan="9"><messageheaderout></messageheaderout></th></messa<>  | <messageheaderout></messageheaderout>                                      |                                       |     |      |              |                                       |  |  |  |
| 9  | BodyLen  | Υ                                     | 4   | 0    | unsigned int | Number of bytes for the message, in-  |  |  |  |
|  |  |                                       |     |      |              | cluding this field.                   |  |  |  |
| 28500  | TemplateID   | Υ                                     | 2   | 4    | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |  |
|  |  |                                       |     |      |              | sage layout. Value: 10406 (Mass-      |  |  |  |
|  |  |                                       |     |      |              | QuoteAcknowledgement, MsgType =       |  |  |  |
|  |  |                                       |     |      |              | b)                                    |  |  |  |
| 39020  |  | U                                     | 2   | 6    | Fixed String | not used                              |  |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<>                          | sponseHeaderME>  |                                       |     |      |              |                                       |  |  |  |
| 5979   | RequestTime  | Y                                     | 8   | 8    | UTCTimestamp | In timestamp; filled always by the    |  |  |  |
|  |  |                                       |     |      |              | gateway                               |  |  |  |
| 21002  | TrdRegTSTimeIn   | Υ                                     | 8   | 16   | UTCTimestamp | Matching engine in timestamp.         |  |  |  |
| 21003  | TrdRegTSTimeOut  | Υ                                     | 8   | 24   | UTCTimestamp | Matching engine out timestamp.        |  |  |  |
| 7765   | ResponseIn   | Y                                     | 8   | 32   | UTCTimestamp | Timestamp the gateway receives a      |  |  |  |
|  |  |                                       |     |      |              | message from the Matching Engine      |  |  |  |
| 52   | SendingTime  | Y                                     | 8   | 40   | UTCTimestamp | Outgoing delta timestamp; filled al-  |  |  |  |
|  |  |                                       |     |      |              | ways by the gateway                   |  |  |  |
| 34   | MsgSeqNum  | Y                                     | 4   | 48   | unsigned int | Message sequence number used by the   |  |  |  |
|  |  |                                       |     |      |              | participant for requests sent to the  |  |  |  |
|  |  |                                       |     |      |              | gateway.                              |  |  |  |
| 893  | LastFragment   | Y                                     | 1   | 52   | unsigned int | Indicates whether this message is the |  |  |  |
|  |  |                                       |     |      |              | last fragment (part) of a sequence of |  |  |  |
|  |  |                                       |     |      |              | messages belonging to one dedicated   |  |  |  |
|  |  |                                       |     |      |              | transaction.                          |  |  |  |
|  |  |                                       |     |      |              | Value Description                     |  |  |  |
|  |  |                                       |     |      |              | 1 Last Message                        |  |  |  |
| 20000  | D 10   |                                       |     |      | F: 1.C. :    |                                       |  |  |  |
| 39030  |  | U                                     | 3   | 53   | Fixed String | not used                              |  |  |  |
|  | geBody>  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     | F.C. |              |                                       |  |  |  |
| 117  | QuoteID  | Y                                     | 8   | 56   | unsigned int | Customer defined mass quote identi-   |  |  |  |
| 602  | 0 . 0 . 10   | \ \/                                  |     | C 4  | UTCT:        | fier.                                 |  |  |  |
| 693  | QuoteResponseID  | Y                                     | 8   | 64   | UTCTimestamp | Mass quote response identifier gener- |  |  |  |
| 1200   | M 1 .C .ID   | V                                     |     | 70   |              | ated by the exchange.                 |  |  |  |
| 1300   |  | Y                                     | 4   | 72   | signed int   | Product identifier.                   |  |  |  |
| 28789  | -  | Y                                     | 1   | 76   | Counter      | Number of quote sides                 |  |  |  |
| 39030  |  | U                                     | 3   | 77   | Fixed String | not used                              |  |  |  |
| <quo< td=""><td colspan="8">&lt; QuoteEntryAckGrp&gt; Cardinality: 0-200, Record counter: NoQuoteSideEntries</td></quo<> | < QuoteEntryAckGrp> Cardinality: 0-200, Record counter: NoQuoteSideEntries |                                       |     |      |              |                                       |  |  |  |

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| Tag   | Field Name                   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|------------------------------|-------|-----|-----|--------------|--|
| 48    | >SecurityID                  | Y     | 8   | 80  | signed int   | Instrument identifier.   |
| 28788 | >CxlSize                     | N     | 8   | 88  | Qty          | Cancelled quantity   |
| 368   | >QuoteEntryReject-<br>Reason | N     | 4   | 96  | unsigned int | Reason code indicating why the quote entry has been rejected.  Valid values are listed after this table.                                 |
| 1167  | >QuoteEntryStatus            | Y     | 1   | 100 | unsigned int | Identifies the status of an individual quote.  Value Description  0 Accepted with warning  5 Rejected  6 Removed from Market  10 Pending |
| 54    | >Side                        | Y     | 1   | 101 | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell   |
| 39020 | >Pad2                        | U     | 2   | 102 | Fixed String | not used   |

#### $Valid\ Values\ of\ QuoteEntryRejectReason\ (datatype\ QuoteEntryRejectReason)$

| Valid<br>Value | Description                                   |
|----------------|---|
| 1              | Unknown security                              |
| 6              | ·   |
|                | Duplicate quote                               |
| 8              | Invalid price                                 |
| 16             | Reference price not available                 |
| 100            | Single sided quotes not allowed               |
| 103            | Invalid usage of quoting model                |
| 106            | Invalid size                                  |
| 107            | Invalid underlying price                      |
| 108            | Bid price not reasonable                      |
| 109            | Ask price not reasonable                      |
| 110            | Bid price exceeds extended price range        |
| 111            | Ask price exceeds extended price range        |
| 115            | Instrument state freeze                       |
| 116            | Deletion already pending                      |
| 119            | Entitlement not assigned for underlying       |
| 124            | Instrument is currently not tradeable on book |
| 125            | Quantity exceeds trader specific limit        |

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| 126 | Value exceeds trader specific limit  |
|-----|--|
| 127 | Invalid quote spread   |
| 128 | Book-or-Cancel quote type  |
| 131 | Instrument state does not allow processing                                       |
| 134 | Invalid quote type   |
| 143 | Trading indication running for trader  |
| 144 | On-Book trading disabled for instrument type                                     |
| 147 | Liquidity provider protection bid side cancelled                                 |
| 148 | Liquidity provider protection ask side cancelled                                 |
| 155 | Quote entry outside quoting period not allowed                                   |
| 156 | Match price resulting from entry of the matching quote is not a valid price step |
| 161 | Quantity exceeds transaction size limit  |
| 163 | Too many orders and quotes in order book   |
| 166 | Contract cannot be traded due to insufficient eligibility                        |
| 167 | the VF underlying price timed out, rejection of quote                            |
| 168 | the BU is suspended due to an ARP level 3 soft breach                            |
| 169 | incoming quote pair rejected due to no clearing product assignment               |
| *   | More values  |
|     |  |

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## 7.3 Quote Execution Notification

This message informs about quote match events. For more details, please refer to the ETI Manual, chapter Maintaining Quotes.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|
| <messa< td=""><td colspan="8"><messageheaderout></messageheaderout></td></messa<>       | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10407 (Quote-      |  |  |
|   |                                       |       |     |     |              | ExecutionReport, $MsgType = U8$ )      |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>                             |       |     |     |              |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.         |  |  |
| 25043   | NotificationIn                        | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-   |  |  |
|   |                                       |       |     |     |              | tification message from the Matching   |  |  |
|   |                                       |       |     |     |              | Engine                                 |  |  |
| 52  | SendingTime                           | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |
|   |                                       |       |     |     |              | the gateway                            |  |  |
| 28727   | ApplSubID                             | U     | 4   | 32  | unsigned int | not used                               |  |  |
| 5948  | PartitionID                           | Y     | 2   | 36  | unsigned int | Grouping of T7 products.               |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail- |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.       |  |  |
| 28704   | ApplMsgID                             | N     | 16  | 38  | data         | Application message identifier as-     |  |  |
|   |                                       |       |     |     |              | signed to an order or quote event.     |  |  |
| 1180  | ApplID                                | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.     |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 4 Session Data                         |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.    |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 0 False                                |  |  |
|   |                                       |       |     |     |              | 1 True                                 |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 56  | unsigned int | Indicates whether this message is the  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |
|   |                                       |       |     |     |              | 0 Not Last Message                     |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |
| 20075   | D 1=                                  |       |     |     | F: 15::      |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 57  | Fixed String | not used                               |  |  |

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| Tag   | Field Name              | Req'd    | Len     | Ofs    | Data Type        | Description                             |
|---|-------------------------|----------|---------|--------|------------------|---|
| <messa< th=""><th>geBody&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<>   | geBody>                 |          |         |        |                  |   |
| 17  | ExecID                  | Υ        | 8       | 64     | UTCTimestamp     | Transaction timestamp.                  |
| 1300  | MarketSegmentID         | Υ        | 4       | 72     | signed int       | Product identifier.                     |
| 30555   | NoLegExecs              | Y        | 2       | 76     | Counter          | Number of InstrmntLegExec repeat-       |
|   |                         |          |         |        |                  | ing group instances.                    |
| 28706   | NoQuoteEvents           | Υ        | 1       | 78     | Counter          | Number of QuoteEvent repeating          |
|   |                         |          |         |        |                  | group instances.                        |
| 39000   | Pad1                    | U        | 1       | 79     | Fixed String     | not used                                |
| <quo< td=""><td>teEventGrp&gt; Cardinality</td><td>v: 1-100</td><td>), Rece</td><td>ord co</td><td>unter: NoQuoteEv</td><td>vents</td></quo<> | teEventGrp> Cardinality | v: 1-100 | ), Rece | ord co | unter: NoQuoteEv | vents                                   |
| 48  | >SecurityID             | Y        | 8       | 80     | signed int       | Instrument identifier.                  |
| 28553   | >QuoteEventPx           | N        | 8       | 88     | PriceType        | Price of this fill.                     |
| 28542   | >QuoteEventQty          | N        | 8       | 96     | Qty              | Quantity executed in this fill.         |
| 1166  | >QuoteMsgID             | Υ        | 8       | 104    | unsigned int     | Customer defined mass quote identi-     |
|   |                         |          |         |        |                  | fier.                                   |
| 28714   | >QuoteEventMatch-       | N        | 4       | 112    | unsigned int     | Unique identifier for each price level  |
| 20711   | ID                      |          |         | 112    | unsigned int     | (match step) of a match event; it is    |
|   |                         |          |         |        |                  | used for public trade reporting.        |
| 28711   | >QuoteEventExecID       | N        | 4       | 116    | signed int       | Private identifier of a quote match     |
|   | 2 QuoteEventExectB      |          | -       |        |                  | step, which can be reconciled with the  |
|   |                         |          |         |        |                  | field SideTradeID (1506) in the Trade   |
|   |                         |          |         |        |                  | Notification.                           |
| 28539   | >QuoteEventType         | Υ        | 1       | 120    | unsigned int     | Conveys the quote event type.           |
|   |                         |          |         |        |                  | Value Description                       |
|   |                         |          |         |        |                  | 2 Modified side                         |
|   |                         |          |         |        |                  | 3 Removed Quote Side                    |
|   |                         |          |         |        |                  | 4 Partially Filled                      |
|   |                         |          |         |        |                  | 5 Filled                                |
|   |                         |          |         |        |                  | 6 Quantity removed                      |
|   |                         |          |         |        |                  | Quantity removed                        |
| 28581   | >QuoteEventSide         | Υ        | 1       | 121    | unsigned int     | Side of the quote.                      |
|   |                         |          |         |        |                  | Value Description                       |
|   |                         |          |         |        |                  | 1 Buy                                   |
|   |                         |          |         |        |                  | 2 Sell                                  |
|   |                         |          |         |        |                  | 2   3611                                |
| 206.41  | >QuoteEvent-            | NI NI    | 1       | 100    |                  | Indicates what and the most of the last |
| 28641   | LiquidityInd            | N        | 1       | 122    | unsigned int     | Indicates whether the quote added or    |
|   |                         |          |         |        |                  | removed liquidity.                      |
|   |                         |          |         |        |                  | Value Description                       |
|   |                         |          |         |        |                  | 1 Added Liquidity                       |
|   |                         |          |         |        |                  | 2 Removed Liquidity                     |
|   |                         |          |         |        |                  | 4 Auction                               |
|   |                         |          |         |        |                  |   |

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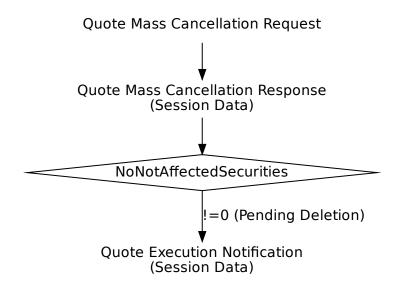
| Tag   | Field Name            | Req'd     | Len    | Ofs | Data Type    | Description  |
|-------|-----------------------|-----------|--------|-----|--------------|--|
| 28733 | >QuoteEventReason     | N         | 1      | 123 | unsigned int | Additional information why quote side              |
|       |                       |           |        |     |              | was removed.                                       |
|       |                       |           |        |     |              | Value Description                                  |
|       |                       |           |        |     |              | Pending Cancellation Executed                      |
|       |                       |           |        |     |              | 15 Invalid Price                                   |
|       |                       |           |        |     |              | Quote subject to crossing and match prevented      |
|       |                       |           |        |     |              | Quote deleted due to Book-<br>or-Cancel quote type |
|       |                       |           |        |     |              | Quote deleted due to passive liquidity protection  |
| 39040 | >Pad4                 | U         | 4      | 124 | Fixed String | not used   |
|       | teLegExecGrp> Cardina | lity: 0-6 | 500, R |     |              |  |
| 602   | >LegSecurityID        | Υ         | 8      | 0   | signed int   | Instrument identifier of the leg secu-             |
|       |                       |           |        |     |              | rity.  |
| 637   | >LegLastPx            | Y         | 8      | 8   | PriceType    | Price of this leg fill.                            |
| 1418  | >LegLastQty           | Y         | 8      | 16  | Qty          | Quantity executed in this leg fill.                |
| 1893  | >LegExecID            | Y         | 4      | 24  | signed int   | Private identifier of a leg match step,            |
|       |                       |           |        |     |              | which can be reconciled with the field             |
|       |                       |           |        |     |              | SideTradelD (1506) in the Trade Notification.      |
| 624   | >LegSide              | Y         | 1      | 28  | unsigned int | The side of the individual leg of a                |
| 021   | Legolde               | '         | -      | 20  | ansigned int | strategy as defined in its signature.              |
|       |                       |           |        |     |              | Value Description                                  |
|       |                       |           |        |     |              | 1 Buy  |
|       |                       |           |        |     |              | 2 Sell   |
|       |                       |           |        |     |              | 2   3611   |
| 25011 | >NoQuoteEvents-       | Y         | 1      | 29  | unsigned int | Reference to the corresponding                     |
| 25011 | Index                 | '         | 1      |     | ansigned int | QuoteEvent repeating group in-                     |
|       |                       |           |        |     |              | stance.  |
| 39020 | >Pad2                 | U         | 2      | 30  | Fixed String | not used   |

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#### 7.4 Quote Mass Cancellation Request

This message is used for the mass cancellation of quotes. For more details, please refer to the ETI Manual, chapter Maintaining Quotes. This message is sent to the service "Order and Quote Management".



| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                     |
|--|--------------|-------|-----|-----|--------------|---|
| < Messa  | geHeaderIn>  |       |     |     |              |   |
| 9  | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-            |
|  |              |       |     |     |              | cluding this field.                             |
| 28500  | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-             |
|  |              |       |     |     |              | sage layout. Value: 10408 (Order-               |
|  |              |       |     |     |              | ${\sf MassActionRequest,\ MsgType} = {\sf CA)}$ |
| 25028  | NetworkMsgID | U     | 8   | 6   | Fixed String | not used  |
| 39020  | Pad2         | U     | 2   | 14  | Fixed String | not used  |
| < Reque  | stHeader>    |       |     |     |              |   |
| 34   | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the             |
|  |              |       |     |     |              | participant for requests sent to the            |
|  |              |       |     |     |              | gateway.  |
| 50   | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.  |
| <messa,< td=""><td>geBody&gt;</td><td>,</td><td></td><td></td><td></td><td></td></messa,<> | geBody>      | ,     |     |     |              |   |

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| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------------|-------|-----|-----|--------------|--|
| 20122 | PartyldInvestment-<br>DecisionMaker | N     | 8   | 24  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.                           |
| 25123 | ExecutingTrader                     | N     | 8   | 32  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.               |
| 1300  | MarketSegmentID                     | Y     | 4   | 40  | signed int   | Product identifier.  |
| 20655 | TargetPartyIDSession-ID             | N     | 4   | 44  | unsigned int | Session ID.  |
| 21222 | Qualifier                           | N     | 1   | 48  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 25124 | Executing Trader-<br>Qualifier      | Y     | 1   | 49  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 39060 | Pad6                                | U     | 6   | 50  | Fixed String | not used   |

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## 7.5 Quote Mass Cancellation Response

This message confirms a Quote Mass Cancellation request.

| Tag   | Field Name                            | Req'd    | Len     | Ofs  | Data Type         | Description                            |  |  |  |
|---|---------------------------------------|----------|---------|------|-------------------|--|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |          |         |      |                   |  |  |  |  |
| 9   | BodyLen                               | Υ        | 4       | 0    | unsigned int      | Number of bytes for the message, in-   |  |  |  |
|   |                                       |          |         |      |                   | cluding this field.                    |  |  |  |
| 28500   | TemplateID                            | Υ        | 2       | 4    | unsigned int      | Unique identifier for a T7 ETI mes-    |  |  |  |
|   |                                       |          |         |      |                   | sage layout. Value: 10409 (Order-      |  |  |  |
|   |                                       |          |         |      |                   | ${\sf MassActionReport,\ MsgType=BZ)}$ |  |  |  |
| 39020   | Pad2                                  | U        | 2       | 6    | Fixed String      | not used                               |  |  |  |
| <nrre.< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre.<>   | sponseHeaderME>                       |          |         |      |                   |  |  |  |  |
| 5979  | RequestTime                           | Y        | 8       | 8    | UTCTimestamp      | In timestamp; filled always by the     |  |  |  |
|   |                                       |          |         |      |                   | gateway                                |  |  |  |
| 21002   | TrdRegTSTimeIn                        | N        | 8       | 16   | UTCTimestamp      | Matching engine in timestamp.          |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N        | 8       | 24   | UTCTimestamp      | Matching engine out timestamp.         |  |  |  |
| 7765  | ResponseIn                            | Y        | 8       | 32   | UTCTimestamp      | Timestamp the gateway receives a       |  |  |  |
|   |                                       |          |         |      |                   | message from the Matching Engine       |  |  |  |
| 52  | SendingTime                           | Y        | 8       | 40   | UTCTimestamp      | Outgoing delta timestamp; filled al-   |  |  |  |
|   |                                       |          |         |      |                   | ways by the gateway                    |  |  |  |
| 34  | MsgSeqNum                             | Y        | 4       | 48   | unsigned int      | Message sequence number used by the    |  |  |  |
|   |                                       |          |         |      |                   | participant for requests sent to the   |  |  |  |
|   |                                       |          |         |      |                   | gateway.                               |  |  |  |
| 893   | LastFragment                          | Y        | 1       | 52   | unsigned int      | Indicates whether this message is the  |  |  |  |
|   |                                       |          |         |      |                   | last fragment (part) of a sequence of  |  |  |  |
|   |                                       |          |         |      |                   | messages belonging to one dedicated    |  |  |  |
|   |                                       |          |         |      |                   | transaction.                           |  |  |  |
|   |                                       |          |         |      |                   | Value Description                      |  |  |  |
|   |                                       |          |         |      |                   | 0 Not Last Message                     |  |  |  |
|   |                                       |          |         |      |                   | 1 Last Message                         |  |  |  |
|   |                                       |          |         |      |                   |  |  |  |  |
| 39030   |                                       | U        | 3       | 53   | Fixed String      | not used                               |  |  |  |
|   | geBody>                               |          |         |      | LITCT             | -                                      |  |  |  |
| 1369  | · •                                   | Y        | 8       | 56   | UTCTimestamp      | Transaction timestamp.                 |  |  |  |
| 28707   | NoNotAffected-                        | Y        | 2       | 64   | Counter           | Number of NotAffectedSecurities re-    |  |  |  |
|   | Securities                            |          |         |      |                   | peating group instances.               |  |  |  |
| 39060   | Pad6                                  | U        | 6       | 66   | Fixed String      | not used                               |  |  |  |
| <nota< td=""><td>AffectedSecuritiesGrp&gt;</td><td>Cardinal</td><td>ity: 0-</td><td>500,</td><td>Record counter: N</td><td>loNotAffectedSecurities</td></nota<> | AffectedSecuritiesGrp>                | Cardinal | ity: 0- | 500, | Record counter: N | loNotAffectedSecurities                |  |  |  |
| 20702   | >NotAffected-                         | Υ        | 0       | 70   |                   | Instrument ID where such assets        |  |  |  |
| 28702   | SecurityID                            | Y        | 8       | 72   | unsigned int      | Instrument ID whose quote mass can-    |  |  |  |
|   |                                       |          |         |      |                   | cellation is pending.                  |  |  |  |

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#### 7.6 Quote Mass Cancellation Notification

This message informs about an unsolicited Quote Mass Cancellation event. For more details, please refer to the ETI Manual, chapter Mass Cancellation Notification and Mass Cancellation Events.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                    |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| <messa< td=""><td colspan="9"><messageheaderout></messageheaderout></td></messa<>       | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                            |  |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10410 (Order-              |  |  |  |
|   |                                       |       |     |     |              | ${\sf MassActionReport,\ MsgType} = {\sf BZ)}$ |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                       |  |  |  |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>                             |       |     |     |              |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.                 |  |  |  |
| 25043   | NotificationIn                        | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-           |  |  |  |
|   |                                       |       |     |     |              | tification message from the Matching           |  |  |  |
|   |                                       |       |     |     |              | Engine   |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by           |  |  |  |
|   |                                       |       |     |     |              | the gateway                                    |  |  |  |
| 28727   | ApplSubID                             | U     | 4   | 32  | unsigned int | not used                                       |  |  |  |
| 5948  | PartitionID                           | Υ     | 2   | 36  | unsigned int | Grouping of T7 products.                       |  |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail-         |  |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.               |  |  |  |
| 28704   | ApplMsgID                             | N     | 16  | 38  | data         | Application message identifier as-             |  |  |  |
|   |                                       |       |     |     |              | signed to an order or quote event.             |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.             |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 4 Session Data                                 |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.            |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 0 False  |  |  |  |
|   |                                       |       |     |     |              | 1 True   |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 893   | LastFragment                          | Υ     | 1   | 56  | unsigned int | Indicates whether this message is the          |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of          |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated            |  |  |  |
|   |                                       |       |     |     |              | transaction.                                   |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 0 Not Last Message                             |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                                 |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |

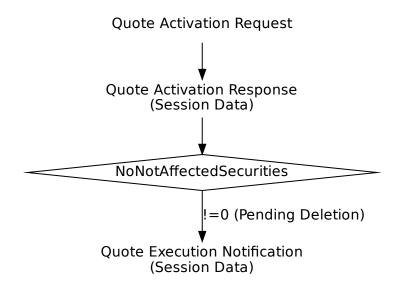
| 39070 Pad7  | Tag     | Field Name             | Req'd     | Len     | Ofs | Data Type    | Description                   |
|---|---------|------------------------|-----------|---------|-----|--------------|-------------------------------|
| 1369   MassActionReportID   Y   8   64   UTCTimestamp   Transaction timestamp.  | 39070   | Pad7                   | U         | 7       | 57  | Fixed String | not used                      |
| 48 SecurityID U 8 72 signed int not used  1300 MarketSegmentID Y 4 80 signed int Product identifier.  20655 TargetPartyIDSession-ID  20036 PartyIDEntering-Trader N 4 88 unsigned int Product identifier.  2012 TargetParty-IDExecutingTrader N 4 92 unsigned int Dexecuting Trader NoNotAffected-Securities Party-IDExecuting Trader Y 2 96 Counter Securities Party-IDExecuting Trader NoNotAffected-Securities Party-IDExecuting Trader Y 1 98 unsigned int Product identifier.  28721 MassActionReason Y 1 98 unsigned int Product identifier.  28721 MassActionReason Y 1 98 unsigned int Product identifier.  28721 MassActionReason Y 1 98 unsigned int Product identifier.  28722 Securities Party-IDExecuting Trader Production Internation I  | < Messa | geBody>                |           |         |     |              |                               |
| 1300 MarketSegmentID  | 1369    | MassActionReportID     | Y         | 8       | 64  | UTCTimestamp | Transaction timestamp.        |
| TargetPartyIDSession   Y   4   84   unsigned int   Session ID.  | 48      | SecurityID             | U         | 8       | 72  | signed int   | not used                      |
| D   | 1300    | MarketSegmentID        | Y         | 4       | 80  | signed int   | Product identifier.           |
| Trader  N 4 88 unsigned int Entering User ID.  TargetParty-IDExecutingTrader  N 4 92 unsigned int Owning User ID.  NoNotAffected-Securities  NoNotAffected-Securities  Number of NotAffectedSecurities repeating group instances.  Reason for mass cancellation.  Value Description  No No special reason  Trading was stopped  Emergency  Market Maker Protection  Session loss or logout  Duplicate Session Login  Clearing Risk Control  Internal connection loss  The Member has been disabled  Participant  Member has been disabled  No No special reason  Trading was stopped  Emergency  Member has been disabled  The  | 20655   |                        | Y         | 4       | 84  | unsigned int | Session ID.                   |
| DExecuting Trader   N   4   92   unsigned int   Owning User ID.   | 20036   | '                      | N         | 4       | 88  | unsigned int | Entering User ID.             |
| Securities  Securities  Securities  Pacing Reason For MotAffectedSecurities repeating group instances.  Reason for mass cancellation.  Value Description  No special reason  Trading was stopped  Emergency  Market Maker Protection  Session loss or logout  Duplicate Session Login  Clearing Risk Control  Internal connection loss  PartyIDEnteringFirm  No partyIDEnterin  | 20612   |                        | N         | 4       | 92  | unsigned int | Owning User ID.               |
| Value   Description   0   No special reason   1   Trading was stopped   2   Emergency   3   Market Maker Protection   6   Session loss or logout   7   Duplicate Session Login   8   Clearing Risk Control   100   Internal connection loss   117   Member has been disabled  | 28707   |                        | Y         | 2       | 96  | Counter      |                               |
| 0 No special reason   1 Trading was stopped   2 Emergency   3 Market Maker Protection   6 Session loss or logout   7 Duplicate Session Login   8 Clearing Risk Control   100 Internal connection loss   117 Member has been disabled   117 Member has been disabled   118 Participant   1 Participant   2 Market Supervision   2007   2 Market Supervision   2 Market Superv  | 28721   | MassActionReason       | Υ         | 1       | 98  | unsigned int | Reason for mass cancellation. |
| 1 Trading was stopped   2 Emergency   3 Market Maker Protection   6 Session loss or logout   7 Duplicate Session Login   8 Clearing Risk Control   100 Internal connection loss   117 Member has been disabled   117 Member has been disabled   118 Description   1 Participant   2 Market Supervision   2 Marke  |         |                        |           |         |     |              | Value Description             |
| 2 Emergency 3 Market Maker Protection 6 Session loss or logout 7 Duplicate Session Login 8 Clearing Risk Control 100 Internal connection loss 117 Member has been disabled  20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used <a href="https://www.now.no.nd/">NotAffectedSecuritiesGrp&gt; Cardinality: 0-500, Record counter: NoNotAffectedSecurities"&gt;NotAffectedSecurities</a> NotAffected- SecurityID  Y 8 104 unsigned int Instrument ID whose quote mass can-   |         |                        |           |         |     |              | 0 No special reason           |
| 3 Market Maker Protection 6 Session loss or logout 7 Duplicate Session Login 8 Clearing Risk Control 100 Internal connection loss 117 Member has been disabled  20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used <a href="https://www.notaffectedSecurities">NotAffectedSecurities</a> NotAffected- SecurityID  Y 8 104 unsigned int Instrument ID whose quote mass can-   |         |                        |           |         |     |              | 1 Trading was stopped         |
| 6 Session loss or logout 7 Duplicate Session Login 8 Clearing Risk Control 100 Internal connection loss 117 Member has been disabled  20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used <a href="https://www.nobs.ncb.nlm.nih.gov/">NotAffectedSecuritiesGrp&gt; Cardinality: 0-500, Record counter: NoNotAffectedSecurities 28702 &gt;NotAffected-SecurityID</a> Y 8 104 unsigned int Instrument ID whose quote mass can-  |         |                        |           |         |     |              | 2 Emergency                   |
| 7 Duplicate Session Login 8 Clearing Risk Control 100 Internal connection loss 117 Member has been disabled  20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used <a #"="" href="https://www.new.new.new.new.new.new.new.new.new.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;3 Market Maker Protection&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  8   Clearing Risk Control   100   Internal connection loss   117   Member has been disabled      &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;6 Session loss or logout&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;  100   Internal connection loss   117   Member has been disabled    &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;7 Duplicate Session Login&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used  &lt;NotAffectedSecuritiesGrp&gt; Cardinality: 0-500, Record counter: NoNotAffectedSecurities  &gt;NotAffected- SecurityID  N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  1 Participant 2 Market Supervision  Instrument ID whose quote mass can-&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;8 Clearing Risk Control&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;20007 PartyIDEnteringFirm N 1 99 unsigned int Entering Entity ID.  Value Description 1 Participant 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20 39000 Pad1 U 1 103 Fixed String not used  &lt;a href="></a> |         |                        |           |         |     |              | 100 Internal connection loss  |
| Value Description  1 Participant  2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used <a href="#">Value Description</a> Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 not used <a href="#">Value Description</a> Instrument ID whose quote mass canses canses and the properties of the  |         |                        |           |         |     |              | 117 Member has been disabled  |
| 20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used <a href="https://www.ncbar.not.org/">NotAffectedSecuritiesGrp&gt; Cardinality: 0-500, Record counter: NoNotAffectedSecurities"&gt;NotAffectedSecurities</a> >NotAffected- SecurityID  Y 8 104 unsigned int Instrument ID whose quote mass can-  | 20007   | PartyIDEnteringFirm    | N         | 1       | 99  | unsigned int | Entering Entity ID.           |
| 2 Market Supervision  20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used <a href="https://www.new.new.new.new.new.new.new.new.new.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Value Description&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;20676 TargetPartyIDDeskID N 3 100 Fixed String Trader Group. Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used  &lt;a href=" https:="" linear-regions-line-ni-net-net-net-net-net-net-net-net-net-net<="" td="" www.ncbar.not.org=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1 Participant</td></a>   |         |                        |           |         |     |              | 1 Participant                 |
| Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used <a href="#"></a>   |         |                        |           |         |     |              | 2 Market Supervision          |
| Valid characters: A-Z, 0-9, \x20  39000 Pad1 U 1 103 Fixed String not used <a href="#"></a>   | 20676   | Target Party/IDDeck/ID | N         | 3       | 100 | Fixed String | Trader Group                  |
| 39000 Pad1 U 1 103 Fixed String not used <a href="https://www.ncbe.new.notarity/"> <a href="https://www.ncbe.new.notarity/"></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>  | 20010   | Talgett altylddeskid   |           | ,       | 100 | Tixed String | -                             |
|   | 39000   | Pad1                   | U         | 1       | 103 | Fixed String |                               |
| 28702 Security ID Y 8 104 unsigned int Instrument ID whose quote mass can-  |         |                        | Cardinal. | ity: 0- |     | _            |                               |
|   |         | >NotAffected-          |           |         |     |              |                               |

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#### 7.7 Quote Activation Request

This message is used for inactivation and activation of quotes of a session within the product scope. For more details, please refer to the ETI Manual, chapter Quote Activation/Inactivation. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description  |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen                             | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                 |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.  |  |  |  |  |
| 28500   | TemplateID                          | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                                  |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10403 (Order-                                    |  |  |  |  |
|   |                                     |       |     |     |              | $\begin{tabular}{ll} MassActionRequest, MsgType = CA) \end{tabular}$ |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used   |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used   |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |  |  |  |  |  |
| 34  | MsgSeqNum                           | Υ     | 4   | 16  | unsigned int | Message sequence number used by the                                  |  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the                                 |  |  |  |  |
|   |                                     |       |     |     |              | gateway.   |  |  |  |  |
| 50  | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.   |  |  |  |  |
| < Messa   | geBody>                             |       |     |     |              |  |  |  |  |  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 20122 | PartyldInvestment-<br>DecisionMaker               | N     | 8   | 24  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.                           |
| 25123 | ExecutingTrader                                   | N     | 8   | 32  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.               |
| 1300  | MarketSegmentID                                   | Y     | 4   | 40  | signed int   | Product identifier.  |
| 20655 | TargetPartyIDSession-ID                           | Υ     | 4   | 44  | unsigned int | Session ID.  |
| 1373  | MassActionType                                    | Y     | 1   | 48  | unsigned int | Specifies the type of action requested.  Value Description  1 Suspend quotes  Release quotes from suspension   |
| 28768 | MassActionSubType                                 | N     | 1   | 49  | unsigned int | Restriction for MassAction- Type(1373) = Release_quotes(2)  Value Description  1 Book or cancel  |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 50  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |

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| Tag   | Field Name                     | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|----------|-----|-----|--------------|---|
| 25124 | Executing Trader-<br>Qualifier | <b>Y</b> | 1   | 51  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 39040 | Pad4                           | U        | 4   | 52  | Fixed String | not used  |

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# 7.8 Quote Activation Response

The Quote Activation Response message confirms a Quote Activation Request.

| Tag   | Field Name             | Req'd    | Len     | Ofs  | Data Type         | Description                            |
|---|------------------------|----------|---------|------|-------------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td>,</td><td></td></messa<>   | geHeaderOut>           |          |         |      | ,                 |  |
| 9   | BodyLen                | Υ        | 4       | 0    | unsigned int      | Number of bytes for the message, in-   |
|   |                        |          |         |      |                   | cluding this field.                    |
| 28500   | TemplateID             | Υ        | 2       | 4    | unsigned int      | Unique identifier for a T7 ETI mes-    |
|   |                        |          |         |      |                   | sage layout. Value: 10404 (Order-      |
|   |                        |          |         |      |                   | ${\sf MassActionReport,\ MsgType=BZ)}$ |
| 39020   | Pad2                   | U        | 2       | 6    | Fixed String      | not used                               |
| <nrre.< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre.<>   | sponseHeaderME>        |          |         |      |                   |  |
| 5979  | RequestTime            | Y        | 8       | 8    | UTCTimestamp      | In timestamp; filled always by the     |
|   |                        |          |         |      |                   | gateway                                |
| 21002   | TrdRegTSTimeIn         | N        | 8       | 16   | UTCTimestamp      | Matching engine in timestamp.          |
| 21003   | TrdRegTSTimeOut        | N        | 8       | 24   | UTCTimestamp      | Matching engine out timestamp.         |
| 7765  | ResponseIn             | Y        | 8       | 32   | UTCTimestamp      | Timestamp the gateway receives a       |
|   |                        |          |         |      |                   | message from the Matching Engine       |
| 52  | SendingTime            | Y        | 8       | 40   | UTCTimestamp      | Outgoing delta timestamp; filled al-   |
|   |                        |          |         |      |                   | ways by the gateway                    |
| 34  | MsgSeqNum              | Y        | 4       | 48   | unsigned int      | Message sequence number used by the    |
|   |                        |          |         |      |                   | participant for requests sent to the   |
|   |                        |          |         |      |                   | gateway.                               |
| 893   | LastFragment           | Y        | 1       | 52   | unsigned int      | Indicates whether this message is the  |
|   |                        |          |         |      |                   | last fragment (part) of a sequence of  |
|   |                        |          |         |      |                   | messages belonging to one dedicated    |
|   |                        |          |         |      |                   | transaction.                           |
|   |                        |          |         |      |                   | Value Description                      |
|   |                        |          |         |      |                   | 0 Not Last Message                     |
|   |                        |          |         |      |                   | 1 Last Message                         |
|   |                        |          |         |      |                   |  |
| 39030   |                        | U        | 3       | 53   | Fixed String      | not used                               |
|   | geBody>                |          |         |      | LITCT             | -                                      |
| 1369  | '                      | Y        | 8       | 56   | UTCTimestamp      | Transaction timestamp.                 |
| 28707   | NoNotAffected-         | Y        | 2       | 64   | Counter           | Number of NotAffectedSecurities re-    |
|   | Securities             |          |         |      |                   | peating group instances.               |
| 39060   | Pad6                   | U        | 6       | 66   | Fixed String      | not used                               |
| <nota< td=""><td>AffectedSecuritiesGrp&gt;</td><td>Cardinal</td><td>ity: 0-</td><td>500,</td><td>Record counter: N</td><td>loNotAffectedSecurities</td></nota<> | AffectedSecuritiesGrp> | Cardinal | ity: 0- | 500, | Record counter: N | loNotAffectedSecurities                |
| 20702   | >NotAffected-          | V        | 0       | 70   |                   | Instrument ID when                     |
| 28702   | SecurityID             | Y        | 8       | 72   | unsigned int      | Instrument ID whose quote mass can-    |
|   |                        |          |         |      |                   | cellation or activation is pending.    |

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## 7.9 Quote Activation Notification

This message informs about an unsolicited inactivation and activation of quotes.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                    |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                            |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10411 (Order-              |  |  |  |
|   |                                       |       |     |     |              | ${\sf MassActionReport,\ MsgType} = {\sf BZ)}$ |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                       |  |  |  |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>                             |       |     |     |              |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.                 |  |  |  |
| 25043   | NotificationIn                        | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-           |  |  |  |
|   |                                       |       |     |     |              | tification message from the Matching           |  |  |  |
|   |                                       |       |     |     |              | Engine   |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by           |  |  |  |
|   |                                       |       |     |     |              | the gateway                                    |  |  |  |
| 28727   | ApplSubID                             | U     | 4   | 32  | unsigned int | not used                                       |  |  |  |
| 5948  | PartitionID                           | Y     | 2   | 36  | unsigned int | Grouping of T7 products.                       |  |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail-         |  |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.               |  |  |  |
| 28704   | ApplMsgID                             | Y     | 16  | 38  | data         | Application message identifier as-             |  |  |  |
|   |                                       |       |     |     |              | signed to an order or quote event.             |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.             |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 4 Session Data                                 |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.            |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 0 False  |  |  |  |
|   |                                       |       |     |     |              | 1 True   |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 56  | unsigned int | Indicates whether this message is the          |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of          |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated            |  |  |  |
|   |                                       |       |     |     |              | transaction.                                   |  |  |  |
|   |                                       |       |     |     |              | Value Description                              |  |  |  |
|   |                                       |       |     |     |              | 0 Not Last Message                             |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                                 |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 39070   |                                       | U     | 7   | 57  | Fixed String | not used                                       |  |  |  |
| < Messa   | geBody>                               |       |     |     |              |  |  |  |  |

| Tag   | Field Name                   | Req'd    | Len     | Ofs  | Data Type         | Description  |
|---|------------------------------|----------|---------|------|-------------------|--|
| 1369  | MassActionReportID           | Υ        | 8       | 64   | UTCTimestamp      | Transaction timestamp.   |
| 1300  | MarketSegmentID              | Υ        | 4       | 72   | signed int        | Product identifier.  |
| 20036   | PartyIDEntering-<br>Trader   | N        | 4       | 76   | unsigned int      | Entering User ID.  |
| 28707   | NoNotAffected-<br>Securities | Y        | 2       | 80   | Counter           | Number of NotAffectedSecurities repeating group instances.   |
| 20007   | PartyIDEnteringFirm          | N        | 1       | 82   | unsigned int      | Entering Entity ID.  Value Description  1 Participant  2 Market Supervision                                  |
| 1373  | MassActionType               | Y        | 1       | 83   | unsigned int      | Specifies the type of action requested.  Value Description  1 Suspend quotes  Release quotes from suspension |
|   | MassActionSubType            | N        | 1       | 84   | unsigned int      | Restriction for MassAction- Type(1373) = Release_quotes(2)  Value Description  1 Book or cancel              |
| 28721   | MassActionReason             | Y        | 1       | 85   | unsigned int      | Reason for mass cancellation.  Value Description  0 No special reason  3 Market Maker Protection             |
| 39020   | Pad2                         | U        | 2       | 86   | Fixed String      | not used   |
| <nota< td=""><td>AffectedSecuritiesGrp&gt; (</td><td>Cardinal</td><td>ity: 0-</td><td>500,</td><td>Record counter: N</td><td>IoNotAffectedSecurities</td></nota<> | AffectedSecuritiesGrp> (     | Cardinal | ity: 0- | 500, | Record counter: N | IoNotAffectedSecurities  |
| 28702   | >NotAffected-<br>SecurityID  | Y        | 8       | 88   | unsigned int      | Instrument ID whose quote mass cancellation or activation is pending.  |

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#### 7.10 Inquire Market Maker Parameters

This message is used to inquire for the Market Maker Parameters currently active for a session. For more details, please refer to the ETI Manual, chapter Market Maker Protection. This message is sent to the service "Order and Quote Management".

Inquire Market Maker Parameters



| Tag                         | Field Name              | Req'd | Len | Ofs | Data Type    | Description   |  |
|-----------------------------|-------------------------|-------|-----|-----|--------------|---|--|
| < Messa                     | geHeaderIn>             |       |     |     |              |   |  |
| 9                           | BodyLen                 | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                |  |
|                             |                         |       |     |     |              | cluding this field.   |  |
| 28500                       | TemplateID              | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI                                      |  |
|                             |                         |       |     |     |              | message layout. Value: 10305  |  |
|                             |                         |       |     |     |              | $\begin{tabular}{ll} $(MMParameterRequest, MsgType = \end{tabular}$ |  |
|                             |                         |       |     |     |              | U17)  |  |
| 25028                       | NetworkMsgID            | U     | 8   | 6   | Fixed String | not used  |  |
| 39020                       | Pad2                    | U     | 2   | 14  | Fixed String | not used  |  |
| < Reque                     | stHeader>               |       |     |     |              |   |  |
| 34                          | MsgSeqNum               | Y     | 4   | 16  | unsigned int | Message sequence number used by the                                 |  |
|                             |                         |       |     |     |              | participant for requests sent to the                                |  |
|                             |                         |       |     |     |              | gateway.  |  |
| 50                          | SenderSubID             | Y     | 4   | 20  | unsigned int | User ID.  |  |
| <messagebody></messagebody> |                         |       |     |     |              |   |  |
| 1300                        | MarketSegmentID         | Y     | 4   | 24  | signed int   | Product identifier.   |  |
| 20655                       | TargetPartyIDSession-ID | N     | 4   | 28  | unsigned int | Session ID.   |  |

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## 7.11 Inquire Market Maker Parameters Response

This message is the positive response to the Inquire Market Maker Parameters request.

| Tag  | Field Name            | Req'd       | Len    | Ofs    | Data Type       | Description   |  |  |  |
|--|-----------------------|-------------|--------|--------|-----------------|---|--|--|--|
| <messageheaderout></messageheaderout>  |                       |             |        |        |                 |   |  |  |  |
| 9  | BodyLen               | Y           | 4      | 0      | unsigned int    | Number of bytes for the message, including this field.  |  |  |  |
| 28500  | TemplateID            | Y           | 2      | 4      | unsigned int    | Unique identifier for a T7 ETI message layout. Value: 10306 (MMParameterResponse, MsgType = U18)  |  |  |  |
| 39020  | Pad2                  | U           | 2      | 6      | Fixed String    | not used  |  |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<>  | sponseHeaderME>       |             |        |        |                 |   |  |  |  |
| 5979   | RequestTime           | Y           | 8      | 8      | UTCTimestamp    | In timestamp; filled always by the gateway  |  |  |  |
| 21002  | TrdRegTSTimeIn        | Y           | 8      | 16     | UTCTimestamp    | Matching engine in timestamp.   |  |  |  |
| 21003  | TrdRegTSTimeOut       | Y           | 8      | 24     | UTCTimestamp    | Matching engine out timestamp.  |  |  |  |
| 7765   | ResponseIn            | Y           | 8      | 32     | UTCTimestamp    | Timestamp the gateway receives a message from the Matching Engine   |  |  |  |
| 52   | SendingTime           | Y           | 8      | 40     | UTCTimestamp    | Outgoing delta timestamp; filled always by the gateway  |  |  |  |
| 34   | MsgSeqNum             | Y           | 4      | 48     | unsigned int    | Message sequence number used by the participant for requests sent to the gateway.   |  |  |  |
| 893  | LastFragment          | Y           | 1      | 52     | unsigned int    | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |  |
| 39030  | Pad3                  | U           | 3      | 53     | Fixed String    | not used  |  |  |  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<>  | geBody>               |             |        |        |                 |   |  |  |  |
| 28717  | MMParameterReport-ID  | Y           | 8      | 56     | UTCTimestamp    | Transaction timestamp.  |  |  |  |
| 1300   | MarketSegmentID       | Υ           | 4      | 64     | signed int      | Product identifier.   |  |  |  |
| 28705  | NoMMParameters        | Υ           | 1      | 68     | Counter         | Number of MMParameters repeating  |  |  |  |
|  |                       |             |        |        |                 | group instances.  |  |  |  |
| 39030  | Pad3                  | U           | 3      | 69     | Fixed String    | not used  |  |  |  |
| <mmi< td=""><td>ParameterGrp&gt; Cardina</td><td>lity: 0 - 9</td><td>9, Rec</td><td>ord co</td><td>unter: NoMMPara</td><td>ameters</td></mmi<> | ParameterGrp> Cardina | lity: 0 - 9 | 9, Rec | ord co | unter: NoMMPara | ameters   |  |  |  |
| 1629   | >ExposureDuration     | Y           | 8      | 72     | signed int      | Participant defined time frame (in milliseconds) the risk protection parameters should be counted.  |  |  |  |

| Tag   | Field Name    | Req'd | Len | Ofs | Data Type    | Description                                |
|-------|---------------|-------|-----|-----|--------------|--|
| 14    | >CumQty       | Υ     | 8   | 80  | Qty          | Volume threshold: total number of          |
|       |               |       |     |     |              | traded contracts.                          |
| 7966  | >Delta        | Υ     | 8   | 88  | Qty          | The Delta counter holds for futures        |
|       |               |       |     |     |              | the difference of bought future con-       |
|       |               |       |     |     |              | tracts and sold future contracts.For       |
|       |               |       |     |     |              | options it is the the difference of (long  |
|       |               |       |     |     |              | calls $+$ short puts) and (short calls $+$ |
|       |               |       |     |     |              | long puts).                                |
| 7968  | >Vega         | Y     | 8   | 96  | Qty          | Absolute number of contracts pur-          |
|       |               |       |     |     |              | chased reduced by the number of con-       |
|       |               |       |     |     |              | tracts sold (for options only)             |
| 28615 | >PctCount     | Υ     | 4   | 104 | signed int   | The Percent counter sums up each           |
|       |               |       |     |     |              | trade as a percentage of the original      |
|       |               |       |     |     |              | volume.                                    |
| 20655 | >TargetParty- | N     | 4   | 108 | unsigned int | Session ID.                                |
| 20055 | IDSessionID   | IN    | 4   | 100 | unsigned int | Jession ID.                                |

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#### 7.12 Market Maker Parameter Definition

This message is used for definition of market maker protection parameters for a session. For more details, please refer to the ETI Manual, chapter Market Maker Protection. This message is sent to the service "Order and Quote Management".

Market Maker Parameter Definition



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|
| <messa< td=""><td colspan="10"><messageheaderin></messageheaderin></td></messa<>          | <messageheaderin></messageheaderin> |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                        |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI             |  |  |  |  |
|   |                                     |       |     |     |              | message layout. Value: 10303               |  |  |  |  |
|   |                                     |       |     |     |              | (MMParameterDefinitionRequest,             |  |  |  |  |
|   |                                     |       |     |     |              | MsgType = U14)                             |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                                   |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                                   |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |  |  |  |  |  |
| 34  | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the        |  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the       |  |  |  |  |
|   |                                     |       |     |     |              | gateway.                                   |  |  |  |  |
| 50  | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.                                   |  |  |  |  |
| < Messa   | geBody>                             |       |     |     |              |  |  |  |  |  |
| 1629  | ExposureDuration                    | Y     | 8   | 24  | signed int   | Participant defined time frame (in mil-    |  |  |  |  |
|   |                                     |       |     |     |              | liseconds) the risk protection parame-     |  |  |  |  |
|   |                                     |       |     |     |              | ters should be counted.                    |  |  |  |  |
| 14  | CumQty                              | Y     | 8   | 32  | Qty          | Volume threshold: total number of          |  |  |  |  |
|   |                                     |       |     |     |              | traded contracts.                          |  |  |  |  |
| 7966  | Delta                               | Y     | 8   | 40  | Qty          | The Delta counter holds for futures        |  |  |  |  |
|   |                                     |       |     |     |              | the difference of bought future con-       |  |  |  |  |
|   |                                     |       |     |     |              | tracts and sold future contracts.For       |  |  |  |  |
|   |                                     |       |     |     |              | options it is the the difference of (long  |  |  |  |  |
|   |                                     |       |     |     |              | calls $+$ short puts) and (short calls $+$ |  |  |  |  |
|   |                                     |       |     |     |              | long puts).                                |  |  |  |  |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|-----------------------|-------|-----|-----|--------------|---------------------------------------|
| 7968  | Vega                  | Υ     | 8   | 48  | Qty          | Absolute number of contracts pur-     |
|       |                       |       |     |     |              | chased reduced by the number of con-  |
|       |                       |       |     |     |              | tracts sold (for options only)        |
| 1300  | MarketSegmentID       | Y     | 4   | 56  | signed int   | Product identifier.                   |
| 20655 | TargetPartyIDSession- | N     | 4   | 60  | unsigned int | Session ID.                           |
| 20055 | ID                    | IN    | 4   | 00  | unsigned int | Session ID.                           |
| 28615 | PctCount              | Y     | 4   | 64  | signed int   | The Percent counter sums up each      |
|       |                       |       |     |     |              | trade as a percentage of the original |
|       |                       |       |     |     |              | volume.                               |
| 39040 | Pad4                  | U     | 4   | 68  | Fixed String | not used                              |

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## 7.13 Market Maker Parameter Definition Response

This message confirms a Market Maker Parameter Definition request.

| Tag  | Field Name      | Req'd                                 | Len | Ofs | Data Type    | Description                           |
|--|-----------------|---------------------------------------|-----|-----|--------------|---------------------------------------|
| <messa,< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderOut>    |                                       |     |     |              |                                       |
| 9  | BodyLen         | Υ                                     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|  |                 |                                       |     |     |              | cluding this field.                   |
| 28500  | TemplateID      | Y                                     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|  |                 |                                       |     |     |              | sage layout. Value: 10304 (Request-   |
|  |                 |                                       |     |     |              | Acknowledge, MsgType = U1)            |
| 39020  |                 | U                                     | 2   | 6   | Fixed String | not used                              |
|  | sponseHeaderME> |                                       |     |     |              |                                       |
| 5979   | RequestTime     | Y                                     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the    |
|  |                 | .,                                    |     |     |              | gateway                               |
|  | TrdRegTSTimeIn  | Y                                     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.         |
|  | TrdRegTSTimeOut | Υ                                     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.        |
| 7765   | ResponseIn      | Y                                     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a      |
|  |                 |                                       |     |     |              | message from the Matching Engine      |
| 52   | SendingTime     | Y                                     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |
|  |                 | .,                                    |     |     |              | ways by the gateway                   |
| 34   | MsgSeqNum       | Y                                     | 4   | 48  | unsigned int | Message sequence number used by the   |
|  |                 |                                       |     |     |              | participant for requests sent to the  |
| 000  |                 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     |     |              | gateway.                              |
| 893  | LastFragment    | Y                                     | 1   | 52  | unsigned int | Indicates whether this message is the |
|  |                 |                                       |     |     |              | last fragment (part) of a sequence of |
|  |                 |                                       |     |     |              | messages belonging to one dedicated   |
|  |                 |                                       |     |     |              | transaction.                          |
|  |                 |                                       |     |     |              | Value Description                     |
|  |                 |                                       |     |     |              | 1 Last Message                        |
| 39030  | Pad3            | U                                     | 3   | 53  | Fixed String | not used                              |
|  | geBody>         |                                       |     |     |              |                                       |
|  | ExecID          | N                                     | 8   | 56  | UTCTimestamp | Transaction timestamp.                |

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# 8 Strategy Creation

#### 8.1 Create Strategy

The Security Definition Request message is used to create a strategy on T7. For more details, please refer to the ETI Manual, chapter Creation of a Strategy. This message is sent to the service "Order and Quote Management".



| Tag     | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                    |
|---------|-----------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderIn>     |       |     |     |              |  |
| 9       | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |
|         |                 |       |     |     |              | cluding this field.                            |
| 28500   | TemplateID      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |
|         |                 |       |     |     |              | sage layout. Value: 10301 (Security-           |
|         |                 |       |     |     |              | ${\sf DefinitionRequest,\ MsgType} = {\sf c)}$ |
| 25028   | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                                       |
| 39020   | Pad2            | U     | 2   | 14  | Fixed String | not used                                       |
| < Reque | stHeader>       |       |     |     |              |  |
| 34      | MsgSeqNum       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the            |
|         |                 |       |     |     |              | participant for requests sent to the           |
|         |                 |       |     |     |              | gateway.                                       |
| 50      | SenderSubID     | Y     | 4   | 20  | unsigned int | User ID.                                       |
| < Messa | geBody>         |       |     |     |              |  |
| 1300    | MarketSegmentID | Υ     | 4   | 24  | signed int   | Product identifier.                            |
| 762     | SecuritySubType | N     | 4   | 28  | signed int   | Strategy Type.Required for Product-            |
|         |                 |       |     |     |              | Complex (1227) $=$ 2=Standard Op-              |
|         |                 |       |     |     |              | tion Strategy, 4=Option Volatility             |
|         |                 |       |     |     |              | Strategy, 6=Inter Product Spread,              |
|         |                 |       |     |     |              | 7=Standard Future Strategy, 8=Pack             |
|         |                 |       |     |     |              | and Bundle                                     |

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| Tag   | Field Name             | Req'd    | Len  | Ofs | Data Type       | Description  |
|---|------------------------|----------|------|-----|-----------------|--|
| 1227  | ProductComplex         | Υ        | 1    | 32  | unsigned int    | This field qualifies an instrument type                                      |
|   |                        |          |      |     |                 | on T7.   |
|   |                        |          |      |     |                 | Value Description  |
|   |                        |          |      |     |                 | 2 Standard Option Strategy   |
|   |                        |          |      |     |                 | Non-Standard Option Strat-   |
|   |                        |          |      |     |                 | egy  |
|   |                        |          |      |     |                 | 4 Volatility Strategy  |
|   |                        |          |      |     |                 | 5 Futures Spread   |
|   |                        |          |      |     |                 | 6 Inter-Product Spread   |
|   |                        |          |      |     |                 | 7 Standard Future Strategy   |
|   |                        |          |      |     |                 | 8 Pack and Bundle  |
|   |                        |          |      |     |                 | 9 Strip  |
|   |                        |          |      |     |                 | 11 Commodity Strip   |
|   |                        | .,       |      |     |                 |  |
| 28555   | NoLegOnbooks           | Y        | 1    | 33  | Counter         | Number of InstrumentLeg repeating  |
|   |                        |          |      |     |                 | group instances. (only for on-book   |
| 1277  | NA IIII NA III         | N        | 1    | 24  |                 | trades)  |
| 1377  | MultilegModel          | IN       | 1    | 34  | unsigned int    | Specifies if a strategy is temporarily (user-defined) or permanently (prede- |
|   |                        |          |      |     |                 | fined) available.  |
|   |                        |          |      |     |                 |  |
|   |                        |          |      |     |                 | Value Description  |
|   |                        |          |      |     |                 | 0 Predefined Multileg Security   |
|   |                        |          |      |     |                 | User-defined Multleg Secu-   |
|   |                        |          |      |     |                 | rity   |
| 2404  | ComplianceText         | N        | 20   | 35  | Fixed String    | This field is used to provide addi-  |
|   | Compilation rext       |          |      |     |                 | tional regulatory information (accord-                                       |
|   |                        |          |      |     |                 | ing to respective rules & regs, circu-                                       |
|   |                        |          |      |     |                 | lars and/or bilateral coordination be-                                       |
|   |                        |          |      |     |                 | tween participant and Trading Surveil-                                       |
|   |                        |          |      |     |                 | lance Office).   |
|   |                        |          |      |     |                 | Valid characters: \x20, \x22-\x7B,   |
|   |                        |          |      |     |                 | \x7D, \x7E   |
| 39000   | Pad1                   | U        | 1    | 55  | Fixed String    | not used   |
| <instr< td=""><td>mtLegGrp&gt; Cardinality:</td><td>0 - 144,</td><td>Reco</td><td></td><td>nter: NoLegOnbo</td><td>ooks</td></instr<> | mtLegGrp> Cardinality: | 0 - 144, | Reco |     | nter: NoLegOnbo | ooks   |
| 602   | >LegSecurityID         | Y        | 8    | 56  | signed int      | Instrument identifier of the leg secu-                                       |
|   |                        |          |      |     |                 | rity.  |
|   | >LegPrice              | N        | 8    | 64  | PriceType       | Strategy leg underlying price  |
| 600   | 9 7                    | N        | 4    | 72  | signed int      | Product identifier of the leg security                                       |
| 623   | >LegRatioQty           | Y        | 4    | 76  | unsigned int    | The ratio of quantity for this individ-                                      |
|   |                        |          |      |     |                 | ual leg relative to the entire multileg                                      |
|   |                        |          |      |     |                 | security.  |

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| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description   |
|-------|------------------|-------|-----|-----|--------------|---|
| 624   | >LegSide         | Y     | 1   | 80  | unsigned int | The side of the individual leg of a strategy as defined in its signature.  Value Description  1 Buy  2 Sell |
| 609   | >LegSecurityType | Y     | 1   | 81  | unsigned int | Indicates type of leg.  Value Description  1 Multileg Instrument  2 Underlying Leg                          |
| 39060 | >Pad6            | U     | 6   | 82  | Fixed String | not used  |

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## 8.2 Create Strategy Response

This message confirms the creation of a strategy or returns the parameters of an existing strategy. For more details, please refer to the ETI Manual, chapter Creation of a Strategy.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                             |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|---|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |       |     |     |              |   |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-    |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                     |  |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-     |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10302 (Security-    |  |  |  |
|   |                                       |       |     |     |              | $Definition,\ MsgType = d)$             |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                |  |  |  |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre:<> | sponseHeaderME>                       |       |     |     |              |   |  |  |  |
| 5979  | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the      |  |  |  |
|   |                                       |       |     |     |              | gateway                                 |  |  |  |
| 21002   | TrdRegTSTimeIn                        | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.           |  |  |  |
| 21003   | TrdRegTSTimeOut                       | Υ     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.          |  |  |  |
| 7765  | ResponseIn                            | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a        |  |  |  |
|   |                                       |       |     |     |              | message from the Matching Engine        |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-    |  |  |  |
|   |                                       |       |     |     |              | ways by the gateway                     |  |  |  |
| 34  | MsgSeqNum                             | Y     | 4   | 48  | unsigned int | Message sequence number used by the     |  |  |  |
|   |                                       |       |     |     |              | participant for requests sent to the    |  |  |  |
|   |                                       |       |     |     |              | gateway.                                |  |  |  |
| 893   | LastFragment                          | Υ     | 1   | 52  | unsigned int | Indicates whether this message is the   |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of   |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated     |  |  |  |
|   |                                       |       |     |     |              | transaction.                            |  |  |  |
|   |                                       |       |     |     |              | Value Description                       |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                          |  |  |  |
|   |                                       |       |     |     |              |   |  |  |  |
| 39030   | Pad3                                  | U     | 3   | 53  | Fixed String | not used                                |  |  |  |
| < Messa   | geBody>                               |       |     |     | ,            |   |  |  |  |
| 1148  | LowLimitPrice                         | N     | 8   | 56  | PriceType    | Allowable low limit price for the trad- |  |  |  |
|   |                                       |       |     |     |              | ing day.A key parameter in validating   |  |  |  |
|   |                                       |       |     |     |              | order price.Used as the lower band for  |  |  |  |
|   |                                       |       |     |     |              | validating order prices.Orders submit-  |  |  |  |
|   |                                       |       |     |     |              | ted with prices below the lower limit   |  |  |  |
|   |                                       |       |     |     |              | will be rejected                        |  |  |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------|-------|-----|-----|--------------|--|
| 1149  | HighLimitPrice     | N     | 8   | 64  | PriceType    | Allowable high limit price for the trad-                                   |
|       |                    |       |     |     |              | ing day.A key parameter in validating                                      |
|       |                    |       |     |     |              | order price.Used as the upper band for                                     |
|       |                    |       |     |     |              | validating order prices.Orders submit-                                     |
|       |                    |       |     |     |              | ted with prices above the upper limit                                      |
|       |                    |       |     |     |              | will be rejected   |
| 48    | SecurityID         | Υ     | 8   | 72  | signed int   | Instrument identifier.   |
| 779   | LastUpdateTime     | Υ     | 8   | 80  | UTCTimestamp | Creation timestamp of the strategy.  |
| 322   | SecurityResponseID | Υ     | 8   | 88  | UTCTimestamp | Identifier for the Security Definition                                     |
|       |                    |       |     |     |              | message.   |
| 1300  | MarketSegmentID    | Υ     | 4   | 96  | signed int   | Product identifier.  |
| 28614 | NumberOfSecurities | Υ     | 4   | 100 | signed int   | Number of strategies that have been  |
|       |                    |       |     |     |              | created per session, product, instru-                                      |
|       |                    |       |     |     |              | ment type and business day.  |
| 762   | SecuritySubType    | N     | 4   | 104 | signed int   | Sub-type qualification/identification                                      |
|       |                    |       |     |     |              | of the SecurityType  |
| 1377  | MultilegModel      | Υ     | 1   | 108 | unsigned int | Specifies if a strategy is temporarily                                     |
|       |                    |       |     |     |              | (user-defined) or permanently (prede-                                      |
|       |                    |       |     |     |              | fined) available.  |
|       |                    |       |     |     |              | Value Description  |
|       |                    |       |     |     |              | 0 Predefined Multileg Security   |
|       |                    |       |     |     |              | User-defined Multleg Secu-   |
|       |                    |       |     |     |              | 1   rity   |
|       |                    |       |     |     |              |  |
| 1144  | ImpliedMarket-     | Υ     | 1   | 109 | unsigned int | Indicates that an implied market to  |
| 1144  | Indicator          | T     | 1   | 109 | unsigned int | Indicates that an implied market to be created for either the legs of a    |
|       |                    |       |     |     |              |  |
|       |                    |       |     |     |              | multi-leg instrument (Implied-in) or for the multi-leg instrument based on |
|       |                    |       |     |     |              | the existence of the legs (Implied-  |
|       |                    |       |     |     |              | out). Determination as to whether im-                                      |
|       |                    |       |     |     |              | plied markets should be created is gen-                                    |
|       |                    |       |     |     |              | erally done at the level of the multi-leg                                  |
|       |                    |       |     |     |              | instrument.Commonly used in listed   |
|       |                    |       |     |     |              | derivatives.   |
|       |                    |       |     |     |              |  |
|       |                    |       |     |     |              | Value Description  |
|       |                    |       |     |     |              | 0 Not implied  |
|       |                    |       |     |     |              | Both Implied-in and Implied-   |
|       |                    |       |     |     |              | out  |
|       |                    |       |     |     |              |  |

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| Tag   | Field Name             | Req'd    | Len  | Ofs    | Data Type       | Description                             |
|---|------------------------|----------|------|--------|-----------------|---|
| 1227  | ProductComplex         | Υ        | 1    | 110    | unsigned int    | This field qualifies an instrument type |
|   |                        |          |      |        |                 | on T7.                                  |
|   |                        |          |      |        |                 | Value Description                       |
|   |                        |          |      |        |                 | 2 Standard Option Strategy              |
|   |                        |          |      |        |                 | Non-Standard Option Strat-              |
|   |                        |          |      |        |                 | egy                                     |
|   |                        |          |      |        |                 | 4 Volatility Strategy                   |
|   |                        |          |      |        |                 | 5 Futures Spread                        |
|   |                        |          |      |        |                 | 6 Inter-Product Spread                  |
|   |                        |          |      |        |                 | 7 Standard Future Strategy              |
|   |                        |          |      |        |                 | 8 Pack and Bundle                       |
|   |                        |          |      |        |                 | 9 Strip                                 |
|   |                        |          |      |        |                 | 11 Commodity Strip                      |
| 28555   | NoLegOnbooks           | Y        | 1    | 111    | Counter         | Number of InstrumentLeg repeating       |
|   | 14020801100110         |          | _    |        | 00000.          | group instances. (only for on-book      |
|   |                        |          |      |        |                 | trades)                                 |
| <instr< td=""><td>mtLegGrp&gt; Cardinality:</td><td>0 - 144,</td><td>Reco</td><td>rd cou</td><td>nter: NoLegOnbo</td><td>ooks</td></instr<> | mtLegGrp> Cardinality: | 0 - 144, | Reco | rd cou | nter: NoLegOnbo | ooks                                    |
| 602   | >LegSecurityID         | Y        | 8    | 112    | signed int      | Instrument identifier of the leg secu-  |
|   |                        |          |      |        |                 | rity.                                   |
| 566   | >LegPrice              | N        | 8    | 120    | PriceType       | Strategy leg underlying price           |
| 600   | <u> </u>               | N        | 4    | 128    | signed int      | Product identifier of the leg security  |
| 623   | >LegRatioQty           | Y        | 4    | 132    | unsigned int    | The ratio of quantity for this individ- |
|   |                        |          |      |        |                 | ual leg relative to the entire multileg |
| 604   |                        |          |      | 106    |                 | security.                               |
| 624   | >LegSide               | Y        | 1    | 136    | unsigned int    | The side of the individual leg of a     |
|   |                        |          |      |        |                 | strategy as defined in its signature.   |
|   |                        |          |      |        |                 | Value Description                       |
|   |                        |          |      |        |                 | 1 Buy                                   |
|   |                        |          |      |        |                 | 2 Sell                                  |
| 609   | >LegSecurityType       | Y        | 1    | 137    | unsigned int    | Indicates type of leg.                  |
|   |                        |          |      |        |                 | Value Description                       |
|   |                        |          |      |        |                 | 1 Multileg Instrument                   |
|   |                        |          |      |        |                 | 2 Underlying Leg                        |
|   |                        |          |      |        |                 | , , , ,                                 |
| 39060   | >Pad6                  | U        | 6    | 138    | Fixed String    | not used                                |

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#### 9 Flexible Instrument Creation

### 9.1 Create Flexible Instrument Request

This message is used to create a flexible instrument on T7. This message is sent to the service "Order and Quote Management".

Create Flexible Instrument Request



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                                    |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                            |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10309 (Security-           |  |  |  |  |
|   |                                     |       |     |     |              | ${\sf DefinitionRequest,\ MsgType} = {\sf c)}$ |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                                       |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                                       |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |  |  |  |  |  |
| 34  | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the            |  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the           |  |  |  |  |
|   |                                     |       |     |     |              | gateway.                                       |  |  |  |  |
| 50  | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.                                       |  |  |  |  |
| < Messa   | geBody>                             |       |     |     |              |  |  |  |  |  |
| 202   | StrikePrice                         | N     | 8   | 24  | PriceType    | Strike Price for an Option.                    |  |  |  |  |
| 1300  | MarketSegmentID                     | Y     | 4   | 32  | signed int   | Product identifier.                            |  |  |  |  |
| 541   | MaturityDate                        | N     | 4   | 36  | LocalMktDate | Date of maturity.                              |  |  |  |  |
| 30866   | ContractDate                        | N     | 4   | 40  | LocalMktDate | Business date to identify an instru-           |  |  |  |  |
|   |                                     |       |     |     |              | ment   |  |  |  |  |
| 1193  | SettlMethod                         | Y     | 1   | 44  | char         | Settlement method for a contract or            |  |  |  |  |
|   |                                     |       |     |     |              | instrument.                                    |  |  |  |  |
|   |                                     |       |     |     |              | Value Description                              |  |  |  |  |
|   |                                     |       |     |     |              | C Cash Settlement                              |  |  |  |  |
|   |                                     |       |     |     |              | P Physical Settlement                          |  |  |  |  |
|   |                                     |       |     |     |              |  |  |  |  |  |
| 206   | OptAttribute                        | N     | 1   | 45  | unsigned int | Version of option contract.                    |  |  |  |  |

| Tag   | Field Name        | Req'd | Len | Ofs | Data Type     | Description                                   |
|-------|-------------------|-------|-----|-----|---------------|---|
| 201   | PutOrCall         | N     | 1   | 46  | unsigned int  | Indicates whether an option contract          |
|       |                   |       |     |     |               | is a put or call.                             |
|       |                   |       |     |     |               | Value Description                             |
|       |                   |       |     |     |               | 0 Put   |
|       |                   |       |     |     |               | 1 Call  |
| 1104  | F . C. I          | N.    | 1   | 47  |               | T C   |
| 1194  | ExerciseStyle     | N     | 1   | 47  | unsigned int  | Type of exercise of an instrument.            |
|       |                   |       |     |     |               | Value Description                             |
|       |                   |       |     |     |               | 0 European                                    |
|       |                   |       |     |     |               | 1 American                                    |
| 2121  |                   |       |     | 40  | - I C         | <del></del>                                   |
| 2404  | ComplianceText    | N     | 20  | 48  | Fixed String  | This field is used to provide addi-           |
|       |                   |       |     |     |               | tional regulatory information (accord-        |
|       |                   |       |     |     |               | ing to respective rules & regs, circu-        |
|       |                   |       |     |     |               | lars and/or bilateral coordination be-        |
|       |                   |       |     |     |               | tween participant and Trading Surveil-        |
|       |                   |       |     |     |               | lance Office).                                |
|       |                   |       |     |     |               | Valid characters: \x20, \x22-\x7B, \x7D, \x7E |
| 39040 | Pad4              | U     | 4   | 68  | Fixed String  | not used                                      |
| 39040 | r au <del>u</del> |       | 7   | 00  | i ixeu Juling | not used                                      |

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## 9.2 Create Flexible Instrument Response

This message confirms the creation of a flexible instrument.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| <messa,< th=""><th colspan="9"><messageheaderout></messageheaderout></th></messa,<>             | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10310 (Security-   |  |  |  |
|   |                                       |       |     |     |              | Definition, $MsgType = d$ )            |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME>                       |       |     |     |              |  |  |  |  |
| 5979  | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the     |  |  |  |
|   |                                       |       |     |     |              | gateway                                |  |  |  |
| 21002   | TrdRegTSTimeIn                        | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.          |  |  |  |
| 21003   | TrdRegTSTimeOut                       | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.         |  |  |  |
| 7765  | Responseln                            | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a       |  |  |  |
|   |                                       |       |     |     |              | message from the Matching Engine       |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-   |  |  |  |
|   |                                       |       |     |     |              | ways by the gateway                    |  |  |  |
| 34  | MsgSeqNum                             | Y     | 4   | 48  | unsigned int | Message sequence number used by the    |  |  |  |
|   |                                       |       |     |     |              | participant for requests sent to the   |  |  |  |
|   |                                       |       |     |     |              | gateway.                               |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 52  | unsigned int | Indicates whether this message is the  |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of  |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 39030   |                                       | U     | 3   | 53  | Fixed String | not used                               |  |  |  |
| < Messa   | geBody>                               |       |     | 1   |              |  |  |  |  |
| 322   | SecurityResponseID                    | Y     | 8   | 56  | UTCTimestamp | Identifier for the Security Definition |  |  |  |
|   |                                       |       |     |     |              | message.                               |  |  |  |
| 48  | SecurityID                            | Y     | 8   | 64  | signed int   | Instrument identifier.                 |  |  |  |
| 202   | StrikePrice                           | N     | 8   | 72  | PriceType    | Strike Price for an Option.            |  |  |  |
| 1300  | MarketSegmentID                       | Y     | 4   | 80  | signed int   | Product identifier.                    |  |  |  |
| 541   | MaturityDate                          | N     | 4   | 84  | LocalMktDate | Date of maturity.                      |  |  |  |
| 30866   | ContractDate                          | N     | 4   | 88  | LocalMktDate | Business date to identify an instru-   |  |  |  |
|   |                                       |       |     |     |              | ment                                   |  |  |  |

| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|----------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex | N     | 1   | 92  | unsigned int | This field qualifies an instrument type |
|       |                |       |     |     |              | on T7.                                  |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 10 Flexible Simple Instrument           |
|       |                |       |     |     |              |   |
| 1193  | SettlMethod    | Y     | 1   | 93  | char         | Settlement method for a contract or     |
|       |                |       |     |     |              | instrument.                             |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | C Cash Settlement                       |
|       |                |       |     |     |              | P Physical Settlement                   |
| 225   |                |       |     | 0.4 |              | 14                                      |
| 206   | <b>'</b>       | N     | 1   | 94  | unsigned int | Version of option contract.             |
| 201   | PutOrCall      | N     | 1   | 95  | unsigned int | Indicates whether an option contract    |
|       |                |       |     |     |              | is a put or call.                       |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 0 Put                                   |
|       |                |       |     |     |              | 1 Call                                  |
|       |                |       |     |     |              |   |
| 1194  | ExerciseStyle  | N     | 1   | 96  | unsigned int | Type of exercise of an instrument.      |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 0 European                              |
|       |                |       |     |     |              | 1 American                              |
|       |                |       |     |     |              |   |
| 39070 | Pad7           | U     | 7   | 97  | Fixed String | not used                                |

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## 10 Quote and Cross Request

#### 10.1 Quote Request

This message is used to send a Quote Request. For more details, please refer to the ETI Manual, chapter Request for Quote. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                          |
|---|-----------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa   | geHeaderIn>     |       |     |     |              |                                      |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|   |                 |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|   |                 |       |     |     |              | sage layout. Value: 10401 (Quote-    |
|   |                 |       |     |     |              | Request,MsgType=R)                   |
| 25028   | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                             |
| 39020   | Pad2            | U     | 2   | 14  | Fixed String | not used                             |
| < Reque   | stHeader>       |       |     |     |              |                                      |
| 34  | MsgSeqNum       | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |
|   |                 |       |     |     |              | participant for requests sent to the |
|   |                 |       |     |     |              | gateway.                             |
| 50  | SenderSubID     | Y     | 4   | 20  | unsigned int | User ID.                             |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geBody>         |       |     |     |              |                                      |
| 48  | SecurityID      | Y     | 8   | 24  | signed int   | Instrument identifier.               |
| 38  | OrderQty        | N     | 8   | 32  | Qty          | Total Order Quantity.                |
| 1300  | MarketSegmentID | Υ     | 4   | 40  | signed int   | Product identifier.                  |
| 54  | Side            | N     | 1   | 44  | unsigned int | Side of the order.                   |
|   |                 |       |     |     |              | Value Description                    |
|   |                 |       |     |     |              | 1 Buy                                |
|   |                 |       |     |     |              | 2 Sell                               |
|   |                 |       |     |     |              |                                      |

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| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|----------------|-------|-----|-----|--------------|--|
| 2404  | ComplianceText | N     | 20  | 45  | Fixed String | This field is used to provide addi-      |
|       |                |       |     |     |              | tional regulatory information (accord-   |
|       |                |       |     |     |              | ing to respective rules & regs, circu-   |
|       |                |       |     |     |              | lars and/or bilateral coordination be-   |
|       |                |       |     |     |              | tween participant and Trading Surveil-   |
|       |                |       |     |     |              | lance Office).                           |
|       |                |       |     |     |              | Valid characters: $\x20$ , $\x22-\x7B$ , |
|       |                |       |     |     |              | \x7D, \x7E                               |
| 39070 | Pad7           | U     | 7   | 65  | Fixed String | not used                                 |

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# 10.2 Quote Request Response

This message confirms a Quote Request.

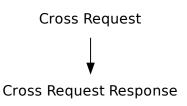
| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                           |
|---|-----------------|-------|-----|-----|--------------|---------------------------------------|
| < Messa   | geHeaderOut>    |       |     |     |              |                                       |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|   |                 |       |     |     |              | cluding this field.                   |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|   |                 |       |     |     |              | sage layout. Value: 10402 (Request-   |
|   |                 |       |     |     |              | Acknowledge, MsgType = U1)            |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                              |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre:<> | sponseHeaderME> |       |     |     |              |                                       |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the    |
|   |                 |       |     |     |              | gateway                               |
| 21002   | TrdRegTSTimeIn  | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.         |
| 21003   | TrdRegTSTimeOut | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.        |
| 7765  | Responseln      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a      |
|   |                 |       |     |     |              | message from the Matching Engine      |
| 52  | SendingTime     | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |
|   |                 |       |     |     |              | ways by the gateway                   |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the   |
|   |                 |       |     |     |              | participant for requests sent to the  |
|   |                 |       |     |     |              | gateway.                              |
| 893   | LastFragment    | Y     | 1   | 52  | unsigned int | Indicates whether this message is the |
|   |                 |       |     |     |              | last fragment (part) of a sequence of |
|   |                 |       |     |     |              | messages belonging to one dedicated   |
|   |                 |       |     |     |              | transaction.                          |
|   |                 |       |     |     |              | Value Description                     |
|   |                 |       |     |     |              | 1 Last Message                        |
|   |                 |       |     |     |              |                                       |
| 39030   |                 | U     | 3   | 53  | Fixed String | not used                              |
|   | geBody>         |       |     |     |              |                                       |
| 17  | ExecID          | Y     | 8   | 56  | UTCTimestamp | Transaction timestamp.                |

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### 10.3 Cross Request

This message is used to create a Cross Request. For more details, please refer to the ETI Manual, chapter Cross Request. This message is sent to the service "Order and Quote Management".



| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                              |  |  |
|---|-----------------|-------|-----|-----|--------------|--|--|--|
| <messageheaderin></messageheaderin>   |                 |       |     |     |              |  |  |  |
| 9   | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-     |  |  |
|   |                 |       |     |     |              | cluding this field.                      |  |  |
| 28500   | TemplateID      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-      |  |  |
|   |                 |       |     |     |              | sage layout. Value: 10118 (Cross-        |  |  |
|   |                 |       |     |     |              | Request, $MsgType = DS$ )                |  |  |
| 25028   | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                                 |  |  |
| 39020   | Pad2            | U     | 2   | 14  | Fixed String | not used                                 |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>       |       |     |     |              |  |  |  |
| 34  | MsgSeqNum       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the      |  |  |
|   |                 |       |     |     |              | participant for requests sent to the     |  |  |
|   |                 |       |     |     |              | gateway.                                 |  |  |
| 50  | SenderSubID     | Y     | 4   | 20  | unsigned int | User ID.                                 |  |  |
| < Messa   | geBody>         |       |     |     |              |  |  |  |
| 48  | SecurityID      | Υ     | 8   | 24  | signed int   | Instrument identifier.                   |  |  |
| 38  | OrderQty        | Υ     | 8   | 32  | Qty          | Total Order Quantity.                    |  |  |
| 1300  | MarketSegmentID | Υ     | 4   | 40  | signed int   | Product identifier.                      |  |  |
| 2404  | ComplianceText  | N     | 20  | 44  | Fixed String | This field is used to provide addi-      |  |  |
|   |                 |       |     |     |              | tional regulatory information (accord-   |  |  |
|   |                 |       |     |     |              | ing to respective rules & regs, circu-   |  |  |
|   |                 |       |     |     |              | lars and/or bilateral coordination be-   |  |  |
|   |                 |       |     |     |              | tween participant and Trading Surveil-   |  |  |
|   |                 |       |     |     |              | lance Office).                           |  |  |
|   |                 |       |     |     |              | Valid characters: $\x20$ , $\x22-\x7B$ , |  |  |
|   |                 |       |     |     |              | \x7D, \x7E                               |  |  |

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# 10.4 Cross Request Response

This message confirms a Cross Request.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                           |
|---|-----------------|-------|-----|-----|--------------|---------------------------------------|
| < Messa   | geHeaderOut>    |       |     |     |              |                                       |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|   |                 |       |     |     |              | cluding this field.                   |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|   |                 |       |     |     |              | sage layout. Value: 10119 (Request-   |
|   |                 |       |     |     |              | Acknowledge, MsgType = U1)            |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                              |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre:<> | sponseHeaderME> |       |     |     |              |                                       |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the    |
|   |                 |       |     |     |              | gateway                               |
| 21002   | TrdRegTSTimeIn  | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.         |
| 21003   | TrdRegTSTimeOut | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.        |
| 7765  | Responseln      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a      |
|   |                 |       |     |     |              | message from the Matching Engine      |
| 52  | SendingTime     | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |
|   |                 |       |     |     |              | ways by the gateway                   |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the   |
|   |                 |       |     |     |              | participant for requests sent to the  |
|   |                 |       |     |     |              | gateway.                              |
| 893   | LastFragment    | Y     | 1   | 52  | unsigned int | Indicates whether this message is the |
|   |                 |       |     |     |              | last fragment (part) of a sequence of |
|   |                 |       |     |     |              | messages belonging to one dedicated   |
|   |                 |       |     |     |              | transaction.                          |
|   |                 |       |     |     |              | Value Description                     |
|   |                 |       |     |     |              | 1 Last Message                        |
|   |                 |       |     |     |              |                                       |
| 39030   |                 | U     | 3   | 53  | Fixed String | not used                              |
|   | geBody>         |       |     |     |              |                                       |
| 17  | ExecID          | Y     | 8   | 56  | UTCTimestamp | Transaction timestamp.                |

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# 11 CLIP Trading

### 11.1 CLIP Enter Request

This message is sent to the service "Order and Quote Management".

**CLIP Enter Request** 



Response to a CLIP Request

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                           |
|---|-----------------|-------|-----|-----|--------------|---------------------------------------|
| <messa< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderIn>     |       |     |     |              |                                       |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|   |                 |       |     |     |              | cluding this field.                   |
| 28500   | TemplateID      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|   |                 |       |     |     |              | sage layout. Value: 10131 (Cross-     |
|   |                 |       |     |     |              | Request, $MsgType = DS$ )             |
| 25028   | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                              |
| 39020   | Pad2            | U     | 2   | 14  | Fixed String | not used                              |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<>   | stHeader>       |       |     |     |              |                                       |
| 34  | MsgSeqNum       | Y     | 4   | 16  | unsigned int | Message sequence number used by the   |
|   |                 |       |     |     |              | participant for requests sent to the  |
|   |                 |       |     |     |              | gateway.                              |
| 50  | SenderSubID     | Y     | 4   | 20  | unsigned int | User ID.                              |
| < Messa   | geBody>         |       |     |     |              |                                       |
| 48  | SecurityID      | Y     | 8   | 24  | signed int   | Instrument identifier.                |
| 44  | Price           | Y     | 8   | 32  | PriceType    | Limit price. Required if OrdType (40) |
|   |                 |       |     |     |              | is Limit (2) or Stop Limit (4).       |
| 38  | OrderQty        | Y     | 8   | 40  | Qty          | Total Order Quantity.                 |
| 1300  | MarketSegmentID | Y     | 4   | 48  | signed int   | Product identifier.                   |
| 548   | CrossID         | N     | 4   | 52  | signed int   | User defind CLIP arrangement ID.      |
| 2672  | CrossRequestID  | N     | 4   | 56  | signed int   | User defined transaction ID.          |
| 552   | NoSides         | Y     | 1   | 60  | Counter      |                                       |
| 1829  | NoCrossLegs     | Y     | 1   | 61  | Counter      |                                       |

| Tag  | Field Name                         | Req'd    | Len      | Ofs    | Data Type        | Description  |
|--|------------------------------------|----------|----------|--------|------------------|--|
| 25130  | SideDisclosure-<br>Instruction     | N        | 1        | 62     | unsigned int     | Instruction to show side.  Value Description  0 No  1 Yes  |
| 25131  | PriceDisclosure-<br>Instruction    | N        | 1        | 63     | unsigned int     | Instruction to show price.  Value Description  0 No  1 Yes   |
| 25136  | OrderQtyDisclosure-<br>Instruction | N        | 1        | 64     | unsigned int     | Instruction to show total quantity.  Value Description  0 No  1 Yes  |
| 22417  | RootPartyContraFirm                | N        | 5        | 65     | Fixed String     | The identifier of the member counterparty institution.  Valid characters: A-Z, 0-9, \x20   |
| 22437  | RootPartyContra-<br>Trader         | N        | 6        | 70     | Fixed String     | The identifier of the trader counterparty.  Valid characters: A-Z, 0-9, \x20   |
| 39040  | Pad4                               | U        | 4        | 76     | Fixed String     | not used   |
| <cros< td=""><td>sRequestSideGrp&gt; Card</td><td>inality:</td><td>1 - 2, I</td><td>Record</td><td>counter: NoSides</td><td>5</td></cros<> | sRequestSideGrp> Card              | inality: | 1 - 2, I | Record | counter: NoSides | 5  |
| 20003  | >PartyIDClientID                   | N        | 8        | 80     | unsigned int     | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to identify the client of an order for agent account of the member or participant of the trading venue. If the Client Identifier field is not provided for agent orders, then they will be rejected. For orders sent with Trading Capacity Proprietary or Market Making, the Client Identifier field may remain empty. |

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| Tag   | Field Name                           | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------------|-------|-----|-----|--------------|--|
| 20122 | >PartyldInvestment-<br>DecisionMaker | N     | 8   | 88  | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.             |
| 25123 | >ExecutingTrader                     | N     | 8   | 96  | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order. |
| 28773 | >MaximumPrice                        | N     | 8   | 104 | PriceType    | Maximum Price  |
| 979   | >InputSource                         | Y     | 1   | 112 | unsigned int | Role on/for a message  Value Description  1 Client Broker  2 Proprietary Broker  |
| 54    | >Side                                | Y     | 1   | 113 | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell   |
| 1815  | >TradingCapacity                     | Y     | 1   | 114 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.    Value   Description   1   Customer (Agency)   5   Principal (Proprietary)   6   Market Maker                   |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 25124 | >ExecutingTrader-<br>Qualifier                     | Y     | 1   | 115 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 23002 | >OrderAttribute-<br>LiquidityProvision             | Y     | 1   | 116 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision  |
| 21222 | >PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 117 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 77    | >PositionEffect                                    | N     | 1   | 118 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close  O Open  |

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| Tag   | Field Name                   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|------------------------------|-------|-----|-----|--------------|--|
| 1031  | >CustOrderHandling-Inst      | N     | 1   | 119 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 1     | >Account                     | N     | 2   | 120 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x40, \x50, \x52  |
| 20038 | >PartyIDPosition-<br>Account | N     | 32  | 122 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 25007 | >FreeText1                   | N     | 12  | 154 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | >FreeText2                   | N     | 12  | 166 | Fixed String | Second free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |

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| Tag  | Field Name                        | Req'd    | Len    | Ofs     | Data Type        | Description   |
|--|-----------------------------------|----------|--------|---------|------------------|---|
| 25009  | >FreeText3                        | N        | 12     | 178     | Fixed String     | Third free-format text field for trader-specific or customer-related comments.  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E |
| 20013  | >PartyIDOrder-<br>OriginationFirm | N        | 7      | 190     | Fixed String     | External Member ID.  Valid characters: A-Z, 0-9, \x20   |
| 20032  | >PartyIDBeneficiary               | N        | 9      | 197     | Fixed String     | Final Beneficiary Valid characters: A-Z, 0-9, \x20  |
| 20096  | >PartyIDTakeUp-<br>TradingFirm    | N        | 5      | 206     | Fixed String     | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20  |
| 28774  | >SideComplianceText               | N        | 20     | 211     | Fixed String     | Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$  |
| 20075  | >PartyIDLocationID                | N        | 2      | 231     | Fixed String     | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E   |
| 39070  | >Pad7                             | U        | 7      | 233     | Fixed String     | not used  |
| <side< td=""><td>CrossLegGrp&gt; Cardinali</td><td>ty: 0-40</td><td>), Rec</td><td>ord cou</td><td>unter: NoCrossLe</td><td>egs</td></side<> | CrossLegGrp> Cardinali            | ty: 0-40 | ), Rec | ord cou | unter: NoCrossLe | egs   |
| 25153  | >LegInputSource                   | Y        | 1      | 0       | unsigned int     | Role on/for a message  Value Description  1 Client Broker  2 Proprietary Broker   |
| 564  | >LegPositionEffect                | Y        | 1      | 1       | char             | Leg-specific field used for T7 position management purposes and indicates whether the leg is submitted to open or close a position.  Value Description  C Close O Open          |
| 2680   | >LegAccount                       | N        | 2      | 2       | Fixed String     | Leg-specific account to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x4D, \x50   |
| 39040  | >Pad4                             | U        | 4      | 4       | Fixed String     | not used  |

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# 11.2 Response to a CLIP Request

#### **CLIP** Response

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                           |  |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|---------------------------------------|--|--|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |       |     |     |              |                                       |  |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                   |  |  |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10133 (Cross-     |  |  |  |  |  |
|   |                                       |       |     |     |              | $RequestAck,\ MsgType = DT)$          |  |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                              |  |  |  |  |  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME>                       |       |     |     |              |                                       |  |  |  |  |  |
| 5979  | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the    |  |  |  |  |  |
|   |                                       |       |     |     |              | gateway                               |  |  |  |  |  |
| 21002   | TrdRegTSTimeIn                        | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.         |  |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.        |  |  |  |  |  |
| 7765  | ResponseIn                            | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a      |  |  |  |  |  |
|   |                                       |       |     |     |              | message from the Matching Engine      |  |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |  |  |  |  |  |
|   |                                       |       |     |     |              | ways by the gateway                   |  |  |  |  |  |
| 34  | MsgSeqNum                             | Y     | 4   | 48  | unsigned int | Message sequence number used by the   |  |  |  |  |  |
|   |                                       |       |     |     |              | participant for requests sent to the  |  |  |  |  |  |
|   |                                       |       |     |     |              | gateway.                              |  |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 52  | unsigned int | Indicates whether this message is the |  |  |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of |  |  |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated   |  |  |  |  |  |
|   |                                       |       |     |     |              | transaction.                          |  |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                     |  |  |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                        |  |  |  |  |  |
|   |                                       |       |     |     |              |                                       |  |  |  |  |  |
| 39030   | Pad3                                  | U     | 3   | 53  | Fixed String | not used                              |  |  |  |  |  |
| < Messa   | geBody>                               |       |     |     |              |                                       |  |  |  |  |  |
| 17  | ExecID                                | Y     | 8   | 56  | UTCTimestamp | Transaction timestamp.                |  |  |  |  |  |
| 48  | SecurityID                            | Y     | 8   | 64  | signed int   | Instrument identifier.                |  |  |  |  |  |
| 1300  | MarketSegmentID                       | Y     | 4   | 72  | signed int   | Product identifier.                   |  |  |  |  |  |
| 2672  | CrossRequestID                        | N     | 4   | 76  | signed int   | User defined transaction ID.          |  |  |  |  |  |
| 552   | NoSides                               | Y     | 1   | 80  | Counter      |                                       |  |  |  |  |  |

| Tag   | Field Name                  | Req'd     | Len     | Ofs    | Data Type         | Description   |
|---|-----------------------------|-----------|---------|--------|-------------------|---|
| 25244   | ImpliedCheckPrice-Indicator | N         | 1       | 81     | unsigned int      | Indicates whether a option strategy synthetic BBO is used for the price improvement check  Value Description  0 No  1 Yes |
| 39060   | Pad6                        | U         | 6       | 82     | Fixed String      | not used  |
| <cros< td=""><td>sRequestAckSideGrp&gt; (</td><td>Cardinali</td><td>ity: 1-</td><td>2, Red</td><td>cord counter: NoS</td><td>Bides</td></cros<> | sRequestAckSideGrp> (       | Cardinali | ity: 1- | 2, Red | cord counter: NoS | Bides   |
| 37  | >OrderID                    | Y         | 8       | 88     | unsigned int      | Exchange Order ID generated by the T7 System; it remains constant over  |
|   |                             |           |         |        |                   | the lifetime of an order.   |
| 979   | >InputSource                | Y         | 1       | 96     | unsigned int      | Role on/for a message  Value Description  1 Client Broker  2 Proprietary Broker   |
| 54  | >Side                       | Y         | 1       | 97     | unsigned int      | Side of the order.  Value Description  1 Buy  2 Sell  |
| 39060   | >Pad6                       | U         | 6       | 98     | Fixed String      | not used  |

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| Derivatives Message Reference          | Build 111.470.1.ga-111004071-18 |

# 11.3 CLIP Execution Notification

#### **CLIP Execution Notification**

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |  |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |       |     |     |              |   |  |  |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |  |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10135$ (ExecutionReport, MsgType = 8)  |  |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used  |  |  |  |  |  |
| <rbch< td=""><td colspan="11"><rbcheaderme></rbcheaderme></td></rbch<>                  | <rbcheaderme></rbcheaderme>           |       |     |     |              |   |  |  |  |  |  |
| 21003   | TrdRegTSTimeOut                       | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.  |  |  |  |  |  |
| 25043   | NotificationIn                        | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a notification message from the Matching Engine  |  |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |  |  |  |  |  |
| 28727   | ApplSubID                             | U     | 4   | 32  | unsigned int | not used  |  |  |  |  |  |
| 5948  | PartitionID                           | Y     | 2   | 36  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |  |  |  |  |  |
| 28704   | ApplMsgID                             | Y     | 16  | 38  | data         | Application message identifier assigned to an order or quote event.   |  |  |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.  Value Description  4 Session Data   |  |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.  Value Description  0 False   |  |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 56  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 57  | Fixed String | not used  |  |  |  |  |  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geBody>                               |       |     |     |              |   |  |  |  |  |  |

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| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|------------------|-------|-----|-----|--------------|--|
| 37    | OrderID          | Υ     | 8   | 64  | unsigned int | Exchange Order ID generated by the       |
|       |                  |       |     |     |              | T7 System; it remains constant over      |
|       |                  |       |     |     |              | the lifetime of an order.                |
| 17    | ExecID           | Υ     | 8   | 72  | UTCTimestamp | Transaction timestamp.                   |
| 48    | SecurityID       | Y     | 8   | 80  | signed int   | Instrument identifier.                   |
| 84    | CxIQty           | Y     | 8   | 88  | Qty          | Total quantity cancelled for this order. |
| 151   | LeavesQty        | Y     | 8   | 96  | Qty          | Remaining quantity of an order.          |
| 14    | CumQty           | Υ     | 8   | 104 | Qty          | Cumulated executed quantity of an or-    |
|       |                  |       |     |     |              | der.                                     |
| 1300  | MarketSegmentID  | Y     | 4   | 112 | signed int   | Product identifier.                      |
| 378   | ExecRestatement- | Y     | 2   | 116 | unsigned int | Code to further qualify the field Exec-  |
| 0.0   | Reason           | •     | _   | 110 | unsigned int | Type (150) of the Execution Report       |
|       |                  |       |     |     |              | (8) message.                             |
|       |                  |       |     |     |              |  |
|       |                  |       |     |     |              | Value Description                        |
|       |                  |       |     |     |              | 340 CLIP execution after im-             |
|       |                  |       |     |     |              | provement period                         |
| 30555 | NoLegExecs       | Υ     | 2   | 118 | Counter      | Number of InstrmntLegExec repeat-        |
|       |                  |       |     |     |              | ing group instances.                     |
| 1227  | ProductComplex   | Υ     | 1   | 120 | unsigned int | This field qualifies an instrument type  |
|       |                  |       |     |     |              | on T7.                                   |
|       |                  |       |     |     |              | Value Description                        |
|       |                  |       |     |     |              | 1 Simple instrument                      |
|       |                  |       |     |     |              | 2 Standard Option Strategy               |
|       |                  |       |     |     |              | Non-Standard Option Strat-               |
|       |                  |       |     |     |              | egy                                      |
|       |                  |       |     |     |              | 4 Volatility Strategy                    |
|       |                  |       |     |     |              | 5 Futures Spread                         |
|       |                  |       |     |     |              | 6 Inter-Product Spread                   |
|       |                  |       |     |     |              | 7 Standard Future Strategy               |
|       |                  |       |     |     |              | 8 Pack and Bundle                        |
|       |                  |       |     |     |              | 9 Strip                                  |
|       |                  |       |     |     |              | 11 Commodity Strip                       |
|       |                  |       |     |     |              |  |
| 54    | Side             | Y     | 1   | 121 | unsigned int | Side of the order.                       |
|       |                  |       |     |     |              | Value Description                        |
|       |                  |       |     |     |              | 1 Buy                                    |
|       |                  |       |     |     |              | 2 Sell                                   |
|       |                  |       |     |     |              |  |

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| Tag   | Field Name             | Req'd | Len | Ofs      | Data Type    | Description                               |
|-------|------------------------|-------|-----|----------|--------------|---|
| 39    | OrdStatus              | Υ     | 1   | 122      | char         | Conveys the current status of an or-      |
|       |                        |       |     |          |              | der.                                      |
|       |                        |       |     |          |              | Value Description                         |
|       |                        |       |     |          |              | 4 Cancelled                               |
|       |                        |       |     |          |              | 1 Partially filled                        |
|       |                        |       |     |          |              | 2 Filled                                  |
|       |                        |       |     |          |              |   |
| 150   | ExecType               | Y     | 1   | 123      | char         | The reason why this message was gen-      |
|       |                        |       |     |          |              | erated.                                   |
|       |                        |       |     |          |              | Value Description                         |
|       |                        |       |     |          |              | 4 Cancelled                               |
|       |                        |       |     |          |              | F Trade                                   |
|       |                        |       |     |          |              |   |
| 574   | MatchType              | Υ     | 1   | 124      | unsigned int | The point in the matching process at      |
|       |                        |       |     |          |              | which this trade was matched. The         |
|       |                        |       |     |          |              | value 3 (reporting from recognized        |
|       |                        |       |     |          |              | markets) represents trades entered by     |
|       |                        |       |     |          |              | Market Supervision                        |
|       |                        |       |     |          |              | Value Description                         |
|       |                        |       |     |          |              | 13 Liquidity Improvement Cross            |
|       |                        |       |     |          |              |   |
| 1362  | NoFills                | Y     | 1   | 125      | Counter      | Specifies the number of partial fills in- |
|       |                        |       |     |          |              | cluded in this Execution Report.          |
| 39020 |                        | U     | 2   | 126      | Fixed String | not used                                  |
|       | Grp> Cardinality: 0-10 |       |     |          |              |   |
| 1364  |                        | Y     | 8   | 128      | PriceType    | Price of Fill.                            |
| 1365  |                        | Y     | 8   | 136      | Qty          | Quantity of Fill.                         |
| 28708 | >FillMatchID           | Y     | 4   | 144      | unsigned int | Unique identifier for each price level    |
|       |                        |       |     |          |              | (match step) of a match event; it is      |
|       |                        |       |     |          |              | used for public trade reporting.          |
| 1363  | >FillExecID            | Y     | 4   | 148      | signed int   | Private identifier of an order match      |
|       |                        |       |     |          |              | step event, which can be reconciled       |
|       |                        |       |     |          |              | with the field SideTradelD (1506) in      |
|       |                        |       |     |          |              | the Trade Notification.                   |
| 1443  | >FillLiquidityInd      | N     | 1   | 152      | unsigned int | Indicates whether the order added or      |
|       |                        |       |     |          |              | removed liquidity. Required only for      |
|       |                        |       |     |          |              | execution reports generated for fills.    |
|       |                        |       |     |          |              | Value Description                         |
|       |                        |       |     |          |              | 2 Removed Liquidity                       |
|       |                        |       |     |          |              | 1 Added Liquidity                         |
| 000=  |                        |       |     | <b>4</b> |              |   |
| 39070 | >Pad7                  | U     | 7   | 153      | Fixed String | not used                                  |

| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description                             |  |  |  |
|--|--|-------|-----|-----|--------------|---|--|--|--|
| <instr< td=""><td colspan="9"><instrmntlegexecgrp> Cardinality: 0-600, Record counter: NoLegExecs</instrmntlegexecgrp></td></instr<> | <instrmntlegexecgrp> Cardinality: 0-600, Record counter: NoLegExecs</instrmntlegexecgrp> |       |     |     |              |   |  |  |  |
| 602  | >LegSecurityID   | Y     | 8   | 0   | signed int   | Instrument identifier of the leg secu-  |  |  |  |
|  |  |       |     |     |              | rity.                                   |  |  |  |
| 637  | >LegLastPx   | Y     | 8   | 8   | PriceType    | Price of this leg fill.                 |  |  |  |
| 1418   | >LegLastQty  | Y     | 8   | 16  | Qty          | Quantity executed in this leg fill.     |  |  |  |
| 1893   | >LegExecID   | Y     | 4   | 24  | signed int   | Private identifier of a leg match step, |  |  |  |
|  |  |       |     |     |              | which can be reconciled with the field  |  |  |  |
|  |  |       |     |     |              | SideTradeID (1506) in the Trade No-     |  |  |  |
|  |  |       |     |     |              | tification.                             |  |  |  |
| 624  | >LegSide   | Y     | 1   | 28  | unsigned int | The side of the individual leg of a     |  |  |  |
|  |  |       |     |     |              | strategy as defined in its signature.   |  |  |  |
|  |  |       |     |     |              | Value Description                       |  |  |  |
|  |  |       |     |     |              | 1 Buy                                   |  |  |  |
|  |  |       |     |     |              | 2 Sell                                  |  |  |  |
|  |  |       |     |     |              |   |  |  |  |
| 2421   | >FillRefID   | Υ     | 1   | 29  | unsigned int | Reference to the corresponding Fills-   |  |  |  |
|  |  |       |     |     |              | Grp repeating group instance.           |  |  |  |
| 39020  | >Pad2  | U     | 2   | 30  | Fixed String | not used                                |  |  |  |

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### 11.4 CLIP Delete Request

This message is sent to the service "Order and Quote Management".

**CLIP Delete Request** 



Response to a CLIP Request

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                          |
|---|--------------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa   | geHeaderIn>        |       |     |     |              |                                      |
| 9   | BodyLen            | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|   |                    |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID         | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|   |                    |       |     |     |              | sage layout. Value: 10132 (Cross-    |
|   |                    |       |     |     |              | Request, MsgType = DS)               |
| 25028   | NetworkMsgID       | U     | 8   | 6   | Fixed String | not used                             |
| 39020   | Pad2               | U     | 2   | 14  | Fixed String | not used                             |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>          |       |     |     |              |                                      |
| 34  | MsgSeqNum          | Υ     | 4   | 16  | unsigned int | Message sequence number used by the  |
|   |                    |       |     |     |              | participant for requests sent to the |
|   |                    |       |     |     |              | gateway.                             |
| 50  | SenderSubID        | Υ     | 4   | 20  | unsigned int | User ID.                             |
| < Messa   | geBody>            |       |     |     |              |                                      |
| 37  | OrderID            | Υ     | 8   | 24  | unsigned int | Exchange Order ID generated by the   |
|   |                    |       |     |     |              | T7 System; it remains constant over  |
|   |                    |       |     |     |              | the lifetime of an order.            |
| 48  | SecurityID         | Y     | 8   | 32  | signed int   | Instrument identifier.               |
| 20122   | PartyldInvestment- | N     | 8   | 40  | unsigned int | MiFID field: Investment decision     |
| 20122   | DecisionMaker      | IN    | O   | 40  | unsigned int | within firm (ESMA Field 4 (Section   |
|   |                    |       |     |     |              | A)) is the code used to identify the |
|   |                    |       |     |     |              | person or the algorithm within the   |
|   |                    |       |     |     |              | member or participant of the Trading |
|   |                    |       |     |     |              | Venue who is responsible for the in- |
|   |                    |       |     |     |              | vestment decision.                   |
|   |                    |       |     |     |              | vestifient decision.                 |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type     | Description                              |
|-------|--------------------|-------|-----|-----|---------------|--|
| 25123 | ExecutingTrader    | N     | 8   | 48  | unsigned int  | MiFID field: Executing Trader data       |
|       |                    |       |     |     |               | Field(ESMA Field 5 (Section A))used      |
|       |                    |       |     |     |               | to identify the person or algorithm      |
|       |                    |       |     |     |               | within the member or participant of      |
|       |                    |       |     |     |               | the trading venue who is responsible     |
|       |                    |       |     |     |               | for the execution of the transaction re- |
|       |                    |       |     |     |               | sulting from the order.                  |
|       | MarketSegmentID    | Y     | 4   | 56  | signed int    | Product identifier.                      |
| 2672  | ' '                | N     | 4   | 60  | signed int    | User defined transaction ID.             |
| 25124 | Executing Trader-  | Y     | 1   | 64  | unsigned int  | MiFID field: Qualifier for field         |
|       | Qualifier          |       |     |     |               | ExecutingTrader. It is required to dis-  |
|       |                    |       |     |     |               | tinguish between natural persons and     |
|       |                    |       |     |     |               | Algos.                                   |
|       |                    |       |     |     |               | Value Description                        |
|       |                    |       |     |     |               | 22 Algo                                  |
|       |                    |       |     |     |               | 24 Human/Natural person                  |
|       |                    |       |     |     |               |  |
|       | PartyldInvestment- |       |     |     |               |  |
| 21222 | D colsioniviane    | N     | 1   | 65  | unsigned int  | MiFID field: Qualifier for field Party-  |
|       | Qualifier          |       |     |     |               | IdInvestmentDecisionMaker. Mem-          |
|       |                    |       |     |     |               | bers/participants will have the possi-   |
|       |                    |       |     |     |               | bility to specify an Investment quali-   |
|       |                    |       |     |     |               | fier value to distinguish between nat-   |
|       |                    |       |     |     |               | ural persons and Algos.                  |
|       |                    |       |     |     |               | Value Description                        |
|       |                    |       |     |     |               | 22 Algo                                  |
|       |                    |       |     |     |               | 24 Human/Natural person                  |
| 39060 | Pad6               | U     | 6   | 66  | Fixed String  | not used                                 |
| 39000 | I auu              |       | U   | 00  | Tixed Stillig | not used                                 |

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|--|---------------------------------|
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| Derivatives Message Reference          | Build 111.470.1.ga-111004071-18 |

# 11.5 CLIP Deletion Notification

#### CLIP Deletion Notification

| Tag     | Field Name      | Req'd | Len | Ofs | Data Type    | Description                              |
|---------|-----------------|-------|-----|-----|--------------|--|
| < Messa | geHeaderOut>    |       |     |     |              |  |
| 9       | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-     |
|         |                 |       |     |     |              | cluding this field.                      |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI           |
|         |                 |       |     |     |              | message layout. Value: 10134             |
|         |                 |       |     |     |              | (ExecutionReport, MsgType = 8)           |
| 39020   |                 | U     | 2   | 6   | Fixed String | not used                                 |
|         | leaderME>       |       |     |     | ı            |  |
| 21003   | TrdRegTSTimeOut | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.           |
| 25043   | NotificationIn  | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-     |
|         |                 |       |     |     |              | tification message from the Matching     |
|         |                 |       |     |     |              | Engine                                   |
| 52      | SendingTime     | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by     |
|         |                 |       |     |     |              | the gateway                              |
| 28727   | ApplSubID       | U     | 4   | 32  | unsigned int | not used                                 |
| 5948    | PartitionID     | Y     | 2   | 36  | unsigned int | Grouping of T7 products.                 |
|         |                 |       |     |     |              | Belongs to the scope of Service Avail-   |
|         |                 |       |     |     |              | ability and Retransmit requests.         |
| 28704   | ApplMsgID       | U     | 16  | 38  | data         | not used                                 |
| 1180    | ApplID          | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.       |
|         |                 |       |     |     |              | Value Description                        |
|         |                 |       |     |     |              | 4 Session Data                           |
|         |                 |       |     |     |              |  |
| 1352    | ApplResendFlag  | U     | 1   | 55  | unsigned int | not used                                 |
| 893     | LastFragment    | Y     | 1   | 56  | unsigned int | Indicates whether this message is the    |
|         |                 |       |     |     |              | last fragment (part) of a sequence of    |
|         |                 |       |     |     |              | messages belonging to one dedicated      |
|         |                 |       |     |     |              | transaction.                             |
|         |                 |       |     |     |              | Value Description                        |
|         |                 |       |     |     |              | 1 Last Message                           |
|         |                 |       |     |     |              |  |
| 39070   | Pad7            | U     | 7   | 57  | Fixed String | not used                                 |
| < Messa | geBody>         |       |     |     |              |  |
| 37      | OrderID         | Y     | 8   | 64  | unsigned int | Exchange Order ID generated by the       |
|         |                 |       |     |     |              | T7 System; it remains constant over      |
|         |                 |       |     |     |              | the lifetime of an order.                |
| 17      | ExecID          | Y     | 8   | 72  | UTCTimestamp | Transaction timestamp.                   |
| 48      | SecurityID      | Y     | 8   | 80  | signed int   | Instrument identifier.                   |
| 84      | CxIQty          | Y     | 8   | 88  | Qty          | Total quantity cancelled for this order. |

| Tag  | Field Name                 | Req'd | Len | Ofs | Data Type    | Description  |
|------|----------------------------|-------|-----|-----|--------------|--|
| 1300 | MarketSegmentID            | Y     | 4   | 96  | signed int   | Product identifier.  |
| 378  | ExecRestatement-<br>Reason | Y     | 2   | 100 | unsigned int | Code to further qualify the field Exec-<br>Type (150) of the Execution Report<br>(8) message.              |
|      |                            |       |     |     |              | 343 CLIP Request deleted by arrangement time out  CLIP Request deleted by arrangement arrangement time out |
|      |                            |       |     |     |              | rangement validation  CLIP execution after improvement period  122 Instrument State Change                 |
| 1227 | ProductComplex             | Y     | 1   | 102 | unsigned int | This field qualifies an instrument type on T7.   |
|      |                            |       |     |     |              | Value Description  |
|      |                            |       |     |     |              | 1 Simple instrument  |
|      |                            |       |     |     |              | 2 Standard Option Strategy   |
|      |                            |       |     |     |              | 3 Non-Standard Option Strategy   |
|      |                            |       |     |     |              | 4 Volatility Strategy  |
|      |                            |       |     |     |              | 5 Futures Spread   |
|      |                            |       |     |     |              | 6 Inter-Product Spread   |
|      |                            |       |     |     |              | 7 Standard Future Strategy   |
|      |                            |       |     |     |              | 8 Pack and Bundle  |
|      |                            |       |     |     |              | 9 Strip  |
|      |                            |       |     |     |              | 11 Commodity Strip   |
| E 4  | C: 1-                      |       | 1   | 102 |              | Side of the order.   |
| 54   | Side                       | Y     | 1   | 103 | unsigned int |  |
|      |                            |       |     |     |              | Value Description  |
|      |                            |       |     |     |              | 1 Buy  |
|      |                            |       |     |     |              | 2 Sell   |
| 39   | OrdStatus                  | Y     | 1   | 104 | char         | Conveys the current status of an order.  |
|      |                            |       |     |     |              | Value Description  |
|      |                            |       |     |     |              | 4 Cancelled  |
|      |                            |       |     |     |              |  |

| Tag   | Field Name | Req'd | Len | Ofs | Data Type    | Description                                |
|-------|------------|-------|-----|-----|--------------|--|
| 150   | ExecType   | Y     | 1   | 105 | char         | The reason why this message was generated. |
|       |            |       |     |     |              | Value Description                          |
|       |            |       |     |     |              | 4 Cancelled                                |
|       |            |       |     |     |              | F Trade                                    |
|       |            |       |     |     |              |  |
| 39060 | Pad6       | U     | 6   | 106 | Fixed String | not used                                   |

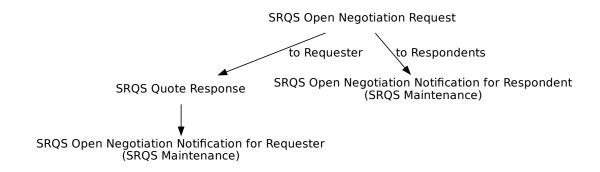
| Deutsche Börse Group's T7 Release 11.1 |
|--|
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| Derivatives Message Reference          |

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### 12 Selective Request for Quote Service

#### 12.1 SRQS Open Negotiation Request

By submitting this message the requester (typically a broker) sends a RfQ (request for quotes) to targeted respondents (market makers). Bid Price (132) and Offer (Ask) Price (133) in the SRQS Negotiation are used by the requester to provide indicative prices to selected respondents in order to receive from them quotes within these indicative prices. No validation is done on these prices with respect to the side (54) of the SRQS Negotiation. This message is sent to the service "Selective Request for Quote Service".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                          |
|---|--------------|-------|-----|-----|--------------|--------------------------------------|
| < Messa   | geHeaderIn>  |       |     |     |              |                                      |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |
|   |              |       |     |     |              | cluding this field.                  |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|   |              |       |     |     |              | sage layout. Value: 10700 (Quote-    |
|   |              |       |     |     |              | Request,MsgType=R)                   |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                             |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                             |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>    |       |     |     |              |                                      |
| 34  | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |
|   |              |       |     |     |              | participant for requests sent to the |
|   |              |       |     |     |              | gateway.                             |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                             |
| < Messa   | geBody>      |       |     |     |              |                                      |
| 48  | SecurityID   | N     | 8   | 24  | signed int   | Instrument identifier.               |
| 132   | BidPx        | N     | 8   | 32  | PriceType    | Bid price/rate.                      |
| 133   | OfferPx      | N     | 8   | 40  | PriceType    | Offer price/rate.                    |
| 38  | OrderQty     | N     | 8   | 48  | Qty          | Open/total quantity of the SRQS ne-  |
|   |              |       |     |     |              | gotiation.                           |

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| 28759   QuoteRefPrice   N   8   56   PriceType   Depending upon Negotiation worl flow this price can either be a reference price or an underlying price  | Tag   | Field Name            | Req'd | Len | Ofs | Data Type      | Description                            |
|--|-------|-----------------------|-------|-----|-----|----------------|--|
| UnderlyingDelta-Percentage   | 28759 | QuoteRefPrice         | N     | 8   | 56  | PriceType      | Depending upon Negotiation work-       |
| Description    |       |                       |       |     |     |                | flow this price can either be a refer- |
| Percentage    N   8   04   floatDecimal   The effective underlying delta of Vola-Strategy  |       |                       |       |     |     |                | ence price or an underlying price      |
| Percentage  62 ValidUntilTime  N  8 72 UTCTimestamp  Time until an entity is valid.  762 SecuritySubType  N  4 84 signed int  Sub-type qualification/identification of the SecurityType  Value Description  Indicative (for Continuou Auction Issuer trading mode and Eurex/Xetra Entligh only)  1 Tradeable  28786 QuoteSubType  N  1 89 unsigned int  Value Description  Indicative (for Continuou Auction Issuer trading mode and Eurex/Xetra Entligh only)  1 Tradeable  Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiate the underlying out side the exchange  Option Volatility Strategy with fixed Underlying price and delta  Option Volatility Strategy  6 Underlying price is negotiated on exchange  555 NoLegs  N  1 90 Counter  Number of QuoteReqLegs repeating group instances.  NoTargetPartyIDs  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiate the underlying out side the exchange  Option Volatility Strategy with fixed Underlying price and delta  Option Volatility Strategy is negotiated on exchange  555 NoLegs  N  1 90 Counter  Number of QuoteReqLegs repeating group instances.  N  NoTargetPartyIDs  V 1 91 Counter  Number of TargetParties records.  NumberOffResp- DisclosureInstruction  N  1 Pozonter  Number of Respondents in an EnLight event.   | 25149 | UnderlyingDelta-      | N     | 8   | 64  | float Decimal4 | The effective underlying delta of a    |
| 62 ValidUntiTime   |       | Percentage            |       |     | • • |                |  |
| SecuritySubType  | 62    | ValidUntilTime        | N     | 8   | 72  | UTCTimestamp   |  |
| Sample   S | 1300  | MarketSegmentID       | Υ     | 4   | 80  | signed int     | Product identifier.                    |
| Sample   Namber Of Respondents   Namber Of Respondents in an EnLight event.  | 762   | SecuritySubType       | N     | 4   | 84  | signed int     | Sub-type qualification/identification  |
| Value   Description   Indicative (for Continuou of Auction Issuer trading mode and Eurex/Xetra EnLigh only)   1 Tradeable  |       |                       |       |     |     |                | of the SecurityType                    |
| Indicative (for Continuou Auction Issuer trading mode and Eurex/Xetra EnLigh only)   1 Tradeable   | 537   | QuoteType             | N     | 1   | 88  | unsigned int   | Quote Type                             |
| 28786 QuoteSubType N 1 89 unsigned int Sub-type of QuoteType  Value Description  1 Working Delta 2 Basis Trade 3 Regular LDS Negotiation 4 Negotiate the underlying out side the exchange Option Volatility Strategy 5 with fixed Underlying price and delta Option Volatility Strategy 6 Underlying price is negotiated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction N 1 92 unsigned int Instruction to show total number of Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                | Value Description                      |
| 28786 QuoteSubType N 1 89 unsigned int Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying out side the exchange  Option Volatility Strategy  6 Underlying price and delta  Option Volatility Strategy  6 Underlying price is negotiated on exchange  1461 NoTargetPartyIDs Y 1 91 Counter Number of QuoteReqLegs repeating group instances.  NumberOfResp-DisclosureInstruction  N 1 92 unsigned int Instruction to show total number of Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                | Indicative (for Continuous             |
| and Eurex/Xetra EnLigh only)  1 Tradeable  28786 QuoteSubType  N 1 89 unsigned int  Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying out side the exchange  Option Volatility Strategy  5 with fixed Underlying price and delta  Option Volatility Strategy  6 Underlying price is negotiated on exchange  555 NoLegs  N 1 90 Counter  Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs  Y 1 91 Counter  Number of TargetParties records.  NumberOfResp-DisclosureInstruction  N 1 92 unsigned int  Number of Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                | Auction Issuer trading model           |
| 28786 QuoteSubType  N 1 89 unsigned int  Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying out side the exchange  Option Volatility Strategy  with fixed Underlying price and delta  Option Volatility Strategy  Underlying price is negoti ated on exchange  555 NoLegs  N 1 90 Counter  Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs  Y 1 91 Counter  Number of TargetParties records.  NumberOfResp-DisclosureInstruction  N 1 92 unsigned int  Instruction to show total number of Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                |  |
| 28786 QuoteSubType  N 1 89 unsigned int  Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  Negotiate the underlying out side the exchange  Option Volatility Strategy  with fixed Underlying price and delta  Option Volatility Strategy  for Underlying price is negotiated on exchange  The property of QuoteReqLegs repeating group instances.  Number of QuoteReqLegs repeating group instances.  Number of TargetParties records.  Number of TargetParties records.  Number of Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                | only)                                  |
| Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying out side the exchange  Option Volatility Strategy  5 with fixed Underlying price and delta  Option Volatility Strategy  6 Underlying price is negotiated on exchange  555 NoLegs  N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs  Y 1 91 Counter Number of TargetParties records.  Number of TargetParties records.  Number of TargetParties records.  Number of Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                | 1 Tradeable                            |
| Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying out side the exchange  Option Volatility Strategy  5 with fixed Underlying price and delta  Option Volatility Strategy  6 Underlying price is negotiated on exchange  555 NoLegs  N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs  Y 1 91 Counter Number of TargetParties records.  Number of TargetParties records.  Number of TargetParties records.  Number of Respondents in an EnLight event.  Value Description   | 20706 | 0.1.617               | N.    | 1   | 90  |                | Cub towns of OvertaTime                |
| 1 Working Delta 2 Basis Trade 3 Regular LDS Negotiation 4 Negotiate the underlying out side the exchange Option Volatility Strategy with fixed Underlying price and delta Option Volatility Strategy Underlying price is negotiated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  Number of TargetParties records.  Number of TargetParties records.  Number of TargetParties records.  Number of Respondents in an EnLight event.  | 28780 | QuoteSubType          | IN    | 1   | 89  | unsigned int   |  |
| 2 Basis Trade 3 Regular LDS Negotiation 4 Negotiate the underlying out side the exchange Option Volatility Strategy 5 with fixed Underlying price and delta Option Volatility Strategy 6 Underlying price is negotiated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                |  |
| 3   Regular LDS Negotiation   4   Negotiate the underlying out side the exchange   Option Volatility Strategy   5   with fixed Underlying price and delta   Option Volatility Strategy   6   Underlying price is negotiated on exchange      555   NoLegs  |       |                       |       |     |     |                |  |
| 4 Negotiate the underlying out side the exchange Option Volatility Strategy with fixed Underlying price and delta Option Volatility Strategy 6 Underlying price is negoti ated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                |  |
| 4   side the exchange   Option Volatility Strategy   5   with fixed Underlying price and delta   Option Volatility Strategy   6   Underlying price is negoti ated on exchange   Option Volatility Strategy   6   Underlying price is negoti ated on exchange   Option Volatility Strategy   6   Underlying price is negoti ated on exchange   Option Volatility Strategy   6   Underlying price is negoti ated on exchange   Option Volatility Strategy   6   Underlying price is negoti ated on exchange   Option Volatility Strategy   Option Volatili |       |                       |       |     |     |                |  |
| Option Volatility Strategy with fixed Underlying price and delta Option Volatility Strategy 6 Underlying price is negoti ated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeatin group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp- DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                | 4                                      |
| 5 with fixed Underlying price and delta   Option Volatility Strategy 6 Underlying price is negoti ated on exchange   |       |                       |       |     |     |                |  |
| and delta Option Volatility Strategy Underlying price is negoti ated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction Number of TargetParties records.  NumberOfResp-DisclosureInstruction Number of TargetParties records.  Value Description  |       |                       |       |     |     |                |  |
| Option Volatility Strategy 6 Underlying price is negotive ated on exchange  555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction N 1 92 Unsigned int Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                |  |
| 555 NoLegs  N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs  N 1 91 Counter Number of TargetParties records.  NumberOfResp-DisclosureInstruction  N 1 92 unsigned int Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                |  |
| ated on exchange     ated on exchange       ated on exchange   |       |                       |       |     |     |                |  |
| 555 NoLegs N 1 90 Counter Number of QuoteReqLegs repeating group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  25145 NumberOfResp-DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description   |       |                       |       |     |     |                |  |
| group instances.  1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  25145 NumberOfResp-DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                | acca on exenange                       |
| 1461 NoTargetPartyIDs Y 1 91 Counter Number of TargetParties records.  25145 NumberOfResp-DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description  | 555   | NoLegs                | N     | 1   | 90  | Counter        | Number of QuoteReqLegs repeating       |
| 25145 NumberOfResp- DisclosureInstruction N 1 92 unsigned int Respondents in an EnLight event.  Value Description  |       |                       |       |     |     |                | group instances.                       |
| DisclosureInstruction  N 1 92 unsigned int Instruction to show total number of Respondents in an EnLight event.  Value Description   | 1461  | NoTargetPartyIDs      | Y     | 1   | 91  | Counter        | Number of TargetParties records.       |
| DisclosureInstruction  Respondents in an EnLight event.  Value Description   | 25145 | -                     | N     | 1   | 92  | unsigned int   | Instruction to show total number of    |
| Value Description  |       | DisclosureInstruction |       | _   | "-  | anoigned in    |  |
|  |       |                       |       |     |     |                |  |
|  |       |                       |       |     |     |                |  |
| 1 Yes  |       |                       |       |     |     |                |  |
| 1 Yes  |       |                       |       |     |     |                | 1   Yes                                |

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| Tag   | Field Name                              | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|---|-------|-----|-----|--------------|---|
| 54    | Side                                    | N     | 1   | 93  | unsigned int | Side of the order.                      |
|       |   |       |     |     |              | Value Description                       |
|       |   |       |     |     |              | 1 Buy                                   |
|       |   |       |     |     |              | 2 Sell                                  |
|       |   |       |     |     |              |   |
| 1227  | ProductComplex                          | N     | 1   | 94  | unsigned int | This field qualifies an instrument type |
|       |   |       |     |     |              | on T7.                                  |
|       |   |       |     |     |              | Value Description                       |
|       |   |       |     |     |              | 1 Simple instrument                     |
|       |   |       |     |     |              | 2 Standard Option Strategy              |
|       |   |       |     |     |              | Non-Standard Option Strat-              |
|       |   |       |     |     |              | egy                                     |
|       |   |       |     |     |              | 4 Volatility Strategy                   |
|       |   |       |     |     |              | 5 Futures Spread                        |
|       |   |       |     |     |              | 6 Inter-Product Spread                  |
|       |   |       |     |     |              | 7 Standard Future Strategy              |
|       |   |       |     |     |              | 8 Pack and Bundle                       |
|       |   |       |     |     |              | 9 Strip                                 |
|       |   |       |     |     |              | 11 Commodity Strip                      |
| 1172  | RespondentType                          | N     | 1   | 95  | unsigned int | Specifies the type of respondents re-   |
|       | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |       |     |     | S            | quested.                                |
|       |   |       |     |     |              | Value Description                       |
|       |   |       |     |     |              | Respondents are known dur-              |
|       |   |       |     |     |              | ing a negotiation                       |
|       |   |       |     |     |              | Respondents are anonymized              |
|       |   |       |     |     |              | after negotiation start, Re-            |
|       |   |       |     |     |              | quester will remain anony-              |
|       |   |       |     |     |              | mous from start                         |
|       | CI I 10 10                              |       |     |     |              |   |
| 25194 | ShowLastDealOn-                         | N     | 1   | 96  | unsigned int | Instruction to show last deal informa-  |
|       | Closure                                 |       |     |     |              | tion after negotiation closure          |
|       |   |       |     |     |              | Value Description                       |
|       |   |       |     |     |              | 0 No                                    |
|       |   |       |     |     |              | 1 Yes                                   |
|       |   |       |     |     |              |   |
| 25206 | BidPxIsLocked                           | N     | 1   | 97  | unsigned int | BidPx is locked.                        |
|       |   |       |     |     |              | Value Description                       |
|       |   |       |     |     |              | 0 No                                    |
|       |   |       |     |     |              | 1 Yes                                   |
|       |   |       |     |     |              |   |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|----------------------|-------|-----|-----|--------------|--|
| 25207 | OfferPxIsLocked      | N     | 1   | 98  | unsigned int | OfferPx is locked.                       |
|       |                      |       |     |     |              | Value Description                        |
|       |                      |       |     |     |              | 0 No                                     |
|       |                      |       |     |     |              | 1 Yes                                    |
|       |                      |       |     |     |              |  |
| 25208 | SidelsLocked         | N     | 1   | 99  | unsigned int | Side is locked.                          |
|       |                      |       |     |     |              | Value Description                        |
|       |                      |       |     |     |              | 0 No                                     |
|       |                      |       |     |     |              | 1 Yes                                    |
| 25209 | OrderQtylsLocked     | N     | 1   | 100 | unsigned int | OrderQty is locked.                      |
| 23209 | OrderQtyIsLocked     | IN    | 1   | 100 | unsigned int |  |
|       |                      |       |     |     |              | Value Description                        |
|       |                      |       |     |     |              | 0 No                                     |
|       |                      |       |     |     |              | 1 Yes                                    |
|       | TradeAggregation-    |       |     |     |              |  |
| 2788  | TransType            | N     | 1   | 101 | unsigned int | Trade Aggregation Identifier.            |
|       |                      |       |     |     |              | Value Description                        |
|       |                      |       |     |     |              | 0 New                                    |
| 276   | 0 . 6 . 11.1         | Y     | 1   | 100 | -1 -         | State and the second                     |
| 276   | QuoteCondition       | Y     | 1   | 102 | char         | Status of the quote.                     |
|       |                      |       |     |     |              | Value Description                        |
|       |                      |       |     |     |              | A Active                                 |
|       |                      |       |     |     |              | z Suspended                              |
| 22001 | PartyExecutingFirm   | Y     | 5   | 103 | Fixed String | Owning business unit name.               |
|       | r drey Excedemignim  |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |
| 22012 | PartyExecutingTrader | Υ     | 6   | 108 | Fixed String | Owning user name.                        |
|       |                      |       |     |     | _            | Valid characters: A-Z, 0-9, \x20         |
| 25172 | FreeText5            | N     | 132 | 114 | Fixed String | Text field                               |
|       |                      |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 131   | QuoteReqID           | N     | 20  | 246 | Fixed String | SRQS negotiation report ID               |
|       | D . O .              |       |     |     |              | Valid characters: \x01-\x7E              |
| 22011 | PartyOrder-          | N     | 132 | 266 | Fixed String | Buy-side user information                |
|       | OriginationTrader    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25225 | ChargeID             | N     | 132 | 398 | Fixed String | Charge ID of Third Party Platform.       |
|       |                      |       |     |     |              | Valid characters: \x20, \x22-\x7B,       |
|       |                      |       |     |     |              | \x7D, \x7E                               |

| Tag   | Field Name                           | Req'd     | Len    | Ofs        | Data Type         | Description                             |
|---|--------------------------------------|-----------|--------|------------|-------------------|---|
| 39060   |                                      | U         | 6      | 530        | Fixed String      | not used                                |
| <quo:< td=""><td>tReqLegsGrp&gt; Cardinali</td><td>ty: 0-2</td><td>0, Rec</td><td>ord co</td><td>unter: NoLegs</td><td></td></quo:<>            | tReqLegsGrp> Cardinali               | ty: 0-2   | 0, Rec | ord co     | unter: NoLegs     |   |
| 602   | >LegSecurityID                       | Υ         | 8      | 536        | signed int        | Instrument identifier of the leg secu-  |
|   |                                      |           |        |            |                   | rity.                                   |
| 623   | >LegRatioQty                         | N         | 4      | 544        | unsigned int      | The ratio of quantity for this individ- |
|   |                                      |           |        |            |                   | ual leg relative to the entire multileg |
| 500   |                                      |           |        | <b>540</b> |                   | security.                               |
| 600   | 0 7                                  | N         | 4      | 548        | signed int        | Product identifier of the leg security  |
| 609   | >LegSecurityType                     | Y         | 1      | 552        | unsigned int      | Indicates type of leg.                  |
|   |                                      |           |        |            |                   | Value Description                       |
|   |                                      |           |        |            |                   | 1 Multileg Instrument                   |
|   |                                      |           |        |            |                   | 2 Underlying Leg                        |
| 624   | >LegSide                             | N         | 1      | 553        | unsigned int      | The side of the individual leg of a     |
| 02.   | 2 2080140                            |           | _      |            | a8a               | strategy as defined in its signature.   |
|   |                                      |           |        |            |                   | Value Description                       |
|   |                                      |           |        |            |                   | 1 Buy                                   |
|   |                                      |           |        |            |                   | 2 Sell                                  |
|   |                                      |           |        |            |                   | 2   3611                                |
| 39060   | >Pad6                                | U         | 6      | 554        | Fixed String      | not used                                |
| <targ< td=""><td>etParties&gt; Cardinality:</td><td>0 - 50, R</td><td>Record</td><td>counte</td><td>er: NoTargetParty</td><td>/IDs</td></targ<> | etParties> Cardinality:              | 0 - 50, R | Record | counte     | er: NoTargetParty | /IDs                                    |
| 20612   | >TargetParty-<br>IDExecutingTrader   | U         | 4      | 0          | unsigned int      | not used                                |
| 25130   | >SideDisclosure-                     | Y         | 1      | 4          | unsigned int      | Instruction to show side.               |
|   | Instruction                          |           |        |            |                   | Value Description                       |
|   |                                      |           |        |            |                   | 0 No                                    |
|   |                                      |           |        |            |                   | 1 Yes                                   |
|   |                                      |           |        |            |                   |   |
| 25131   | >PriceDisclosure-                    | Y         | 1      | 5          | unsigned int      | Instruction to show price.              |
|   |                                      |           |        |            |                   | Value Description                       |
|   |                                      |           |        |            |                   | 0 No                                    |
|   |                                      |           |        |            |                   | 1 Yes                                   |
|   | > 1O+                                |           |        |            |                   |   |
| 25137   | >LeavesQty-<br>DisclosureInstruction | Y         | 1      | 6          | unsigned int      | Instruction to show leaves quantity.    |
|   | Disclosurems (I uction)              |           |        |            |                   | Value Description                       |
|   |                                      |           |        |            |                   | 0 No                                    |
|   |                                      |           |        |            |                   | 1 Yes                                   |
|   |                                      |           |        |            |                   |   |
| 25146   | >LastPxDisclosure-                   | U         | 1      | 7          | unsigned int      | not used                                |
|   | Instruction                          |           |        |            |                   |   |

| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |  |
|-------|---|-------|-----|-----|--------------|---|--|
| 25147 | >LastQtyDisclosure-<br>Instruction                    | U     | 1   | 8   | unsigned int | not used  |  |
| 31814 | >Free-<br>Text5Disclosure-<br>Instruction             | Y     | 1   | 9   | unsigned int | Instruction to show FreeText5  Value Description  0 No  1 Yes                 |  |
| 25190 | >PartyOrder-<br>OriginationDisclosure-<br>Instruction | Y     | 1   | 10  | unsigned int | Instruction to show buy-side user information  Value Description  0 No  1 Yes |  |
| 25138 | >QuoteInstruction                                     | U     | 1   | 11  | unsigned int | not used  |  |
| 25226 | >ChargeIDDisclosure-<br>Instruction                   | Y     | 1   | 12  | unsigned int | Instruction to show Charge ID.  Value Description  0 No  1 Yes                |  |
| 22601 | >TargetParty-<br>ExecutingFirm                        | Y     | 5   | 13  | Fixed String | Name of target business unit.  Valid characters: A-Z, 0-9, \x20               |  |
| 22602 | >TargetParty-<br>ExecutingTrader                      | Y     | 6   | 18  | Fixed String | Name of target user/trader. Valid characters: A-Z, 0-9, \x20                  |  |
| 1672  | >PartyDetailStatus                                    | U     | 1   | 24  | unsigned int | not used  |  |
| 25185 | >PartyDetailStatus-<br>Information                    | U     | 1   | 25  | unsigned int | not used  |  |
| 39060 | >Pad6   | U     | 6   | 26  | Fixed String | not used  |  |

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### 12.2 SRQS Inquire Smart Respondent Request

This message is used to inquire all smart respondents for a XetraEnLight negotiation. This message is sent to the service "Selective Request for Quote Service".

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                                      |
|---|--------------------|-------|-----|-----|--------------|--|
| <messa<sub>k</messa<sub>  | geHeaderIn>        |       |     |     |              |  |
| 9   | BodyLen            | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-             |
|   |                    |       |     |     |              | cluding this field.                              |
| 28500   | TemplateID         | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-              |
|   |                    |       |     |     |              | sage layout. Value: 10718 (Party-                |
|   |                    |       |     |     |              | ${\sf DetailsListRequest,\ MsgType} = {\sf CF)}$ |
| 25028   | NetworkMsgID       | U     | 8   | 6   | Fixed String | not used   |
| 39020   | Pad2               | U     | 2   | 14  | Fixed String | not used   |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>          |       |     |     |              |  |
| 34  | MsgSeqNum          | Y     | 4   | 16  | unsigned int | Message sequence number used by the              |
|   |                    |       |     |     |              | participant for requests sent to the             |
|   |                    |       |     |     |              | gateway.   |
| 50  | SenderSubID        | Y     | 4   | 20  | unsigned int | User ID.   |
| < Messa   | geBody>            |       |     |     |              |  |
| 1300  | MarketSegmentID    | Y     | 4   | 24  | signed int   | Product identifier.                              |
| 25176   | EurexVolumeRanking | Y     | 1   | 28  | unsigned int | Eurex Volume Ranking                             |
|   |                    |       |     |     |              | Value Description                                |
|   |                    |       |     |     |              | 1 Low  |
|   |                    |       |     |     |              | 2 Medium   |
|   |                    |       |     |     |              | 3 High   |
|   |                    |       |     |     |              |  |
| 25177   | EnlightRFQAvgResp- | Y     | 1   | 29  | unsigned int | Enlight RFQ Average Response Time                |
| 23111   | TimeRanking        | '     | _   | 23  | unsigned int | Ranking  |
|   |                    |       |     |     |              |  |
|   |                    |       |     |     |              | Value Description                                |
|   |                    |       |     |     |              | 1 Low  |
|   |                    |       |     |     |              | 2 Medium   |
|   |                    |       |     |     |              | 3 High   |
|   | EnlightRFQAvgResp- |       |     |     |              |  |
| 25178   | RateRanking        | Y     | 1   | 30  | unsigned int | Enlight RFQ Average Response Rate                |
|   | Materialikilig     |       |     |     |              | Ranking  |
|   |                    |       |     |     |              | Value Description                                |
|   |                    |       |     |     |              | 1 Low  |
|   |                    |       |     |     |              | 2 Medium   |
|   |                    |       |     |     |              | 3 High   |
|   |                    |       |     |     |              |  |

| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Descri  | ption                        |
|-------|-------------------------------|-------|-----|-----|--------------|---------|------------------------------|
| 25179 | TradeToQuoteRatio-<br>Ranking | Υ     | 1   | 31  | unsigned int | Trade 1 | to Quote Ratio (TQR) Ranking |
|       |                               |       |     |     |              | Value   | Description                  |
|       |                               |       |     |     |              | 1       | Low                          |
|       |                               |       |     |     |              | 2       | Medium                       |
|       |                               |       |     |     |              | 3       | High                         |
|       |                               |       |     |     |              |         |                              |

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### 12.3 SRQS Inquire Smart Respondent Response

This message informs about all smart respondents for a XetraEnLight negotiation.

| Tag  | Field Name             | Req'd      | Len     | Ofs    | Data Type        | Description                                     |
|--|------------------------|------------|---------|--------|------------------|---|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<>   | geHeaderOut>           |            |         |        |                  |   |
| 9  | BodyLen                | Υ          | 4       | 0      | unsigned int     | Number of bytes for the message, in-            |
|  |                        |            |         |        |                  | cluding this field.                             |
| 28500  | TemplateID             | Υ          | 2       | 4      | unsigned int     | Unique identifier for a T7 ETI mes-             |
|  |                        |            |         |        |                  | sage layout. Value: 10719 (Party-               |
|  |                        |            |         |        |                  | ${\sf DetailsListReport,\ MsgType} = {\sf CG)}$ |
| 39020  | Pad2                   | U          | 2       | 6      | Fixed String     | not used  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<>   | nseHeader>             |            |         |        |                  |   |
| 5979   | RequestTime            | Y          | 8       | 8      | UTCTimestamp     | Gateway request in timestamp.                   |
| 52   | SendingTime            | Y          | 8       | 16     | UTCTimestamp     | Outgoing timestamp; filled always by            |
|  |                        |            |         |        |                  | the gateway                                     |
| 34   | MsgSeqNum              | Y          | 4       | 24     | unsigned int     | Message sequence number used by the             |
|  |                        |            |         |        |                  | participant for requests sent to the            |
|  |                        |            |         |        |                  | gateway.  |
| 39040  | Pad4                   | U          | 4       | 28     | Fixed String     | not used  |
| < Messa  | geBody>                |            |         |        |                  |   |
| 1300   | MarketSegmentID        | Y          | 4       | 32     | signed int       | Product identifier.                             |
| 1671   | NoPartyDetails         | Y          | 2       | 36     | Counter          | Number of PartyDetailsGrp repeating             |
|  |                        |            |         |        |                  | group   |
| 39020  | Pad2                   | U          | 2       | 38     | Fixed String     | not used  |
| <sma< td=""><td>rtPartyDetailGrp&gt; Card</td><td>inality: (</td><td>0 - 100</td><td>0, Rec</td><td>ord counter: NoP</td><td>artyDetails</td></sma<> | rtPartyDetailGrp> Card | inality: ( | 0 - 100 | 0, Rec | ord counter: NoP | artyDetails                                     |
| 22259  | >PartyDetail-          | Y          | 5       | 40     | Fixed String     | Detail BusinessUnit name                        |
| 22239  | ExecutingUnit          | '          | 3       | 40     | Tixed String     | Valid characters: A-Z, 0-9, \x20                |
|  | >PartyDetail-          |            |         |        |                  | ·   |
| 22212  | ExecutingTrader        | Y          | 6       | 45     | Fixed String     | Trader Name                                     |
|  | Exceeding Hadel        |            |         |        |                  | Valid characters: $\x20$ , $\x22-\x7B$ ,        |
|  |                        |            |         |        |                  | \x7D, \x7E                                      |
| 39050  | >Pad5                  | U          | 5       | 51     | Fixed String     | not used  |

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# 12.4 SRQS Quote Response

This message confirms SRQS Open Negotiation, SRQS Update Negotiation and SRQS Enter Quote requests.

| Tag  | Field Name    | Req'd | Len | Ofs | Data Type    | Description                          |  |  |
|--|---------------|-------|-----|-----|--------------|--------------------------------------|--|--|
| <messageheaderout></messageheaderout>  |               |       |     |     |              |                                      |  |  |
| 9  | BodyLen       | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |
|  |               |       |     |     |              | cluding this field.                  |  |  |
| 28500  | TemplateID    | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |
|  |               |       |     |     |              | sage layout. Value: 10703 (Quote-    |  |  |
|  |               |       |     |     |              | Ack,MsgType=CW)                      |  |  |
| 39020  | Pad2          | U     | 2   | 6   | Fixed String | not used                             |  |  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeader>    |       |     |     |              |                                      |  |  |
| 5979   | RequestTime   | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.        |  |  |
| 52   | SendingTime   | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by |  |  |
|  |               |       |     |     |              | the gateway                          |  |  |
| 34   | MsgSeqNum     | Y     | 4   | 24  | unsigned int | Message sequence number used by the  |  |  |
|  |               |       |     |     |              | participant for requests sent to the |  |  |
|  |               |       |     |     |              | gateway.                             |  |  |
| 39040  | Pad4          | U     | 4   | 28  | Fixed String | not used                             |  |  |
| < Messa  | geBody>       |       |     |     |              |                                      |  |  |
| 117  | QuoteID       | N     | 8   | 32  | unsigned int | System defined quote identifier.     |  |  |
| 28758  | NegotiationID | Y     | 4   | 40  | unsigned int | ID of a SRQS negotiation             |  |  |
| 131  | QuoteReqID    | N     | 20  | 44  | Fixed String | SRQS negotiation report ID           |  |  |
|  |               |       |     |     |              | Valid characters: \x01-\x7E          |  |  |

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### 12.5 SRQS Quote Snapshot Notification

This message informs about SRQS quote book information.

| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description                            |
|--|----------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderOut>   |       |     |     |              |  |
| 9  | BodyLen        | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|  |                |       |     |     |              | cluding this field.                    |
| 28500  | TemplateID     | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|  |                |       |     |     |              | sage layout. Value: 10723 (Mass-       |
|  |                |       |     |     |              | Quote,MsgType=i)                       |
| 39020  | Pad2           | U     | 2   | 6   | Fixed String | not used                               |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<>        | leader>        |       |     |     |              |  |
| 52   | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |
|  |                |       |     |     |              | the gateway                            |
| 1181   | ApplSeqNum     | U     | 8   | 16  | unsigned int | not used                               |
| 28727  | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |
|  |                |       |     |     |              | during broadcast subscription in order |
|  |                |       |     |     |              | to link broadcasts to the related sub- |
|  |                |       |     |     |              | scription.                             |
| 5948   | PartitionID    | U     | 2   | 28  | unsigned int | not used                               |
| 1352   | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |
|  |                |       |     |     |              | Value Description                      |
|  |                |       |     |     |              | 0 False                                |
|  |                |       |     |     |              | 1 True                                 |
|  |                |       |     |     |              |  |
| 1180   | AppIID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |
|  |                |       |     |     |              | Value Description                      |
|  |                |       |     |     |              | 9 SRQS Maintenance                     |
|  |                |       |     |     |              |  |
| 893  | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |
|  |                |       |     |     |              | last fragment (part) of a sequence of  |
|  |                |       |     |     |              | messages belonging to one dedicated    |
|  |                |       |     |     |              | transaction.                           |
|  |                |       |     |     |              | Value Description                      |
|  |                |       |     |     |              | 0 Not Last Message                     |
|  |                |       |     |     |              | 1 Last Message                         |
|  |                |       |     |     |              |  |
| 39070  |                | U     | 7   | 33  | Fixed String | not used                               |
|  | geBody>        |       |     |     |              |  |
| 295  | NoQuoteEntries | N     | 1   | 40  | Counter      | The number of quote entries for a      |
|  |                |       |     |     |              | Mass Quote.                            |

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| Tag   | Field Name                            | Req'd | Len | Ofs      | Data Type     | Description                            |
|-------|---------------------------------------|-------|-----|----------|---------------|--|
| 1011  | MessageEventSource                    | Y     | 1   | 41       | char          | Receiver of a message.                 |
|       |                                       |       |     |          |               | Value Description                      |
|       |                                       |       |     |          |               | R Broadcast to requestor               |
|       |                                       |       |     |          |               | Q Broadcast to quote submitter         |
|       |                                       |       |     |          |               |  |
| 39060 |                                       | U     | 6   | 42       | Fixed String  | not used                               |
|       | SQuoteEntryGrp> Card                  | 1     |     | <u>.</u> |               |  |
|       | >TransactTime                         | Y     | 8   | 48       | UTCTimestamp  | Transaction timestamp.                 |
| 126   | ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | N     | 8   | 56       | UTCTimestamp  | Time an entity expires.                |
| 117   | >QuoteID                              | N     | 8   | 64       | unsigned int  | Customer defined mass quote identi-    |
| 1751  |                                       |       |     |          |               | fier.                                  |
| 1751  | , ,                                   | U     | 8   | 72       | unsigned int  | not used                               |
| 132   |                                       | N     | 8   | 80       | PriceType     | Bid price/rate.                        |
| 134   |                                       | N     | 8   | 88       | Qty           | Quantity of bid.                       |
| 133   | >OfferPx                              | N     | 8   | 96       | PriceType     | Offer price/rate.                      |
| 135   | >OfferSize                            | N     | 8   | 104      | Qty           | Quantity of offer.                     |
| 810   | >UnderlyingPx                         | N     | 8   | 112      | PriceType     | Underlying price associated with a     |
|       |                                       |       |     |          |               | derivative instrument.                 |
| 25149 | >UnderlyingDelta-                     | N     | 8   | 120      | floatDecimal4 | The effective underlying delta of a    |
|       | Percentage                            |       |     |          |               | Vola-Strategy                          |
| 28759 | >QuoteRefPrice                        | N     | 8   | 128      | PriceType     | Depending upon Negotiation work-       |
|       | ,                                     |       |     |          | , ,           | flow this price can either be a refer- |
|       |                                       |       |     |          |               | ence price or an underlying price      |
| 00010 | >PartyIDExecuting-                    | N.    |     | 100      |               |  |
| 20012 | Trader                                | N     | 4   | 136      | unsigned int  | Anonymous SmartRFQ user ID             |
| 28758 | >NegotiationID                        | Y     | 4   | 140      | unsigned int  | ID of a SRQS negotiation               |
| 28787 | >QuotingStatus                        | U     | 1   | 144      | unsigned int  | not used                               |
| 28762 | >FirmNegotiationID                    | N     | 20  | 145      | Fixed String  | User defined ID of a SRQS negotiation  |
|       |                                       |       |     |          |               | Valid characters: \x01-\x7E            |
| 22001 | >PartyExecutingFirm                   | N     | 5   | 165      | Fixed String  | Owning business unit name.             |
|       |                                       |       |     |          |               | Valid characters: A-Z, 0-9, \x20       |
| 22012 | >PartyExecuting-                      | N     | 6   | 170      | Fixed String  | Owning user name.                      |
| 22012 | Trader                                | IN    | 0   | 170      | I ixed String | Valid characters: A-Z, 0-9, \x20       |
| 22026 | >PartyEnteringTrader                  | N     | 6   | 176      | Fixed String  | The entering user                      |
| 22036 | >rarty⊑ntering Frader                 | IN    | 0   | 1/0      | rixed String  | Valid characters: A-Z, 0-9, \x20       |
| 39020 | \ Pad2                                | U     | 2   | 182      | Fixed String  | not used                               |
| 39020 | >Pad2                                 | 0     | 2   | 102      | Fixed String  | not used                               |

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### 12.6 SRQS Quote Snapshot Request

This message is used to request a snapshot of SRQS quote book information. This message is sent to the service "Selective Request for Quote Service".



| Tag     | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |  |  |
|---------|-------------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|--|--|
| < Messa | <messageheaderin></messageheaderin> |       |     |     |              |                                      |  |  |  |  |  |
| 9       | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |  |  |
|         |                                     |       |     |     |              | cluding this field.                  |  |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |  |  |  |
|         |                                     |       |     |     |              | sage layout. Value: 10720 (Quote-    |  |  |  |  |  |
|         |                                     |       |     |     |              | ${\sf Request,\ MsgType} = {\sf R)}$ |  |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                             |  |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                             |  |  |  |  |  |
| < Reque | stHeader>                           |       |     |     |              |                                      |  |  |  |  |  |
| 34      | MsgSeqNum                           | Υ     | 4   | 16  | unsigned int | Message sequence number used by the  |  |  |  |  |  |
|         |                                     |       |     |     |              | participant for requests sent to the |  |  |  |  |  |
|         |                                     |       |     |     |              | gateway.                             |  |  |  |  |  |
| 50      | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.                             |  |  |  |  |  |

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# 12.7 SRQS Response

This message confirms a SRQS Request.

| Tag  | Field Name   | Req'd | Len | Ofs | Data Type    | Description   |
|--|--------------|-------|-----|-----|--------------|---|
| < Messa  | geHeaderOut> |       |     |     |              |   |
| 9  | BodyLen      | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                |
|  |              |       |     |     |              | cluding this field.   |
| 28500  | TemplateID   | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                                 |
|  |              |       |     |     |              | sage layout. Value: 10722 (Mass-                                    |
|  |              |       |     |     |              | $oxed{QuoteAcknowledgement},  MsgType = oxed{QuoteAcknowledgement}$ |
|  |              |       |     |     |              | b)  |
| 39020  | Pad2         | U     | 2   | 6   | Fixed String | not used  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeader>   |       |     |     |              |   |
| 5979   | RequestTime  | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.                                       |
| 52   | SendingTime  | Υ     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by                                |
|  |              |       |     |     |              | the gateway   |
| 34   | MsgSeqNum    | Y     | 4   | 24  | unsigned int | Message sequence number used by the                                 |
|  |              |       |     |     |              | participant for requests sent to the                                |
|  |              |       |     |     |              | gateway.  |
| 39040  | Pad4         | U     | 4   | 28  | Fixed String | not used  |

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### 12.8 SRQS Open Negotiation Notification for Requester

This message informs the requester about a new SRQS negotiation.

| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |  |
|---|----------------|-------|-----|-----|--------------|--|--|--|--|--|
| <messageheaderout></messageheaderout>   |                |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen        | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |  |
|   |                |       |     |     |              | cluding this field.                    |  |  |  |  |
| 28500   | TemplateID     | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |  |
|   |                |       |     |     |              | sage layout. Value: 10710 (Quote-      |  |  |  |  |
|   |                |       |     |     |              | $StatusReport,\ MsgType = AI)$         |  |  |  |  |
| 39020   | Pad2           | U     | 2   | 6   | Fixed String | not used                               |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>        |       |     |     |              |  |  |  |  |  |
| 52  | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |  |
|   |                |       |     |     |              | the gateway                            |  |  |  |  |
| 1181  | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-        |  |  |  |  |
|   |                |       |     |     |              | signed to a non-order related T7 ETI   |  |  |  |  |
|   |                |       |     |     |              | data stream.                           |  |  |  |  |
| 28727   | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |  |  |  |  |
|   |                |       |     |     |              | during broadcast subscription in order |  |  |  |  |
|   |                |       |     |     |              | to link broadcasts to the related sub- |  |  |  |  |
|   |                |       |     |     |              | scription.                             |  |  |  |  |
| 5948  | PartitionID    | U     | 2   | 28  | unsigned int | not used                               |  |  |  |  |
| 1352  | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |  |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |  |
|   |                |       |     |     |              | 0 False                                |  |  |  |  |
|   |                |       |     |     |              | 1 True                                 |  |  |  |  |
|   |                |       |     |     |              |  |  |  |  |  |
| 1180  | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |  |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |  |
|   |                |       |     |     |              | 9 SRQS Maintenance                     |  |  |  |  |
|   |                |       |     |     |              |  |  |  |  |  |
| 893   | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |  |  |  |  |
|   |                |       |     |     |              | last fragment (part) of a sequence of  |  |  |  |  |
|   |                |       |     |     |              | messages belonging to one dedicated    |  |  |  |  |
|   |                |       |     |     |              | transaction.                           |  |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |  |
|   |                |       |     |     |              | 1 Last Message                         |  |  |  |  |
|   |                |       |     |     |              |  |  |  |  |  |
| 39070   |                | U     | 7   | 33  | Fixed String | not used                               |  |  |  |  |
| < Messa   | geBody>        |       |     |     |              |  |  |  |  |  |
| 60  | TransactTime   | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                 |  |  |  |  |
| 48  | SecurityID     | N     | 8   | 48  | signed int   | Instrument identifier.                 |  |  |  |  |
| 132   | BidPx          | N     | 8   | 56  | PriceType    | Bid price/rate.                        |  |  |  |  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type     | Description                            |
|-------|---------------------|-------|-----|-----|---------------|--|
| 133   | OfferPx             | N     | 8   | 64  | PriceType     | Offer price/rate.                      |
| 38    | OrderQty            | N     | 8   | 72  | Qty           | Open/total quantity of the SRQS ne-    |
|       |                     |       |     |     |               | gotiation.                             |
| 31    | LastPx              | N     | 8   | 80  | PriceType     | Price of this fill.                    |
| 32    | LastQty             | N     | 8   | 88  | Qty           | Quantity executed in this fill.        |
| 28759 | QuoteRefPrice       | N     | 8   | 96  | PriceType     | Depending upon Negotiation work-       |
|       |                     |       |     |     |               | flow this price can either be a refer- |
|       |                     |       |     |     |               | ence price or an underlying price      |
| 25149 | UnderlyingDelta-    | N     | 8   | 104 | floatDecimal4 | The effective underlying delta of a    |
|       | Percentage          |       |     |     |               | Vola-Strategy                          |
| 126   | ExpireTime          | N     | 8   | 112 | UTCTimestamp  | Time an entity expires.                |
| 25184 | TradeToRequestRatio | N     | 8   | 120 | floatDecimal4 | Ratio indicating amount of Trades to   |
|       | ·                   |       |     |     |               | RFQ requested                          |
| 28758 | NegotiationID       | Υ     | 4   | 128 | unsigned int  | ID of a SRQS negotiation               |
| 1300  | MarketSegmentID     | Υ     | 4   | 132 | signed int    | Product identifier.                    |
| 762   | SecuritySubType     | N     | 4   | 136 | signed int    | Sub-type qualification/identification  |
|       |                     |       |     |     |               | of the SecurityType                    |
| 25150 | NumberOf-           | N     | 4   | 140 | unsigned int  | Total number of Respondents in a       |
| 23130 | Respondents         |       |     | 110 | unsigned int  | SRQS event.                            |
| 537   | QuoteType           | Y     | 1   | 144 | unsigned int  | Quote Type                             |
|       | , ,,,               |       |     |     |               | Value Description                      |
|       |                     |       |     |     |               | Indicative (for Continuous             |
|       |                     |       |     |     |               | Auction Issuer trading model           |
|       |                     |       |     |     |               | and Eurex/Xetra EnLight                |
|       |                     |       |     |     |               | only)                                  |
|       |                     |       |     |     |               | 1 Tradeable                            |
|       |                     |       |     |     |               |  |
| 28786 | QuoteSubType        | Y     | 1   | 145 | unsigned int  | Sub-type of QuoteType                  |
|       |                     |       |     |     |               | Value Description                      |
|       |                     |       |     |     |               | 1 Working Delta                        |
|       |                     |       |     |     |               | 2 Basis Trade                          |
|       |                     |       |     |     |               | 3 Regular LDS Negotiation              |
|       |                     |       |     |     |               | Negotiate the underlying out-          |
|       |                     |       |     |     |               | side the exchange                      |
|       |                     |       |     |     |               | Option Volatility Strategy             |
|       |                     |       |     |     |               | 5 with fixed Underlying price          |
|       |                     |       |     |     |               | and delta                              |
|       |                     |       |     |     |               | Option Volatility Strategy -           |
|       |                     |       |     |     |               | 6 Underlying price is negoti-          |
|       |                     |       |     |     |               | ated on exchange                       |
|       |                     |       |     |     |               |  |

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| Tag   | Field Name                             | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--|-------|-----|-----|--------------|---|
| 555   | NoLegs                                 | Y     | 1   | 146 | Counter      | Number of QuotReqLegs repeating   |
|       |  |       |     |     |              | group instances.  |
| 1461  | NoTargetPartyIDs                       | Y     | 1   | 147 | Counter      | Number of TargetParties records.  |
| 54    | Side                                   | N     | 1   | 148 | unsigned int | Side of the order.  |
|       |  |       |     |     |              | Value Description   |
|       |  |       |     |     |              | 1 Buy   |
|       |  |       |     |     |              | 2 Sell  |
| 1227  | ProductComplex                         | N     | 1   | 149 | unsigned int | This field qualifies an instrument type on T7.  Value Description   |
|       |  |       |     |     |              | 1 Simple instrument   |
|       |  |       |     |     |              | 2 Standard Option Strategy  |
|       |  |       |     |     |              | Non-Standard Option Strategy  a ggy   |
|       |  |       |     |     |              | 4 Volatility Strategy   |
|       |  |       |     |     |              | 5 Futures Spread  |
|       |  |       |     |     |              | 6 Inter-Product Spread  |
|       |  |       |     |     |              | 7 Standard Future Strategy  |
|       |  |       |     |     |              | 8 Pack and Bundle   |
|       |  |       |     |     |              | 9 Strip   |
|       |  |       |     |     |              | 11 Commodity Strip  |
|       |  |       |     |     |              |   |
| 25145 | NumberOfResp-<br>DisclosureInstruction | Y     | 1   | 150 | unsigned int | Instruction to show total number of Respondents in an EnLight event.  |
|       |  |       |     |     |              | Value Description   |
|       |  |       |     |     |              | 0 No  |
|       |  |       |     |     |              | 1 Yes   |
| 1172  | RespondentType                         | N     | 1   | 151 | unsigned int | Specifies the type of respondents requested.    Value   Description     1   Respondents are known during a negotiation     Respondents are anonymized after negotiation start, Requester will remain anonymous from start |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 25194 | ShowLastDealOn-<br>Closure     | Y     | 1   | 152 | unsigned int | Instruction to show last deal information after negotiation closure  Value Description  0 No  1 Yes |
| 25206 | BidPxIsLocked                  | N     | 1   | 153 | unsigned int | BidPx is locked.  Value Description  0 No  1 Yes  |
| 25207 | OfferPxIsLocked                | N     | 1   | 154 | unsigned int | OfferPx is locked.  Value Description  0 No  1 Yes  |
| 25208 | SidelsLocked                   | N     | 1   | 155 | unsigned int | Side is locked.  Value Description  0 No  1 Yes   |
| 25209 | OrderQtylsLocked               | N     | 1   | 156 | unsigned int | OrderQty is locked.  Value Description  0 No  1 Yes   |
| 2788  | TradeAggregation-<br>TransType | N     | 1   | 157 | unsigned int | Trade Aggregation Identifier.  Value Description  0 New   |
| 276   | QuoteCondition                 | Y     | 1   | 158 | char         | Status of the quote.  Value Description  A Active  z Suspended                                      |
| 22001 | PartyExecutingFirm             | Y     | 5   | 159 | Fixed String | Owning business unit name.  Valid characters: A-Z, 0-9, \x20  |
| 22012 | PartyExecutingTrader           | Y     | 6   | 164 | Fixed String | Owning user name.  Valid characters: A-Z, 0-9, \x20   |
| 22036 | PartyEnteringTrader            | Y     | 6   | 170 | Fixed String | The entering user Valid characters: A-Z, 0-9, \x20  |

| Tag   | Field Name                  | Req'd     | Len    | Ofs    | Data Type         | Description                             |
|---|-----------------------------|-----------|--------|--------|-------------------|---|
|   | FirmNegotiationID           | N         | 20     | 176    | Fixed String      | User defined ID of a SRQS negotiation   |
|   |                             |           |        |        | _                 | Valid characters: \x01-\x7E             |
| 25172   | FreeText5                   | N         | 132    | 196    | Fixed String      | Text field                              |
|   |                             |           |        |        | _                 | Valid characters: \x20, \x23-\x25,      |
|   |                             |           |        |        |                   | \x28-\x2A, \x2C-\x3B, \x3F, \x41-       |
|   |                             |           |        |        |                   | \x5F, \x61-\x7B, \x7D, \x7E             |
| 22011   | PartyOrder-                 | N         | 132    | 328    | Fixed String      | Buy-side user information               |
| 22011   | OriginationTrader           | 14        | 152    | 320    | Tixed String      | Valid characters: \x20, \x23-\x25,      |
|   |                             |           |        |        |                   | \x28-\x2A, \x2C-\x3B, \x3F, \x41-       |
|   |                             |           |        |        |                   | \x5F, \x61-\x7B, \x7D, \x7E             |
| 25225   | ChargeID                    | N         | 132    | 460    | Fixed String      | Charge ID of Third Party Platform.      |
| 20220   | Chargers                    | ''        | 102    |        | i ixed outing     | Valid characters: \x20, \x22-\x7B,      |
|   |                             |           |        |        |                   | \x7D, \x7E                              |
| <quo:< td=""><td>∟<br/>tReqLegsGrp&gt; Cardinalı</td><td>itv: 0-2</td><td>0. Rec</td><td>ord co</td><td>unter: NoLegs</td><td>[]</td></quo:<> | ∟<br>tReqLegsGrp> Cardinalı | itv: 0-2  | 0. Rec | ord co | unter: NoLegs     | []                                      |
|   | >LegSecurityID              | Y         | 8      | 592    | signed int        | Instrument identifier of the leg secu-  |
|   | 2 2080 000111912            |           |        |        | 3 77              | rity.                                   |
| 623   | >LegRatioQty                | N         | 4      | 600    | unsigned int      | The ratio of quantity for this individ- |
|   | 7                           |           |        |        | O                 | ual leg relative to the entire multileg |
|   |                             |           |        |        |                   | security.                               |
| 600   | >LegSymbol                  | N         | 4      | 604    | signed int        | Product identifier of the leg security  |
| 609   |                             | Υ         | 1      | 608    | unsigned int      | Indicates type of leg.                  |
|   |                             |           |        |        |                   | Value Description                       |
|   |                             |           |        |        |                   | 1 Multileg Instrument                   |
|   |                             |           |        |        |                   | 2 Underlying Leg                        |
|   |                             |           |        |        |                   | z onderlying zeg                        |
| 624   | >LegSide                    | N         | 1      | 609    | unsigned int      | The side of the individual leg of a     |
|   |                             |           |        |        |                   | strategy as defined in its signature.   |
|   |                             |           |        |        |                   | Value Description                       |
|   |                             |           |        |        |                   | 1 Buy                                   |
|   |                             |           |        |        |                   | 2 Sell                                  |
|   |                             |           |        |        |                   | 2 3611                                  |
| 39060   | >Pad6                       | U         | 6      | 610    | Fixed String      | not used                                |
| < Targ  | etParties> Cardinality:     | 0 - 50, R | Record | counte | er: NoTargetParty | /IDs                                    |
| 20612   | >TargetParty-               | N         | 4      | 0      | unsigned int      | Anonymous user ID                       |
| 20012   | IDExecutingTrader           | IN        | -+     | U      | unsigned int      | Allollyllious user 10                   |
| 25130   | >SideDisclosure-            | Y         | 1      | 4      | unsigned int      | Instruction to show side.               |
|   | Instruction                 | '         | _      | .      |                   |   |
|   |                             |           |        |        |                   | Value Description                       |
|   |                             |           |        |        |                   | 0 No                                    |
|   |                             |           |        |        |                   | 1 Yes                                   |
|   |                             |           |        |        |                   |   |

| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---|-------|-----|-----|--------------|---|
| 25131 | >PriceDisclosure-<br>Instruction                      | Y     | 1   | 5   | unsigned int | Instruction to show price.  Value Description  0 No  1 Yes                    |
| 25137 | >LeavesQty-<br>DisclosureInstruction                  | Y     | 1   | 6   | unsigned int | Instruction to show leaves quantity.  Value Description  0 No  1 Yes          |
| 25146 | >LastPxDisclosure-<br>Instruction                     | U     | 1   | 7   | unsigned int | not used  |
| 25147 | >LastQtyDisclosure-<br>Instruction                    | U     | 1   | 8   | unsigned int | not used  |
| 31814 | >Free-<br>Text5Disclosure-<br>Instruction             | Y     | 1   | 9   | unsigned int | Instruction to show FreeText5  Value Description  0 No  1 Yes                 |
| 25190 | >PartyOrder-<br>OriginationDisclosure-<br>Instruction | Y     | 1   | 10  | unsigned int | Instruction to show buy-side user information  Value Description  0 No  1 Yes |
| 25138 | >QuoteInstruction                                     | U     | 1   | 11  | unsigned int | not used  |
| 25226 | >ChargeIDDisclosure-<br>Instruction                   | Y     | 1   | 12  | unsigned int | Instruction to show Charge ID.  Value Description  0 No  1 Yes                |
| 22601 | >TargetParty-<br>ExecutingFirm                        | N     | 5   | 13  | Fixed String | Name of target business unit.  Valid characters: A-Z, 0-9, \x20               |
| 22602 | >TargetParty-<br>ExecutingTrader                      | N     | 6   | 18  | Fixed String | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20                 |

| Tag   | Field Name                         | Req'd | Len | Ofs | Data Type    | Description                   |
|-------|------------------------------------|-------|-----|-----|--------------|-------------------------------|
| 1672  | >PartyDetailStatus                 | N     | 1   | 24  | unsigned int | Member status.                |
|       |                                    |       |     |     |              | Value Description             |
|       |                                    |       |     |     |              | 0 Active                      |
|       |                                    |       |     |     |              | 1 Suspend                     |
|       |                                    |       |     |     |              | 2 Rejected                    |
|       | . D . D . 11C                      |       |     |     |              |                               |
| 25185 | >PartyDetailStatus-<br>Information | N     | 1   | 25  | unsigned int | Reason for a responder reject |
|       |                                    |       |     |     |              | Value Description             |
|       |                                    |       |     |     |              | High TRR (TradeToRequest-     |
|       |                                    |       |     |     |              | Ratio) threshold              |
|       |                                    |       |     |     |              | Anonymous negotiation         |
|       |                                    |       |     |     |              | blocked by responder          |
|       |                                    |       |     |     |              |                               |
| 39060 | >Pad6                              | U     | 6   | 26  | Fixed String | not used                      |

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### 12.9 SRQS Open Negotiation Notification for Respondent

This message informs the (targeted) respondents about a new negotiation.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |  |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|--|
|   | <messageheaderout></messageheaderout> |       |     |     |              |   |  |  |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |  |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10711 (Quote-StatusReport, MsgType = AI)  |  |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used  |  |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td>I</td><td></td></rbch<>  | leader>                               |       |     |     | I            |   |  |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |  |  |  |  |  |
| 1181  | ApplSeqNum                            | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |  |  |  |  |  |
| 28727   | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |  |  |  |  |  |
| 5948  | PartitionID                           | U     | 2   | 28  | unsigned int | not used  |  |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |  |  |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  9 SRQS Maintenance   |  |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 33  | Fixed String | not used  |  |  |  |  |  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geBody>                               |       |     |     |              |   |  |  |  |  |  |
| 60  | TransactTime                          | Υ     | 8   | 40  | UTCTimestamp | Transaction timestamp.  |  |  |  |  |  |
| 28764   | NegotiationStartTime                  | N     | 8   | 48  | UTCTimestamp | Start time of SRQS negotiation  |  |  |  |  |  |
| 48  | SecurityID                            | N     | 8   | 56  | signed int   | Instrument identifier.  |  |  |  |  |  |

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| RFQ requested  25201 TradeToQuoteRatio N 8 136 floatDecimal4 Ratio of Trades to Quotes  28758 NegotiationID Y 4 144 unsigned int ID of a SRQS negotiation  1300 MarketSegmentID Y 4 148 signed int Product identifier.   | Tag   | Field Name          | Req'd | Len | Ofs  | Data Type     | Description                            |
|--|-------|---------------------|-------|-----|------|---------------|--|
| 151   LeavesQty  | 132   | BidPx               | N     | 8   | 64   | PriceType     | Bid price/rate.                        |
| 32 LastQty N 8 88 Qty Quantity executed in this fill.  31 LastPx N 8 96 PriceType Price of this fill.  28759 QuoteRefPrice N 8 104 PriceType Depending upon Negotiation work-flow this price can either be a reference price or an underlying price  25149 Percentage N 8 112 floatDecimal4 The effective underlying delta of a Vola-Strategy  126 ExpireTime N 8 120 UTCTimestamp Time an entity expires.  25184 TradeToRequestRatio N 8 128 floatDecimal4 Ratio indicating amount of Trades to RFQ requested  25201 TradeToQuoteRatio N 8 136 floatDecimal4 Ratio of Trades to Quotes  28758 NegotiationID Y 4 144 unsigned int ID of a SRQS negotiation  1300 MarketSegmentID Y 4 148 signed int Product identifier.  762 SecuritySubType N 4 152 signed int Sub-type qualification/identification of the SecurityType  25150 NumberOf-Respondents N 4 156 unsigned int SRQS event.  763 QuoteType Y 1 162 unsigned int Ranking position of Ratio of Trades to Quotes  537 QuoteType Y 1 162 unsigned int Output Description Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  | 133   | OfferPx             | N     | 8   | 72   | PriceType     | Offer price/rate.                      |
| 31 LastPx N 8 96 PriceType Price of this fill.  28759 QuoteRefPrice N 8 104 PriceType Depending upon Negotiation work-flow this price can either be a reference price or an underlying price  25149 UnderlyingDelta-Percentage N 8 112 floatDecimal4 The effective underlying delta of a Vola-Strategy  126 ExpireTime N 8 120 UTCTimestamp Time an entity expires.  25184 TradeToRequestRatio N 8 128 floatDecimal4 Ratio indicating amount of Trades to RFQ requested  25201 TradeToQuoteRatio N 8 136 floatDecimal4 Ratio of Trades to Quotes  28758 NegotiationID Y 4 144 unsigned int ID of a SRQS negotiation  1300 MarketSegmentID Y 4 148 signed int Product identifier.  762 SecuritySubType N 4 152 signed int Sub-type qualification/identification of the SecurityType  25150 NumberOf-Respondents N 4 156 unsigned int SRQS event.  25202 TradeToQuoteRatio-Position N 2 160 unsigned int SRQS event.  763 QuoteType Y 1 162 unsigned int Quote Type  Value Description Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)   | 151   | LeavesQty           | N     | 8   | 80   | Qty           | Remaining quantity of an order.        |
| 28759 QuoteRefPrice N 8 104 PriceType Depending upon Negotiation work-flow this price can either be a reference price or an underlying price  25149 UnderlyingDelta-Percentage N 8 112 floatDecimal4 Percentage N 8 120 UTCTimestamp Time an entity expires.  25184 TradeToRequestRatio N 8 128 floatDecimal4 Ratio indicating amount of Trades to RFQ requested  25201 TradeToQuoteRatio N 8 136 floatDecimal4 Ratio of Trades to Quotes  28758 NegotiationID Y 4 144 unsigned int ID of a SRQS negotiation  1300 MarketSegmentID Y 4 148 signed int Product identifier.  762 SecuritySubType N 4 152 signed int Sub-type qualification/identification of the SecurityType  25150 NumberOf-Respondents N 4 156 unsigned int SRQS event.  25202 TradeToQuoteRatio-Position N 2 160 unsigned int SRQS event.  77 Sanking position of Ratio of Trades to Quotes  88 SRQS event.  89 SRQS event.  100 Underlying Delta reference price on interference price or an underlying delta of a Vola-Strategy  TradeToQuoteRatio-Position N 4 156 unsigned int SRQS event.  100 Underlying Delta reference price or an underlying price of the fective underlying delta of a Vola-Strategy  TradeToQuoteRatio-Position N 4 156 unsigned int SRQS event.  100 UnderlyingDelta reference price or an underlying price  100 Underlying Delta reference price or an underlying delta of a Vola-Strategy  TradeToQuoteRatio-Position N 4 156 unsigned int SRQS event.  110 Underlying Delta reference price or an underlying delta of a Vola-Strategy  110 Depending Underlying delta of a Vola-Strategy  110 Acceptation N 5 Refective underlying delta of a Vola-Strategy  110 Acceptation N 8 120 UTCTimestamp N 120 Underlying delta of a Vola-Strategy  120 Expired N 8 120 UTCTimestamp N 120 Underlying delta of N 120 Underlying  | 32    | LastQty             | N     | 8   | 88   | Qty           | Quantity executed in this fill.        |
| flow this price can either be a reference price or an underlying price  25149 UnderlyingDelta-Percentage  N 8 112 floatDecimal4 The effective underlying delta of a Vola-Strategy  126 ExpireTime  N 8 120 UTCTimestamp Time an entity expires.  25184 TradeToRequestRatio  N 8 128 floatDecimal4 Ratio indicating amount of Trades to RFQ requested  25201 TradeToQuoteRatio  N 8 136 floatDecimal4 Ratio of Trades to Quotes  28758 NegotiationID  Y 4 144 unsigned int ID of a SRQS negotiation  1300 MarketSegmentID  Y 4 148 signed int Product identifier.  762 SecuritySubType  N 4 156 unsigned int Sub-type qualification/identification of the SecurityType  25150 NumberOf-Respondents  N 4 156 unsigned int Ranking position of Ratio of Trades to Quotes  537 QuoteType  Y 1 162 unsigned int Quote Type  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  | 31    | LastPx              | N     | 8   | 96   | PriceType     | Price of this fill.                    |
| 25149   UnderlyingDelta-Percentage   | 28759 | QuoteRefPrice       | N     | 8   | 104  | PriceType     | Depending upon Negotiation work-       |
| UnderlyingDelta-Percentage   |       |                     |       |     |      |               | flow this price can either be a refer- |
| Percentage    N   8   112   floatDecimal4   The effective underlying delta of a Vola-Strategy  |       |                     |       |     |      |               | ence price or an underlying price      |
| Percentage   | 25149 | , ,                 | N     | 8   | 112  | floatDecimal4 | The effective underlying delta of a    |
| 126   ExpireTime   |       | Percentage          |       | _   |      |               | , ,                                    |
| RFQ requested   RFQ requested  | 126   | ExpireTime          | N     | 8   | 120  | UTCTimestamp  | 0,                                     |
| 25201 TradeToQuoteRatio  | 25184 | TradeToRequestRatio | N     | 8   | 128  | floatDecimal4 | Ratio indicating amount of Trades to   |
| 28758   NegotiationID  |       |                     |       |     |      |               | RFQ requested                          |
| 1300   MarketSegmentID   Y   4   148   signed int   Product identifier.  | 25201 | TradeToQuoteRatio   | N     | 8   | 136  | floatDecimal4 | Ratio of Trades to Quotes              |
| 762 SecuritySubType N 4 152 signed int Sub-type qualification/identification of the SecurityType  25150 NumberOf- Respondents N 4 156 unsigned int SRQS event.  25202 TradeToQuoteRatio- Position N 2 160 unsigned int Ranking position of Ratio of Trades to Quotes  537 QuoteType Y 1 162 unsigned int Quote Type  Value Description Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)   | 28758 | NegotiationID       | Υ     | 4   | 144  | unsigned int  | ID of a SRQS negotiation               |
| State   Stat   | 1300  | MarketSegmentID     | Y     | 4   | 148  | signed int    | Product identifier.                    |
| NumberOf-  Respondents   N   | 762   | SecuritySubType     | N     | 4   | 152  | signed int    | Sub-type qualification/identification  |
| Respondents  N 4 156 unsigned int Total number of Respondents in a SRQS event.  TradeToQuoteRatio-Position  N 2 160 unsigned int Ranking position of Ratio of Trades to Quotes  TradeToQuoteRatio-Position  N 2 160 unsigned int Quotes  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  |       |                     |       |     |      |               | of the SecurityType                    |
| Respondents  TradeToQuoteRatio-Position  N 2 160 unsigned int Ranking position of Ratio of Trades to Quotes  537 QuoteType  Y 1 162 unsigned int Quote Type  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  | 25150 |                     | N     | 4   | 156  | unsigned int  | Total number of Respondents in a       |
| TradeToQuoteRatio-Position  N 2 160 unsigned int Ranking position of Ratio of Trades to Quotes  537 QuoteType  Y 1 162 unsigned int Quote Type  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)   |       | Respondents         |       | -   |      |               | -                                      |
| Position  Quotes  4 1 162 unsigned int Quote Type  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  | 25222 | TradeToQuoteRatio-  |       |     | 1.00 |               |  |
| The second secon | 25202 | Position            | N     | 2   | 160  | unsigned int  | j .                                    |
| Value Description Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  | 527   | Ou at a Tura        | V     | 1   | 162  | uncianed int  | -                                      |
| Indicative (for Continuous  Auction Issuer trading model and Eurex/Xetra EnLight only)   | 337   | QuoteType           | ı     | 1   | 102  | unsigned int  |  |
| Auction Issuer trading model and Eurex/Xetra EnLight only)   |       |                     |       |     |      |               |  |
| and Eurex/Xetra EnLight only)  |       |                     |       |     |      |               | · · · · · · · · · · ·                  |
| only)  |       |                     |       |     |      |               |  |
|  |       |                     |       |     |      |               |  |
|  |       |                     |       |     |      |               | - ,                                    |
|  |       |                     |       |     |      |               | 1   Tradeable                          |

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| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|----------------|-------|-----|-----|--------------|---|
| 28786 | QuoteSubType   | Υ     | 1   | 163 | unsigned int | Sub-type of QuoteType                   |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 1 Working Delta                         |
|       |                |       |     |     |              | 2 Basis Trade                           |
|       |                |       |     |     |              | 3 Regular LDS Negotiation               |
|       |                |       |     |     |              | Negotiate the underlying out-           |
|       |                |       |     |     |              | side the exchange                       |
|       |                |       |     |     |              | Option Volatility Strategy              |
|       |                |       |     |     |              | 5 with fixed Underlying price           |
|       |                |       |     |     |              | and delta                               |
|       |                |       |     |     |              | Option Volatility Strategy -            |
|       |                |       |     |     |              | 6 Underlying price is negoti-           |
|       |                |       |     |     |              | ated on exchange                        |
| 555   | NoLegs         | Y     | 1   | 164 | Counter      | Number of QuotReqLegs repeating         |
|       | 1102083        |       | _   |     |              | group instances.                        |
| 54    | Side           | N     | 1   | 165 | unsigned int | Side of the order.                      |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 1 Buy                                   |
|       |                |       |     |     |              | 2 Sell                                  |
|       |                |       |     |     |              |   |
| 1227  | ProductComplex | N     | 1   | 166 | unsigned int | This field qualifies an instrument type |
|       |                |       |     |     |              | on T7.                                  |
|       |                |       |     |     |              | Value Description                       |
|       |                |       |     |     |              | 1 Simple instrument                     |
|       |                |       |     |     |              | 2 Standard Option Strategy              |
|       |                |       |     |     |              | Non-Standard Option Strat-              |
|       |                |       |     |     |              | egy                                     |
|       |                |       |     |     |              | 4 Volatility Strategy                   |
|       |                |       |     |     |              | 5 Futures Spread                        |
|       |                |       |     |     |              | 6 Inter-Product Spread                  |
|       |                |       |     |     |              | 7 Standard Future Strategy              |
|       |                |       |     |     |              | 8 Pack and Bundle                       |
|       |                |       |     |     |              | 9 Strip                                 |
|       |                |       |     |     |              | 11 Commodity Strip                      |
|       | <u> </u>       |       |     |     |              |   |

| Tag   | Field Name            | Req'd | Len | Ofs | Data Type     | Description   |
|-------|-----------------------|-------|-----|-----|---------------|---|
| 1172  | RespondentType        | Υ     | 1   | 167 | unsigned int  | Specifies the type of respondents re-                         |
|       |                       |       |     |     |               | quested.  |
|       |                       |       |     |     |               | Value Description   |
|       |                       |       |     |     |               | Respondents are known dur-                                    |
|       |                       |       |     |     |               | l ing a negotiation   |
|       |                       |       |     |     |               | Respondents are anonymized                                    |
|       |                       |       |     |     |               | after negotiation start. Re-                                  |
|       |                       |       |     |     |               | quester will remain anony-                                    |
|       |                       |       |     |     |               | mous from start   |
|       |                       |       |     |     |               |   |
| 2788  | TradeAggregation-     | N     | 1   | 168 | unsigned int  | Trade Aggregation Identifier.                                 |
|       | TransType             |       |     |     |               | Value Description   |
|       |                       |       |     |     |               | 0 New   |
|       |                       |       |     |     |               |   |
| 276   | QuoteCondition        | Υ     | 1   | 169 | char          | Status of the quote.  |
|       |                       |       |     |     |               | Value Description   |
|       |                       |       |     |     |               | A Active  |
|       |                       |       |     |     |               |   |
| 22001 | PartyExecutingFirm    | N     | 5   | 170 | Fixed String  | Owning business unit name.                                    |
|       |                       |       |     |     |               | Valid characters: A-Z, 0-9, \x20                              |
| 22012 | PartyExecutingTrader  | N     | 6   | 175 | Fixed String  | Owning user name.   |
|       |                       |       |     |     |               | Valid characters: A-Z, 0-9, \x20                              |
| 22036 | PartyEnteringTrader   | N     | 6   | 181 | Fixed String  | The entering user   |
|       |                       |       |     |     |               | Valid characters: A-Z, 0-9, \x20                              |
| 22601 | TargetPartyExecuting- | N     | 5   | 187 | Fixed String  | Name of target business unit.                                 |
|       | Firm                  |       |     |     | _             | Valid characters: A-Z, 0-9, \x20                              |
| 22602 | TargetPartyExecuting- | N     | 6   | 192 | Fixed String  | Name of toward way /two day                                   |
| 22002 | Trader                | IN    | O   | 192 | Fixed String  | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20 |
| 28762 | FirmNegotiationID     | N     | 20  | 198 | Fixed String  | User defined ID of a SRQS negotiation                         |
| 20102 | 1 mmvegotiatiomb      | '     | 20  |     | r ixed String | Valid characters: \x01-\x7E                                   |
| 25172 | FreeText5             | N     | 132 | 218 | Fixed String  | Text field  |
|       | 110010000             |       |     |     |               | Valid characters: \x20, \x23-\x25,                            |
|       |                       |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                             |
|       |                       |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                   |
| 22011 | PartyOrder-           | N     | 132 | 250 | Eivad String  | Puny side user information                                    |
| 22011 | OriginationTrader     | IN    | 132 | 350 | Fixed String  | Buy-side user information  Valid characters: \x20, \x23-\x25, |
|       |                       |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                             |
|       |                       |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                   |
| 25225 | ChargeID              | N     | 132 | 482 | Fixed String  | Charge ID of Third Party Platform.                            |
|       |                       |       |     |     | ×= - *····0   |   |
|       |                       |       |     |     |               | , , ,   |
|       |                       |       |     |     |               | Valid characters: \x20, \x22-\x7B, \x7D, \x7E                 |

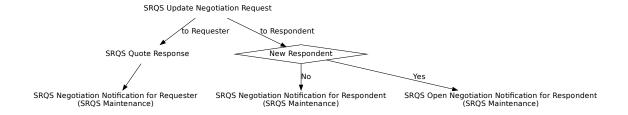
| Tag   | Field Name             | Req'd    | Len    | Ofs    | Data Type     | Description                             |
|---|------------------------|----------|--------|--------|---------------|---|
| 39020   | Pad2                   | U        | 2      | 614    | Fixed String  | not used                                |
| <quo:< td=""><td>tReqLegsGrp&gt; Cardinali</td><td>ty: 0-20</td><td>0, Rec</td><td>ord co</td><td>unter: NoLegs</td><td></td></quo:<> | tReqLegsGrp> Cardinali | ty: 0-20 | 0, Rec | ord co | unter: NoLegs |   |
| 602   | >LegSecurityID         | Y        | 8      | 616    | signed int    | Instrument identifier of the leg secu-  |
|   |                        |          |        |        |               | rity.                                   |
| 623   | >LegRatioQty           | N        | 4      | 624    | unsigned int  | The ratio of quantity for this individ- |
|   |                        |          |        |        |               | ual leg relative to the entire multileg |
|   |                        |          |        |        |               | security.                               |
| 600   | >LegSymbol             | N        | 4      | 628    | signed int    | Product identifier of the leg security  |
| 609   | >LegSecurityType       | Y        | 1      | 632    | unsigned int  | Indicates type of leg.                  |
|   |                        |          |        |        |               | Value Description                       |
|   |                        |          |        |        |               | 1 Multileg Instrument                   |
|   |                        |          |        |        |               | 2 Underlying Leg                        |
|   |                        |          |        |        |               |   |
| 624   | >LegSide               | N        | 1      | 633    | unsigned int  | The side of the individual leg of a     |
|   |                        |          |        |        |               | strategy as defined in its signature.   |
|   |                        |          |        |        |               | Value Description                       |
|   |                        |          |        |        |               | 1 Buy                                   |
|   |                        |          |        |        |               | 2 Sell                                  |
|   |                        |          |        |        |               |   |
| 39060   | >Pad6                  | U        | 6      | 634    | Fixed String  | not used                                |

| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

Build 111.470.1.ga-111004071-18

#### 12.10 SRQS Update Negotiation Request

This message is submitted by the requester in order to modify a SRQS negotiation. This message is sent to the service "Selective Request for Quote Service".



| Tag   | Field Name       | Reg'd    | Len | Ofs | Data Type     | Description                            |  |  |  |  |  |
|---|------------------|----------|-----|-----|---------------|--|--|--|--|--|--|
|   | MessageHeaderIn> |          |     |     |               |  |  |  |  |  |  |
| 9   | BodyLen          | Υ        | 4   | 0   | unsigned int  | Number of bytes for the message, in-   |  |  |  |  |  |
|   | Body Zen         |          | -   |     | a             | cluding this field.                    |  |  |  |  |  |
| 28500   | TemplateID       | Y        | 2   | 4   | unsigned int  | Unique identifier for a T7 ETI mes-    |  |  |  |  |  |
|   | •                |          |     |     | · ·           | sage layout. Value: 10701 (Quote-      |  |  |  |  |  |
|   |                  |          |     |     |               | Request, $MsgType = R$ )               |  |  |  |  |  |
| 25028   | NetworkMsgID     | U        | 8   | 6   | Fixed String  | not used                               |  |  |  |  |  |
| 39020   | Pad2             | U        | 2   | 14  | Fixed String  | not used                               |  |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td><b>'</b></td><td></td><td></td><td></td><td></td></reque<> | stHeader>        | <b>'</b> |     |     |               |  |  |  |  |  |  |
| 34  | MsgSeqNum        | Y        | 4   | 16  | unsigned int  | Message sequence number used by the    |  |  |  |  |  |
|   |                  |          |     |     |               | participant for requests sent to the   |  |  |  |  |  |
|   |                  |          |     |     |               | gateway.                               |  |  |  |  |  |
| 50  | SenderSubID      | Y        | 4   | 20  | unsigned int  | User ID.                               |  |  |  |  |  |
| < Messa   | geBody>          |          |     |     |               |  |  |  |  |  |  |
| 28759   | QuoteRefPrice    | N        | 8   | 24  | PriceType     | Depending upon Negotiation work-       |  |  |  |  |  |
|   |                  |          |     |     |               | flow this price can either be a refer- |  |  |  |  |  |
|   |                  |          |     |     |               | ence price or an underlying price      |  |  |  |  |  |
| 25149   | UnderlyingDelta- | N        | 8   | 32  | floatDecimal4 | The effective underlying delta of a    |  |  |  |  |  |
|   | Percentage       |          |     |     |               | Vola-Strategy                          |  |  |  |  |  |
| 132   | BidPx            | N        | 8   | 40  | PriceType     | Bid price/rate.                        |  |  |  |  |  |
| 133   | OfferPx          | N        | 8   | 48  | PriceType     | Offer price/rate.                      |  |  |  |  |  |
| 38  | OrderQty         | N        | 8   | 56  | Qty           | Total Order Quantity.                  |  |  |  |  |  |
| 1300  |                  | Y        | 4   | 64  | signed int    | Product identifier.                    |  |  |  |  |  |
| 28758   | NegotiationID    | Y        | 4   | 68  | unsigned int  | ID of a SRQS negotiation               |  |  |  |  |  |
| 1461  | -                | Y        | 1   | 72  | Counter       | Number of TargetParties records.       |  |  |  |  |  |

| Tag   | Field Name                             | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|--|----------|-----|-----|--------------|---|
| 25145 | NumberOfResp-<br>DisclosureInstruction | Y        | 1   | 73  | unsigned int | Instruction to show total number of Respondents in an EnLight event.  Value Description  0 No  1 Yes  |
| 54    | Side                                   | N        | 1   | 74  | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell  |
| 25194 | ShowLastDealOn-<br>Closure             | <b>Y</b> | 1   | 75  | unsigned int | Instruction to show last deal information after negotiation closure  Value Description  0 No 1 Yes  |
| 537   | QuoteType                              | N        | 1   | 76  | unsigned int | Quote Type  Value Description  Indicative (for Continuous Auction Issuer trading model and Eurex/Xetra EnLight only)  1 Tradeable   |
| 28786 | QuoteSubType                           | N        | 1   | 77  | unsigned int | Sub-type of QuoteType  Value Description  1 Working Delta  2 Basis Trade  3 Regular LDS Negotiation  4 Negotiate the underlying outside the exchange  Option Volatility Strategy  5 with fixed Underlying price and delta  Option Volatility Strategy -  6 Underlying price is negotiated on exchange |

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| 1172   RespondentType  | Tag   | Field Name           | Req'd    | Len | Ofs | Data Type    | Description                           |
|--|-------|----------------------|----------|-----|-----|--------------|---------------------------------------|
| Value   Description   Respondents are known during a negotiation   Respondents are known during a negotiation   Respondents are anonymized after negotiation start, Requester will remain anonymous from start   | 1172  | RespondentType       | N        | 1   | 78  | unsigned int | Specifies the type of respondents re- |
| 1   Respondents are known during a negotiation   Respondents are anonymized after negotiation start, Requester will remain anonymous from start  |       |                      |          |     |     |              | quested.                              |
| 1  |       |                      |          |     |     |              | Value Description                     |
| TradeAggregation   |       |                      |          |     |     |              | Respondents are known dur-            |
| 102   after negotiation start, Requester will remain anonymous from start  |       |                      |          |     |     |              |                                       |
| 2788   TradeAggregation-TransType  |       |                      |          |     |     |              | Respondents are anonymized            |
|  |       |                      |          |     |     |              | 11 1021                               |
| TradeAggregation-  TransType   |       |                      |          |     |     |              | quester will remain anony-            |
| TransType  |       |                      |          |     |     |              | mous from start                       |
| TransType  |       | TradeAggregation-    |          |     |     | _            |                                       |
| QuoteCondition   | 2788  |                      | N        | 1   | 79  | unsigned int | Trade Aggregation Identifier.         |
| 276   QuoteCondition   Y   1   80   Char   Status of the quote.     Value   Description   A   Active   B   Closed   Closed   |       |                      |          |     |     |              | Value Description                     |
| Value   Description   A   Active   B   Closed  |       |                      |          |     |     |              | 0 New                                 |
| Value   Description   A   Active   B   Closed  | 276   | OuataCanditian       |          | 1   | 80  | char         | Status of the guete                   |
| A   Active   B   Closed  | 210   | QuoteCondition       | <b>'</b> | 1   | 80  | Cital        |                                       |
| B   Closed   |       |                      |          |     |     |              |                                       |
| 22011 PartyExecutingFirm Y 5 81 Fixed String Owning business unit name. Valid characters: A-Z, 0-9, \x20  22012 PartyExecutingTrader Y 6 86 Fixed String Owning user name. Valid characters: A-Z, 0-9, \x20  25172 FreeText5 N 132 92 Fixed String Text field Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7D, \x7E  22011 PartyOrder-OriginationTrader N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:taillook) Charge ID of Third Party Platform">taillook) Charge ID of Third Party Platform</a> . |       |                      |          |     |     |              |                                       |
| Valid characters: A-Z, 0-9, \x20  22012 PartyExecutingTrader Y 6 86 Fixed String Owning user name. Valid characters: A-Z, 0-9, \x20  25172 FreeText5 N 132 92 Fixed String Text field Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  22011 PartyOrder-OriginationTrader N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:targetParties">TargetParties</a> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 >TargetParty- N 4 488 unsigned int Anonymous user ID  |       |                      |          |     |     |              | B Closed                              |
| Valid characters: A-Z, 0-9, \x20  22012 PartyExecutingTrader Y 6 86 Fixed String Owning user name. Valid characters: A-Z, 0-9, \x20  25172 FreeText5 N 132 92 Fixed String Text field Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  22011 PartyOrder-OriginationTrader N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:targetParties">TargetParties</a> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 >TargetParty- N 4 488 unsigned int Anonymous user ID  | 22001 | PartyExecutingFirm   | Υ        | 5   | 81  | Fixed String | Owning business unit name.            |
| Valid characters: A-Z, 0-9, \x20  25172 FreeText5  |       |                      |          |     |     | G            |                                       |
| PartyOrder-OriginationTrader  N 132 92 Fixed String Text field Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  PartyOrder-OriginationTrader  N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID  N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <targetparties> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 &gt;TargetParty-  N 4 488 unsigned int Anonymous user ID</targetparties>  | 22012 | PartyExecutingTrader | Υ        | 6   | 86  | Fixed String | Owning user name.                     |
| Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  22011 PartyOrder-OriginationTrader N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:targetParties">TargetParties</a> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 >TargetParty-  N 4 488 unsigned int Anonymous user ID   |       |                      |          |     |     |              | Valid characters: A-Z, 0-9, \x20      |
| Valid characters: \x20, \x28-\x28, \x20, \x28-\x28, \x28-\x28, \x41-\x5F, \x61-\x7B, \x7D, \x7E  | 25172 | FreeText5            | N        | 132 | 92  | Fixed String |                                       |
| PartyOrder-OriginationTrader   N   132   224   Fixed String   Buy-side user information   Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E     25225   ChargeID   N   132   356   Fixed String   Charge ID of Third Party Platform.   Valid characters: \x20, \x22-\x7B, \x7D, \x7E     < TargetParties > Cardinality: 0-50, Record counter: NoTargetPartyIDs   N   4   488   unsigned int   Anonymous user ID   Anonymous user ID  |       |                      |          |     |     |              | , , , ,                               |
| PartyOrder-OriginationTrader  N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID  N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:-x7B,x7D,x7E">&lt; TargetParties&gt; Cardinality: 0-50, Record counter: NoTargetPartyIDs</a> 20612 >TargetParty-  N 4 488 unsigned int Anonymous user ID   |       |                      |          |     |     |              |                                       |
| OriginationTrader  N 132 224 Fixed String Buy-side user information Valid characters: \x20, \x25\\x28-\x2A, \x26-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID  N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7D, \x7E <a href="mailto:targetParties">&lt; TargetParties</a> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 > TargetParty-  N 4 488 unsigned int Anonymous user ID   |       | Doub. Oudou          |          |     |     |              | \x5F, \x01-\x7B, \x7D, \x7E           |
| Valid characters: \x20, \x25-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  25225 ChargeID  N 132 356 Fixed String Charge ID of Third Party Platform. Valid characters: \x20, \x22-\x7B, \x7D, \x7E <targetparties> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 &gt;TargetParty-  N 4 488 unsigned int Anonymous user ID</targetparties>   | 22011 | 1                    | N        | 132 | 224 | Fixed String | Buy-side user information             |
| 25225   ChargeID   N   132   356   Fixed String   Charge ID of Third Party Platform.   Valid characters: \x20, \x22-\x7B, \x7D, \x7E   \int \text{TargetParties} \text{Cardinality: 0-50, Record counter: NoTargetPartyIDs}   N   4   488   unsigned int   Anonymous user ID   Anonymous user ID   |       | Origination trader   |          |     |     |              | Valid characters: \x20, \x23-\x25,    |
| 25225 ChargeID N 132 356 Fixed String Charge ID of Third Party Platform.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E <a href="mailto:cargetParties">TargetParties</a> Cardinality: 0-50, Record counter: NoTargetPartyIDs  20612 >TargetParty-  N 4 488 unsigned int Anonymous user ID  |       |                      |          |     |     |              |                                       |
| Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |       |                      |          |     |     |              |                                       |

| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---|-------|-----|-----|--------------|---|
| 25130 | >SideDisclosure-<br>Instruction                       | Y     | 1   | 492 | unsigned int | Instruction to show side.  Value Description  0 No  1 Yes   |
| 25131 | >PriceDisclosure-<br>Instruction                      | Y     | 1   | 493 | unsigned int | Instruction to show price.  Value Description  0 No  1 Yes  |
| 25137 | >LeavesQty-<br>DisclosureInstruction                  | Y     | 1   | 494 | unsigned int | Instruction to show leaves quantity.  Value Description  0 No  1 Yes  |
| 25146 | >LastPxDisclosure-<br>Instruction                     | Y     | 1   | 495 | unsigned int | Instruction to show last deal price.  Value Description  0 No  1 Yes  |
| 25147 | >LastQtyDisclosure-<br>Instruction                    | Y     | 1   | 496 | unsigned int | Instruction to show last deal quantity. Can only be set to 1 (Yes) if LastQty-DisclosureInstruction $= 1$ (Yes)  Value Description  0 No  1 Yes |
| 31814 | >Free-<br>Text5Disclosure-<br>Instruction             | Y     | 1   | 497 | unsigned int | Instruction to show FreeText5  Value Description  0 No  1 Yes   |
| 25190 | >PartyOrder-<br>OriginationDisclosure-<br>Instruction | Y     | 1   | 498 | unsigned int | Instruction to show buy-side user information  Value Description  0 No 1 Yes  |

| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                      |
|-------|-------------------------------------|-------|-----|-----|--------------|----------------------------------|
| 25138 | >QuoteInstruction                   | Y     | 1   | 499 | unsigned int | Quoting instruction.             |
|       |                                     |       |     |     |              | Value Description                |
|       |                                     |       |     |     |              | 0 Do not re-quote                |
|       |                                     |       |     |     |              | 1 (Re-)Quote                     |
|       | > Chargal D Disclosure              |       |     |     |              |                                  |
| 25226 | >ChargeIDDisclosure-<br>Instruction | Y     | 1   | 500 | unsigned int | Instruction to show Charge ID.   |
|       | instruction                         |       |     |     |              | Value Description                |
|       |                                     |       |     |     |              | 0 No                             |
|       |                                     |       |     |     |              | 1 Yes                            |
|       | >TargetParty-                       |       |     |     |              |                                  |
| 22601 | ExecutingFirm                       | N     | 5   | 501 | Fixed String | Name of target business unit.    |
|       |                                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20 |
| 22602 | >TargetParty-                       | N     | 6   | 506 | Fixed String | Name of target user/trader.      |
|       | ExecutingTrader                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20 |
| 1672  | >PartyDetailStatus                  | U     | 1   | 512 | unsigned int | not used                         |
| 25185 | >PartyDetailStatus-                 | U     | 1   | 513 | unsigned int | not used                         |
| 23103 | Information                         |       |     | 313 | ansigned int | not used                         |
| 39060 | >Pad6                               | U     | 6   | 514 | Fixed String | not used                         |

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|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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### 12.11 SRQS Negotiation Notification for Requester

This message informs the requester about SRQS negotiation updates.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|--|
| <messa< th=""><th colspan="11"><messageheaderout></messageheaderout></th></messa<>    | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                        |  |  |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |  |  |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10712 (Quote-          |  |  |  |  |  |
|   |                                       |       |     |     |              | ${\sf StatusReport,\ MsgType} = {\sf AI)}$ |  |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                   |  |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                               |       |     |     |              |  |  |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by       |  |  |  |  |  |
|   |                                       |       |     |     |              | the gateway                                |  |  |  |  |  |
| 1181  | ApplSeqNum                            | Y     | 8   | 16  | unsigned int | Application sequence number as-            |  |  |  |  |  |
|   |                                       |       |     |     |              | signed to a non-order related T7 ETI       |  |  |  |  |  |
|   |                                       |       |     |     |              | data stream.                               |  |  |  |  |  |
| 28727   | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system        |  |  |  |  |  |
|   |                                       |       |     |     |              | during broadcast subscription in order     |  |  |  |  |  |
|   |                                       |       |     |     |              | to link broadcasts to the related sub-     |  |  |  |  |  |
|   |                                       |       |     |     |              | scription.                                 |  |  |  |  |  |
| 5948  |                                       | U     | 2   | 28  | unsigned int | not used                                   |  |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.        |  |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |  |  |
|   |                                       |       |     |     |              | 0 False                                    |  |  |  |  |  |
|   |                                       |       |     |     |              | 1 True                                     |  |  |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.         |  |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |  |  |
|   |                                       |       |     |     |              | 9 SRQS Maintenance                         |  |  |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the      |  |  |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of      |  |  |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated        |  |  |  |  |  |
|   |                                       |       |     |     |              | transaction.                               |  |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                             |  |  |  |  |  |
| 20070   | D. 17                                 |       | 7   | 22  | Fig. 1.Ct.:  | land word                                  |  |  |  |  |  |
| 39070   |                                       | U     | 7   | 33  | Fixed String | not used                                   |  |  |  |  |  |
|   | geBody>                               | \ \/  | 0   | 40  | LITCT:       | Transaction timesets                       |  |  |  |  |  |
| 60  | TransactTime                          | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                     |  |  |  |  |  |
| 21001   | TrdRegTSExecution-                    | N     | 8   | 48  | UTCTimestamp | Time of the last SRQS Deal                 |  |  |  |  |  |
|   | Time                                  |       |     |     |              |  |  |  |  |  |  |

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type      | Description                            |
|-------|---------------------|-------|-----|-----|----------------|--|
| 28759 | QuoteRefPrice       | N     | 8   | 56  | PriceType      | Depending upon Negotiation work-       |
|       |                     |       |     |     |                | flow this price can either be a refer- |
|       |                     |       |     |     |                | ence price or an underlying price      |
| 25149 | UnderlyingDelta-    | N     | 8   | 64  | floatDecimal4  | The effective underlying delta of a    |
| 23113 | Percentage          |       | O   | 01  | nout Decimar 1 | Vola-Strategy                          |
| 132   | BidPx               | N     | 8   | 72  | PriceType      | Bid price/rate.                        |
| 133   |                     | N     | 8   | 80  | PriceType      | Offer price/rate.                      |
| 38    |                     | N     | 8   | 88  | Qty            | Total quantity of the SRQS negotia-    |
|       |                     |       |     |     |                | tion.                                  |
| 31    | LastPx              | N     | 8   | 96  | PriceType      | Price of this fill.                    |
| 151   | LeavesQty           | N     | 8   | 104 | Qty            | Open quantity of the SRQS negotia-     |
|       |                     |       |     |     |                | tion.                                  |
| 32    | LastQty             | N     | 8   | 112 | Qty            | Quantity executed in this fill.        |
| 168   | EffectiveTime       | N     | 8   | 120 | UTCTimestamp   | Time an SRQS STP deal is executed      |
| 779   | LastUpdateTime      | N     | 8   | 128 | UTCTimestamp   | Creation timestamp of the strategy.    |
| 25184 | TradeToRequestRatio | N     | 8   | 136 | floatDecimal4  | Ratio indicating amount of Trades to   |
|       |                     |       |     |     |                | RFQ requested                          |
| 28758 | NegotiationID       | Y     | 4   | 144 | unsigned int   | ID of a SRQS negotiation               |
| 25150 | NumberOf-           | N     | 4   | 148 | unsigned int   | Total number of Respondents in a       |
| 25150 | Respondents         | 14    | 7   | 140 | unsigned int   | SRQS event.                            |
| 537   | QuoteType           | Υ     | 1   | 152 | unsigned int   | Quote Type                             |
|       | , and the second    |       |     |     |                |  |
|       |                     |       |     |     |                | Value Description                      |
|       |                     |       |     |     |                | Indicative (for Continuous             |
|       |                     |       |     |     |                | Auction Issuer trading model           |
|       |                     |       |     |     |                | and Eurex/Xetra EnLight only)          |
|       |                     |       |     |     |                | 1 Tradeable                            |
|       |                     |       |     |     |                | T   Itadeable                          |
|       |                     |       |     |     |                |  |

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| Tag   | Field Name                             | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 28786 | QuoteSubType                           | Υ     | 1   | 153 | unsigned int | Sub-type of QuoteType  |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | 1 Working Delta  |
|       |  |       |     |     |              | 2 Basis Trade  |
|       |  |       |     |     |              | 3 Regular LDS Negotiation  |
|       |  |       |     |     |              | 4 Negotiate the underlying outside the exchange  |
|       |  |       |     |     |              | Option Volatility Strategy 5 with fixed Underlying price and delta                             |
|       |  |       |     |     |              | Option Volatility Strategy - 6 Underlying price is negotiated on exchange                      |
| 1172  | RespondentType                         | N     | 1   | 154 | unsigned int | Specifies the type of respondents requested. Set for activation of a suspended negotiation.    |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | Respondents are known during a negotiation   |
|       |  |       |     |     |              | Respondents are anonymized after negotiation start, Requester will remain anonymous from start |
| 1461  | NoTargetPartyIDs                       | Υ     | 1   | 155 | Counter      | Number of TargetParties records.   |
| 25145 | NumberOfResp-<br>DisclosureInstruction | Y     | 1   | 156 | unsigned int | Instruction to show total number of Respondents in an EnLight event.                           |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | 0 No<br>1 Yes  |
| 54    | Side                                   | N     | 1   | 157 | unsigned int | Side of the order.   |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | 1 Buy  |
|       |  |       |     |     |              | 2 Sell   |
|       |  |       |     |     |              |  |

| Tag    | Field Name                         | Req'd     | Len    | Ofs    | Data Type         | Description   |
|--------|------------------------------------|-----------|--------|--------|-------------------|---|
| 25194  | ShowLastDealOn-Closure             | Y         | 1      | 158    | unsigned int      | Instruction to show last deal information after negotiation closure  Value Description  0 No  1 Yes   |
| 2788   | TradeAggregation-<br>TransType     | N         | 1      | 159    | unsigned int      | Trade Aggregation Identifier.  Value Description  0 New   |
| 276    | QuoteCondition                     | Y         | 1      | 160    | char              | Status of the quote.  Value Description  A Active  B Closed   |
| 22001  | PartyExecutingFirm                 | Y         | 5      | 161    | Fixed String      | Owning business unit name.  Valid characters: A-Z, 0-9, \x20  |
| 22012  | PartyExecutingTrader               | Y         | 6      | 166    | Fixed String      | Owning user name.  Valid characters: A-Z, 0-9, \x20   |
| 22036  | PartyEnteringTrader                | Y         | 6      | 172    | Fixed String      | The entering user Valid characters: A-Z, 0-9, \x20  |
| 28762  | FirmNegotiationID                  | N         | 20     | 178    | Fixed String      | User defined ID of a SRQS negotiation Valid characters: \x01-\x7E   |
| 25172  | FreeText5                          | N         | 132    | 198    | Fixed String      | Text field  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |
| 22011  | PartyOrder-<br>OriginationTrader   | N         | 132    | 330    | Fixed String      | Buy-side user information Valid characters: $\x20$ , $\x23-\x25$ , $\x28-\x2A$ , $\x2C-\x3B$ , $\x3F$ , $\x41-\x5F$ , $\x61-\x7B$ , $\x7D$ , $\x7E$ |
| 25225  | ChargeID                           | N         | 132    | 462    | Fixed String      | Charge ID of Third Party Platform. Valid characters: $\x20$ , $\x22$ - $\x7D$ , $\x7E$  |
| 39060  | Pad6                               | U         | 6      | 594    | Fixed String      | not used  |
| < Targ | retParties> Cardinality:           | 0 - 50, F | Record | counte | er: NoTargetParty | vIDs  |
| 20612  | >TargetParty-<br>IDExecutingTrader | N         | 4      | 600    | unsigned int      | Anonymous user ID   |

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                  |
|-------|---------------------------------------|-------|-----|-----|--------------|--|
| 25130 | >SideDisclosure-                      | Y     | 1   | 604 | unsigned int | Instruction to show side.                    |
|       | Instruction                           |       |     |     | G            | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       |                                       |       |     |     |              |  |
| 25131 | >PriceDisclosure-<br>Instruction      | Y     | 1   | 605 | unsigned int | Instruction to show price.                   |
|       |                                       |       |     |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
| 25137 | >LeavesQty- DisclosureInstruction     | Y     | 1   | 606 | unsigned int | Instruction to show leaves quantity.         |
|       | Disclosureinstruction                 |       |     |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       |                                       |       |     |     |              |  |
| 25146 | >LastPxDisclosure-<br>Instruction     | Y     | 1   | 607 | unsigned int | Instruction to show last deal price.         |
|       |                                       |       |     |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       | . 1 . 0. D: 1                         |       |     |     |              |  |
| 25147 | >LastQtyDisclosure-<br>Instruction    | Y     | 1   | 608 | unsigned int | Instruction to show last deal quantity.      |
|       | Instruction                           |       |     |     |              | Can only be set to 1 (Yes) if LastQty-       |
|       |                                       |       |     |     |              | ${\sf DisclosureInstruction} = 1({\sf Yes})$ |
|       |                                       |       |     |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |       |     |     |              |  |
| 31814 | >Free-<br>Text5Disclosure-            | Y     | 1   | 609 | unsigned int | Instruction to show FreeText5                |
|       | Instruction                           | '     | -   |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       |                                       |       |     |     |              |  |
|       | >PartyOrder-                          |       |     |     |              |  |
| 25190 | 0                                     | Y     | 1   | 610 | unsigned int | Instruction to show buy-side user in-        |
|       | Instruction                           |       |     |     |              | formation                                    |
|       |                                       |       |     |     |              | Value Description                            |
|       |                                       |       |     |     |              | 0 No   |
|       |                                       |       |     |     |              | 1 Yes  |
|       |                                       |       |     |     |              |  |

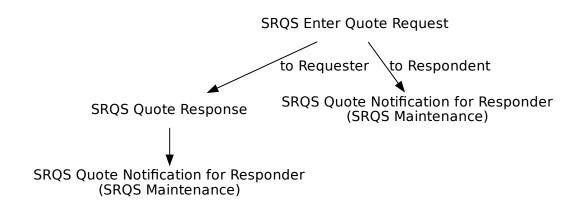
| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------------|-------|-----|-----|--------------|---|
| 25138 | >QuoteInstruction                   | Υ     | 1   | 611 | unsigned int | Quoting instruction.  |
|       |                                     |       |     |     |              | Value Description   |
|       |                                     |       |     |     |              | 0 Do not re-quote   |
|       |                                     |       |     |     |              | 1 (Re-)Quote  |
| 25226 | >ChargeIDDisclosure-<br>Instruction | Y     | 1   | 612 | unsigned int | Instruction to show Charge ID.  Value Description               |
|       |                                     |       |     |     |              | 0 No  |
|       |                                     |       |     |     |              | 1 Yes   |
| 22601 | >TargetParty-<br>ExecutingFirm      | N     | 5   | 613 | Fixed String | Name of target business unit.  Valid characters: A-Z, 0-9, \x20 |
| 22602 | >TargetParty-<br>ExecutingTrader    | N     | 6   | 618 | Fixed String | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20   |
| 1672  | >PartyDetailStatus                  | N     | 1   | 624 | unsigned int | Member status.  |
|       |                                     |       |     |     |              | Value Description   |
|       |                                     |       |     |     |              | 0 Active  |
|       |                                     |       |     |     |              | 1 Suspend   |
|       |                                     |       |     |     |              | 2 Rejected  |
| 25185 | >PartyDetailStatus-<br>Information  | N     | 1   | 625 | unsigned int | Reason for a responder reject                                   |
|       |                                     |       |     |     |              | Value Description   |
|       |                                     |       |     |     |              | High TRR (TradeToRequest-Ratio) threshold                       |
|       |                                     |       |     |     |              | 2 Anonymous negotiation blocked by responder                    |
| 39060 | >Pad6                               | U     | 6   | 626 | Fixed String | not used  |

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#### 12.12 SRQS Enter Quote Request

This message is submitted by any (targeted) respondent within the context of a SRQS negotiation (in order to respond to a RfQ). This message is sent to the service "Selective Request for Quote Service".



| Tag   | Field Name       | Req'd | Len | Ofs | Data Type     | Description                          |
|---|------------------|-------|-----|-----|---------------|--------------------------------------|
| < Messa   | geHeaderIn>      |       |     |     |               |                                      |
| 9   | BodyLen          | Υ     | 4   | 0   | unsigned int  | Number of bytes for the message, in- |
|   |                  |       |     |     |               | cluding this field.                  |
| 28500   | TemplateID       | Υ     | 2   | 4   | unsigned int  | Unique identifier for a T7 ETI mes-  |
|   |                  |       |     |     |               | sage layout. Value: 10702 (Quote-    |
|   |                  |       |     |     |               | Request,  MsgType = R)               |
| 25028   | NetworkMsgID     | U     | 8   | 6   | Fixed String  | not used                             |
| 39020   | Pad2             | U     | 2   | 14  | Fixed String  | not used                             |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>        |       |     |     |               |                                      |
| 34  | MsgSeqNum        | Υ     | 4   | 16  | unsigned int  | Message sequence number used by the  |
|   |                  |       |     |     |               | participant for requests sent to the |
|   |                  |       |     |     |               | gateway.                             |
| 50  | SenderSubID      | Υ     | 4   | 20  | unsigned int  | User ID.                             |
| < Messa   | geBody>          |       |     |     |               |                                      |
| 132   | BidPx            | N     | 8   | 24  | PriceType     | Bid price/rate.                      |
| 133   | OfferPx          | N     | 8   | 32  | PriceType     | Offer price/rate.                    |
| 25149   | UnderlyingDelta- | N     | 8   | 40  | floatDecimal4 | The effective underlying delta of a  |
| 23149   | Percentage       | IN    | O   | 40  | noatDecimal4  | , ,                                  |
| 124   | D:4C:            | N     | 8   | 48  | O+.           | Vola-Strategy                        |
| 134   |                  |       | _   |     | Qty           | Quantity of bid.                     |
| 135   | OfferSize        | N     | 8   | 56  | Qty           | Quantity of offer.                   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 20003 | PartyIDClientID                       | N     | 8   | 64  | unsigned int | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to    |
|       |                                       |       |     |     |              | identify the client of an order for agent                                 |
|       |                                       |       |     |     |              | account of the member or partici-   |
|       |                                       |       |     |     |              | pant of the trading venue. If the   |
|       |                                       |       |     |     |              | Client Identifier field is not provided                                   |
|       |                                       |       |     |     |              | for agent orders, then they will be re-                                   |
|       |                                       |       |     |     |              | jected. For orders sent with Trading                                      |
|       |                                       |       |     |     |              | Capacity Proprietary or Market Mak-                                       |
|       |                                       |       |     |     |              | ing, the Client Identifier field may re-                                  |
|       |                                       |       |     |     |              | main empty.   |
| 20122 | PartyldInvestment-                    | N     | 8   | 72  | unsigned int | MiFID field: Investment decision  |
|       | DecisionMaker                         |       |     |     |              | within firm (ESMA Field 4 (Section  |
|       |                                       |       |     |     |              | A)) is the code used to identify the                                      |
|       |                                       |       |     |     |              | person or the algorithm within the  |
|       |                                       |       |     |     |              | member or participant of the Trading                                      |
|       |                                       |       |     |     |              | Venue who is responsible for the in-                                      |
| 05100 | E .: T .                              | N.    | 0   | 00  |              | vestment decision.  |
| 25123 | ExecutingTrader                       | N     | 8   | 80  | unsigned int | MiFID field: Executing Trader data<br>Field(ESMA Field 5 (Section A))used |
|       |                                       |       |     |     |              | to identify the person or algorithm                                       |
|       |                                       |       |     |     |              | within the member or participant of                                       |
|       |                                       |       |     |     |              | the trading venue who is responsible                                      |
|       |                                       |       |     |     |              | for the execution of the transaction re-                                  |
|       |                                       |       |     |     |              | sulting from the order.   |
| 28759 | QuoteRefPrice                         | N     | 8   | 88  | PriceType    | Depending upon Negotiation work-  |
|       |                                       |       |     |     |              | flow this price can either be a refer-                                    |
|       |                                       |       |     |     |              | ence price or an underlying price   |
| 62    | ValidUntilTime                        | N     | 8   | 96  | UTCTimestamp | Time until an entity is valid.  |
| 1300  | MarketSegmentID                       | Y     | 4   | 104 | signed int   | Product identifier.   |
| 28758 | NegotiationID                         | Y     | 4   | 108 | unsigned int | ID of a SRQS negotiation  |
| 23002 | OrderAttribute-<br>LiquidityProvision | N     | 1   | 112 | unsigned int | MiFID field: Indication as to whether                                     |
|       | Liquidityi Tovision                   |       |     |     |              | an order is submitted to a Trading  |
|       |                                       |       |     |     |              | Venue as part of a market making  |
|       |                                       |       |     |     |              | strategy.   |
|       |                                       |       |     |     |              | Value Description   |
|       |                                       |       |     |     |              | 1 Liquidity provision   |
|       |                                       |       |     |     |              | 0 No liquidity provision  |
|       |                                       |       |     |     |              |   |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 25124 | Executing Trader-<br>Qualifier                    | N     | 1   | 113 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 114 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 1815  | TradingCapacity                                   | N     | 1   | 115 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker  |
| 22001 | PartyExecutingFirm                                | Y     | 5   | 116 | Fixed String | Owning business unit name.  Valid characters: A-Z, 0-9, \x20   |
| 22012 | PartyExecutingTrader                              | Y     | 6   | 121 | Fixed String | Owning user name.  Valid characters: A-Z, 0-9, \x20  |
| 25007 | FreeText1   | N     | 12  | 127 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------|-------|-----|-----|--------------|--|
| 25008 | FreeText2          | N     | 12  | 139 | Fixed String | Second free-format text field for        |
|       |                    |       |     |     |              | trader specific or customer-related      |
|       |                    |       |     |     |              | comments                                 |
|       |                    |       |     |     |              | Valid characters: \x20, \x23-\x25,       |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25009 | FreeText3          | N     | 12  | 151 | Fixed String | Third free-format text field for trader- |
|       |                    |       |     |     |              | specific or customer-related com-        |
|       |                    |       |     |     |              | ments.                                   |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25172 | FreeText5          | N     | 132 | 163 | Fixed String | Text field                               |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 77    | PositionEffect     | N     | 1   | 295 | char         | Field is used for T7 position manage-    |
|       |                    |       |     |     |              | ment purposes and indicates whether      |
|       |                    |       |     |     |              | the order is submitted to open or close  |
|       |                    |       |     |     |              | a position.                              |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | C Close                                  |
|       |                    |       |     |     |              | O Open                                   |
|       |                    |       |     |     |              |  |
| 1     | Account            | N     | 2   | 296 | Fixed String | Accounts to book trades and keep po-     |
|       |                    |       |     |     |              | sitions on.                              |
|       |                    |       |     |     |              | Valid characters: 1-9, \x41, \x47,       |
|       |                    |       |     |     |              | \x49, \x4D, \x50, \x52                   |
| 20032 | PartyIDBeneficiary | N     | 9   | 298 | Fixed String | Final Beneficiary                        |
|       |                    |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |

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| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-<br>Inst       | N     | 1   | 307 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 308 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20038 | PartyIDPosition-<br>Account      | N     | 32  | 315 | Fixed String | 'Flexible Account' information. Valid characters: $\xspace \times 20$ , $\xspace \times 30-\xspace \times 30$ , $\xspace \times 41-\xspace \times 5A$  |
| 20075 | PartyIDLocationID                | N     | 2   | 347 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 2404  | ComplianceText                   | N     | 20  | 349 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 369 | Fixed String | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20   |
| 39020 | Pad2                             | U     | 2   | 374 | Fixed String | not used   |

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#### 12.13 SRQS Quote Notification for Responder

This message informs both, requester and quote submitting respondent about a quote entry within the context of a SRQS negotiation.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|
| <messa< td=""><td colspan="10"><messageheaderout></messageheaderout></td></messa<>    | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10707 (Quote,      |  |  |  |  |
|   |                                       |       |     |     |              | MsgType = S                            |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                               |       |     |     |              |  |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |  |
|   |                                       |       |     |     |              | the gateway                            |  |  |  |  |
| 1181  | ApplSeqNum                            | U     | 8   | 16  | unsigned int | not used                               |  |  |  |  |
| 28727   | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |  |  |  |  |
|   |                                       |       |     |     |              | during broadcast subscription in order |  |  |  |  |
|   |                                       |       |     |     |              | to link broadcasts to the related sub- |  |  |  |  |
|   |                                       |       |     |     |              | scription.                             |  |  |  |  |
| 5948  | PartitionID                           | U     | 2   | 28  | unsigned int | not used                               |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 0 False                                |  |  |  |  |
|   |                                       |       |     |     |              | 1 True                                 |  |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 9 SRQS Maintenance                     |  |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |  |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of  |  |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 33  | Fixed String | not used                               |  |  |  |  |
|   | geBody>                               |       | '   |     | Tixed String |  |  |  |  |  |
| 60  |                                       | Υ     | 8   | 40  | UTCTimestamp | Transaction timestamp.                 |  |  |  |  |
| 117   |                                       | N     | 8   | 48  | unsigned int | System defined quote identifier.       |  |  |  |  |
| 1751  | •                                     | N     | 8   | 56  | unsigned int | Identifier of the replaced quote.      |  |  |  |  |
| 132   | •                                     | N     | 8   | 64  | PriceType    | Bid price/rate.                        |  |  |  |  |
|   | DIUFX                                 | IN    |     | 04  | Тпсетуре     | Did price/rate.                        |  |  |  |  |

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| Tag   | Field Name           | Req'd | Len | Ofs | Data Type     | Description                            |
|-------|----------------------|-------|-----|-----|---------------|--|
| 134   | BidSize              | N     | 8   | 72  | Qty           | Quantity of bid.                       |
| 133   | OfferPx              | N     | 8   | 80  | PriceType     | Offer price/rate.                      |
| 135   | OfferSize            | N     | 8   | 88  | Qty           | Quantity of offer.                     |
| 25149 | UnderlyingDelta-     | N     | 8   | 96  | floatDecimal4 | The effective underlying delta of a    |
| 23149 | Percentage           | I N   | 0   | 90  | noat Decimal4 | Vola-Strategy                          |
| 28759 | QuoteRefPrice        | N     | 8   | 104 | PriceType     | Depending upon Negotiation work-       |
|       |                      |       |     |     | , , ,         | flow this price can either be a refer- |
|       |                      |       |     |     |               | ence price or an underlying price      |
| 126   | ExpireTime           | N     | 8   | 112 | UTCTimestamp  | Time an entity expires.                |
| 28758 | NegotiationID        | Y     | 4   | 120 | unsigned int  | ID of a SRQS negotiation               |
| 28787 | QuotingStatus        | Υ     | 1   | 124 | unsigned int  | Quoting status for the executing party |
|       |                      |       |     |     |               |  |
|       |                      |       |     |     |               | Value Description                      |
|       |                      |       |     |     |               | 1 Open/Active                          |
|       |                      |       |     |     |               | 2 Open/Working                         |
|       |                      |       |     |     |               | 3 Closed/Inactive                      |
|       |                      |       |     |     |               |  |
| 1815  | TradingCapacity      | N     | 1   | 125 | unsigned int  | This field designates if the trader is |
|       |                      |       |     |     |               | acting in the capacity of agent, trad- |
|       |                      |       |     |     |               | ing for its own account or acting as a |
|       |                      |       |     |     |               | market maker.                          |
|       |                      |       |     |     |               | Value Description                      |
|       |                      |       |     |     |               | 1 Customer (Agency)                    |
|       |                      |       |     |     |               | 5 Principal (Proprietary)              |
|       |                      |       |     |     |               | 6 Market Maker                         |
| 28747 | QuoteCancelReason    | N     | 1   | 126 | unsigned int  | Reason for quote cancellation.         |
|       |                      |       |     |     |               | Value Description                      |
|       |                      |       |     |     |               |  |
|       |                      |       |     |     |               | 5 Expired                              |
| 39000 | Pad1                 | U     | 1   | 127 | Fixed String  | not used                               |
| 20212 | PartyIDExecuting-    | N.    |     | 100 |               | A ID                                   |
| 20012 | Trader               | N     | 4   | 128 | unsigned int  | Anonymous user ID                      |
| 22001 | PartyExecutingFirm   | N     | 5   | 132 | Fixed String  | Owning business unit name.             |
|       |                      |       |     |     |               | Valid characters: A-Z, 0-9, \x20       |
| 22012 | PartyExecutingTrader | N     | 6   | 137 | Fixed String  | Owning user name.                      |
|       |                      |       |     |     |               | Valid characters: A-Z, 0-9, \x20       |
| 22036 | PartyEnteringTrader  | N     | 6   | 143 | Fixed String  | The entering user                      |
|       |                      |       |     |     |               | Valid characters: A-Z, 0-9, \x20       |
| 131   | QuoteReqID           | N     | 20  | 149 | Fixed String  | SRQS negotiation report ID             |
|       |                      |       |     |     |               | Valid characters: \x01-\x7E            |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------|-------|-----|-----|--------------|--|
| 25007 | FreeText1          | N     | 12  | 169 | Fixed String | First free-format text field for trader  |
|       |                    |       |     |     |              | specific or customer-related com-        |
|       |                    |       |     |     |              | ments                                    |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25008 | FreeText2          | N     | 12  | 181 | Fixed String | Second free-format text field for        |
|       |                    |       |     |     |              | trader specific or customer-related      |
|       |                    |       |     |     |              | comments                                 |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25009 | FreeText3          | N     | 12  | 193 | Fixed String | Third free-format text field for trader- |
|       |                    |       |     |     |              | specific or customer-related com-        |
|       |                    |       |     |     |              | ments.                                   |
|       |                    |       |     |     |              | Valid characters: \x20, \x23-\x25,       |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
| 25172 | F                  | N     | 120 | 205 | Fired Carino | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25172 | FreeText5          | IN    | 132 | 205 | Fixed String | Valid characters: \x20, \x23-\x25,       |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 77    | PositionEffect     | N     | 1   | 337 | <br>char     | Field is used for T7 position manage-    |
| ''    | T OSITIONETICET    | ''    | -   |     | Cital        | ment purposes and indicates whether      |
|       |                    |       |     |     |              | the order is submitted to open or close  |
|       |                    |       |     |     |              | a position.                              |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | C Close                                  |
|       |                    |       |     |     |              | O Open                                   |
|       |                    |       |     |     |              | Орен                                     |
| 1     | Account            | N     | 2   | 338 | Fixed String | Accounts to book trades and keep po-     |
|       |                    |       |     |     |              | sitions on.                              |
|       |                    |       |     |     |              | Valid characters: 1-9, \x41, \x47,       |
|       |                    |       |     |     |              | \x49, \x4D, \x50, \x52                   |
| 20032 | PartyIDBeneficiary | N     | 9   | 340 | Fixed String | Final Beneficiary                        |
|       |                    |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |

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| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-<br>Inst       | N     | 1   | 349 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 350 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20038 | PartyIDPosition-<br>Account      | N     | 32  | 357 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 20075 | PartyIDLocationID                | N     | 2   | 389 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 2404  | ComplianceText                   | N     | 20  | 391 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 411 | Fixed String | Take-up Member Short Name.<br>Valid characters: A-Z, 0-9, \x20   |

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## 12.14 SRQS Enter Quoting Status Request

This message is used to enter a SRQS quoting status. This message is sent to the service "Selective Request for Quote Service".

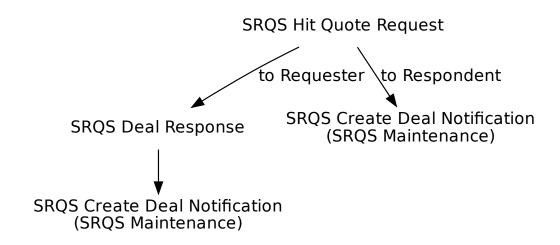
| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description  |
|---|----------------------|-------|-----|-----|--------------|--|
| <messa< th=""><th>geHeaderIn&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<> | geHeaderIn>          |       |     |     |              |  |
| 9   | BodyLen              | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.   |
| 28500   | TemplateID           | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10717 (Mass-QuoteAcknowledgement, MsgType = b) |
| 25028   | NetworkMsgID         | U     | 8   | 6   | Fixed String | not used   |
| 39020   | Pad2                 | U     | 2   | 14  | Fixed String | not used   |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<>   | stHeader>            |       |     |     |              |  |
| 34  | MsgSeqNum            | Y     | 4   | 16  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.                    |
| 50  | SenderSubID          | Υ     | 4   | 20  | unsigned int | User ID.   |
| <messa< td=""><td>geBody&gt;</td><td>'</td><td></td><td>'</td><td></td><td></td></messa<>   | geBody>              | '     |     | '   |              |  |
| 1300  | MarketSegmentID      | Υ     | 4   | 24  | signed int   | Product identifier.  |
| 28758   | NegotiationID        | Y     | 4   | 28  | unsigned int | ID of a SRQS negotiation   |
| 28787   | QuotingStatus        | N     | 1   | 32  | unsigned int | Quoting status for the executing party   |
|   |                      |       |     |     |              | Value Description  |
|   |                      |       |     |     |              | 2 Open/Working   |
|   |                      |       |     |     |              | 3 Closed/Inactive  |
| 22001   | PartyExecutingFirm   | Y     | 5   | 33  | Fixed String | Owning business unit name.  Valid characters: A-Z, 0-9, \x20   |
| 22012   | PartyExecutingTrader | Υ     | 6   | 38  | Fixed String | Owning user name.  |
|   |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20   |
| 25172   | FreeText5            | N     | 132 | 44  | Fixed String | Text field   |
|   |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,   |
|   |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-  |
|   |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E  |

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| Derivatives Message Reference          |  |  |  |  |  |  |

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#### 12.15 SRQS Hit Quote Request

The message is submitted by the requester in order to create a SRQS deal by targeting a specific quote side of one of the respondents. This message is sent to the service "Selective Request for Quote Service".



| Tag     | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |  |  |
|---------|-------------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|--|--|
| < Messa | <messageheaderin></messageheaderin> |       |     |     |              |                                      |  |  |  |  |  |
| 9       | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |  |  |
|         |                                     |       |     |     |              | cluding this field.                  |  |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |  |  |  |
|         |                                     |       |     |     |              | sage layout. Value: 10704 (Quote-    |  |  |  |  |  |
|         |                                     |       |     |     |              | Response, $MsgType = AJ$ )           |  |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                             |  |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                             |  |  |  |  |  |
| < Reque | stHeader>                           |       |     |     |              |                                      |  |  |  |  |  |
| 34      | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the  |  |  |  |  |  |
|         |                                     |       |     |     |              | participant for requests sent to the |  |  |  |  |  |
|         |                                     |       |     |     |              | gateway.                             |  |  |  |  |  |
| 50      | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.                             |  |  |  |  |  |
| < Messa | geBody>                             |       |     |     |              |                                      |  |  |  |  |  |
| 62      | ValidUntilTime                      | N     | 8   | 24  | UTCTimestamp | Time until an entity is valid.       |  |  |  |  |  |
| 879     | UnderlyingQty                       | N     | 8   | 32  | Qty          | Nominal value of an underlying       |  |  |  |  |  |
| 30889   | UnderlyingPriceStip-<br>Value       | N     | 8   | 40  | PriceType    | Limit price for the underlying price |  |  |  |  |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                               |
|-------|--------------------|-------|-----|-----|--------------|---|
| 20003 | PartyIDClientID    | N     | 8   | 48  | unsigned int | MiFID field: Client Identifier field      |
|       |                    |       |     |     |              | (ESMA Field 3 (Section A))used to         |
|       |                    |       |     |     |              | identify the client of an order for agent |
|       |                    |       |     |     |              | account of the member or partici-         |
|       |                    |       |     |     |              | pant of the trading venue. If the         |
|       |                    |       |     |     |              | Client Identifier field is not provided   |
|       |                    |       |     |     |              | for agent orders, then they will be re-   |
|       |                    |       |     |     |              | jected. For orders sent with Trading      |
|       |                    |       |     |     |              | Capacity Proprietary or Market Mak-       |
|       |                    |       |     |     |              | ing, the Client Identifier field may re-  |
|       |                    |       |     |     |              | main empty.                               |
| 20122 | PartyldInvestment- | N     | 8   | 56  | unsigned int | MiFID field: Investment decision          |
|       | DecisionMaker      |       |     |     |              | within firm (ESMA Field 4 (Section        |
|       |                    |       |     |     |              | A)) is the code used to identify the      |
|       |                    |       |     |     |              | person or the algorithm within the        |
|       |                    |       |     |     |              | member or participant of the Trading      |
|       |                    |       |     |     |              | Venue who is responsible for the in-      |
|       |                    |       |     |     |              | vestment decision.                        |
| 25123 | ExecutingTrader    | N     | 8   | 64  | unsigned int | MiFID field: Executing Trader data        |
|       |                    |       |     |     |              | Field(ESMA Field 5 (Section A))used       |
|       |                    |       |     |     |              | to identify the person or algorithm       |
|       |                    |       |     |     |              | within the member or participant of       |
|       |                    |       |     |     |              | the trading venue who is responsible      |
|       |                    |       |     |     |              | for the execution of the transaction re-  |
| 1000  |                    |       |     |     |              | sulting from the order.                   |
|       | MarketSegmentID    | Y     | 4   | 72  | signed int   | Product identifier.                       |
| 28758 |                    | Y     | 4   | 76  | unsigned int | ID of a SRQS negotiation                  |
| 23002 | OrderAttribute-    | N     | 1   | 80  | unsigned int | MiFID field: Indication as to whether     |
|       | LiquidityProvision |       |     |     |              | an order is submitted to a Trading        |
|       |                    |       |     |     |              | Venue as part of a market making          |
|       |                    |       |     |     |              | strategy.                                 |
|       |                    |       |     |     |              | Value Description                         |
|       |                    |       |     |     |              | 1 Liquidity provision                     |
|       |                    |       |     |     |              | 0 No liquidity provision                  |
|       |                    |       |     |     |              | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1     |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 25124 | Executing Trader-<br>Qualifier                    | N     | 1   | 81  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 21222 | PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 82  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 1815  | TradingCapacity                                   | N     | 1   | 83  | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker  |
| 1390  | TradePublishIndicator                             | N     | 1   | 84  | unsigned int | Indicates if a trade should be reported via the market reporting service.  Value Description  0 Do Not Publish Trade  1 Publish Trade  |
| 1724  | OrderOrigination                                  | N     | 1   | 85  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |

|       | Field Name           | Req'd | Len | Ofs | Data Type    | Description   |
|-------|----------------------|-------|-----|-----|--------------|---|
| 30059 | HedgingInstruction   | N     | 1   | 86  | unsigned int | Indication for the hedge transaction  |
|       |                      |       |     |     |              | Value Description   |
|       |                      |       |     |     |              | Execute hedge transaction in  |
|       |                      |       |     |     |              | 1 the closing auction of the un-  |
|       |                      |       |     |     |              | derlying  |
|       |                      |       |     |     |              |   |
| 25218 | NoSRQSQuoteGrps      | Υ     | 1   | 87  | Counter      | Number of SRQS quotes   |
| 22001 | PartyExecutingFirm   | Y     | 5   | 88  | Fixed String | Owning business unit name.  |
|       |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 22012 | PartyExecutingTrader | Y     | 6   | 93  | Fixed String | Owning user name.   |
|       |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 1041  | FirmTradelD          | N     | 20  | 99  | Fixed String | User defined deal ID  |
|       |                      |       |     |     |              | Valid characters: \x01-\x7E   |
| 25007 | FreeText1            | N     | 12  | 119 | Fixed String | First free-format text field for trader                                     |
|       |                      |       |     |     |              | specific or customer-related com-   |
|       |                      |       |     |     |              | ments   |
|       |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,  |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | FreeText2            | N     | 12  | 131 | Fixed String | Second free-format text field for   |
|       |                      |       |     |     |              | trader specific or customer-related   |
|       |                      |       |     |     |              | comments  |
|       |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,  |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
| 25000 | FreeText3            | N     | 12  | 143 | Fixed String | \x5F, \x61-\x7B, \x7D, \x7E  Third free-format text field for trader-       |
| 23009 | Free Lext3           | IN    | 12  | 143 | rixed String | specific or customer-related com-   |
|       |                      |       |     |     |              | ments.  |
|       |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,  |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 25172 | FreeText5            | N     | 132 | 155 | Fixed String | Text field  |
|       |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,  |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 77    | PositionEffect       | N     | 1   | 287 | char         | Field is used for T7 position manage-                                       |
|       |                      |       |     |     |              | ment purposes and indicates whether   |
|       |                      |       |     |     |              | the order is submitted to open or close                                     |
|       |                      |       |     |     |              | a position.   |
|       |                      |       |     |     |              | Value Description   |
|       |                      |       |     |     |              |   |
|       |                      |       |     |     |              | O Open  |
|       |                      |       |     |     |              | Орен  |
| 77    | PositionEffect       | N     | 1   | 287 | char         | ment purposes and indicates whether the order is submitted to open or close |

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| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 1     | Account                          | N     | 2   | 288 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x40, \x50, \x52  |
| 20032 | PartyIDBeneficiary               | N     | 9   | 290 | Fixed String | Final Beneficiary  Valid characters: A-Z, 0-9, \x20  |
| 1031  | CustOrderHandling-Inst           | N     | 1   | 299 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 300 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20038 | PartyIDPosition-<br>Account      | N     | 32  | 307 | Fixed String | 'Flexible Account' information. Valid characters: $\x20$ , $\x30$ - $\x39$ , $\x41$ - $\x5A$   |
| 20075 | PartyIDLocationID                | N     | 2   | 339 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 2404  | ComplianceText                   | N     | 20  | 341 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |

| Tag  | Field Name                        | Req'd | Len | Ofs | Data Type    | Description  |
|--|-----------------------------------|-------|-----|-----|--------------|--|
| 20096  | PartyIDTakeUp-<br>TradingFirm     | N     | 5   | 361 | Fixed String | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20   |
| 25241  | PartyEndClient-<br>Identification | N     | 5   | 366 | Fixed String | End client identifier.  Valid characters: A-Z, 0-9, \x20, \x5F |
| 39050  | Pad5                              | U     | 5   | 371 | Fixed String | not used   |
| <srqshitquotegrp> Cardinality: 0-30, Record counter: NoSRQSQuoteGrps</srqshitquotegrp> |                                   |       |     |     |              |  |
| 38   | >OrderQty                         | Y     | 8   | 376 | Qty          | Total Order Quantity.  |
| 117  | >QuoteID                          | Y     | 8   | 384 | unsigned int | Customer defined mass quote identifier.                        |
| 54   | >Side                             | Y     | 1   | 392 | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell           |
| 39070  | >Pad7                             | U     | 7   | 393 | Fixed String | not used   |

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## 12.16 SRQS Deal Response

This message confirms the SRQS Hit Quote and SRQS Update Deal requests.

| Tag   | Field Name                            | Req'd    | Len  | Ofs    | Data Type      | Description                           |  |  |  |  |
|---|---------------------------------------|----------|------|--------|----------------|---------------------------------------|--|--|--|--|
| <messa< th=""><th colspan="10"><messageheaderout></messageheaderout></th></messa<>  | <messageheaderout></messageheaderout> |          |      |        |                |                                       |  |  |  |  |
| 9   | BodyLen                               | Y        | 4    | 0      | unsigned int   | Number of bytes for the message, in-  |  |  |  |  |
|   |                                       |          |      |        |                | cluding this field.                   |  |  |  |  |
| 28500   | TemplateID                            | Υ        | 2    | 4      | unsigned int   | Unique identifier for a T7 ETI mes-   |  |  |  |  |
|   |                                       |          |      |        |                | sage layout. Value: 10705 (Quote-     |  |  |  |  |
|   |                                       |          |      |        |                | Ack,MsgType=CW)                       |  |  |  |  |
| 39020   | Pad2                                  | U        | 2    | 6      | Fixed String   | not used                              |  |  |  |  |
| <respo.< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo.<>  | nseHeader>                            |          |      |        |                |                                       |  |  |  |  |
| 5979  | RequestTime                           | Y        | 8    | 8      | UTCTimestamp   | Gateway request in timestamp.         |  |  |  |  |
| 52  | SendingTime                           | Y        | 8    | 16     | UTCTimestamp   | Outgoing timestamp; filled always by  |  |  |  |  |
|   |                                       |          |      |        |                | the gateway                           |  |  |  |  |
| 34  | MsgSeqNum                             | Y        | 4    | 24     | unsigned int   | Message sequence number used by the   |  |  |  |  |
|   |                                       |          |      |        |                | participant for requests sent to the  |  |  |  |  |
|   |                                       |          |      |        |                | gateway.                              |  |  |  |  |
| 39040   | Pad4                                  | U        | 4    | 28     | Fixed String   | not used                              |  |  |  |  |
| < Messa   | geBody>                               |          |      |        |                |                                       |  |  |  |  |
| 48  | SecurityID                            | N        | 8    | 32     | signed int     | Instrument identifier.                |  |  |  |  |
| 28758   | NegotiationID                         | Y        | 4    | 40     | unsigned int   | ID of a SRQS negotiation              |  |  |  |  |
| 1003  | TradeID                               | N        | 4    | 44     | unsigned int   | System defined SRQS deal identifier.  |  |  |  |  |
| 1040  | SecondaryTradeID                      | N        | 4    | 48     | unsigned int   | Second system defined SRQS deal       |  |  |  |  |
|   |                                       |          |      |        |                | identifier. Please refer to the func- |  |  |  |  |
|   |                                       |          |      |        |                | tional refernce for the details.      |  |  |  |  |
| 25218   | NoSRQSQuoteGrps                       | Y        | 1    | 52     | Counter        | Number of SRQS quotes                 |  |  |  |  |
| 1041  | FirmTradelD                           | N        | 20   | 53     | Fixed String   | User defined deal ID                  |  |  |  |  |
|   |                                       |          |      |        |                | Valid characters: \x01-\x7E           |  |  |  |  |
| 28762   | FirmNegotiationID                     | N        | 20   | 73     | Fixed String   | User defined ID of a SRQS negotiation |  |  |  |  |
|   |                                       |          |      |        |                | Valid characters: \x01-\x7E           |  |  |  |  |
| 39030   | Pad3                                  | U        | 3    | 93     | Fixed String   | not used                              |  |  |  |  |
| <srq< td=""><td>SQuoteGrp&gt; Cardinality</td><td>y: 0-30,</td><td>Reco</td><td>rd cou</td><td>nter: NoSRQSQu</td><td>oteGrps</td></srq<> | SQuoteGrp> Cardinality                | y: 0-30, | Reco | rd cou | nter: NoSRQSQu | oteGrps                               |  |  |  |  |
| 117   | >QuoteID                              | Y        | 8    | 96     | unsigned int   | Customer defined mass quote identi-   |  |  |  |  |
|   |                                       |          |      |        |                | fier.                                 |  |  |  |  |

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| Enhanced Trading Interface             |  |  |  |  |  |  |  |  |  |
| Derivatives Message Reference          |  |  |  |  |  |  |  |  |  |

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# 12.17 SRQS Create Deal Notification

This message informs both, requester and respondent about the creation of a SRQS deal.

| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |
|---|----------------|-------|-----|-----|--------------|--|--|--|--|
| <messageheaderout></messageheaderout>   |                |       |     |     |              |  |  |  |  |
| 9   | BodyLen        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |
|   |                |       |     |     |              | cluding this field.                    |  |  |  |
| 28500   | TemplateID     | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |
|   |                |       |     |     |              | sage layout. Value: 10708 (Trade-      |  |  |  |
|   |                |       |     |     |              | CaptureReport, MsgType = AE)           |  |  |  |
| 39020   |                | U     | 2   | 6   | Fixed String | not used                               |  |  |  |
| <rbch< td=""><td>I</td><td></td><td></td><td></td><td></td><td></td></rbch<>            | I              |       |     |     |              |  |  |  |  |
| 52  | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |
|   |                |       |     |     |              | the gateway                            |  |  |  |
| 1181  | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-        |  |  |  |
|   |                |       |     |     |              | signed to a non-order related T7 ETI   |  |  |  |
|   |                |       |     |     |              | data stream.                           |  |  |  |
| 28727   | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |  |  |  |
|   |                |       |     |     |              | during broadcast subscription in order |  |  |  |
|   |                |       |     |     |              | to link broadcasts to the related sub- |  |  |  |
| F040  | D .:.: ID      | - 11  |     | 20  |              | scription.                             |  |  |  |
| 5948  |                | U     | 2   | 28  | unsigned int | not used                               |  |  |  |
| 1352  | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |
|   |                |       |     |     |              | 0 False                                |  |  |  |
|   |                |       |     |     |              | 1 True                                 |  |  |  |
| 1180  | AnallD         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |  |  |  |
| 1100  | ApplID         | I     | 1   | 31  | unsigned int |  |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |
|   |                |       |     |     |              | 9 SRQS Maintenance                     |  |  |  |
| 893   | LastFragment   | Υ     | 1   | 32  | unsigned int | Indicates whether this message is the  |  |  |  |
|   | Lusti iuginent |       | _   | -   |              | last fragment (part) of a sequence of  |  |  |  |
|   |                |       |     |     |              | messages belonging to one dedicated    |  |  |  |
|   |                |       |     |     |              | transaction.                           |  |  |  |
|   |                |       |     |     |              | Value Description                      |  |  |  |
|   |                |       |     |     |              | 1 Last Message                         |  |  |  |
|   |                |       |     |     |              |  |  |  |  |
| 39070   | Pad7           | U     | 7   | 33  | Fixed String | not used                               |  |  |  |
| <messa< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geBody>        |       |     |     |              |  |  |  |  |
| 60  | TransactTime   | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                 |  |  |  |
| 31  | LastPx         | Υ     | 8   | 48  | PriceType    | Price of this fill.                    |  |  |  |
| 32  | LastQty        | Υ     | 8   | 56  | Qty          | Quantity of the SRQS deal.             |  |  |  |

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| Tag   | Field Name                              | Req'd | Len | Ofs        | Data Type             | Description   |
|-------|---|-------|-----|------------|-----------------------|---|
| 48    | SecurityID                              | N     | 8   | 64         | signed int            | Instrument identifier.  |
| 126   | ExpireTime                              | N     | 8   | 72         | UTCTimestamp          | Time an entity expires.   |
| 810   | UnderlyingPx                            | N     | 8   | 80         | PriceType             | Underlying price associated with a derivative instrument.   |
| 25149 | UnderlyingDelta-<br>Percentage          | N     | 8   | 88         | floatDecimal4         | The effective underlying delta of a Vola-Strategy   |
| 25151 | UnderlyingEffective-<br>DeltaPercentage | N     | 8   | 96         | floatDecimal4         | The effective underlying delta of a Vola-Strategy   |
| 879   | UnderlyingQty                           | N     | 8   | 104        | Qty                   | Nominal value of an underlying  |
| 30889 | UnderlyingPriceStip-<br>Value           | N     | 8   | 112        | PriceType             | Limit price for the underlying price  |
| 28758 | NegotiationID                           | Y     | 4   | 120        | unsigned int          | ID of a SRQS negotiation  |
| 1003  | TradeID                                 | Υ     | 4   | 124        | unsigned int          | System defined SRQS deal ID.  |
| 1126  | OrigTradelD                             | N     | 4   | 128        | unsigned int          | In case of a trade reversal/modification this field provides the original trade identifier.   |
| 939   | TrdRptStatus                            | Y     | 1   | 132        | unsigned int          | SRQS deal status.  Value Description  0 Accepted  4 Pending new   |
| 856   | TradeReportType                         | N     | 1   | 133        | unsigned int          | Used for negotiations for working delta or basis trades. Only for Trd-RptStatus = 'Accepted  Value Description  5 No/Was (Replaced) |
| 1011  | MessageEventSource                      | Y     | 1   | 134        | char                  | Receiver of a message.  Value Description  R Broadcast to requestor  Q Broadcast to quote submitter                                 |
| 28769 |   | Y     | 1   | 135<br>136 | unsigned int  Counter | Side of the order.  Value Description  1 Buy  2 Sell  |
| 20109 | INOUTGET DOOKITEMS                      | IV    | 1   | 130        | Counter               |   |

| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------|-------|-----|-----|--------------|---|
| 1815  | TradingCapacity               | N     | 1   | 137 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker   |
| 1390  | TradePublishIndicator         | N     | 1   | 138 | unsigned int | Indicates if a trade should be reported via the market reporting service.  Value Description  0 Do Not Publish Trade  1 Publish Trade   |
| 30059 | HedgingInstruction            | N     | 1   | 139 | unsigned int | Indication for the hedge transaction  Value Description  Execute hedge transaction in the closing auction of the underlying   |
| 25219 | NoSRQSTargetParty-<br>TrdGrps | Y     | 1   | 140 | Counter      | Number of SRQS deals  |
| 22401 | RootPartyExecuting-<br>Firm   | N     | 5   | 141 | Fixed String | Business unit name of the requester. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |
| 22412 | RootPartyExecuting-<br>Trader | N     | 6   | 146 | Fixed String | Owning trader name of the SRQS negotiation. Valid characters: $\xspace \times 20$ , $\xspace \times 22-\xspace \times 7D$ , $\xspace \times 7D$ , $\$ |
| 22436 | RootPartyEntering-<br>Trader  | N     | 6   | 152 | Fixed String | Entering trader name of the requester. Valid characters: $\xspace \times 20$ , $\xspace \times 22-\xspace \times 7D$ , $\xspace \times 7D$ , $\xspac$ |
| 1041  | FirmTradelD                   | N     | 20  | 158 | Fixed String | User defined deal ID Valid characters: \x01-\x7E  |
| 28762 | FirmNegotiationID             | N     | 20  | 178 | Fixed String | User defined ID of a SRQS negotiation Valid characters: \x01-\x7E   |

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| Tag   | Field Name           | Req'd | Len | Ofs | Data Type     | Description  |
|-------|----------------------|-------|-----|-----|---------------|--|
| 25007 | FreeText1            | N     | 12  | 198 | Fixed String  | First free-format text field for trader                        |
|       |                      |       |     |     |               | specific or customer-related com-                              |
|       |                      |       |     |     |               | ments  |
|       |                      |       |     |     |               | Valid characters: \x20, \x23-\x25,                             |
|       |                      |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                              |
|       |                      |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                    |
| 25008 | FreeText2            | N     | 12  | 210 | Fixed String  | Second free-format text field for                              |
|       |                      |       |     |     |               | trader specific or customer-related                            |
|       |                      |       |     |     |               | comments   |
|       |                      |       |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ ,                       |
|       |                      |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                              |
|       |                      |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                    |
| 25009 | FreeText3            | N     | 12  | 222 | Fixed String  | Third free-format text field for trader-                       |
|       |                      |       |     |     |               | specific or customer-related com-                              |
|       |                      |       |     |     |               | ments.   |
|       |                      |       |     |     |               | Valid characters: \x20, \x23-\x25,                             |
|       |                      |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                              |
|       |                      |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                    |
| 25172 | FreeText5            | N     | 132 | 234 | Fixed String  | Text field   |
|       |                      |       |     |     |               | Valid characters: \x20, \x23-\x25,                             |
|       |                      |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                              |
| 77    | D E.C                | N.    | 1   | 266 | 1             | \x5F, \x61-\x7B, \x7D, \x7E                                    |
| "     | PositionEffect       | N     | 1   | 366 | char          | Field is used for T7 position manage-                          |
|       |                      |       |     |     |               | ment purposes and indicates whether                            |
|       |                      |       |     |     |               | the order is submitted to open or close                        |
|       |                      |       |     |     |               | a position.  |
|       |                      |       |     |     |               | Value Description  |
|       |                      |       |     |     |               | C Close  |
|       |                      |       |     |     |               | O Open   |
| 1     | Account              | N     | 2   | 367 | Fixed String  | Accounts to book trades and keep po-                           |
|       | Account              | IN    |     | 301 | I IVER OTHING | sitions on.  |
|       |                      |       |     |     |               | Valid characters: 1-9, \x41, \x47,                             |
|       |                      |       |     |     |               | \x49, \x4D, \x50, \x52   |
| 20032 | PartyIDBeneficiary   | N     | 9   | 369 | Fixed String  | Final Beneficiary  |
| 25552 | Tarty Deficiencially |       |     |     | , med outing  | Valid characters: A-Z, 0-9, \x20                               |
|       |                      |       |     |     |               | 7 and characters. 7( 2, 0 3, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |

| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-Inst           | N     | 1   | 378 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 379 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20038 | PartyIDPosition-<br>Account      | N     | 32  | 386 | Fixed String | 'Flexible Account' information.  Valid characters: \x20, \x30-\x39, \x41-\x5A  |
| 20075 | PartyIDLocationID                | N     | 2   | 418 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 2404  | ComplianceText                   | N     | 20  | 420 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 440 | Fixed String | Take-up Member Short Name.<br>Valid characters: A-Z, 0-9, \x20   |
| 39030 |                                  | U     | 3   | 445 | Fixed String | not used   |
|       | erBookItemGrp> Cardin            |       |     |     |              |  |
| 48    | ,                                | Y     | 8   | 448 | signed int   | Instrument identifier.   |
| 25132 | >BestBidPx                       | N     | 8   | 456 | PriceType    | On-book trading best bid price   |

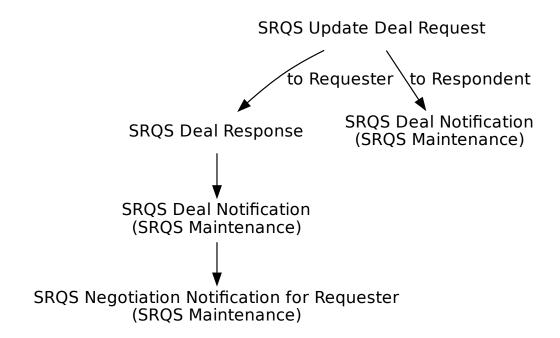
| Tag  | Field Name                         | Req'd     | Len    | Ofs    | Data Type         | Description   |
|--|------------------------------------|-----------|--------|--------|-------------------|---|
| 25134  | >BestBidSize                       | N         | 8      | 464    | Qty               | On-book trading best bid quantity                             |
| 25133  | >BestOfferPx                       | N         | 8      | 472    | PriceType         | On-book trading best offer price                              |
| 25135  | >BestOfferSize                     | N         | 8      | 480    | Qty               | On-book trading best ask quantity                             |
| 1024   | >MDBookType                        | Y         | 1      | 488    | unsigned int      | Type of market data   |
|  |                                    |           |        |        |                   | Value Description   |
|  |                                    |           |        |        |                   | 1 Top of book   |
|  |                                    |           |        |        |                   | 2 Price depth (aggregated)                                    |
| 1173   | >MDSubBookType                     | N         | 1      | 489    | unsigned int      | Sub-type/qualifier of market data  Value Description          |
|  |                                    |           |        |        |                   | 1 Implied   |
|  |                                    |           |        |        |                   | 2 Volume Weighted Average                                     |
|  |                                    |           |        |        |                   |   |
|  | >Pad6                              | U         | 6      | 490    | Fixed String      | not used  |
| <srq< td=""><td>STargetPartyTrdGrp&gt;0</td><td>Cardinali</td><td>ty: 1-</td><td>30, Re</td><td>ecord counter: No</td><td>SRQSTargetPartyTrdGrps</td></srq<> | STargetPartyTrdGrp>0               | Cardinali | ty: 1- | 30, Re | ecord counter: No | SRQSTargetPartyTrdGrps  |
| 1009   | >SideLastQty                       | Y         | 8      | 0      | Qty               | Fill quantity for the original T7 strat-                      |
|  |                                    |           |        |        |                   | egy.  |
| 117  | >QuoteID                           | Y         | 8      | 8      | unsigned int      | Customer defined mass quote identi-                           |
|  |                                    |           |        |        |                   | fier.   |
| 20612  | >TargetParty-<br>IDExecutingTrader | N         | 4      | 16     | unsigned int      | Owning User ID.   |
| 22601  | >TargetParty-<br>ExecutingFirm     | N         | 5      | 20     | Fixed String      | Name of target business unit.                                 |
|  | _                                  |           |        |        |                   | Valid characters: A-Z, 0-9, \x20                              |
| 22602  | >TargetParty-                      | N         | 6      | 25     | Fixed String      | Name of target user/trader.                                   |
|  | ExecutingTrader                    |           |        |        |                   | Valid characters: A-Z, 0-9, \x20                              |
| 22636  | >TargetParty-<br>EnteringTrader    | N         | 6      | 31     | Fixed String      | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20 |
| 39030  | >Pad3                              | U         | 3      | 37     | Fixed String      | not used  |

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#### 12.18 SRQS Update Deal Request

This message is used to change the state of a SRQS deal. The message flow below does not reflect "working delta". Please refer to the appendix for more details. This message is sent to the service "Selective Request for Quote Service".



| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description                                 |  |  |  |  |
|---|-----------------------------|-------|-----|-----|--------------|---|--|--|--|--|
| < Messa   | geHeaderIn>                 |       |     |     |              |   |  |  |  |  |
| 9   | BodyLen                     | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |  |  |  |  |
|   |                             |       |     |     |              | cluding this field.                         |  |  |  |  |
| 28500   | TemplateID                  | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |  |  |  |  |
|   |                             |       |     |     |              | sage layout. Value: 10706 (Trade-           |  |  |  |  |
|   |                             |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE})$ |  |  |  |  |
| 25028   | NetworkMsgID                | U     | 8   | 6   | Fixed String | not used                                    |  |  |  |  |
| 39020   | Pad2                        | U     | 2   | 14  | Fixed String | not used                                    |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                   |       |     |     |              |   |  |  |  |  |
| 34  | MsgSeqNum                   | Υ     | 4   | 16  | unsigned int | Message sequence number used by the         |  |  |  |  |
|   |                             |       |     |     |              | participant for requests sent to the        |  |  |  |  |
|   |                             |       |     |     |              | gateway.                                    |  |  |  |  |
| 50  | SenderSubID                 | Υ     | 4   | 20  | unsigned int | User ID.                                    |  |  |  |  |
| < Messa   | <messagebody></messagebody> |       |     |     |              |   |  |  |  |  |
| 30889   | UnderlyingPriceStip-        | N     | 8   | 24  | PriceType    | Limit price for the underlying price        |  |  |  |  |
| 30009   | Value                       | IN    | U   |     | тпсетуре     | Limit price for the underlying price        |  |  |  |  |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|----------------------|-------|-----|-----|--------------|---------------------------------------|
| 810   | UnderlyingPx         | N     | 8   | 32  | PriceType    | Underlying price associated with a    |
|       |                      |       |     |     |              | derivative instrument.                |
| 32    | LastQty              | N     | 8   | 40  | Qty          | Quantity executed in this fill.       |
| 1300  | MarketSegmentID      | Y     | 4   | 48  | signed int   | Product identifier.                   |
| 28758 | NegotiationID        | Y     | 4   | 52  | unsigned int | ID of a SRQS negotiation              |
| 1003  | TradeID              | Υ     | 4   | 56  | unsigned int | System defined SRQS deal ID.          |
| 856   | TradeReportType      | Υ     | 1   | 60  | unsigned int | Status of the SRQS deal.              |
|       |                      |       |     |     |              | Value Description                     |
|       |                      |       |     |     |              | 2 Accept                              |
|       |                      |       |     |     |              | 3 Decline                             |
|       |                      |       |     |     |              | 6 Trade Report Cancel                 |
|       |                      |       |     |     |              |                                       |
| 939   | TrdRptStatus         | N     | 1   | 61  | unsigned int | Used for negotiations for working     |
|       |                      |       |     |     |              | delta or basis trades. It is used to  |
|       |                      |       |     |     |              | set a negotiation to working status   |
|       |                      |       |     |     |              | (Deemed_verified) or to set a pend-   |
|       |                      |       |     |     |              | ing/working deal to final (Accepted). |
|       |                      |       |     |     |              | Value Description                     |
|       |                      |       |     |     |              | 0 Accepted                            |
|       |                      |       |     |     |              | · ·                                   |
|       |                      |       |     |     |              | 4 Pending new                         |
|       |                      |       |     |     |              | 9 Deemed verified                     |
| 22001 | PartyExecutingFirm   | Y     | 5   | 62  | Fixed String | Owning business unit name.            |
|       | , 0                  |       |     |     | 9            | Valid characters: A-Z, 0-9, \x20      |
| 22012 | PartyExecutingTrader | Υ     | 6   | 67  | Fixed String | Owning user name.                     |
|       |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20      |
| 25172 | FreeText5            | N     | 132 | 73  | Fixed String | Text field                            |
|       |                      |       |     |     |              | Valid characters: \x20, \x23-\x25,    |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-     |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E           |
| 39030 | Pad3                 | U     | 3   | 205 | Fixed String | not used                              |

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## 12.19 SRQS Deal Notification

This message informs about the change of a SRQS deal state.

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                                 |  |  |  |  |
|---|----------------------|-------|-----|-----|--------------|---|--|--|--|--|
| <messageheaderout></messageheaderout>   |                      |       |     |     |              |   |  |  |  |  |
| 9   | BodyLen              | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |  |  |  |  |
|   |                      |       |     |     |              | cluding this field.                         |  |  |  |  |
| 28500   | TemplateID           | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |  |  |  |  |
|   |                      |       |     |     |              | sage layout. Value: 10709 (Trade-           |  |  |  |  |
|   |                      |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |  |  |  |  |
| 39020   | Pad2                 | U     | 2   | 6   | Fixed String | not used                                    |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>              |       |     |     |              |   |  |  |  |  |
| 52  | SendingTime          | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by        |  |  |  |  |
|   |                      |       |     |     |              | the gateway                                 |  |  |  |  |
| 1181  | ApplSeqNum           | Y     | 8   | 16  | unsigned int | Application sequence number as-             |  |  |  |  |
|   |                      |       |     |     |              | signed to a non-order related T7 ETI        |  |  |  |  |
|   |                      |       |     |     |              | data stream.                                |  |  |  |  |
| 28727   | ApplSubID            | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system         |  |  |  |  |
|   |                      |       |     |     |              | during broadcast subscription in order      |  |  |  |  |
|   |                      |       |     |     |              | to link broadcasts to the related sub-      |  |  |  |  |
|   |                      |       |     |     |              | scription.                                  |  |  |  |  |
| 5948  |                      | U     | 2   | 28  | unsigned int | not used                                    |  |  |  |  |
| 1352  | ApplResendFlag       | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.         |  |  |  |  |
|   |                      |       |     |     |              | Value Description                           |  |  |  |  |
|   |                      |       |     |     |              | 0 False                                     |  |  |  |  |
|   |                      |       |     |     |              | 1 True                                      |  |  |  |  |
|   |                      |       |     |     |              |   |  |  |  |  |
| 1180  | ApplID               | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.          |  |  |  |  |
|   |                      |       |     |     |              | Value Description                           |  |  |  |  |
|   |                      |       |     |     |              | 9 SRQS Maintenance                          |  |  |  |  |
|   |                      |       |     |     |              |   |  |  |  |  |
| 893   | LastFragment         | Y     | 1   | 32  | unsigned int | Indicates whether this message is the       |  |  |  |  |
|   |                      |       |     |     |              | last fragment (part) of a sequence of       |  |  |  |  |
|   |                      |       |     |     |              | messages belonging to one dedicated         |  |  |  |  |
|   |                      |       |     |     |              | transaction.                                |  |  |  |  |
|   |                      |       |     |     |              | Value Description                           |  |  |  |  |
|   |                      |       |     |     |              | 1 Last Message                              |  |  |  |  |
| 20070   | D. 17                | 11    | 7   | 22  | Final Critic | lunch word                                  |  |  |  |  |
| 39070   |                      | U     | 7   | 33  | Fixed String | not used                                    |  |  |  |  |
|   | geBody>              | \ \/  | 0   | 40  | LITCT:       | Transaction timesets                        |  |  |  |  |
| 60  |                      | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                      |  |  |  |  |
| 30889   | UnderlyingPriceStip- | N     | 8   | 48  | PriceType    | Limit price for the underlying price        |  |  |  |  |
|   | Value                |       |     |     |              |   |  |  |  |  |

| Tag   | Field Name                | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|---------------------------|-------|-----|-----|--------------|--|
| 810   | UnderlyingPx              | N     | 8   | 56  | PriceType    | Underlying price associated with a       |
|       |                           |       |     |     |              | derivative instrument.                   |
| 31    | LastPx                    | N     | 8   | 64  | PriceType    | Price of this fill.                      |
| 32    | LastQty                   | N     | 8   | 72  | Qty          | Quantity executed in this fill.          |
| 28758 | NegotiationID             | Y     | 4   | 80  | unsigned int | ID of a SRQS negotiation                 |
| 1003  | TradeID                   | Y     | 4   | 84  | unsigned int | System defined SRQS deal ID.             |
| 1663  | RequestingPartySub-IDType | N     | 2   | 88  | unsigned int | Party type initiating SRQS deal deletion |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | 5000 Requester                           |
|       |                           |       |     |     |              | 5001 Responder                           |
|       |                           |       |     |     |              | Both (Requester and Responder)           |
|       |                           |       |     |     |              | 5003 System                              |
| 939   | TrdRptStatus              | Y     | 1   | 90  | unsigned int | Status of the SRQS deal.                 |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | 0 Accepted                               |
|       |                           |       |     |     |              | 4 Pending new                            |
|       |                           |       |     |     |              | 2 Cancelled                              |
|       |                           |       |     |     |              | 7 Terminated                             |
|       |                           |       |     |     |              | 9 Deemed verified                        |
| 749   | TradeRequestResult        | N     | 1   | 91  | unsigned int | Trade request transaction type           |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | 100 Deal cancellation pending            |
|       |                           |       |     |     |              | 101 Deal cancellation declined           |
|       |                           |       |     |     |              | 102 Deal cancellation approved           |
| 1011  | MessageEventSource        | Y     | 1   | 92  | char         | Receiver of a message.                   |
|       |                           |       |     |     |              | Value Description                        |
|       |                           |       |     |     |              | R Broadcast to requestor                 |
|       |                           |       |     |     |              | Q Broadcast to quote submitter           |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------|-------|-----|-----|--------------|---|
| 1815  | TradingCapacity               | N     | 1   | 93  | unsigned int | This field designates if the trader is  |
|       |                               |       |     |     |              | acting in the capacity of agent, trad-  |
|       |                               |       |     |     |              | ing for its own account or acting as a  |
|       |                               |       |     |     |              | market maker.   |
|       |                               |       |     |     |              | Value Description   |
|       |                               |       |     |     |              | 1 Customer (Agency)   |
|       |                               |       |     |     |              | 5 Principal (Proprietary)   |
|       |                               |       |     |     |              | 6 Market Maker  |
| 25219 | NoSRQSTargetParty-<br>TrdGrps | N     | 1   | 94  | Counter      | Number of SRQS deals  |
| 22401 | RootPartyExecuting-<br>Firm   | N     | 5   | 95  | Fixed String | Name of the requester business unit. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |
| 22412 | RootPartyExecuting-<br>Trader | N     | 6   | 100 | Fixed String | Name of the owning trader of the SRQS negotiation. Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7D$ , $\xspace $ |
| 22436 | RootPartyEntering-<br>Trader  | N     | 6   | 106 | Fixed String | Name of the entering trader. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |
| 1041  | FirmTradelD                   | N     | 20  | 112 | Fixed String | User defined deal ID Valid characters: \x01-\x7E  |
| 28762 | FirmNegotiationID             | N     | 20  | 132 | Fixed String | User defined ID of a SRQS negotiation Valid characters: \x01-\x7E   |
| 25007 | FreeText1                     | N     | 12  | 152 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |
| 25008 | FreeText2                     | N     | 12  | 164 | Fixed String | Second free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------|-------|-----|-----|--------------|--|
| 25009 | FreeText3          | N     | 12  | 176 | Fixed String | Third free-format text field for trader- |
|       |                    |       |     |     |              | specific or customer-related com-        |
|       |                    |       |     |     |              | ments.                                   |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 25172 | FreeText5          | N     | 132 | 188 | Fixed String | Text field                               |
|       |                    |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ , |
|       |                    |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-        |
|       |                    |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E              |
| 77    | PositionEffect     | N     | 1   | 320 | char         | Field is used for T7 position manage-    |
|       |                    |       |     |     |              | ment purposes and indicates whether      |
|       |                    |       |     |     |              | the order is submitted to open or close  |
|       |                    |       |     |     |              | a position.                              |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | C Close                                  |
|       |                    |       |     |     |              | O Open                                   |
|       |                    |       |     |     |              |  |
| 1     | Account            | N     | 2   | 321 | Fixed String | Accounts to book trades and keep po-     |
|       |                    |       |     |     |              | sitions on.                              |
|       |                    |       |     |     |              | Valid characters: 1-9, \x41, \x47,       |
|       |                    |       |     |     |              | \x49, \x4D, \x50, \x52                   |
| 20032 | PartyIDBeneficiary | N     | 9   | 323 | Fixed String | Final Beneficiary                        |
|       |                    |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |

| Tag   | Field Name                       | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-<br>Inst       | N     | 1   | 332 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values   |
| 20013 | PartyIDOrder-<br>OriginationFirm | N     | 7   | 333 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20  |
| 20038 | PartyIDPosition-<br>Account      | N     | 32  | 340 | Fixed String | 'Flexible Account' information.  Valid characters: $\xspace \xspace \$ |
| 20075 | PartyIDLocationID                | N     | 2   | 372 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 2404  | ComplianceText                   | N     | 20  | 374 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 20096 | PartyIDTakeUp-<br>TradingFirm    | N     | 5   | 394 | Fixed String | Take-up Member Short Name.<br>Valid characters: A-Z, 0-9, \x20   |
| 39000 |                                  | U     | 1   | 399 | Fixed String | not used   |
|       | 1                                |       |     |     |              | SRQSTargetPartyTrdGrps   |
| 1009  | , ,                              | U     | 8   | 400 | Qty          | not used   |
| 117   | >QuoteID                         | U     | 8   | 408 | unsigned int | not used   |

| Tag   | Field Name                         | Req'd | Len | Ofs | Data Type    | Description   |
|-------|------------------------------------|-------|-----|-----|--------------|---|
| 20612 | >TargetParty-<br>IDExecutingTrader | N     | 4   | 416 | unsigned int | Owning User ID.   |
| 22601 | >TargetParty-<br>ExecutingFirm     | N     | 5   | 420 | Fixed String | Name of target business unit.  Valid characters: A-Z, 0-9, \x20 |
| 22602 | >TargetParty-<br>ExecutingTrader   | N     | 6   | 425 | Fixed String | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20   |
| 22636 | >TargetParty-<br>EnteringTrader    | N     | 6   | 431 | Fixed String | Name of target user/trader.  Valid characters: A-Z, 0-9, \x20   |
| 39030 | >Pad3                              | U     | 3   | 437 | Fixed String | not used  |

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## 12.20 SRQS Negotiation Status Notification

This message informs about a SRQS negotiation state change.

| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description                                |
|--|----------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderOut>   |       |     |     |              |  |
| 9  | BodyLen        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |
|  |                |       |     |     |              | cluding this field.                        |
| 28500  | TemplateID     | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |
|  |                |       |     |     |              | sage layout. Value: 10715 (Quote-          |
|  |                |       |     |     |              | ${\sf StatusReport,\ MsgType} = {\sf AI)}$ |
| 39020  | Pad2           | U     | 2   | 6   | Fixed String | not used                                   |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<>        | leader>        |       |     |     |              |  |
| 52   | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by       |
|  |                |       |     |     |              | the gateway                                |
| 1181   | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-            |
|  |                |       |     |     |              | signed to a non-order related T7 ETI       |
|  |                |       |     |     |              | data stream.                               |
| 28727  | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system        |
|  |                |       |     |     |              | during broadcast subscription in order     |
|  |                |       |     |     |              | to link broadcasts to the related sub-     |
|  |                |       |     |     |              | scription.                                 |
| 5948   | PartitionID    | U     | 2   | 28  | unsigned int | not used                                   |
| 1352   | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.        |
|  |                |       |     |     |              | Value Description                          |
|  |                |       |     |     |              | 0 False                                    |
|  |                |       |     |     |              | 1 True                                     |
|  |                |       |     |     |              |  |
| 1180   | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.         |
|  |                |       |     |     |              | Value Description                          |
|  |                |       |     |     |              | 9 SRQS Maintenance                         |
|  |                |       |     |     |              |  |
| 893  | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the      |
|  |                |       |     |     |              | last fragment (part) of a sequence of      |
|  |                |       |     |     |              | messages belonging to one dedicated        |
|  |                |       |     |     |              | transaction.                               |
|  |                |       |     |     |              | Value Description                          |
|  |                |       |     |     |              | 1 Last Message                             |
|  |                |       |     |     |              |  |
| 39070  |                | U     | 7   | 33  | Fixed String | not used                                   |
|  | geBody>        |       |     |     | l            |  |
|  | TransactTime   | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                     |
| 168  | EffectiveTime  | N     | 8   | 48  | UTCTimestamp | Time an SRQS STP deal is executed          |
| 28758  | NegotiationID  | Y     | 4   | 56  | unsigned int | ID of a SRQS negotiation                   |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------|-------|-----|-----|--------------|---|
| 276   | QuoteCondition    | Y     | 1   | 60  | char         | Status of the quote.  Value Description  8 Expired                |
| 28762 | FirmNegotiationID | N     | 20  | 61  | Fixed String | User defined ID of a SRQS negotiation Valid characters: \x01-\x7E |
| 39070 | Pad7              | U     | 7   | 81  | Fixed String | not used  |

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## 12.21 SRQS Negotiation Notification for Respondent

This message informs the targeted respondents about SRQS negotiation updates.

| Tag   | Field Name     | Req'd | Len | Ofs | Data Type    | Description                            |
|---|----------------|-------|-----|-----|--------------|--|
| < Messa   | geHeaderOut>   |       |     |     |              |  |
| 9   | BodyLen        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|   |                |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID     | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|   |                |       |     |     |              | sage layout. Value: 10713 (Quote-      |
|   |                |       |     |     |              | $StatusReport,\ MsgType = AI)$         |
| 39020   | Pad2           | U     | 2   | 6   | Fixed String | not used                               |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>        |       |     |     |              |  |
| 52  | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |
|   |                |       |     |     |              | the gateway                            |
| 1181  | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-        |
|   |                |       |     |     |              | signed to a non-order related T7 ETI   |
|   |                |       |     |     |              | data stream.                           |
| 28727   | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |
|   |                |       |     |     |              | during broadcast subscription in order |
|   |                |       |     |     |              | to link broadcasts to the related sub- |
|   |                |       |     |     |              | scription.                             |
| 5948  | PartitionID    | U     | 2   | 28  | unsigned int | not used                               |
| 1352  | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |
|   |                |       |     |     |              | Value Description                      |
|   |                |       |     |     |              | 0 False                                |
|   |                |       |     |     |              | 1 True                                 |
|   |                |       |     |     |              |  |
| 1180  | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |
|   |                |       |     |     |              | Value Description                      |
|   |                |       |     |     |              | 9 SRQS Maintenance                     |
|   |                |       |     |     |              |  |
| 893   | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |
|   |                |       |     |     |              | last fragment (part) of a sequence of  |
|   |                |       |     |     |              | messages belonging to one dedicated    |
|   |                |       |     |     |              | transaction.                           |
|   |                |       |     |     |              | Value Description                      |
|   |                |       |     |     |              | 1 Last Message                         |
|   |                |       |     |     |              |  |
| 39070   | Pad7           | U     | 7   | 33  | Fixed String | not used                               |
| < Messa   | geBody>        |       |     |     |              |  |
| 60  | TransactTime   | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                 |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type          | Description                            |
|-------|--------------------|-------|-----|-----|--------------------|--|
| 28759 | QuoteRefPrice      | N     | 8   | 48  | PriceType          | Depending upon Negotiation work-       |
|       |                    |       |     |     |                    | flow this price can either be a refer- |
|       |                    |       |     |     |                    | ence price or an underlying price      |
| 05140 | UnderlyingDelta-   | N.    | 0   | r.c | (Last Davids and A | The effective of the first bloom of a  |
| 25149 | Percentage         | N     | 8   | 56  | floatDecimal4      | The effective underlying delta of a    |
| 122   | D: ID              | N.I   | 0   | 6.1 | Dui a a Truma      | Vola-Strategy                          |
|       | BidPx              | N     | 8   | 64  | PriceType          | Bid price/rate.                        |
| 133   |                    | N     | 8   | 72  | PriceType          | Offer price/rate.                      |
| 31    |                    | N     | 8   | 80  | PriceType          | Price of this fill.                    |
| 151   | LeavesQty          | N     | 8   | 88  | Qty                | Open quantity of the SRQS negotiation. |
| 32    | LastQty            | N     | 8   | 96  | Qty                | Quantity executed in this fill.        |
| 168   | EffectiveTime      | N     | 8   | 104 | UTCTimestamp       | Time an SRQS STP deal is executed      |
| 779   | LastUpdateTime     | N     | 8   | 112 | UTCTimestamp       | Creation timestamp of the strategy.    |
| 25201 | TradeToQuoteRatio  | N     | 8   | 120 | floatDecimal4      | Ratio of Trades to Quotes              |
| 28758 | NegotiationID      | Υ     | 4   | 128 | unsigned int       | ID of a SRQS negotiation               |
| 05150 | NumberOf-          | N.    |     | 120 |                    | T. I. C.D. I                           |
| 25150 | Respondents        | N     | 4   | 132 | unsigned int       | Total number of Respondents in a       |
|       | T 1 T O . D .:     |       |     |     |                    | SRQS event.                            |
| 25202 | TradeToQuoteRatio- | N     | 2   | 136 | unsigned int       | Ranking position of Ratio of Trades to |
|       | Position           |       |     |     |                    | Quotes                                 |
| 537   | QuoteType          | Y     | 1   | 138 | unsigned int       | Quote Type                             |
|       |                    |       |     |     |                    | Value Description                      |
|       |                    |       |     |     |                    | Indicative (for Continuous             |
|       |                    |       |     |     |                    | Auction Issuer trading model           |
|       |                    |       |     |     |                    | and Eurex/Xetra EnLight                |
|       |                    |       |     |     |                    | only)                                  |
|       |                    |       |     |     |                    | 1 Tradeable                            |
|       |                    |       |     |     |                    |  |
| 28786 | QuoteSubType       | Y     | 1   | 139 | unsigned int       | Sub-type of QuoteType                  |
|       |                    |       |     |     |                    | Value Description                      |
|       |                    |       |     |     |                    | 1 Working Delta                        |
|       |                    |       |     |     |                    | 2 Basis Trade                          |
|       |                    |       |     |     |                    | 3 Regular LDS Negotiation              |
|       |                    |       |     |     |                    | Negotiate the underlying out-          |
|       |                    |       |     |     |                    | side the exchange                      |
|       |                    |       |     |     |                    | Option Volatility Strategy             |
|       |                    |       |     |     |                    | 5 with fixed Underlying price          |
|       |                    |       |     |     |                    | and delta                              |
|       |                    |       |     |     |                    | Option Volatility Strategy -           |
|       |                    |       |     |     |                    | 6 Underlying price is negoti-          |
|       |                    |       |     |     |                    | ated on exchange                       |
|       |                    |       |     |     |                    |  |

| 25138     | QuoteInstruction      |      |     |     |               |  |
|-----------|-----------------------|------|-----|-----|---------------|--|
|           | Quotember detron      | Υ    | 1   | 140 | unsigned int  | Quoting instruction.   |
|           |                       |      |     |     |               | Value Description  |
|           |                       |      |     |     |               | 0 Do not re-quote  |
|           |                       |      |     |     |               | 1 (Re-)Quote   |
|           |                       |      |     |     |               |  |
| 54 S      | Side                  | N    | 1   | 141 | unsigned int  | Side of the order.   |
|           |                       |      |     |     |               | Value Description  |
|           |                       |      |     |     |               | 1 Buy  |
|           |                       |      |     |     |               | 2 Sell   |
| Т         | TradeAggregation-     |      |     |     |               |  |
| 1 27881   | TransType             | N    | 1   | 142 | unsigned int  | Trade Aggregation Identifier.  |
|           |                       |      |     |     |               | Value Description  |
|           |                       |      |     |     |               | 0 New  |
|           |                       |      |     |     |               |  |
| 276 0     | QuoteCondition        | Υ    | 1   | 143 | char          | Status of the quote.   |
|           |                       |      |     |     |               | Value Description  |
|           |                       |      |     |     |               | A Active   |
|           |                       |      |     |     |               | B Closed   |
| 22001 F   | PartyExecutingFirm    | N    | 5   | 144 | Fixed String  | Owning business unit name.   |
| 22001 F   | arty Executing iniii  | 14   | J   | 144 | Tixed String  | Valid characters: A-Z, 0-9, \x20                                       |
| 22012 F   | PartyExecutingTrader  | N    | 6   | 149 | Fixed String  | Owning user name.  |
|           | ,                     |      |     |     | 3             | Valid characters: A-Z, 0-9, \x20                                       |
| 22036 F   | PartyEnteringTrader   | N    | 6   | 155 | Fixed String  | The entering user  |
|           |                       |      |     |     |               | Valid characters: A-Z, 0-9, \x20                                       |
| 22601 T   | TargetPartyExecuting- | N    | 5   | 161 | Fixed String  | Name of target business unit.  |
| F         | Firm                  |      | J   |     | r ixed String | Valid characters: A-Z, 0-9, \x20                                       |
| 22602 T   | TargetPartyExecuting- |      |     | 166 | F: 1.6. :     | <u> </u>   |
| 22602 T   | Trader                | N    | 6   | 166 | Fixed String  | Name of target user/trader.  |
| 28762     | FirmNegotiationID     | N    | 20  | 172 | Fixed String  | Valid characters: A-Z, 0-9, \x20 User defined ID of a SRQS negotiation |
| 20102     | mmvegotiationiD       | 1 14 | 20  | 114 | Tived Stillig | Valid characters: \x01-\x7E  |
| 25172 F   | FreeText5             | N    | 132 | 192 | Fixed String  | Text field   |
| - , -   . |                       |      |     |     |               | Valid characters: \x20, \x23-\x25,                                     |
|           |                       |      |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                      |
|           |                       |      |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E  |
| 22011 F   | PartyOrder-           | N    | 132 | 324 | Fixed String  | Buy-side user information  |
|           | OriginationTrader     |      | 102 | 327 | 7 Med String  | Valid characters: \x20, \x23-\x25,                                     |
|           |                       |      |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                      |
|           |                       |      |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E  |

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| Tag   | Field Name | Req'd | Len | Ofs | Data Type    | Description   |
|-------|------------|-------|-----|-----|--------------|---|
| 25225 | ChargeID   | N     | 132 | 456 | Fixed String | Charge ID of Third Party Platform.  |
|       |            |       |     |     |              | Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7B$ , |
|       |            |       |     |     |              | \x7D, \x7E  |
| 39040 | Pad4       | U     | 4   | 588 | Fixed String | not used  |

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#### 12.22 SRQS Status Notification

The SRQS Status Notification informs about SRQS service state changes. TradSesEvent set to either 105 (Service Resumed) or 104 (End of Service) implies that the open SRQS Negotiations are not accessible anymore and should be treated by the ETI applications as closed. The existing SRQS Quotes are not longer accessible and should be treated by ETI applications as deleted. The pending SRQS Deals cannot be accepted or rejected and should be treated by ETI applications as rejected.

|  | Field Name        | Req'd | Len | Ofs | Data Type    | Description   |
|--|-------------------|-------|-----|-----|--------------|---|
| < Message  | reHeaderOut>      |       |     |     |              |   |
| 9 E  | BodyLen           | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|  |                   |       |     |     |              | cluding this field.   |
| 28500  | TemplateID        | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|  |                   |       |     |     |              | sage layout. Value: 10714 (Quote-   |
|  |                   |       |     |     |              | StatusReport, MsgType = AI)   |
| 39020 F  |                   | U     | 2   | 6   | Fixed String | not used  |
| <rbche.< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td></rbche.<> |                   |       |     | _   |              |   |
| 52   5   | SendingTime       | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by  |
| 1101   |                   | .,    |     |     |              | the gateway   |
| 1181   | ApplSeqNum        | Y     | 8   | 16  | unsigned int | Application sequence number as-   |
|  |                   |       |     |     |              | signed to a non-order related T7 ETI  |
| 00707  | A 16 LID          | N.I.  | 4   | 0.4 |              | data stream.  |
| 28727  | ApplSubID         | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system   |
|  |                   |       |     |     |              | during broadcast subscription in order to link broadcasts to the related sub- |
|  |                   |       |     |     |              | scription.  |
| 5048   | PartitionID       | U     | 2   | 28  | unsigned int | not used  |
|  | ApplResendFlag    | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.   |
| 1552   | Applitesellal lag | '     | _   | 30  | unsigned int |   |
|  |                   |       |     |     |              | Value Description   |
|  |                   |       |     |     |              | 0 False   |
|  |                   |       |     |     |              | 1 True  |
| 1180   | AppIID            | Υ     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  |
|  |                   |       |     |     | 3            | Value Description   |
|  |                   |       |     |     |              | 9 SRQS Maintenance  |
|  |                   |       |     |     |              | 3 31(Q3 Waintenance   |
| 893 L  | LastFragment      | Υ     | 1   | 32  | unsigned int | Indicates whether this message is the   |
|  | -                 |       |     |     | _            | last fragment (part) of a sequence of   |
|  |                   |       |     |     |              | messages belonging to one dedicated   |
|  |                   |       |     |     |              | transaction.  |
|  |                   |       |     |     |              | Value Description   |
|  |                   |       |     |     |              | 1 Last Message  |
|  |                   |       |     |     |              |   |

| Tag     | Field Name                  | Req'd | Len | Ofs | Data Type    | Description                 |  |  |  |  |
|---------|-----------------------------|-------|-----|-----|--------------|-----------------------------|--|--|--|--|
| 39070   | Pad7                        | U     | 7   | 33  | Fixed String | not used                    |  |  |  |  |
| < Messa | <messagebody></messagebody> |       |     |     |              |                             |  |  |  |  |
| 75      | TradeDate                   | N     | 4   | 40  | LocalMktDate | Business date.              |  |  |  |  |
| 1368    | TradSesEvent                | Y     | 1   | 44  | unsigned int | Trading session event type. |  |  |  |  |
|         |                             |       |     |     |              | Value Description           |  |  |  |  |
|         |                             |       |     |     |              | 101 Start of Service        |  |  |  |  |
|         |                             |       |     |     |              | 104 End of Service          |  |  |  |  |
|         |                             |       |     |     |              | 105 Service Resumed         |  |  |  |  |
|         |                             |       |     |     |              |                             |  |  |  |  |
| 39030   | Pad3                        | U     | 3   | 45  | Fixed String | not used                    |  |  |  |  |

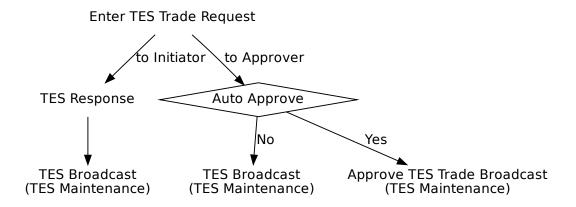
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|--|--|--|--|--|--|--|
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### 13 TES Trading

#### 13.1 Enter TES Trade Request

This message is submitted by the Initiator and allows the entry of a TES trade. It specifies all users involved on the buy and sell side of the TES trade (approving users). The general TES trade information is visible to all approving users. After the request has successfully been accepted, the executing user will become the initiating user of the TES trade. This message is sent to the service "T7 Entry".



| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|--------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderIn>  |       |     |     |              |   |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |              |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |              |       |     |     |              | sage layout. Value: 10600 (Trade-           |
|   |              |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                                    |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>    |       |     |     |              |   |
| 34  | MsgSeqNum    | Y     | 4   | 16  | unsigned int | Message sequence number used by the         |
|   |              |       |     |     |              | participant for requests sent to the        |
|   |              |       |     |     |              | gateway.                                    |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa   | geBody>      |       |     |     |              |   |
| 48  | SecurityID   | Y     | 8   | 24  | signed int   | Instrument identifier.                      |
| 31  | LastPx       | Y     | 8   | 32  | PriceType    | Price of TES trade.                         |

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| Tag   | Field Name             | Req'd | Len | Ofs | Data Type       | Description                             |
|-------|------------------------|-------|-----|-----|-----------------|---|
| 483   | TransBkdTime           | N     | 8   | 40  | UTCTimestamp    | Time of Commencement, the time          |
|       |                        |       |     |     |                 | when an Off-Book trade was con-         |
|       |                        |       |     |     |                 | cluded outside the T7 System. There     |
|       |                        |       |     |     |                 | is a market specific validation of Time |
|       |                        |       |     |     |                 | of Commencement by the T7 back-         |
|       |                        |       |     |     |                 | end.                                    |
| 810   | ${\sf UnderlyingPx}$   | N     | 8   | 48  | PriceType       | Underlying price associated with a      |
|       |                        |       |     |     |                 | derivative instrument.                  |
| 2589  | Related Close Price    | N     | 8   | 56  | floatDecimal6   | User defined index price.               |
|       |                        |       |     |     |                 | To be set for TrdType (1004) Trade      |
|       |                        |       |     |     |                 | at Market [mandatory].                  |
| 1860  | Related Trade Quantity | N     | 8   | 64  | Qty             | Quantity of the related trade.          |
|       |                        |       |     |     |                 | To be set for TrdType (1000) Vola       |
|       |                        |       |     |     |                 | Trade [mandatory].                      |
| 879   | ${\sf UnderlyingQty}$  | N     | 8   | 72  | Qty             | Nominal value of an underlying (for     |
|       |                        |       |     |     |                 | an EFS or EFP Index Trade in units      |
|       |                        |       |     |     |                 | of thousand).                           |
| 25191 | CompressionID          | N     | 8   | 80  | unsigned int    | Compression ID                          |
| 1300  | MarketSegmentID        | Y     | 4   | 88  | signed int      | Product identifier.                     |
| 987   | UnderlyingSettlement-  | N     | 4   | 92  | LocalMktDate    | Date the underlying instrument will     |
| 307   | Date                   |       | •   | 32  | LocaliviikiBate | settle.                                 |
|       |                        |       |     |     |                 | To be set for TrdType (1) Echange for   |
|       |                        |       |     |     |                 | Swap [optional] and (1001) EFP-Fin      |
|       |                        |       |     |     |                 | Trade [optional].                       |
|       | UnderlyingMaturity-    |       | _   |     |                 |   |
| 542   | Date                   | N     | 4   | 96  | LocalMktDate    | Underlying security's maturity date.    |
|       |                        |       |     |     |                 | To be set for TrdType (1001) EFP-Fin    |
| 1070  |                        |       |     |     |                 | Trade [mandatory].                      |
| 1856  | Related Tradel D       | N     | 4   | 100 | unsigned int    | Identifier of a related trade.          |
|       |                        |       |     |     |                 | To be set for TrdType (1000) Vola       |
|       | B. L. M                |       |     |     |                 | Trade [mandatory].                      |
| 2546  | RelatedMarket-         | N     | 4   | 104 | signed int      | Identifies a related product.           |
|       | SegmentID              |       |     |     |                 | To be set for TrdType (1000) Vola       |
|       |                        |       |     |     |                 | Trade [mandatory].                      |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 828   | TrdType               | Y     | 2   | 108 | unsigned int | Type of TES trade.                      |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 1 Block Trade                           |
|       |                       |       |     |     |              | 12 Exchange for Swap                    |
|       |                       |       |     |     |              | 50 Compression                          |
|       |                       |       |     |     |              | 1000 Vola Trade                         |
|       |                       |       |     |     |              | 1001 EFP-Fin Trade                      |
|       |                       |       |     |     |              | 1002 EFP-Index Futures Trade            |
|       |                       |       |     |     |              | 1007 QTPIP BLOCK TRADE                  |
|       |                       |       |     |     |              | 1004 Trade at Market                    |
|       |                       |       |     |     |              |   |
| 1227  | ProductComplex        | N     | 1   | 110 | unsigned int | This field qualifies an instrument type |
|       |                       |       |     |     |              | on T7.                                  |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 1 Simple instrument                     |
|       |                       |       |     |     |              | 2 Standard Option Strategy              |
|       |                       |       |     |     |              | Non-Standard Option Strat-              |
|       |                       |       |     |     |              | egy                                     |
|       |                       |       |     |     |              | 4 Volatility Strategy                   |
|       |                       |       |     |     |              | 5 Futures Spread                        |
|       |                       |       |     |     |              | 6 Inter-Product Spread                  |
|       |                       |       |     |     |              | 7 Standard Future Strategy              |
|       |                       |       |     |     |              | 8 Pack and Bundle                       |
|       |                       |       |     |     |              | 9 Strip                                 |
|       |                       |       |     |     |              | 10 Flexible Simple Instrument           |
|       |                       |       |     |     |              | 11 Commodity Strip                      |
| 856   |                       | Y     | 1   | 111 | unsigned int | Identifies the type of trade notifica-  |
|       | Truder (eport Type    |       | _   |     | a8a          | tion.                                   |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 0 Submit                                |
|       |                       |       |     |     |              | Submit                                  |
| 1390  | TradePublishIndicator | Υ     | 1   | 112 | unsigned int | Indicates if a trade should be reported |
|       |                       |       |     |     |              | via the market reporting service.       |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 0 Do Not Publish Trade                  |
|       |                       |       |     |     |              | 1 Publish Trade                         |
|       |                       |       |     |     |              |   |
| 28709 | NoSideAllocs          | Y     | 1   | 113 | Counter      | Number of allocation in a T7 Entry      |
|       |                       |       |     |     |              | Service trade. Number of TES trade      |
|       |                       |       |     |     |              | sides in a TES trade                    |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 864   | NoEvents                       | Y     | 1   | 114 | Counter      | Number of repeating EventType entries.  |
| 555   | NoLegs                         | Y     | 1   | 115 | Counter      | Number of repeating TrdInstrmntLeg-<br>Grp entries (number of legs for user provided leg trade prices).   |
| 870   | NoInstrAttrib                  | Y     | 1   | 116 | Counter      | Number of repeating InstrAttribType entries.  |
| 887   | NoUnderlyingStips              | Y     | 1   | 117 | Counter      | Number of underlying stipulation entries.   |
| 20010 | PartyIDSettlement-<br>Location | N     | 1   | 118 | unsigned int | ID of settlement location.  Value Description  Clearstrem Banking Frankfurt  Clearstrem Banking Luxemburg  3 CLS Group  4 Euroclear   |
| 29008 | HedgeType                      | N     | 1   | 119 | unsigned int | Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFP-Fin Trade [mandatory]and (1002) EFI-Index Futures Trade [mandatory].  Value Description  0 Duration Hedge  1 Nominal Hedge  2 Price Factor Hedge |
| 25199 | SwapClearer                    | N     | 1   | 120 | unsigned int | Swap clearer for EFS Trades only  Value Description  0 Eurex Clearing  1 Non-Eurex Clearing   |
| 28583 | TradeReportText                | N     | 20  | 121 | Fixed String | User defined TES ID.  Valid characters: \x01-\x7E   |
| 571   | TradeReportID                  | N     | 20  | 141 | Fixed String | User defined transaction ID. Part of the TES response and TES broadcast. Valid characters: \x01-\x7E  |

| Tag  | Field Name                              | Req'd     | Len   | Ofs    | Data Type        | Description                             |
|--|---|-----------|-------|--------|------------------|---|
| 309  | UnderlyingSecurityID                    | N         | 12    | 161    | ISIN             | Underlying security's ID (ISIN).        |
|  |   |           |       |        |                  | To be set for TrdType (1001) EFP-Fin    |
|  |   |           |       |        |                  | Trade [mandatory].                      |
|  |   |           |       |        |                  | Valid characters: A-Z, 0-9, \x20        |
| 307  | UnderlyingSecurity-                     | N         | 30    | 173    | Fixed String     | Description of the Underlying security. |
|  | Desc                                    |           |       |        | o .              | To be set for TrdType (1001) EFP-Fin    |
|  |   |           |       |        |                  | Trade [optional].                       |
|  |   |           |       |        |                  | Valid characters: \x01-\x7E             |
| 318  | UnderlyingCurrency                      | N         | 3     | 203    | CurrencyType     | Underlying security's currency.         |
|  |   |           |       |        |                  | To be set for TrdType (12) Exchange     |
|  |   |           |       |        |                  | for Swap [optional]and (1001) EFP-      |
|  |   |           |       |        |                  | Fin Trade [optional].                   |
|  |   |           |       |        |                  | Valid characters: A-Z, 0-9, \x20        |
| 306  | Underlyinglssuer                        | N         | 30    | 206    | Fixed String     | The issuer or name of the underlying    |
|  |   |           |       |        |                  | security.                               |
|  |   |           |       |        |                  | To be set for TrdType (1001) EFP-Fin    |
|  |   |           |       |        |                  | Trade [optional].                       |
|  |   |           |       |        |                  | Valid characters: \x01-\x7E             |
| 39040  | Pad4                                    | U         | 4     | 236    | Fixed String     | not used                                |
| <side< td=""><td>AllocGrp&gt; Cardinality: 3</td><td>1 - 99, R</td><td>ecord</td><td>counte</td><td>er: NoSideAllocs</td><td></td></side<> | AllocGrp> Cardinality: 3                | 1 - 99, R | ecord | counte | er: NoSideAllocs |   |
| 80   | >AllocQty                               | Y         | 8     | 240    | Qty              | Quantity of the particular trade side   |
|  |   |           |       |        |                  | in the TES trade.                       |
| 467  |   | U         | 4     | 248    | unsigned int     | not used                                |
| 25180  | >TESEnrichment-                         | N         | 4     | 252    | unsigned int     | Enrichment Rule ID for TES trades       |
|  | RuleID                                  |           |       |        | G                | (to be used only in case of Auto Ap-    |
|  |   |           |       |        |                  | proval)                                 |
| 54   | >Side                                   | Y         | 1     | 256    | unsigned int     | Side of the TES trade.                  |
|  |   |           |       |        |                  | Value Description                       |
|  |   |           |       |        |                  | 1 Buy                                   |
|  |   |           |       |        |                  | 2 Sell                                  |
|  |   |           |       |        |                  |   |
| 22001  | >PartyExecutingFirm                     | Υ         | 5     | 257    | Fixed String     | Approving business unit                 |
|  |   |           |       |        |                  | Valid characters: A-Z, 0-9, \x20        |
| 22012  | >PartyExecuting-                        | Y         | 6     | 262    | Fixed String     | Approving user name                     |
|  | Trader                                  | '         | J     |        | i inca otimig    | Valid characters: A-Z, 0-9, \x20        |
| 39040  | >Pad4                                   | U         | 4     | 268    | Fixed String     | not used                                |
|  | nstrmntLegGrp> Cardina                  |           |       |        |                  |   |
| 602  |   | Y         | 8     | 0      | signed int       | Instrument identifier of the leg secu-  |
|  | , _000000000000000000000000000000000000 | .         | -     |        |                  | rity.                                   |
| 566  | >LegPrice                               | Y         | 8     | 8      | PriceType        | User provided leg trade price (not for  |
|  | , _00                                   | .         | -     |        |                  | underlying leg).                        |
|  | <u> </u>                                |           |       |        |                  | 7 6 -6/                                 |

| Tag   | Field Name              | Req'd     | Len    | Ofs     | Data Type        | Description   |
|---|-------------------------|-----------|--------|---------|------------------|---|
| 687   | >LegQty                 | U         | 8      | 16      | Qty              | not used  |
| <instr< td=""><td>umentEventGrp&gt; Cardii</td><td>nality: 0</td><td>- 2, R</td><td>ecord o</td><td>counter: NoEvent</td><td>5</td></instr<>      | umentEventGrp> Cardii   | nality: 0 | - 2, R | ecord o | counter: NoEvent | 5   |
| 866   | >EventDate              | Y         | 4      | 0       | LocalMktDate     | Date of event.  To be set for TrdType (12) Exchange for Swap [mandatory].   |
| 865   | >EventType              | Y         | 1      | 4       | unsigned int     | Identifier for an Instrument Event  Value Description  8 Swap Start Date  9 Swap End Date   |
| 39030   | >Pad3                   | U         | 3      | 5       | Fixed String     | not used  |
|   | umentAttributeGrp> Ca   | rdinality | v: 0-6 | , Reco  |                  | strAttrib   |
|   | >InstrAttribType        | Y         | 32     | 0       | unsigned int     | Code to represent the type of instrument attribute.  To be set for TrdType (12) Exchange for Swap[Swap, Customer_1, Swap_Customer_2 Variable_Rate, Offset_tothe_variable_coupon_rate: optional], (1001) EFP-Fin Trade [Coupon_Rate: optional] and (1002) EFP-Index Futures Trade[Cash_Basket_Reference: mandatory].  Value Description  5 Variable rate  100 Coupon rate  101 Offset to the variable coupon rate  102 Swap Customer 1  103 Swap Customer 2  104 Cash Basket Reference  Attribute value appropriate to the |
| 012   | / mstr Attrib v alue    | ī         | 32     | 1       | i ixeu Striffg   | InstrAttribType field.  To be set for TrdTyp (12) Exchange for Swap [optional], (1001) EFP-Fin Trade [optional] and (1002) EFP-Index Futures Trade [mandatory].  Valid characters: \x01-\x7E  |
| 39070   | >Pad7                   | U         | 7      | 33      | Fixed String     | not used  |
| <unde< td=""><td>erlyingStipGrp&gt; Cardina</td><td>lity: 0</td><td>1, Rec</td><td>ord co</td><td>unter: NoUnderly</td><td>ringStips</td></unde<> | erlyingStipGrp> Cardina | lity: 0   | 1, Rec | ord co  | unter: NoUnderly | ringStips   |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|----------------------|-------|-----|-----|--------------|--|
| 889   | >UnderlyingStipValue | Υ     | 32  | 0   | Fixed String | Value of stipulation. In case of cupon |
|       |                      |       |     |     |              | frequency , fill the field with cupon  |
|       |                      |       |     |     |              | frequency value.                       |
|       |                      |       |     |     |              | To be set for TrdType (12) Exchange    |
|       |                      |       |     |     |              | for Swap [optional] and (1001) EFP-    |
|       |                      |       |     |     |              | Fin Trade [optional].                  |
|       |                      |       |     |     |              | Valid characters: \x01-\x7E            |
| 888   | >UnderlyingStipType  | Y     | 7   | 32  | Fixed String | Type of stipulation. e.g. to denote    |
|       |                      |       |     |     |              | coupon frequency.                      |
|       |                      |       |     |     |              | Pay_Frequency to be set for TrdType    |
|       |                      |       |     |     |              | (12) Exchange for Swap [optional] and  |
|       |                      |       |     |     |              | (1001) EFP-Fin Trade [optional].       |
|       |                      |       |     |     |              | Value Description                      |
|       |                      |       |     |     |              | PAYFREQ Pay_Frequency                  |
|       |                      |       |     |     |              |  |
| 39000 | >Pad1                | U     | 1   | 39  | Fixed String | not used                               |

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# 13.2 TES Response

This message confirms Enter TES Trade, Modify TES Trade, Delete TES Trade, Approve TES Trade, and Upload TES Trade requests.

| Tag  | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |  |  |
|--|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|--|
| < Messa  | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |  |  |
| 9  | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |  |  |
|  |                                       |       |     |     |              | cluding this field.                    |  |  |  |  |  |
| 28500  | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |  |  |
|  |                                       |       |     |     |              | sage layout. Value: 10611 (Trade-      |  |  |  |  |  |
|  |                                       |       |     |     |              |  |  |  |  |  |  |
| 39020  | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |  |  |  |
| <respo< td=""><td>nseHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></respo<> | nseHeader>                            |       |     |     |              |  |  |  |  |  |  |
| 5979   | RequestTime                           | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.          |  |  |  |  |  |
| 52   | SendingTime                           | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |  |  |
|  |                                       |       |     |     |              | the gateway                            |  |  |  |  |  |
| 34   | MsgSeqNum                             | Y     | 4   | 24  | unsigned int | Message sequence number used by the    |  |  |  |  |  |
|  |                                       |       |     |     |              | participant for requests sent to the   |  |  |  |  |  |
|  |                                       |       |     |     |              | gateway.                               |  |  |  |  |  |
| 39040  | Pad4                                  | U     | 4   | 28  | Fixed String | not used                               |  |  |  |  |  |
| < Messa  | geBody>                               |       |     |     |              |  |  |  |  |  |  |
| 30017  | TESExecID                             | Y     | 4   | 32  | unsigned int | System transaction identifier for a T7 |  |  |  |  |  |
|  |                                       |       |     |     |              | Entry Service transaction.             |  |  |  |  |  |
| 571  | TradeReportID                         | Y     | 20  | 36  | Fixed String | User defined transaction ID. Part of   |  |  |  |  |  |
|  |                                       |       |     |     |              | the TES response and TES broadcast.    |  |  |  |  |  |
|  |                                       |       |     |     |              | Valid characters: \x01-\x7E            |  |  |  |  |  |

| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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## 13.3 TES Broadcast

This message informs about entered, modified or uploaded TES Trades.

| Tag  | Field Name                            | Req'd                                 | Len | Ofs | Data Type    | Description   |  |  |  |  |
|--|---------------------------------------|---------------------------------------|-----|-----|--------------|---|--|--|--|--|
| <messa<sub>k</messa<sub>   | <messageheaderout></messageheaderout> |                                       |     |     |              |   |  |  |  |  |
| 9  | BodyLen                               | Y                                     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                      |  |  |  |  |
|  |                                       |                                       |     |     |              | cluding this field.   |  |  |  |  |
| 28500  | TemplateID                            | Y                                     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                                       |  |  |  |  |
|  |                                       |                                       |     |     |              | sage layout. Value: 10604 (Trade-   |  |  |  |  |
|  |                                       |                                       |     |     |              | CaptureReport, MsgType = AE)  |  |  |  |  |
| 39020  |                                       | U                                     | 2   | 6   | Fixed String | not used  |  |  |  |  |
| <rbch< td=""><td></td><td></td><td></td><td></td><td>LITCT</td><td>Cu t t</td></rbch<> |                                       |                                       |     |     | LITCT        | Cu t t  |  |  |  |  |
| 52   | SendingTime                           | Y                                     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by                                      |  |  |  |  |
| 1101   | A 16 N                                | \ \                                   | 0   | 1.6 |              | the gateway   |  |  |  |  |
| 1181   | ApplSeqNum                            | Y                                     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI        |  |  |  |  |
|  |                                       |                                       |     |     |              | data stream.  |  |  |  |  |
| 28727  | ApplSubID                             | N                                     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system                                       |  |  |  |  |
| 20121  | Дррізивів                             | '\                                    | 7   | 24  | unsigned int | during broadcast subscription in order                                    |  |  |  |  |
|  |                                       |                                       |     |     |              | to link broadcasts to the related sub-                                    |  |  |  |  |
|  |                                       |                                       |     |     |              | scription.  |  |  |  |  |
| 5948   | PartitionID                           | Υ                                     | 2   | 28  | unsigned int | Grouping of T7 products.  |  |  |  |  |
|  |                                       |                                       |     |     | _            | Belongs to the scope of Service Avail-                                    |  |  |  |  |
|  |                                       |                                       |     |     |              | ability and Retransmit requests.  |  |  |  |  |
| 1352   | ApplResendFlag                        | Y                                     | 1   | 30  | unsigned int | Indicates a retransmission message.                                       |  |  |  |  |
|  |                                       |                                       |     |     |              | Value Description   |  |  |  |  |
|  |                                       |                                       |     |     |              | 0 False   |  |  |  |  |
|  |                                       |                                       |     |     |              | 1 True  |  |  |  |  |
|  |                                       |                                       |     |     |              |   |  |  |  |  |
| 1180   | ApplID                                | Y                                     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  |  |  |  |  |
|  |                                       |                                       |     |     |              | Value Description   |  |  |  |  |
|  |                                       |                                       |     |     |              | 7 TES Maintenance   |  |  |  |  |
| 002  |                                       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     | 20  |              |   |  |  |  |  |
| 893  | LastFragment                          | Y                                     | 1   | 32  | unsigned int | Indicates whether this message is the                                     |  |  |  |  |
|  |                                       |                                       |     |     |              | last fragment (part) of a sequence of messages belonging to one dedicated |  |  |  |  |
|  |                                       |                                       |     |     |              | transaction.  |  |  |  |  |
|  |                                       |                                       |     |     |              |   |  |  |  |  |
|  |                                       |                                       |     |     |              | Value Description   |  |  |  |  |
|  |                                       |                                       |     |     |              | 1 Last Message  |  |  |  |  |
| 39070  | Pad7                                  | U                                     | 7   | 33  | Fixed String | not used  |  |  |  |  |
|  | geBody>                               |                                       |     |     |              |   |  |  |  |  |
|  | SecurityID                            | Υ                                     | 8   | 40  | signed int   | Instrument identifier.  |  |  |  |  |

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| Tag   | Field Name             | Req'd | Len | Ofs | Data Type               | Description  |
|-------|------------------------|-------|-----|-----|-------------------------|--|
| 31    | LastPx                 | Υ     | 8   | 48  | PriceType               | Price of TES trade.                                  |
| 60    | TransactTime           | Υ     | 8   | 56  | UTCTimestamp            | Transaction timestamp.                               |
| 810   | UnderlyingPx           | N     | 8   | 64  | PriceType               | Underlying price associated with a                   |
|       |                        |       |     |     |                         | derivative instrument.                               |
| 483   | TransBkdTime           | N     | 8   | 72  | UTCTimestamp            | Time of Commencement, the time                       |
|       |                        |       |     |     |                         | when an Off-Book trade was con-                      |
|       |                        |       |     |     |                         | cluded outside the T7 System. There                  |
|       |                        |       |     |     |                         | is a market specific validation of Time              |
|       |                        |       |     |     |                         | of Commencement by the T7 back-                      |
|       |                        |       |     |     |                         | end.   |
| 2589  | RelatedClosePrice      | N     | 8   | 80  | floatDecimal6           | User defined index price.                            |
|       |                        |       |     |     |                         | To be set for TrdType (1004) Trade                   |
|       |                        |       |     |     | _                       | at Market [mandatory].                               |
| 1860  | RelatedTradeQuantity   | N     | 8   | 88  | Qty                     | Quantity of the related trade.                       |
|       |                        |       |     |     |                         | To be set for TrdType (1000) Vola                    |
| 070   |                        | N.    |     | 0.5 | 0.                      | Trade [mandatory].                                   |
| 879   | UnderlyingQty          | N     | 8   | 96  | Qty                     | Nominal value of an underlying (for                  |
|       |                        |       |     |     |                         | an EFS or EFP Index Trade in units                   |
| 25191 | CommunicalD            | N     | 8   | 104 | unsigned int            | of thousand).  Compression ID                        |
| 1300  | CompressionID          | Y     | 4   | 112 | unsigned int signed int | Product identifier.                                  |
| 2489  | MarketSegmentID        | Y     | 4   | 116 | unsigned int            | Identifier for a T7 Entry Service trade              |
| 2409  | PackageID              | '     | 4   | 110 | unsigned int            | i.e. TES trade ID.                                   |
| 30017 | TESExecID              | Y     | 4   | 120 | unsigned int            | System transaction identifier for a T7               |
| 30011 | TESEXCOLD              | •     | •   | 120 | anoigned int            | Entry Service transaction.                           |
|       | UnderlyingSettlement-  |       |     |     |                         |  |
| 987   | Date                   | N     | 4   | 124 | LocalMktDate            | Date the underlying instrument will                  |
|       |                        |       |     |     |                         | settle.  |
|       |                        |       |     |     |                         | To be set for TrdType (1) Echange for                |
|       |                        |       |     |     |                         | Swap [optional] and (1001) EFP-Fin Trade [optional]. |
|       | UnderlyingMaturity-    |       |     |     |                         | Trade [optional].                                    |
| 542   | Date                   | N     | 4   | 128 | LocalMktDate            | Underlying security's maturity date.                 |
|       |                        |       |     |     |                         | To be set for TrdType (1001) EFP-Fin                 |
|       |                        |       |     |     |                         | Trade [mandatory].                                   |
| 1856  | ${\sf RelatedTradeID}$ | N     | 4   | 132 | unsigned int            | Identifier of a related trade.                       |
|       |                        |       |     |     |                         | To be set for TrdType (1000) Vola                    |
|       | D. I. IM. I.           |       |     |     |                         | Trade [mandatory].                                   |
| 2546  | RelatedMarket-         | N     | 4   | 136 | signed int              | Identifies a related product.                        |
|       | SegmentID              |       |     |     |                         | To be set for TrdType (1000) Vola                    |
|       |                        |       |     |     |                         | Trade [mandatory].                                   |
| 25181 | AutoApprovalRuleID     | N     | 4   | 140 | unsigned int            | Auto Approval rule id - only in case of              |
|       |                        |       |     |     |                         | erroneous Auto Approval processing                   |

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                     |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 828   | TrdType                               | Y     | 2   | 144 | unsigned int | Type of TES trade.                              |
|       |                                       |       |     |     |              | Value Description                               |
|       |                                       |       |     |     |              | 1 Block Trade                                   |
|       |                                       |       |     |     |              | 12 Exchange for Swap                            |
|       |                                       |       |     |     |              | 50 Compression                                  |
|       |                                       |       |     |     |              | 1000 Vola Trade                                 |
|       |                                       |       |     |     |              | 1001 EFP-Fin Trade                              |
|       |                                       |       |     |     |              | 1002 EFP-Index Futures Trade                    |
|       |                                       |       |     |     |              | 1007 QTPIP BLOCK TRADE                          |
|       |                                       |       |     |     |              | 1004 Trade at Market                            |
| 20254 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | N.    |     | 146 | <u> </u>     | N. I. C. II. C. C. IIV. T.                      |
| 30354 | VarTextLen                            | N     | 2   | 146 | Counter      | Number of used bytes for field VarText (30355). |
| 856   | TradeReportType                       | Y     | 1   | 148 | unsigned int | Identifies the type of trade notifica-          |
| 030   | TradeReport Type                      | '     | 1   | 140 | unsigned int | tion.   |
|       |                                       |       |     |     |              | Value Description                               |
|       |                                       |       |     |     |              | 0 Submit  |
|       |                                       |       |     |     |              | 2 Accept  |
|       |                                       |       |     |     |              | 5 No/Was (Replaced)                             |
|       |                                       |       |     |     |              | 11 Alleged New                                  |
|       |                                       |       |     |     |              | 13 Alleged No/Was                               |
|       |                                       |       |     |     |              | 13 Alleged 140/ VVas                            |
| 939   | TrdRptStatus                          | N     | 1   | 149 | unsigned int | Overall status of the TES trade, for            |
|       |                                       |       |     |     |              | Initiator only                                  |
|       |                                       |       |     |     |              | Value Description                               |
|       |                                       |       |     |     |              | 0 Accepted                                      |
|       |                                       |       |     |     |              | 4 Pending new                                   |
|       |                                       |       |     |     |              | 9 Deemed verified                               |
|       |                                       |       |     |     |              |   |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex        | N     | 1   | 150 | unsigned int | This field qualifies an instrument type   |
|       |                       |       |     |     |              | on T7.  |
|       |                       |       |     |     |              | Value Description   |
|       |                       |       |     |     |              | 1 Simple instrument   |
|       |                       |       |     |     |              | 2 Standard Option Strategy  |
|       |                       |       |     |     |              | 3 Non-Standard Option Strategy  |
|       |                       |       |     |     |              | 4 Volatility Strategy   |
|       |                       |       |     |     |              | 5 Futures Spread  |
|       |                       |       |     |     |              | 6 Inter-Product Spread  |
|       |                       |       |     |     |              | 7 Standard Future Strategy  |
|       |                       |       |     |     |              | 8 Pack and Bundle   |
|       |                       |       |     |     |              | 9 Strip   |
|       |                       |       |     |     |              | 10 Flexible Simple Instrument   |
|       |                       |       |     |     |              | 11 Commodity Strip  |
| 1390  | TradePublishIndicator | Y     | 1   | 151 | unsigned int | Indicates if a trade should be reported via the market reporting service.  Value Description  0 Do Not Publish Trade  1 Publish Trade |
| 864   | NoEvents              | Y     | 1   | 152 | Counter      | Number of repeating EventType entries.  |
| 870   | NoInstrAttrib         | Y     | 1   | 153 | Counter      | Number of repeating InstrAttribType entries.  |
| 887   | NoUnderlyingStips     | Y     | 1   | 154 | Counter      | Number of underlying stipulation entries.   |
| 28709 | NoSideAllocs          | Y     | 1   | 155 | Counter      | Number of allocation in a T7 Entry<br>Service trade. Number of TES trade<br>sides in a TES trade                                      |
| 555   | NoLegs                | Y     | 1   | 156 | Counter      | Number of repeating TrdInstrmntLeg-<br>Grp entries (number of legs for user<br>provided leg trade prices).                            |
| 31555 | NoLegClearingPrices   | Y     | 1   | 157 | Counter      | Number of ClearingPriceLeg repeating group instances.   |

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| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------|-------|-----|-----|--------------|--|
| 20010 | PartyIDSettlement-<br>Location | N     | 1   | 158 | unsigned int | ID of settlement location.   |
|       |                                |       |     |     |              | Value Description  Clearstrem Banking Frank-                             |
|       |                                |       |     |     |              | furt  Clearstrem Banking Luxem-  |
|       |                                |       |     |     |              | burg  3 CLS Group  |
|       |                                |       |     |     |              | 4 Euroclear  |
| 29008 | HedgeType                      | N     | 1   | 159 | unsigned int | Hedging method.  To be set for TrdType (12) Exchange                     |
|       |                                |       |     |     |              | for Swap [mandatory], (1001) EFP-  |
|       |                                |       |     |     |              | Fin Trade [mandatory]and (1002) EFI-Index Futures Trade [mandatory].     |
|       |                                |       |     |     |              |  |
|       |                                |       |     |     |              | Value Description  0 Duration Hedge                                      |
|       |                                |       |     |     |              | 1 Nominal Hedge  |
|       |                                |       |     |     |              | 2 Price Factor Hedge   |
| 25199 | SwapClearer                    | N     | 1   | 160 | unsigned int | Swap clearer for EFS Trades only   |
|       |                                |       |     |     |              | Value Description  |
|       |                                |       |     |     |              | 0 Eurex Clearing   |
|       |                                |       |     |     |              | 1 Non-Eurex Clearing   |
| 1011  | MessageEventSource             | Y     | 1   | 161 | char         | Receiver of a message.   |
|       |                                |       |     |     |              | Value Description  |
|       |                                |       |     |     |              | I Broadcast to initiator   |
|       |                                |       |     |     |              | A Broadcast to approver  |
| 28583 | TradeReportText                | N     | 20  | 162 | Fixed String | User defined TES ID.   |
| F 7.1 | T 10 .10                       | N.    | 00  | 100 | F: C: . :    | Valid characters: \x01-\x7E  |
| 571   | TradeReportID                  | N     | 20  | 182 | Fixed String | User defined transaction ID. Part of the TES response and TES broadcast. |
|       |                                |       |     |     |              | Valid characters: \x01-\x7E  |
| 22401 | RootPartyExecuting-            | Y     | 5   | 202 | Fixed String | Participant Short Name.  |
|       | Firm                           |       |     |     |              | Valid characters: \x20, \x22-\x7B, \x7D, \x7E                            |
| 22412 | RootPartyExecuting-<br>Trader  | Y     | 6   | 207 | Fixed String | Owning User Short Name.  Valid characters: \x20, \x22-\x7B,              |
|       |                                |       |     |     |              | \x7D, \x7E   |

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| Tag  | Field Name             | Req'd   | Len    | Ofs      | Data Type          | Description                             |
|--|------------------------|---------|--------|----------|--------------------|---|
| 309  | UnderlyingSecurityID   | N       | 12     | 213      | ISIN               | Underlying security's ID (ISIN).        |
|  |                        |         |        |          |                    | To be set for TrdType (1001) EFP-Fin    |
|  |                        |         |        |          |                    | Trade [mandatory].                      |
|  |                        |         |        |          |                    | Valid characters: A-Z, 0-9, \x20        |
| 307  | UnderlyingSecurity-    | N       | 30     | 225      | Fixed String       | Description of the Underlying security. |
|  | Desc                   |         |        |          | 8                  | To be set for TrdType (1001) EFP-Fin    |
|  |                        |         |        |          |                    | Trade [optional].                       |
|  |                        |         |        |          |                    | Valid characters: \x01-\x7E             |
| 318  | UnderlyingCurrency     | N       | 3      | 255      | CurrencyType       | Underlying security's currency.         |
|  |                        |         |        |          | , , , ,            | To be set for TrdType (12) Exchange     |
|  |                        |         |        |          |                    | for Swap [optional]and (1001) EFP-      |
|  |                        |         |        |          |                    | Fin Trade [optional].                   |
|  |                        |         |        |          |                    | Valid characters: A-Z, 0-9, \x20        |
| 306  | UnderlyingIssuer       | N       | 30     | 258      | Fixed String       | The issuer or name of the underlying    |
|  | , ,                    |         |        |          |                    | security.                               |
|  |                        |         |        |          |                    | To be set for TrdType (1001) EFP-Fin    |
|  |                        |         |        |          |                    | Trade [optional].                       |
|  |                        |         |        |          |                    | Valid characters: \x01-\x7E             |
| <side< td=""><td>AllocGrpBC&gt; Cardinalit</td><td>y: 1-99</td><td>, Reco</td><td>ord cou</td><td>ınter: NoSideAlloc</td><td>CS</td></side<> | AllocGrpBC> Cardinalit | y: 1-99 | , Reco | ord cou  | ınter: NoSideAlloc | CS                                      |
| 80   | >AllocQty              | Υ       | 8      | 288      | Qty                | Quantity of the particular trade side   |
|  |                        |         |        |          |                    | in the TES trade.                       |
| 25198  | >ReversalApproval-     | U       | 8      | 296      | UTCTimestamp       | not used                                |
| 23130  | Time                   |         |        | 230      | o r e rimestamp    |   |
| 467  | <i>y</i>               | Υ       | 4      | 304      | unsigned int       | Unique identifier for a TES trade side. |
| 25180  | >TESEnrichment-        | N       | 4      | 308      | unsigned int       | Enrichment Rule ID for TES trades       |
|  | RuleID                 |         |        |          |                    | (to be used only in case of Auto Ap-    |
|  |                        |         |        |          |                    | proval)                                 |
| 22001  | >PartyExecutingFirm    | Υ       | 5      | 312      | Fixed String       | Approving business unit                 |
|  |                        |         |        |          |                    | Valid characters: A-Z, 0-9, \x20        |
| 22012  | >PartyExecuting-       | Υ       | 6      | 317      | Fixed String       | Approving user name                     |
| 22012  | Trader                 | 1       | U      | 317      | Fixed String       | Valid characters: A-Z, 0-9, \x20        |
| 54   | >Side                  | Y       | 1      | 323      | unsigned int       | Side of the TES trade.                  |
| J4   | / Jiuc                 | '       | 1      | 323      | unsigned int       |   |
|  |                        |         |        |          |                    | Value Description                       |
|  |                        |         |        |          |                    | 1 Buy                                   |
|  |                        |         |        |          |                    | 2 Sell                                  |
|  |                        |         |        | <u> </u> |                    |   |

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| Tag   | Field Name                  | Req'd          | Len    | Ofs     | Data Type          | Description                                   |
|---|-----------------------------|----------------|--------|---------|--------------------|---|
| 1840  | >TradeAllocStatus           | Υ              | 1      | 324     | unsigned int       | Status of an allocation in a T7 Entry         |
|   |                             |                |        |         |                    | Service trade.                                |
|   |                             |                |        |         |                    | Value Description                             |
|   |                             |                |        |         |                    | 1 Pending                                     |
|   |                             |                |        |         |                    | 2 Approved                                    |
|   |                             |                |        |         |                    | 3 Auto Approved                               |
|   |                             |                |        |         |                    | 4 Uploaded                                    |
|   |                             |                |        |         |                    | 5 Canceled                                    |
|   |                             |                |        |         |                    | 6 Pending Execution                           |
|   |                             |                |        |         |                    | 7 Pending Reversal                            |
|   |                             |                |        |         |                    | 8 Side Approved Reversal                      |
|   |                             |                |        |         |                    | 9 Reversed                                    |
|   |                             |                |        |         |                    | 10 Cancelled Reversal                         |
| 20020   | . D. 10                     |                |        | 205     | F: 1.C. :          |   |
|   | >Pad3                       | U U            | 3      | 325     | Fixed String       | not used                                      |
|   | nstrmntLegGrp> Cardin       | ality: U-<br>Y |        |         |                    | Instrument identifier of the less con-        |
| 002   | >LegSecurityID              | Ť              | 8      | 0       | signed int         | Instrument identifier of the leg secu-        |
| 566   | >LegPrice                   | Y              | 8      | 8       | PriceType          | rity.  User provided leg trade price (not for |
| 300   | Legi nee                    | '              | O      |         | TriceType          | underlying leg).                              |
| 687   | >LegQty                     | N              | 8      | 16      | Qty                | Quantity for leg of a multileg                |
|   | umentEventGrp> Cardii       | nality: 0      | - 2. R | ecord o | <u>-</u>           |   |
| 866   |                             | Y              | 4      | 0       | LocalMktDate       | Date of event.                                |
|   |                             |                |        |         |                    | To be set for TrdType (12) Exchange           |
|   |                             |                |        |         |                    | for Swap [mandatory].                         |
| 865   | >EventType                  | Υ              | 1      | 4       | unsigned int       | Identifier for an Instrument Event            |
|   |                             |                |        |         |                    | Value Description                             |
|   |                             |                |        |         |                    | 8 Swap Start Date                             |
|   |                             |                |        |         |                    | 9 Swap End Date                               |
|   |                             |                |        |         |                    |   |
|   | >Pad3                       | U              | 3      | 5       | Fixed String       | not used                                      |
|   | ClearingPriceLegGrp> Ca     |                |        | 20, Red |                    | 1   |
| 602   | >LegSecurityID              | Y              | 8      | 0       | signed int         | Instrument identifier of the leg secu-        |
|   |                             |                |        |         |                    | rity.   |
| 31596   | >LegClearingTrade-<br>Price | Y              | 8      | 8       | PriceType          |   |
| <instr< td=""><td>umentAttributeGrp&gt; Ca</td><td>rdinality</td><td>v: 0-6</td><td>, Reco</td><td>ord counter: NoIns</td><td>strAttrib</td></instr<> | umentAttributeGrp> Ca       | rdinality      | v: 0-6 | , Reco  | ord counter: NoIns | strAttrib                                     |

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| Tag  | Field Name              | Req'd    | Len    | Ofs    | Data Type        | Description                            |
|--|-------------------------|----------|--------|--------|------------------|--|
| 871  | >InstrAttribType        | Υ        | 1      | 0      | unsigned int     | Code to represent the type of instru-  |
|  |                         |          |        |        |                  | ment attribute.                        |
|  |                         |          |        |        |                  | To be set for TrdType (12) Ex-         |
|  |                         |          |        |        |                  | change for Swap[Swap, Cus-             |
|  |                         |          |        |        |                  | tomer_1, Swap_Customer_2               |
|  |                         |          |        |        |                  | Variable_Rate, Offset_to-              |
|  |                         |          |        |        |                  | the_variable_coupon_rate: op-          |
|  |                         |          |        |        |                  | tional], (1001) EFP-Fin Trade          |
|  |                         |          |        |        |                  | [Coupon_Rate: optional]and             |
|  |                         |          |        |        |                  | (1002) EFP-Index Futures               |
|  |                         |          |        |        |                  | Trade[Cash_Basket_Reference:           |
|  |                         |          |        |        |                  | mandatory].                            |
|  |                         |          |        |        |                  | Value Description                      |
|  |                         |          |        |        |                  | 5 Variable rate                        |
|  |                         |          |        |        |                  | 100 Coupon rate                        |
|  |                         |          |        |        |                  | Offset to the variable coupon          |
|  |                         |          |        |        |                  | rate                                   |
|  |                         |          |        |        |                  | 102 Swap Customer 1                    |
|  |                         |          |        |        |                  | 103 Swap Customer 2                    |
|  |                         |          |        |        |                  | 104 Cash Basket Reference              |
| 872  | >InstrAttribValue       | Y        | 32     | 1      | Fixed String     | Attribute value appropriate to the     |
|  |                         |          |        |        | _                | InstrAttribType field.                 |
|  |                         |          |        |        |                  | To be set for TrdTyp (12) Exchange     |
|  |                         |          |        |        |                  | for Swap [optional], (1001) EFP-Fin    |
|  |                         |          |        |        |                  | Trade [optional] and (1002) EFP-       |
|  |                         |          |        |        |                  | Index Futures Trade [mandatory].       |
|  |                         |          |        |        |                  | Valid characters: \x01-\x7E            |
| 39070  | >Pad7                   | U        | 7      | 33     | Fixed String     | not used                               |
| <unde< td=""><td>erlyingStipGrp&gt; Cardina</td><td>lity: 0-</td><td>1, Rec</td><td>ord co</td><td>unter: NoUnderly</td><td>vingStips</td></unde<> | erlyingStipGrp> Cardina | lity: 0- | 1, Rec | ord co | unter: NoUnderly | vingStips                              |
| 889  | >UnderlyingStipValue    | Y        | 32     | 0      | Fixed String     | Value of stipulation. In case of cupon |
|  |                         |          |        |        |                  | frequency , fill the field with cupon  |
|  |                         |          |        |        |                  | frequency value.                       |
|  |                         |          |        |        |                  | To be set for TrdType (12) Exchange    |
|  |                         |          |        |        |                  | for Swap [optional] and (1001) EFP-    |
|  |                         |          |        |        |                  | Fin Trade [optional].                  |
|  |                         |          |        |        |                  | Valid characters: \x01-\x7E            |

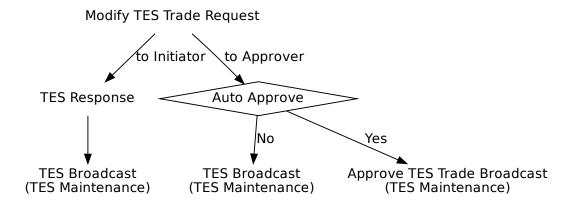
| Tag   | Field Name          | Req'd | Len  | Ofs | Data Type       | Description                           |
|-------|---------------------|-------|------|-----|-----------------|---------------------------------------|
| 888   | >UnderlyingStipType | Υ     | 7    | 32  | Fixed String    | Type of stipulation. e.g. to denote   |
|       |                     |       |      |     |                 | coupon frequency.                     |
|       |                     |       |      |     |                 | Pay_Frequency to be set for TrdType   |
|       |                     |       |      |     |                 | (12) Exchange for Swap [optional] and |
|       |                     |       |      |     |                 | (1001) EFP-Fin Trade [optional].      |
|       |                     |       |      |     |                 | Value Description                     |
|       |                     |       |      |     |                 | PAYFREQ Pay_Frequency                 |
|       |                     |       |      |     |                 |                                       |
| 39000 | >Pad1               | U     | 1    | 39  | Fixed String    | not used                              |
| 30355 | VarText             | N     | 2000 | 0   | Variable String | Reason for erroneous Auto Approval    |
|       |                     |       |      |     |                 | processing                            |
|       |                     |       |      |     |                 | Valid characters: \x09, \x0A, \x0D,   |
|       |                     |       |      |     |                 | \x20-\x7B, \x7D, \x7E                 |

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#### 13.4 Modify TES Trade Request

This message allows the modification of a pending TES trade by its initiating user. As long as the TES trade is not approved by all of its approving users, the modification of the general TES trade information except instrument Id and external references is supported. This also includes the approving users and the number of the approving users involved on the TES trade sides. This message is sent to the service "T7 Entry".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description   |  |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |   |  |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.              |  |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10601 (Trade- |  |  |  |  |  |
|   |                                     |       |     |     |              | CaptureReport, MsgType = AE)  |  |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used  |  |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used  |  |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |   |  |  |  |  |  |
| 34  | MsgSeqNum                           | Y     | 4   | 16  | unsigned int | Message sequence number used by the                                 |  |  |  |  |  |
|   |                                     |       |     |     |              | participant for requests sent to the                                |  |  |  |  |  |
|   |                                     |       |     |     |              | gateway.  |  |  |  |  |  |
| 50  | SenderSubID                         | Y     | 4   | 20  | unsigned int | User ID.  |  |  |  |  |  |
| < Messa   | geBody>                             |       |     |     |              |   |  |  |  |  |  |
| 31  | LastPx                              | Y     | 8   | 24  | PriceType    | Price of TES trade.   |  |  |  |  |  |
| 483   | TransBkdTime                        | N     | 8   | 32  | UTCTimestamp | Time of Commencement, the time                                      |  |  |  |  |  |
|   |                                     |       |     |     |              | when an Off-Book trade was con-                                     |  |  |  |  |  |
|   |                                     |       |     |     |              | cluded outside the T7 System. There                                 |  |  |  |  |  |
|   |                                     |       |     |     |              | is a market specific validation of Time                             |  |  |  |  |  |
|   |                                     |       |     |     |              | of Commencement by the T7 back-                                     |  |  |  |  |  |
|   |                                     |       |     |     |              | end.  |  |  |  |  |  |
| 25191   | CompressionID                       | N     | 8   | 40  | unsigned int | Compression ID  |  |  |  |  |  |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type     | Description                              |
|-------|-----------------------|-------|-----|-----|---------------|--|
| 2589  | RelatedClosePrice     | N     | 8   | 48  | floatDecimal6 | User defined index price.                |
|       |                       |       |     |     |               | To be set for TrdType (1004) Trade       |
|       |                       |       |     |     |               | at Market [mandatory].                   |
| 1300  | MarketSegmentID       | Υ     | 4   | 56  | signed int    | Product identifier.                      |
| 2489  | PackageID             | Υ     | 4   | 60  | unsigned int  | Identifier for a T7 Entry Service trade  |
|       |                       |       |     |     |               | i.e. TES trade ID.                       |
| 30017 | TESExecID             | Υ     | 4   | 64  | unsigned int  | System transaction identifier for a T7   |
|       |                       |       |     |     |               | Entry Service transaction. The latest    |
|       |                       |       |     |     |               | value available to the Initiator for the |
|       |                       |       |     |     |               | corresponding TES Trade needs to be      |
|       |                       |       |     |     |               | provided.                                |
| 2546  | RelatedMarket-        | N     | 4   | 68  | signed int    | Identifies a related product.            |
|       | SegmentID             |       |     |     | O             | To be set for TrdType (1000) Vola        |
|       |                       |       |     |     |               | Trade [mandatory].                       |
| 828   | TrdType               | Υ     | 2   | 72  | unsigned int  | Type of TES trade.                       |
|       |                       |       |     |     |               | Value Description                        |
|       |                       |       |     |     |               | 1 Block Trade                            |
|       |                       |       |     |     |               | 12 Exchange for Swap                     |
|       |                       |       |     |     |               | 50 Compression                           |
|       |                       |       |     |     |               | 1000 Vola Trade                          |
|       |                       |       |     |     |               | 1001 EFP-Fin Trade                       |
|       |                       |       |     |     |               | 1002 EFP-Index Futures Trade             |
|       |                       |       |     |     |               | 1007 QTPIP BLOCK TRADE                   |
|       |                       |       |     |     |               | 1007 QTTH BLOCK TRABL                    |
|       |                       |       |     |     |               | 1004 Hade at Warket                      |
| 856   | TradeReportType       | Υ     | 1   | 74  | unsigned int  | Identifies the type of trade notifica-   |
|       |                       |       |     |     |               | tion.                                    |
|       |                       |       |     |     |               | Value Description                        |
|       |                       |       |     |     |               | 5 No/Was (Replaced)                      |
|       |                       |       |     |     |               |  |
| 1390  | TradePublishIndicator | Υ     | 1   | 75  | unsigned int  | Indicates if a trade should be reported  |
|       |                       |       |     |     |               | via the market reporting service.        |
|       |                       |       |     |     |               | Value Description                        |
|       |                       |       |     |     |               | 0 Do Not Publish Trade                   |
|       |                       |       |     |     |               | 1 Publish Trade                          |
|       |                       |       |     |     |               |  |
| 28709 | NoSideAllocs          | Y     | 1   | 76  | Counter       | Number of allocation in a T7 Entry       |
|       |                       |       |     |     |               | Service trade. Number of TES trade       |
|       |                       |       |     |     |               | sides in a TES trade                     |
| 555   | NoLegs                | Y     | 1   | 77  | Counter       | Number of repeating TrdInstrmntLeg-      |
|       |                       |       |     |     |               | Grp entries (number of legs for user     |
|       |                       |       |     |     |               | provided leg trade prices).              |

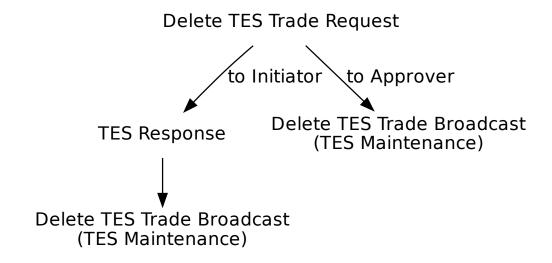
| Tag  | Field Name               | Req'd     | Len     | Ofs   | Data Type       | Description                             |
|--|--------------------------|-----------|---------|-------|-----------------|---|
| 25199  | SwapClearer              | N         | 1       | 78    | unsigned int    | Swap clearer for EFS Trades only        |
|  |                          |           |         |       |                 | Value Description                       |
|  |                          |           |         |       |                 | 0 Eurex Clearing                        |
|  |                          |           |         |       |                 | 1 Non-Eurex Clearing                    |
|  |                          |           |         |       |                 |   |
| 28583  | TradeReportText          | N         | 20      | 79    | Fixed String    | User defined TES ID.                    |
|  |                          |           |         |       |                 | Valid characters: \x01-\x7E             |
| 571  | TradeReportID            | N         | 20      | 99    | Fixed String    | User defined transaction ID. Part of    |
|  |                          |           |         |       |                 | the TES response and TES broadcast.     |
| 00000  |                          |           |         | 110   | F. 16.1         | Valid characters: \x01-\x7E             |
| 39000  |                          | U         | 1       | 119   | Fixed String    | not used                                |
|  | AllocGrp> Cardinality: 1 |           |         |       |                 |   |
| 80   | >AllocQty                | Y         | 8       | 120   | Qty             | Quantity of the particular trade side   |
| 467  |                          | N.        |         | 100   |                 | in the TES trade.                       |
| 467  |                          | N         | 4       | 128   | unsigned int    | Unique identifier for a TES trade side. |
| 25180  | >TESEnrichment-          | N         | 4       | 132   | unsigned int    | Enrichment Rule ID for TES trades       |
|  | RuleID                   |           |         |       |                 | (to be used only in case of Auto Ap-    |
|  |                          |           |         |       |                 | proval)                                 |
| 54   | >Side                    | Υ         | 1       | 136   | unsigned int    | Side of the TES trade.                  |
|  |                          |           |         |       |                 | Value Description                       |
|  |                          |           |         |       |                 | 1 Buy                                   |
|  |                          |           |         |       |                 | 2 Sell                                  |
|  |                          |           |         |       |                 |   |
| 22001  | >PartyExecutingFirm      | Y         | 5       | 137   | Fixed String    | Approving business unit                 |
|  |                          |           |         |       |                 | Valid characters: A-Z, 0-9, \x20        |
| 22012  | >PartyExecuting-         | Y         | 6       | 142   | Fixed String    | Approving user name                     |
|  | Trader                   |           |         |       |                 | Valid characters: A-Z, 0-9, \x20        |
| 39040  | >Pad4                    | U         | 4       | 148   | Fixed String    | not used                                |
| <trdli< td=""><td>nstrmntLegGrp&gt; Cardin</td><td>ality: 0-</td><td>- 20, R</td><td>ecord</td><td>counter: NoLegs</td><td>·</td></trdli<> | nstrmntLegGrp> Cardin    | ality: 0- | - 20, R | ecord | counter: NoLegs | ·                                       |
| 602  | >LegSecurityID           | Y         | 8       | 0     | signed int      | Instrument identifier of the leg secu-  |
|  |                          |           |         |       |                 | rity.                                   |
| 566  | >LegPrice                | Υ         | 8       | 8     | PriceType       | User provided leg trade price (not for  |
|  |                          |           |         |       |                 | underlying leg).                        |
| 687  | >LegQty                  | U         | 8       | 16    | Qty             | not used                                |

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### 13.5 Delete TES Trade Request

This message allows the deletion of a pending TES trade by its initiating user. This message is sent to the service "T7 Entry".



| Tag  | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                 |
|--|-----------------|-------|-----|-----|--------------|---|
| < Messa  | geHeaderIn>     |       |     |     |              |   |
| 9  | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|  |                 |       |     |     |              | cluding this field.                         |
| 28500  | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|  |                 |       |     |     |              | sage layout. Value: 10602 (Trade-           |
|  |                 |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |
| 25028  | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                                    |
| 39020  | Pad2            | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td>,</td><td></td><td></td><td></td></reque<> | stHeader>       |       | ,   |     |              |   |
| 34   | MsgSeqNum       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the         |
|  |                 |       |     |     |              | participant for requests sent to the        |
|  |                 |       |     |     |              | gateway.                                    |
| 50   | SenderSubID     | Υ     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa  | geBody>         |       |     |     |              |   |
| 25191  | CompressionID   | N     | 8   | 24  | unsigned int | Compression ID                              |
| 2489   | PackageID       | Υ     | 4   | 32  | unsigned int | Identifier for a T7 Entry Service trade     |
|  |                 |       |     |     |              | i.e. TES trade ID.                          |
| 1300   | MarketSegmentID | Y     | 4   | 36  | signed int   | Product identifier.                         |

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------|-------|-----|-----|--------------|--|
| 30017 | TESExecID          | Υ     | 4   | 40  | unsigned int | System transaction identifier for a T7   |
|       |                    |       |     |     |              | Entry Service transaction. The latest    |
|       |                    |       |     |     |              | value available to the Initiator for the |
|       |                    |       |     |     |              | corresponding TES Trade needs to be      |
|       |                    |       |     |     |              | provided.                                |
| 2546  | RelatedMarket-     | N     | 4   | 44  | signed int   | Identifies a related product.            |
|       | SegmentID          |       |     |     |              | To be set for TrdType (1000) Vola        |
|       |                    |       |     |     |              | Trade [mandatory].                       |
| 828   | TrdType            | Υ     | 2   | 48  | unsigned int | Type of TES trade.                       |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | 1 Block Trade                            |
|       |                    |       |     |     |              | 12 Exchange for Swap                     |
|       |                    |       |     |     |              | 50 Compression                           |
|       |                    |       |     |     |              | 1000 Vola Trade                          |
|       |                    |       |     |     |              | 1001 EFP-Fin Trade                       |
|       |                    |       |     |     |              | 1002 EFP-Index Futures Trade             |
|       |                    |       |     |     |              | 1007 QTPIP BLOCK TRADE                   |
|       |                    |       |     |     |              | 1004 Trade at Market                     |
| 856   | TradeReportType    | Y     | 1   | 50  | unsigned int | Identifies the type of trade notifica-   |
|       | Trader repert Type |       | _   |     | anoigned in  | tion.                                    |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | 6 Trade Report Cancel                    |
|       |                    |       |     |     |              |  |
| 571   | TradeReportID      | N     | 20  | 51  | Fixed String | User defined transaction ID. Part of     |
|       |                    |       |     |     |              | the TES response and TES broadcast.      |
|       |                    |       |     |     |              | Valid characters: \x01-\x7E              |
| 39000 | Pad1               | U     | 1   | 71  | Fixed String | not used                                 |

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## 13.6 Delete TES Trade Broadcast

This message informs initiator and approvers about TES Trade deletions.

| Tag  | Field Name      | Req'd                                 | Len | Ofs | Data Type         | Description   |  |  |  |
|--|-----------------|---------------------------------------|-----|-----|-------------------|---|--|--|--|
| <messageheaderout></messageheaderout>  |                 |                                       |     |     |                   |   |  |  |  |
| 9  | BodyLen         | Υ                                     | 4   | 0   | unsigned int      | Number of bytes for the message, in-  |  |  |  |
|  |                 |                                       |     |     |                   | cluding this field.   |  |  |  |
| 28500  | TemplateID      | Υ                                     | 2   | 4   | unsigned int      | Unique identifier for a T7 ETI mes-   |  |  |  |
|  |                 |                                       |     |     |                   | sage layout. Value: 10606 (Trade-   |  |  |  |
|  |                 |                                       |     |     |                   | ${\sf CaptureReport,\ MsgType} = {\sf AE})$                                 |  |  |  |
| 39020  | Pad2            | U                                     | 2   | 6   | Fixed String      | not used  |  |  |  |
| <rbch< td=""><td>eader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | eader>          |                                       |     |     |                   |   |  |  |  |
| 52   | SendingTime     | Y                                     | 8   | 8   | UTCTimestamp      | Outgoing timestamp; filled always by  |  |  |  |
|  |                 |                                       |     |     |                   | the gateway   |  |  |  |
| 1181   | ApplSeqNum      | Y                                     | 8   | 16  | unsigned int      | Application sequence number as-   |  |  |  |
|  |                 |                                       |     |     |                   | signed to a non-order related T7 ETI  |  |  |  |
|  |                 |                                       |     |     |                   | data stream.  |  |  |  |
| 28727  | ApplSubID       | N                                     | 4   | 24  | unsigned int      | Unique ID assigned by the T7 system   |  |  |  |
|  |                 |                                       |     |     |                   | during broadcast subscription in order                                      |  |  |  |
|  |                 |                                       |     |     |                   | to link broadcasts to the related sub-                                      |  |  |  |
|  |                 | .,                                    |     |     |                   | scription.  |  |  |  |
| 5948   | PartitionID     | Y                                     | 2   | 28  | unsigned int      | Grouping of T7 products.  |  |  |  |
|  |                 |                                       |     |     |                   | Belongs to the scope of Service Avail-                                      |  |  |  |
| 1250   | A 10 151        | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 20  |                   | ability and Retransmit requests.  |  |  |  |
| 1352   | ApplResendFlag  | Y                                     | 1   | 30  | unsigned int      | Indicates a retransmission message.   |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 0 False   |  |  |  |
|  |                 |                                       |     |     |                   | 1 True  |  |  |  |
| 1100   |                 |                                       |     | 0.1 |                   |   |  |  |  |
| 1180   | ApplID          | Y                                     | 1   | 31  | unsigned int      | Identifier for an ETI data stream.  |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 7 TES Maintenance   |  |  |  |
| 002  | 1               | Y                                     | 1   | 20  |                   | Indicates whether this manager is the                                       |  |  |  |
| 893  | LastFragment    | Y                                     | 1   | 32  | unsigned int      | Indicates whether this message is the last fragment (part) of a sequence of |  |  |  |
|  |                 |                                       |     |     |                   | messages belonging to one dedicated   |  |  |  |
|  |                 |                                       |     |     |                   | transaction.  |  |  |  |
|  |                 |                                       |     |     |                   |   |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 1 Last Message  |  |  |  |
| 39070  | Pad7            | U                                     | 7   | 33  | Fixed String      | not used  |  |  |  |
|  | geBody>         |                                       | •   |     |                   |   |  |  |  |
|  | TransactTime    | Υ                                     | 8   | 40  | UTCTimestamp      | Transaction timestamp.  |  |  |  |
|  | Transact Fillic | _ '                                   | J   | 10  | o i c i iniestamp | Transaction timestamp.  |  |  |  |

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| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|-----------------|-------|-----|-----|--------------|---|
| 25191 | CompressionID   | N     | 8   | 48  | unsigned int | Compression ID                          |
| 1300  | MarketSegmentID | Υ     | 4   | 56  | signed int   | Product identifier.                     |
| 2489  | PackageID       | Υ     | 4   | 60  | unsigned int | Identifier for a T7 Entry Service trade |
|       |                 |       |     |     |              | i.e. TES trade ID.                      |
| 30017 | TESExecID       | Y     | 4   | 64  | unsigned int | System transaction identifier for a T7  |
|       |                 |       |     |     |              | Entry Service transaction.              |
| 828   | TrdType         | Y     | 2   | 68  | unsigned int | Type of TES trade.                      |
|       |                 |       |     |     |              | Value Description                       |
|       |                 |       |     |     |              | 1 Block Trade                           |
|       |                 |       |     |     |              | 12 Exchange for Swap                    |
|       |                 |       |     |     |              | 50 Compression                          |
|       |                 |       |     |     |              | 1000 Vola Trade                         |
|       |                 |       |     |     |              | 1001 EFP-Fin Trade                      |
|       |                 |       |     |     |              | 1002 EFP-Index Futures Trade            |
|       |                 |       |     |     |              | 1007 QTPIP BLOCK TRADE                  |
|       |                 |       |     |     |              | 1004 Trade at Market                    |
|       |                 |       |     |     |              |   |
| 285   | DeleteReason    | Y     | 1   | 70  | unsigned int | Reason for deletion.                    |
|       |                 |       |     |     |              | Value Description                       |
|       |                 |       |     |     |              | 100 Deletion via the TES Delete         |
|       |                 |       |     |     |              | Request                                 |
|       |                 |       |     |     |              | Automatic deletion due to               |
|       |                 |       |     |     |              | TES Activity State Change               |
|       |                 |       |     |     |              | Automatic deletion due to in-           |
|       |                 |       |     |     |              | strument expiration                     |
|       |                 |       |     |     |              | Deletion caused by Clear-ing/Risk stop  |
|       |                 |       |     |     |              | Deletion caused by Trading              |
|       |                 |       |     |     |              | 104 stop                                |
|       |                 |       |     |     |              | 105 Deletion of Instrument              |
|       |                 |       |     |     |              | 106 Suspension of Instrument            |
|       |                 |       |     |     |              | Deletion caused by a pre-               |
|       |                 |       |     |     |              | 107 trade risk event                    |
|       |                 |       |     |     |              | Compression cancelled by                |
|       |                 |       |     |     |              | 110   service provider                  |
|       |                 |       |     |     |              | Compression cancelled by                |
|       |                 |       |     |     |              | system                                  |
|       |                 |       |     |     |              |   |

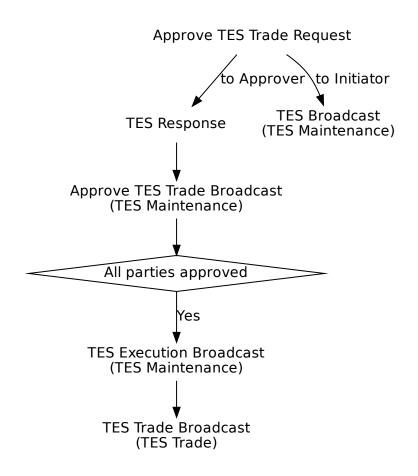
| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|--------------------|-------|-----|-----|--------------|--|
| 856   | TradeReportType    | Υ     | 1   | 71  | unsigned int | Identifies the type of trade notifica- |
|       |                    |       |     |     |              | tion.                                  |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 6 Trade Report Cancel                  |
|       |                    |       |     |     |              |  |
| 939   | TrdRptStatus       | N     | 1   | 72  | unsigned int | Overall status of the TES trade, for   |
|       |                    |       |     |     |              | Initiator only                         |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 2 Cancelled                            |
|       |                    |       |     |     |              |  |
| 1011  | MessageEventSource | Y     | 1   | 73  | char         | Receiver of a message.                 |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | I Broadcast to initiator               |
|       |                    |       |     |     |              | A Broadcast to approver                |
|       |                    |       |     |     |              |  |
| 571   | TradeReportID      | N     | 20  | 74  | Fixed String | User defined transaction ID. Part of   |
|       |                    |       |     |     |              | the TES response and TES broadcast.    |
|       |                    |       |     |     |              | Valid characters: \x01-\x7E            |
| 39020 | Pad2               | U     | 2   | 94  | Fixed String | not used                               |

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#### 13.7 Approve TES Trade Request

This message allows the approval of a pending TES trade side by its approving user. All TES trade side specific information (e.g. trading capacity, open/close indicator, text fields) needs to be specified in this request. A TES trade also needs to be approved by the initiating user if the initiating user is identical to an approving user, i.e. if the user who was initiating the TES trade is also involved on any side of the same TES trade. This message is sent to the service "T7 Entry".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                                 |  |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |   |  |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |  |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                         |  |  |  |  |  |
| 28500   | TemplateID                          | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |  |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10603 (Trade-           |  |  |  |  |  |
|   |                                     |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |  |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                                    |  |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                                    |  |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |   |  |  |  |  |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------|-------|-----|-----|--------------|---|
| 34    | MsgSeqNum          | Υ     | 4   | 16  | unsigned int | Message sequence number used by the   |
|       |                    |       |     |     |              | participant for requests sent to the  |
|       |                    |       |     |     |              | gateway.  |
|       | SenderSubID        | Y     | 4   | 20  | unsigned int | User ID.  |
|       | geBody>            |       |     |     |              |   |
| 20003 | PartyIDClientID    | N     | 8   | 24  | unsigned int | MiFID field: Client Identifier field  |
|       |                    |       |     |     |              | (ESMA Field 3 (Section A))used to   |
|       |                    |       |     |     |              | identify the client of an order for agent account of the member or partici- |
|       |                    |       |     |     |              | pant of the trading venue. If the   |
|       |                    |       |     |     |              | Client Identifier field is not provided                                     |
|       |                    |       |     |     |              | for agent orders, then they will be re-                                     |
|       |                    |       |     |     |              | jected. For orders sent with Trading  |
|       |                    |       |     |     |              | Capacity Proprietary or Market Mak-   |
|       |                    |       |     |     |              | ing, the Client Identifier field may re-                                    |
|       |                    |       |     |     |              | main empty.   |
| 20122 | PartyldInvestment- | N     | 8   | 32  | unsigned int | MiFID field: Investment decision  |
|       | DecisionMaker      |       |     |     | -            | within firm (ESMA Field 4 (Section  |
|       |                    |       |     |     |              | A)) is the code used to identify the  |
|       |                    |       |     |     |              | person or the algorithm within the  |
|       |                    |       |     |     |              | member or participant of the Trading  |
|       |                    |       |     |     |              | Venue who is responsible for the in-  |
| 25122 |                    |       |     |     |              | vestment decision.  |
| 25123 | ExecutingTrader    | N     | 8   | 40  | unsigned int | MiFID field: Executing Trader data  |
|       |                    |       |     |     |              | Field(ESMA Field 5 (Section A))used to identify the person or algorithm     |
|       |                    |       |     |     |              | within the member or participant of   |
|       |                    |       |     |     |              | the trading venue who is responsible  |
|       |                    |       |     |     |              | for the execution of the transaction re-                                    |
|       |                    |       |     |     |              | sulting from the order.   |
| 80    | AllocQty           | Υ     | 8   | 48  | Qty          | Quantity of the particular trade side                                       |
|       |                    |       |     |     |              | in the TES trade.   |
| 25191 | CompressionID      | N     | 8   | 56  | unsigned int | Compression ID  |
| 2489  | PackageID          | Y     | 4   | 64  | unsigned int | Identifier for a T7 Entry Service trade                                     |
|       |                    |       |     |     |              | i.e. TES trade ID.  |
|       | AllocID            | Y     | 4   | 68  | unsigned int | Unique identifier for a TES Trade side.                                     |
| 30017 | TESExecID          | Y     | 4   | 72  | unsigned int | System transaction identifier for a T7                                      |
|       |                    |       |     |     |              | Entry Service transaction. The latest                                       |
|       |                    |       |     |     |              | value available to the Approver for the corresponding TES Trade side needs  |
|       |                    |       |     |     |              | to be provided.   |
| 1300  | MarketSegmentID    | Y     | 4   | 76  | signed int   | Product identifier.   |
| 1300  | I Marker Segmentin | '     |     | 10  | signed int   | 1 Todact Identifier.  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|--------------------|-------|-----|-----|--------------|--|
| 2546  | RelatedMarket-     | N     | 4   | 80  | signed int   | Identifies a related product.          |
| 2540  | SegmentID          | 14    | _   |     | Signed int   | To be set for TrdType (1000) Vola      |
|       |                    |       |     |     |              | Trade [mandatory].                     |
| 828   | TrdType            | Y     | 2   | 84  | unsigned int | Type of TES trade.                     |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 1 Block Trade                          |
|       |                    |       |     |     |              | 12 Exchange for Swap                   |
|       |                    |       |     |     |              | 50 Compression                         |
|       |                    |       |     |     |              | 1000 Vola Trade                        |
|       |                    |       |     |     |              | 1001 EFP-Fin Trade                     |
|       |                    |       |     |     |              | 1002 EFP-Index Futures Trade           |
|       |                    |       |     |     |              | 1007 QTPIP BLOCK TRADE                 |
|       |                    |       |     |     |              | 1004 Trade at Market                   |
|       |                    |       |     |     |              |  |
| 1815  | TradingCapacity    | Y     | 1   | 86  | unsigned int | This field designates if the trader is |
|       |                    |       |     |     |              | acting in the capacity of agent, trad- |
|       |                    |       |     |     |              | ing for its own account or acting as a |
|       |                    |       |     |     |              | market maker.                          |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 1 Customer (Agency)                    |
|       |                    |       |     |     |              | 5 Principal (Proprietary)              |
|       |                    |       |     |     |              | 6 Market Maker                         |
| 856   | TradeReportType    | Y     | 1   | 87  | unsigned int | Identifies the type of trade notifica- |
|       | Паденеронттуре     | '     | -   |     | unsigned int | tion.                                  |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 2 Accept                               |
|       |                    |       |     |     |              | Z / Necept                             |
| 54    | Side               | Y     | 1   | 88  | unsigned int | Side of the TES trade.                 |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 1 Buy                                  |
|       |                    |       |     |     |              | 2 Sell                                 |
|       |                    |       |     |     |              |  |
| 23002 | OrderAttribute-    | Y     | 1   | 89  | unsigned int | MiFID field: Indication as to whether  |
|       | LiquidityProvision |       |     |     | -            | an order is submitted to a Trading     |
|       |                    |       |     |     |              | Venue as part of a market making       |
|       |                    |       |     |     |              | strategy.                              |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 1 Liquidity provision                  |
|       |                    |       |     |     |              | 0 No liquidity provision               |
|       |                    |       |     |     |              |  |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------|-------|-----|-----|--------------|---|
| 21222 | PartyldInvestment-            | N     | 1   | 90  | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person                                |
| 25124 | ExecutingTrader-<br>Qualifier | Y     | 1   | 91  | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 23003 | OrderAttributeRisk-Reduction  | N     | 1   | 92  | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description   1   Risk reduction   0   No risk reduction |
| 1724  | OrderOrigination              | N     | 1   | 93  | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer  |
| 571   | TradeReportID                 | N     | 20  | 94  | Fixed String | User defined transaction ID. Part of the TES response and TES broadcast. Valid characters: \x01-\x7E  |

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| Tag   | Field Name           | Req'd    | Len | Ofs | Data Type    | Description  |
|-------|----------------------|----------|-----|-----|--------------|--|
| 77    |                      | Υ        | 1   | 114 | char         | Field is used for T7 position manage-                                |
|       |                      |          |     |     |              | ment purposes and indicates whether                                  |
|       |                      |          |     |     |              | the order is submitted to open or close                              |
|       |                      |          |     |     |              | a position.  |
|       |                      |          |     |     |              | Value Description  |
|       |                      |          |     |     |              | C Close  |
|       |                      |          |     |     |              | O Open   |
|       |                      |          |     |     |              | Орен   |
| 22001 | PartyExecutingFirm   | Υ        | 5   | 115 | Fixed String | Approving business unit  |
|       |                      |          |     |     |              | Valid characters: A-Z, 0-9, \x20                                     |
| 22012 | PartyExecutingTrader | Υ        | 6   | 120 | Fixed String | Approving user name  |
|       |                      |          |     |     |              | Valid characters: A-Z, 0-9, \x20                                     |
| 1     | Account              | N        | 2   | 126 | Fixed String | Accounts to book trades and keep po-                                 |
|       |                      |          |     |     |              | sitions on.  |
|       |                      |          |     |     |              | Valid characters: 1-9, \x41, \x47,                                   |
|       |                      |          |     |     |              | \x49, \x4D, \x50, \x52   |
| 25007 | FreeText1            | N        | 12  | 128 | Fixed String | First free-format text field for trader                              |
|       |                      |          |     |     |              | specific or customer-related com-                                    |
|       |                      |          |     |     |              | ments  |
|       |                      |          |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ ,                             |
|       |                      |          |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
|       |                      |          |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25008 | FreeText2            | N        | 12  | 140 | Fixed String | Second free-format text field for                                    |
|       |                      |          |     |     |              | trader specific or customer-related                                  |
|       |                      |          |     |     |              | comments   |
|       |                      |          |     |     |              | Valid characters: \x20, \x23-\x25,                                   |
|       |                      |          |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
| 25000 |                      | <b>.</b> | -10 | 150 | F. 1.C.      | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25009 | FreeText3            | N        | 12  | 152 | Fixed String | Third free-format text field for trader-                             |
|       |                      |          |     |     |              | specific or customer-related com-                                    |
|       |                      |          |     |     |              | ments.   |
|       |                      |          |     |     |              | Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41- |
|       |                      |          |     |     |              |  |
|       | PartyIDTakeUp-       |          |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E  |
| 20096 | TradingFirm          | N        | 5   | 164 | Fixed String | Take-up Member Short Name.   |
|       | -                    |          |     |     |              | Valid characters: A-Z, 0-9, \x20                                     |
| 20038 | PartyIDPosition-     | N        | 32  | 169 | Fixed String | 'Flexible Account' information.                                      |
|       | Account              |          |     |     |              | Valid characters: \x20, \x30-\x39,                                   |
|       |                      |          |     |     |              | \x41-\x5A  |
| 00010 | PartyIDOrder-        |          |     | 001 | F: 1.C. :    |  |
| 20013 | OriginationFirm      | N        | 7   | 201 | Fixed String | External Member ID.  |
|       | _                    |          |     |     |              | Valid characters: A-Z, 0-9, \x20                                     |

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| Tag   | Field Name                        | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------------|-------|-----|-----|--------------|--|
| 20032 | PartyIDBeneficiary                | N     | 9   | 208 | Fixed String | Final Beneficiary  |
|       |                                   |       |     |     |              | Valid characters: A-Z, 0-9, \x20   |
| 20075 | PartyIDLocationID                 | N     | 2   | 217 | Fixed String | Country code. Will be set to "XX" for  |
|       |                                   |       |     |     |              | non-capital letters.   |
|       |                                   |       |     |     |              | Valid characters: \x01-\x7E  |
| 1031  | CustOrderHandling-Inst            | N     | 1   | 219 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
|       |                                   |       |     |     |              |  |
| 2404  | ComplianceText                    | N     | 20  | 220 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 25241 | PartyEndClient-<br>Identification | N     | 5   | 240 | Fixed String | End client identifier.  Valid characters: A-Z, 0-9, \x20, \x5F   |
| 39030 | Pad3                              | U     | 3   | 245 | Fixed String | not used   |

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# 13.8 Approve TES Trade Broadcast

This message informs about approved TES Trades.

| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description  |
|--|----------------|-------|-----|-----|--------------|--|
| < Messa  | geHeaderOut>   |       |     |     |              |  |
| 9  | BodyLen        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field. |
| 28500  | TemplateID     | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                    |
|  |                |       |     |     |              | sage layout. Value: 10607 (Trade-                      |
|  |                |       |     |     |              | CaptureReport, $MsgType = AE$ )                        |
| 39020  |                | U     | 2   | 6   | Fixed String | not used   |
| <rbch< td=""><td>T</td><td></td><td></td><td></td><td></td><td></td></rbch<> | T              |       |     |     |              |  |
| 52   | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by                   |
|  |                |       |     |     |              | the gateway  |
| 1181   | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-                        |
|  |                |       |     |     |              | signed to a non-order related T7 ETI                   |
|  |                |       |     |     |              | data stream.   |
| 28727  | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system                    |
|  |                |       |     |     |              | during broadcast subscription in order                 |
|  |                |       |     |     |              | to link broadcasts to the related sub-                 |
|  |                | .,    | _   |     |              | scription.   |
| 5948   | PartitionID    | Y     | 2   | 28  | unsigned int | Grouping of T7 products.                               |
|  |                |       |     |     |              | Belongs to the scope of Service Avail-                 |
| 1000   |                | .,    | _   |     |              | ability and Retransmit requests.                       |
| 1352   | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.                    |
|  |                |       |     |     |              | Value Description                                      |
|  |                |       |     |     |              | 0 False  |
|  |                |       |     |     |              | 1 True   |
| 1180   | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.                     |
|  |                |       |     |     |              | Value Description                                      |
|  |                |       |     |     |              | 7 TES Maintenance                                      |
|  |                |       |     |     |              |  |
| 893  | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the                  |
|  |                |       |     |     |              | last fragment (part) of a sequence of                  |
|  |                |       |     |     |              | messages belonging to one dedicated                    |
|  |                |       |     |     |              | transaction.   |
|  |                |       |     |     |              | Value Description                                      |
|  |                |       |     |     |              | 1 Last Message   |
|  |                |       |     |     |              |  |
| 39070  |                | U     | 7   | 33  | Fixed String | not used   |
|  | geBody>        |       |     |     |              |  |
| 48   | SecurityID     | Y     | 8   | 40  | signed int   | Instrument identifier.                                 |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type     | Description   |
|-------|-------------------------------|-------|-----|-----|---------------|---|
| 31    | LastPx                        | Υ     | 8   | 48  | PriceType     | Price of TES trade.   |
| 80    | AllocQty                      | Y     | 8   | 56  | Qty           | Quantity of the particular trade side in the TES trade.   |
| 60    | TransactTime                  | Υ     | 8   | 64  | UTCTimestamp  | Transaction timestamp.  |
| 810   | UnderlyingPx                  | N     | 8   | 72  | PriceType     | Underlying price associated with a derivative instrument.   |
| 483   | TransBkdTime                  | N     | 8   | 80  | UTCTimestamp  | Time of Commencement, the time when an Off-Book trade was concluded outside the T7 System. There is a market specific validation of Time of Commencement by the T7 backend. |
| 2589  | RelatedClosePrice             | N     | 8   | 88  | floatDecimal6 | User defined index price.  To be set for TrdType (1004) Trade at Market [mandatory].  |
| 1860  | RelatedTradeQuantity          | N     | 8   | 96  | Qty           | Quantity of the related trade.  To be set for TrdType (1000) Vola  Trade [mandatory].   |
| 879   | UnderlyingQty                 | N     | 8   | 104 | Qty           | Nominal value of an underlying (for an EFS or EFP Index Trade in units of thousand).  |
| 25191 | CompressionID                 | N     | 8   | 112 | unsigned int  | Compression ID  |
| 1300  | MarketSegmentID               | Υ     | 4   | 120 | signed int    | Product identifier.   |
| 2489  | PackageID                     | Y     | 4   | 124 | unsigned int  | Identifier for a T7 Entry Service trade i.e. TES trade ID.  |
| 30017 | TESExecID                     | Y     | 4   | 128 | unsigned int  | System transaction identifier for a T7 Entry Service transaction.   |
| 70    | AllocID                       | Υ     | 4   | 132 | unsigned int  | Unique identifier for a TES Trade side.   |
| 987   | UnderlyingSettlement-<br>Date | N     | 4   | 136 | LocalMktDate  | Date the underlying instrument will settle.  To be set for TrdType (1) Echange for Swap [optional] and (1001) EFP-Fin Trade [optional].                                     |
| 542   | UnderlyingMaturity-<br>Date   | N     | 4   | 140 | LocalMktDate  | Underlying security's maturity date. To be set for TrdType (1001) EFP-Fin Trade [mandatory].  |
| 1856  | RelatedTradeID                | N     | 4   | 144 | unsigned int  | Identifier of a related trade.  To be set for TrdType (1000) Vola  Trade [mandatory].   |

| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 2546  | RelatedMarket-<br>SegmentID | N     | 4   | 148 | signed int   | Identifies a related product.  To be set for TrdType (1000) Vola  Trade [mandatory]. |
| 28758 | NegotiationID               | N     | 4   | 152 | unsigned int | ID of a SRQS negotiation   |
| 25180 | TESEnrichmentRule-ID        | N     | 4   | 156 | unsigned int | Enrichment Rule ID for TES trades (to be used only in case of Auto Approval)         |
| 25181 | AutoApprovalRuleID          | N     | 4   | 160 | unsigned int | Auto Approval Rule ID applied for TES trade approval                                 |
| 828   | TrdType                     | Y     | 2   | 164 | unsigned int | Type of TES trade.   |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 1 Block Trade  |
|       |                             |       |     |     |              | 12 Exchange for Swap   |
|       |                             |       |     |     |              | 50 Compression   |
|       |                             |       |     |     |              | 1000 Vola Trade  |
|       |                             |       |     |     |              | 1001 EFP-Fin Trade   |
|       |                             |       |     |     |              | 1002 EFP-Index Futures Trade   |
|       |                             |       |     |     |              | 1007 QTPIP BLOCK TRADE   |
|       |                             |       |     |     |              | 1004 Trade at Market   |
| 30354 | VarTextLen                  | N     | 2   | 166 | Counter      | Number of used bytes for field VarText (30355).                                      |
| 54    | Side                        | Y     | 1   | 168 | unsigned int | Side of the TES trade.   |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 1 Buy  |
|       |                             |       |     |     |              | 2 Sell   |
| 1390  | TradePublishIndicator       | Y     | 1   | 169 | unsigned int | Indicates if a trade should be reported  |
|       |                             |       |     |     | -            | via the market reporting service.  |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 0 Do Not Publish Trade   |
|       |                             |       |     |     |              | 1 Publish Trade  |
|       |                             |       |     |     |              |  |

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| Tag  | Field Name         | Req'd | Len | Ofs | Data Type    | Description                             |
|------|--------------------|-------|-----|-----|--------------|---|
| 1227 | ProductComplex     | N     | 1   | 170 | unsigned int | This field qualifies an instrument type |
|      |                    |       |     |     |              | on T7.                                  |
|      |                    |       |     |     |              | Value Description                       |
|      |                    |       |     |     |              | 1 Simple instrument                     |
|      |                    |       |     |     |              | 2 Standard Option Strategy              |
|      |                    |       |     |     |              | Non-Standard Option Strat-              |
|      |                    |       |     |     |              | egy                                     |
|      |                    |       |     |     |              | 4 Volatility Strategy                   |
|      |                    |       |     |     |              | 5 Futures Spread                        |
|      |                    |       |     |     |              | 6 Inter-Product Spread                  |
|      |                    |       |     |     |              | 7 Standard Future Strategy              |
|      |                    |       |     |     |              | 8 Pack and Bundle                       |
|      |                    |       |     |     |              | 9 Strip                                 |
|      |                    |       |     |     |              | 10 Flexible Simple Instrument           |
|      |                    |       |     |     |              | 11 Commodity Strip                      |
| 856  | TradeReportType    | Y     | 1   | 171 | unsigned int | Identifies the type of trade notifica-  |
|      | Trader report Type |       | _   |     | a            | tion.                                   |
|      |                    |       |     |     |              | Value Description                       |
|      |                    |       |     |     |              | 2 Accept                                |
|      |                    |       |     |     |              |   |
| 939  | TrdRptStatus       | N     | 1   | 172 | unsigned int | Overall status of the TES trade, for    |
|      |                    |       |     |     |              | Initiator only                          |
|      |                    |       |     |     |              | Value Description                       |
|      |                    |       |     |     |              | 4 Pending new                           |
|      |                    |       |     |     |              |   |
| 1815 | TradingCapacity    | Y     | 1   | 173 | unsigned int | This field designates if the trader is  |
|      |                    |       |     |     |              | acting in the capacity of agent, trad-  |
|      |                    |       |     |     |              | ing for its own account or acting as a  |
|      |                    |       |     |     |              | market maker.                           |
|      |                    |       |     |     |              | Value Description                       |
|      |                    |       |     |     |              | 1 Customer (Agency)                     |
|      |                    |       |     |     |              | 5 Principal (Proprietary)               |
|      |                    |       |     |     |              | 6 Market Maker                          |
|      |                    |       |     |     |              |   |

| 1840 TradeAllocStatus  Y 1 175 unsigned int Status of an allocation in a T7 Ent Service trade.  Value Description 1 Pending 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFFin Trade [mandatory] and (1000)   | Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description                           |
|---|-------|------------------|-------|-----|-----|--------------|---------------------------------------|
| Value   Description   | 20010 | 1                | N     | 1   | 174 | unsigned int | ID of settlement location.            |
| 1840 TradeAllocStatus  Y 1 175 unsigned int Status of an allocation in a T7 Ent Service trade.  Value Description 1 Pending 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFFin Trade [mandatory] and (1000)   |       | Location         |       |     |     |              | Value Description                     |
| 1840 TradeAllocStatus  Y  1 175 unsigned int  Status of an allocation in a T7 Ent Service trade.  Value Description  1 Pending  2 Approved  3 Auto Approved  4 Uploaded  5 Canceled  6 Pending Execution  7 Pending Reversal  8 Side Approved Reversal  9 Reversed  10 Cancelled Reversal  29008 HedgeType  N  1 176 unsigned int Hedging method.  To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFF in Trade [mandatory]and (100)  |       |                  |       |     |     |              |                                       |
| 3 CLS Group 4 Euroclear  1840 TradeAllocStatus  Y 1 175 unsigned int Service trade.  Value Description 1 Pending 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              |                                       |
| 1840 TradeAllocStatus  Y 1 175 unsigned int Service trade.  Value Description 1 Pending 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EF Fin Trade [mandatory] and (100)   |       |                  |       |     |     |              |                                       |
| Service trade.    Value   Description     1   Pending     2   Approved     3   Auto Approved     4   Uploaded     5   Canceled     6   Pending Execution     7   Pending Reversal     8   Side Approved Reversal     9   Reversed     10   Cancelled Reversal     10   Cancelled Reversal |       |                  |       |     |     |              | · ·                                   |
| Service trade.    Value   Description     1   Pending     2   Approved     3   Auto Approved     4   Uploaded     5   Canceled     6   Pending Execution     7   Pending Reversal     8   Side Approved Reversal     9   Reversed     10   Cancelled Reversal     10   Cancelled Reversal |       |                  |       |     |     |              |                                       |
| Value Description  1 Pending  2 Approved  3 Auto Approved  4 Uploaded  5 Canceled  6 Pending Execution  7 Pending Reversal  8 Side Approved Reversal  9 Reversed  10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method.  To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFI Fin Trade [mandatory] and (100)   | 1840  | TradeAllocStatus | Y     | 1   | 175 | unsigned int | Status of an allocation in a T7 Entry |
| 1 Pending 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFI Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | Service trade.                        |
| 2 Approved 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)   |       |                  |       |     |     |              | Value Description                     |
| 3 Auto Approved 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchanger for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | 1 Pending                             |
| 4 Uploaded 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)   |       |                  |       |     |     |              | 2 Approved                            |
| 5 Canceled 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | 3 Auto Approved                       |
| 6 Pending Execution 7 Pending Reversal 8 Side Approved Reversal 9 Reversed 10 Cancelled Reversal  29008 HedgeType N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)   |       |                  |       |     |     |              | 4 Uploaded                            |
| 7 Pending Reversal  8 Side Approved Reversal  9 Reversed  10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFI Fin Trade [mandatory] and (100)   |       |                  |       |     |     |              | 5 Canceled                            |
| 8 Side Approved Reversal  9 Reversed  10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFI  Fin Trade [mandatory] and (100   |       |                  |       |     |     |              | 6 Pending Execution                   |
| 9 Reversed 10 Cancelled Reversal  29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | 7 Pending Reversal                    |
| 29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | 8 Side Approved Reversal              |
| 29008 HedgeType  N 1 176 unsigned int Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFF Fin Trade [mandatory] and (100)  |       |                  |       |     |     |              | 9 Reversed                            |
| To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFI Fin Trade [mandatory] and (100   |       |                  |       |     |     |              | 10 Cancelled Reversal                 |
| To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFI Fin Trade [mandatory] and (100   | 29008 | HedgeType        | N     | 1   | 176 | unsigned int | Hedging method.                       |
| for Swap [mandatory], (1001) EFI Fin Trade [mandatory]and (100  |       | 11118117         |       |     |     | O            | To be set for TrdType (12) Exchange   |
|   |       |                  |       |     |     |              | for Swap [mandatory], (1001) EFP-     |
| EFI-Index Futures Trade [mandatory  |       |                  |       |     |     |              | Fin Trade [mandatory]and (1002)       |
|   |       |                  |       |     |     |              | EFI-Index Futures Trade [mandatory].  |
| Value Description   |       |                  |       |     |     |              | Value Description                     |
| 0 Duration Hedge  |       |                  |       |     |     |              | 0 Duration Hedge                      |
| 1 Nominal Hedge   |       |                  |       |     |     |              | 1 Nominal Hedge                       |
| 2 Price Factor Hedge  |       |                  |       |     |     |              | 2 Price Factor Hedge                  |
| 555 NoLegs Y 1 177 Counter Number of repeating TrdInstrmntLe  | 555   | Nol egs          | Y     | 1   | 177 | Counter      | Number of repeating TrdInstrmntLeg-   |
|   |       | 1402083          | '     | 1   | * ' | Counter      | Grp entries (number of legs for user  |
| provided leg trade prices).   |       |                  |       |     |     |              | , ,                                   |
|   | 864   | NoEvents         | Y     | 1   | 178 | Counter      | Number of repeating EventType en-     |
| tries.  |       |                  |       |     |     |              |                                       |
|   | 870   | NoInstrAttrib    | Y     | 1   | 179 | Counter      | Number of repeating InstrAttribType   |
| entries.  |       |                  |       |     |     |              |                                       |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description   |
|-------|----------------------|-------|-----|-----|--------------|---|
| 887   | NoUnderlyingStips    | Y     | 1   | 180 | Counter      | Number of underlying stipulation entries.   |
| 1011  | MessageEventSource   | Υ     | 1   | 181 | char         | Receiver of a message.  |
|       |                      |       |     |     |              | Value Description   |
|       |                      |       |     |     |              | I Broadcast to initiator  |
|       |                      |       |     |     |              | A Broadcast to approver   |
|       |                      |       |     |     |              |   |
| 571   | TradeReportID        | N     | 20  | 182 | Fixed String | User defined transaction ID. Part of  |
|       |                      |       |     |     |              | the TES response and TES broadcast.  Valid characters: \x01-\x7E                    |
| 22001 | PartyExecutingFirm   | Υ     | 5   | 202 | Fixed String | Owning business unit name.  |
|       | , ,                  |       |     |     | <b>G</b>     | Valid characters: A-Z, 0-9, \x20  |
| 22012 | PartyExecutingTrader | Υ     | 6   | 207 | Fixed String | Owning user name.   |
|       |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 20007 | PartyIDEnteringFirm  | Y     | 1   | 213 | unsigned int | Entering Entity ID.   |
|       |                      |       |     |     |              | Value Description   |
|       |                      |       |     |     |              | 1 Participant   |
|       |                      |       |     |     |              | 2 Market Supervision  |
| 22036 | PartyEnteringTrader  | Y     | 6   | 214 | Fixed String | The entering user   |
|       |                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 77    | PositionEffect       | Υ     | 1   | 220 | char         | Field is used for T7 position manage-   |
|       |                      |       |     |     |              | ment purposes and indicates whether   |
|       |                      |       |     |     |              | the order is submitted to open or close a position.                                 |
|       |                      |       |     |     |              |   |
|       |                      |       |     |     |              | Value Description C Close   |
|       |                      |       |     |     |              | C Close O Open  |
|       |                      |       |     |     |              | Ореп  |
| 22401 | RootPartyExecuting-  | N     | 5   | 221 | Fixed String | Participant Short Name.   |
|       | Firm                 |       |     |     | 3            | Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7B$ , |
|       |                      |       |     |     |              | \x7D, \x7E  |
| 22412 | RootPartyExecuting-  | N     | 6   | 226 | Fixed String | Owning User Short Name.   |
|       | Trader               |       |     |     | _            | Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7B$ , |
|       |                      |       |     |     |              | \x7D, \x7E  |
| 25007 | FreeText1            | N     | 12  | 232 | Fixed String | First free-format text field for trader   |
|       |                      |       |     |     |              | specific or customer-related com-   |
|       |                      |       |     |     |              | ments Valid characters: \x20, \x23-\x25,  |
|       |                      |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                      |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type     | Description  |
|-------|---------------------|-------|-----|-----|---------------|--|
| 25008 | FreeText2           | N     | 12  | 244 | Fixed String  | Second free-format text field for                  |
|       |                     |       |     |     |               | trader specific or customer-related                |
|       |                     |       |     |     |               | comments   |
|       |                     |       |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ ,           |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                  |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                        |
| 25009 | FreeText3           | N     | 12  | 256 | Fixed String  | Third free-format text field for trader-           |
|       |                     |       |     |     |               | specific or customer-related com-                  |
|       |                     |       |     |     |               | ments.   |
|       |                     |       |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ ,           |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                  |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                        |
| 20096 | PartyIDTakeUp-      | N     | 5   | 268 | Fixed String  | Take-up Member Short Name.                         |
|       | TradingFirm         |       |     |     |               | Valid characters: A-Z, 0-9, \x20                   |
| 1     | Account             | N     | 2   | 273 | Fixed String  | Accounts to book trades and keep po-               |
|       |                     |       |     |     |               | sitions on.  |
|       |                     |       |     |     |               | Valid characters: 1-9, \x41, \x47,                 |
|       |                     |       |     |     |               | \x49, \x4D, \x50, \x52                             |
| 20038 | PartyIDPosition-    | N     | 32  | 275 | Fixed String  | 'Flexible Account' information.                    |
|       | Account             |       |     |     | 8             | Valid characters: \x20, \x30-\x39,                 |
|       |                     |       |     |     |               | \x41-\x5A  |
| 20012 | PartyIDOrder-       | N     | 7   | 207 | F:            | Futawal Marahan ID                                 |
| 20013 | OriginationFirm     | N     | 7   | 307 | Fixed String  | External Member ID.                                |
| 20022 | Douby IDP an afiaia | N     | 9   | 314 | Eivad String  | Valid characters: A-Z, 0-9, \x20 Final Beneficiary |
| 20032 | PartyIDBeneficiary  | IN    | 9   | 314 | Fixed String  | Valid characters: A-Z, 0-9, \x20                   |
| 20075 | PartyIDLocationID   | N     | 2   | 323 | Fixed String  | Country code. Will be set to "XX" for              |
| 20015 | r artyroLocationio  | IN    | ۷   | J2J | I IVER OTHING | non-capital letters.                               |
|       |                     |       |     |     |               | Valid characters: \x01-\x7E                        |
|       |                     |       |     |     |               | valid Cilaracters. \XUI-\XIE                       |

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| Tag  | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|------|-----------------------------|-------|-----|-----|--------------|--|
| 1031 | CustOrderHandling-Inst      | N     | 1   | 325 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 2404 | ComplianceText              | N     | 20  | 326 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 309  | UnderlyingSecurityID        | N     | 12  | 346 | ISIN         | Underlying security's ID (ISIN). To be set for TrdType (1001) EFP-Fin Trade [mandatory]. Valid characters: A-Z, 0-9, \x20  |
| 307  | UnderlyingSecurity-<br>Desc | N     | 30  | 358 | Fixed String | Description of the Underlying security. To be set for TrdType (1001) EFP-Fin Trade [optional]. Valid characters: \x01-\x7E   |
| 318  | UnderlyingCurrency          | N     | 3   | 388 | CurrencyType | Underlying security's currency.  To be set for TrdType (12) Exchange for Swap [optional] and (1001) EFP-Fin Trade [optional].  Valid characters: A-Z, 0-9, \x20  |

| Tag   | Field Name  | Req'd     | Len    | Ofs     | Data Type        | Description                            |  |  |
|---|---|-----------|--------|---------|------------------|--|--|--|
| 306   | Underlyinglssuer  | N         | 30     | 391     | Fixed String     | The issuer or name of the underlying   |  |  |
|   |   |           |        |         |                  | security.                              |  |  |
|   |   |           |        |         |                  | To be set for TrdType (1001) EFP-Fin   |  |  |
|   |   |           |        |         |                  | Trade [optional].                      |  |  |
|   |   |           |        |         |                  | Valid characters: \x01-\x7E            |  |  |
| 39030   | Pad3  | U         | 3      | 421     | Fixed String     | not used                               |  |  |
| <trdii< td=""><td>nstrmntLegGrp&gt; Cardin</td><td>ality: 0-</td><td>-20, R</td><td>ecord</td><td>counter: NoLegs</td><td></td></trdii<>      | nstrmntLegGrp> Cardin   | ality: 0- | -20, R | ecord   | counter: NoLegs  |  |  |  |
| 602   | >LegSecurityID  | Y         | 8      | 424     | signed int       | Instrument identifier of the leg secu- |  |  |
|   |   |           |        |         |                  | rity.                                  |  |  |
| 566   | >LegPrice   | Y         | 8      | 432     | PriceType        | User provided leg trade price (not for |  |  |
|   |   |           |        |         |                  | underlying leg).                       |  |  |
| 687   | >LegQty   | U         | 8      | 440     | Qty              | not used                               |  |  |
| <instr< td=""><td>umentEventGrp&gt; Cardii</td><td>nality: 0</td><td>- 2, R</td><td>ecord (</td><td>counter: NoEvent</td><td>s</td></instr<>  | umentEventGrp> Cardii   | nality: 0 | - 2, R | ecord ( | counter: NoEvent | s                                      |  |  |
| 866   | >EventDate  | Y         | 4      | 0       | Local Mkt Date   | Date of event.                         |  |  |
|   |   |           |        |         |                  | To be set for TrdType (12) Exchange    |  |  |
|   |   |           |        |         |                  | for Swap [mandatory].                  |  |  |
| 865   | >EventType  | Y         | 1      | 4       | unsigned int     | Identifier for an Instrument Event     |  |  |
|   |   |           |        |         |                  | Value Description                      |  |  |
|   |   |           |        |         |                  | 8 Swap Start Date                      |  |  |
|   |   |           |        |         |                  | 9 Swap End Date                        |  |  |
|   |   |           |        |         |                  |  |  |  |
| 39030   | >Pad3   | U         | 3      | 5       | Fixed String     | not used                               |  |  |
| <instr< td=""><td colspan="8"><instrumentattributegrp> Cardinality: 0-6, Record counter: NoInstrAttrib</instrumentattributegrp></td></instr<> | <instrumentattributegrp> Cardinality: 0-6, Record counter: NoInstrAttrib</instrumentattributegrp> |           |        |         |                  |  |  |  |

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| Tag  | Field Name              | Req'd    | Len    | Ofs    | Data Type        | Description                            |
|--|-------------------------|----------|--------|--------|------------------|--|
| 871  | >InstrAttribType        | Υ        | 1      | 0      | unsigned int     | Code to represent the type of instru-  |
|  |                         |          |        |        |                  | ment attribute.                        |
|  |                         |          |        |        |                  | To be set for TrdType (12) Ex-         |
|  |                         |          |        |        |                  | change for Swap[Swap, Cus-             |
|  |                         |          |        |        |                  | tomer_1, Swap_Customer_2               |
|  |                         |          |        |        |                  | Variable_Rate, Offset_to-              |
|  |                         |          |        |        |                  | the_variable_coupon_rate: op-          |
|  |                         |          |        |        |                  | tional], (1001) EFP-Fin Trade          |
|  |                         |          |        |        |                  | [Coupon_Rate: optional]and             |
|  |                         |          |        |        |                  | (1002) EFP-Index Futures               |
|  |                         |          |        |        |                  | Trade[Cash_Basket_Reference:           |
|  |                         |          |        |        |                  | mandatory].                            |
|  |                         |          |        |        |                  | Value Description                      |
|  |                         |          |        |        |                  | 5 Variable rate                        |
|  |                         |          |        |        |                  | 100 Coupon rate                        |
|  |                         |          |        |        |                  | Offset to the variable coupon          |
|  |                         |          |        |        |                  | rate                                   |
|  |                         |          |        |        |                  | 102 Swap Customer 1                    |
|  |                         |          |        |        |                  | 103 Swap Customer 2                    |
|  |                         |          |        |        |                  | 104 Cash Basket Reference              |
| 872  | >InstrAttribValue       | Y        | 32     | 1      | Fixed String     | Attribute value appropriate to the     |
|  |                         |          |        |        | _                | InstrAttribType field.                 |
|  |                         |          |        |        |                  | To be set for TrdTyp (12) Exchange     |
|  |                         |          |        |        |                  | for Swap [optional], (1001) EFP-Fin    |
|  |                         |          |        |        |                  | Trade [optional] and (1002) EFP-       |
|  |                         |          |        |        |                  | Index Futures Trade [mandatory].       |
|  |                         |          |        |        |                  | Valid characters: \x01-\x7E            |
| 39070  | >Pad7                   | U        | 7      | 33     | Fixed String     | not used                               |
| <unde< td=""><td>erlyingStipGrp&gt; Cardina</td><td>lity: 0-</td><td>1, Rec</td><td>ord co</td><td>unter: NoUnderly</td><td>vingStips</td></unde<> | erlyingStipGrp> Cardina | lity: 0- | 1, Rec | ord co | unter: NoUnderly | vingStips                              |
| 889  | >UnderlyingStipValue    | Y        | 32     | 0      | Fixed String     | Value of stipulation. In case of cupon |
|  |                         |          |        |        |                  | frequency , fill the field with cupon  |
|  |                         |          |        |        |                  | frequency value.                       |
|  |                         |          |        |        |                  | To be set for TrdType (12) Exchange    |
|  |                         |          |        |        |                  | for Swap [optional] and (1001) EFP-    |
|  |                         |          |        |        |                  | Fin Trade [optional].                  |
|  |                         |          |        |        |                  | Valid characters: \x01-\x7E            |

| Tag   | Field Name          | Req'd | Len  | Ofs | Data Type       | Description                           |
|-------|---------------------|-------|------|-----|-----------------|---------------------------------------|
| 888   | >UnderlyingStipType | Υ     | 7    | 32  | Fixed String    | Type of stipulation. e.g. to denote   |
|       |                     |       |      |     |                 | coupon frequency.                     |
|       |                     |       |      |     |                 | Pay_Frequency to be set for TrdType   |
|       |                     |       |      |     |                 | (12) Exchange for Swap [optional] and |
|       |                     |       |      |     |                 | (1001) EFP-Fin Trade [optional].      |
|       |                     |       |      |     |                 | Value Description                     |
|       |                     |       |      |     |                 | PAYFREQ Pay_Frequency                 |
|       |                     |       |      |     |                 |                                       |
| 39000 | >Pad1               | U     | 1    | 39  | Fixed String    | not used                              |
| 30355 | VarText             | N     | 2000 | 0   | Variable String | Reason for erroneous Auto Approval    |
|       |                     |       |      |     |                 | processing                            |
|       |                     |       |      |     |                 | Valid characters: \x09, \x0A, \x0D,   |
|       |                     |       |      |     |                 | \x20-\x7B, \x7D, \x7E                 |

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## 13.9 TES Status Broadcast

This message informs about the TES status.

| Tag  | Field Name       | Req'd | Len | Ofs | Data Type    | Description   |
|--|------------------|-------|-----|-----|--------------|---|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderOut>     |       |     |     |              |   |
| 9  | BodyLen          | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                  |
|  |                  |       |     |     |              | cluding this field.   |
| 28500  | TemplateID       | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                                   |
|  |                  |       |     |     |              | sage layout. Value: 10615 (Trading-                                   |
|  |                  |       |     |     |              | ${\sf SessionStatus}, \ {\sf MsgType} = {\sf h})$                     |
| 39020  |                  | U     | 2   | 6   | Fixed String | not used  |
| <rbch< td=""><td>I</td><td></td><td></td><td></td><td></td><td></td></rbch<>                 | I                |       |     |     |              |   |
| 52   | SendingTime      | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by                                  |
|  |                  |       |     |     |              | the gateway   |
| 1181   | ApplSeqNum       | Y     | 8   | 16  | unsigned int | Application sequence number as-                                       |
|  |                  |       |     |     |              | signed to a non-order related T7 ETI                                  |
|  |                  |       |     |     |              | data stream.  |
| 28727  | ApplSubID        | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system                                   |
|  |                  |       |     |     |              | during broadcast subscription in order                                |
|  |                  |       |     |     |              | to link broadcasts to the related sub-                                |
| 5948   | D. CC. JD        | Y     | 2   | 28  |              | scription.  Grouping of T7 products.                                  |
| 5948   | PartitionID      | Y     | 2   | 28  | unsigned int |   |
|  |                  |       |     |     |              | Belongs to the scope of Service Availability and Retransmit requests. |
| 1352   | ApplResendFlag   | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.                                   |
| 1332   | Appliceselluriag | '     | 1   | 30  | unsigned int |   |
|  |                  |       |     |     |              | Value Description   |
|  |                  |       |     |     |              | 0 False   |
|  |                  |       |     |     |              | 1 True  |
| 1180   | ApplID           | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.                                    |
| 1100   | Дриго            | '     | _   | 31  | unsigned int |   |
|  |                  |       |     |     |              | Value Description   |
|  |                  |       |     |     |              | 7 TES Maintenance   |
|  |                  |       |     |     |              | 8 TES Trade   |
| 893  | LastFragment     | Υ     | 1   | 32  | unsigned int | Indicates whether this message is the                                 |
|  |                  |       |     |     | 0            | last fragment (part) of a sequence of                                 |
|  |                  |       |     |     |              | messages belonging to one dedicated                                   |
|  |                  |       |     |     |              | transaction.  |
|  |                  |       |     |     |              | Value Description   |
|  |                  |       |     |     |              | 1 Last Message  |
|  |                  |       |     |     |              |   |
| 39070  | Pad7             | U     | 7   | 33  | Fixed String | not used  |
| < Messa  | geBody>          |       |     |     |              |   |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type      | Description                 |
|-------|--------------|-------|-----|-----|----------------|-----------------------------|
| 75    | TradeDate    | N     | 4   | 40  | Local Mkt Date | Business date.              |
| 1368  | TradSesEvent | Y     | 1   | 44  | unsigned int   | Trading session event type. |
|       |              |       |     |     |                | Value Description           |
|       |              |       |     |     |                | 101 Start of Service        |
|       |              |       |     |     |                | 104 End of Service          |
|       |              |       |     |     |                |                             |
| 39030 | Pad3         | U     | 3   | 45  | Fixed String   | not used                    |

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## 13.10 TES Execution Broadcast

This message indicates that all parties have approved the TES trade.

| Tag  | Field Name      | Req'd                                 | Len | Ofs | Data Type         | Description   |  |  |  |
|--|-----------------|---------------------------------------|-----|-----|-------------------|---|--|--|--|
| <messageheaderout></messageheaderout>  |                 |                                       |     |     |                   |   |  |  |  |
| 9  | BodyLen         | Υ                                     | 4   | 0   | unsigned int      | Number of bytes for the message, in-  |  |  |  |
|  |                 |                                       |     |     |                   | cluding this field.   |  |  |  |
| 28500  | TemplateID      | Υ                                     | 2   | 4   | unsigned int      | Unique identifier for a T7 ETI mes-   |  |  |  |
|  |                 |                                       |     |     |                   | sage layout. Value: 10610 (Trade-   |  |  |  |
|  |                 |                                       |     |     |                   | ${\sf CaptureReport,\ MsgType} = {\sf AE})$                                 |  |  |  |
| 39020  | Pad2            | U                                     | 2   | 6   | Fixed String      | not used  |  |  |  |
| <rbch< td=""><td>eader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | eader>          |                                       |     |     |                   |   |  |  |  |
| 52   | SendingTime     | Y                                     | 8   | 8   | UTCTimestamp      | Outgoing timestamp; filled always by  |  |  |  |
|  |                 |                                       |     |     |                   | the gateway   |  |  |  |
| 1181   | ApplSeqNum      | Y                                     | 8   | 16  | unsigned int      | Application sequence number as-   |  |  |  |
|  |                 |                                       |     |     |                   | signed to a non-order related T7 ETI  |  |  |  |
|  |                 |                                       |     |     |                   | data stream.  |  |  |  |
| 28727  | ApplSubID       | N                                     | 4   | 24  | unsigned int      | Unique ID assigned by the T7 system   |  |  |  |
|  |                 |                                       |     |     |                   | during broadcast subscription in order                                      |  |  |  |
|  |                 |                                       |     |     |                   | to link broadcasts to the related sub-                                      |  |  |  |
|  |                 | .,                                    |     |     |                   | scription.  |  |  |  |
| 5948   | PartitionID     | Y                                     | 2   | 28  | unsigned int      | Grouping of T7 products.  |  |  |  |
|  |                 |                                       |     |     |                   | Belongs to the scope of Service Avail-                                      |  |  |  |
| 1250   | A 10 151        | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 20  |                   | ability and Retransmit requests.  |  |  |  |
| 1352   | ApplResendFlag  | Y                                     | 1   | 30  | unsigned int      | Indicates a retransmission message.   |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 0 False   |  |  |  |
|  |                 |                                       |     |     |                   | 1 True  |  |  |  |
| 1100   | 4 115           | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -1  | 0.1 |                   | LL VC C ETLL  |  |  |  |
| 1180   | ApplID          | Y                                     | 1   | 31  | unsigned int      | Identifier for an ETI data stream.  |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 7 TES Maintenance   |  |  |  |
| 002  | 1               | Y                                     | 1   | 20  |                   | Indicates whether this manager is the                                       |  |  |  |
| 893  | LastFragment    | Y                                     | 1   | 32  | unsigned int      | Indicates whether this message is the last fragment (part) of a sequence of |  |  |  |
|  |                 |                                       |     |     |                   | messages belonging to one dedicated   |  |  |  |
|  |                 |                                       |     |     |                   | transaction.  |  |  |  |
|  |                 |                                       |     |     |                   |   |  |  |  |
|  |                 |                                       |     |     |                   | Value Description   |  |  |  |
|  |                 |                                       |     |     |                   | 1 Last Message  |  |  |  |
| 39070  | Pad7            | U                                     | 7   | 33  | Fixed String      | not used  |  |  |  |
|  | geBody>         |                                       |     |     |                   |   |  |  |  |
|  | TransactTime    | Υ                                     | 8   | 40  | UTCTimestamp      | Transaction timestamp.  |  |  |  |
|  | Transact Fillic | _ '                                   | J   | 10  | o i c i iniestamp | Transaction timestamp.  |  |  |  |

| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                                |
|-------|--------------------|-------|-----|-----|--------------|--|
| 25191 | CompressionID      | N     | 8   | 48  | unsigned int | Compression ID                             |
| 1300  | MarketSegmentID    | Υ     | 4   | 56  | signed int   | Product identifier.                        |
| 2489  | PackageID          | Υ     | 4   | 60  | unsigned int | Identifier for a T7 Entry Service trade    |
|       |                    |       |     |     |              | i.e. TES trade ID.                         |
| 30017 | TESExecID          | Y     | 4   | 64  | unsigned int | System transaction identifier for a T7     |
|       |                    |       |     |     |              | Entry Service transaction.                 |
| 70    | AllocID            | Y     | 4   | 68  | unsigned int | Unique identifier for a TES Trade side.    |
| 828   | TrdType            | Y     | 2   | 72  | unsigned int | Type of TES trade.                         |
|       |                    |       |     |     |              | Value Description                          |
|       |                    |       |     |     |              | 1 Block Trade                              |
|       |                    |       |     |     |              | 12 Exchange for Swap                       |
|       |                    |       |     |     |              | 50 Compression                             |
|       |                    |       |     |     |              | 1000 Vola Trade                            |
|       |                    |       |     |     |              | 1001 EFP-Fin Trade                         |
|       |                    |       |     |     |              | 1002 EFP-Index Futures Trade               |
|       |                    |       |     |     |              | 1007 QTPIP BLOCK TRADE                     |
|       |                    |       |     |     |              | 1004 Trade at Market                       |
| 056   | T 10 .T            | Y     | 1   | 74  |              |  |
| 850   | TradeReportType    | Y     | 1   | 74  | unsigned int | Identifies the type of trade notification. |
|       |                    |       |     |     |              |  |
|       |                    |       |     |     |              | Value Description                          |
|       |                    |       |     |     |              | 2 Accept                                   |
| 54    | Side               | Y     | 1   | 75  | unsigned int | Side of the order.                         |
|       |                    |       |     |     |              | Value Description                          |
|       |                    |       |     |     |              | 1 Buy                                      |
|       |                    |       |     |     |              | 2 Sell                                     |
|       |                    |       |     |     |              |  |
| 939   | TrdRptStatus       | N     | 1   | 76  | unsigned int | Overall status of the TES trade, for       |
|       |                    |       |     |     |              | Initiator only                             |
|       |                    |       |     |     |              | Value Description                          |
|       |                    |       |     |     |              | 0 Accepted                                 |
| 1011  | MessageEventSource | Y     | 1   | 77  | char         | Receiver of a message.                     |
|       |                    |       | _   |     | 5.141        | Value Description                          |
|       |                    |       |     |     |              | A Broadcast to approver                    |
|       |                    |       |     |     |              | A broaucast to approver                    |
| 39020 | Pad2               | U     | 2   | 78  | Fixed String | not used                                   |

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## 13.11 TES Trade Broadcast

This messages provides the TES Trade notification.

| Tag  | Field Name     | Req'd                                 | Len | Ofs | Data Type    | Description   |  |  |  |
|--|----------------|---------------------------------------|-----|-----|--------------|---|--|--|--|
| <messageheaderout></messageheaderout>  |                |                                       |     |     |              |   |  |  |  |
| 9  | BodyLen        | Υ                                     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |  |
|  |                |                                       |     |     |              | cluding this field.   |  |  |  |
| 28500  | TemplateID     | Υ                                     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |  |
|  |                |                                       |     |     |              | sage layout. Value: 10614 (Trade-   |  |  |  |
|  |                |                                       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE})$                                 |  |  |  |
| 39020  | Pad2           | U                                     | 2   | 6   | Fixed String | not used  |  |  |  |
| <rbch< td=""><td>eader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | eader>         |                                       |     |     |              |   |  |  |  |
| 52   | SendingTime    | Y                                     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by  |  |  |  |
|  |                |                                       |     |     |              | the gateway   |  |  |  |
| 1181   | ApplSeqNum     | Y                                     | 8   | 16  | unsigned int | Application sequence number as-   |  |  |  |
|  |                |                                       |     |     |              | signed to a non-order related T7 ETI  |  |  |  |
|  |                |                                       |     |     |              | data stream.  |  |  |  |
| 28727  | ApplSubID      | N                                     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system   |  |  |  |
|  |                |                                       |     |     |              | during broadcast subscription in order                                      |  |  |  |
|  |                |                                       |     |     |              | to link broadcasts to the related sub-                                      |  |  |  |
|  |                | .,                                    |     |     |              | scription.  |  |  |  |
| 5948   | PartitionID    | Y                                     | 2   | 28  | unsigned int | Grouping of T7 products.  |  |  |  |
|  |                |                                       |     |     |              | Belongs to the scope of Service Avail-                                      |  |  |  |
| 1250   | A 10 151       | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 20  |              | ability and Retransmit requests.  |  |  |  |
| 1352   | ApplResendFlag | Y                                     | 1   | 30  | unsigned int | Indicates a retransmission message.   |  |  |  |
|  |                |                                       |     |     |              | Value Description   |  |  |  |
|  |                |                                       |     |     |              | 0 False   |  |  |  |
|  |                |                                       |     |     |              | 1 True  |  |  |  |
| 1100   | 4 115          | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -1  | 0.1 |              |   |  |  |  |
| 1180   | ApplID         | Y                                     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  |  |  |  |
|  |                |                                       |     |     |              | Value Description   |  |  |  |
|  |                |                                       |     |     |              | 8 TES Trade   |  |  |  |
| 003  | 1              | Y                                     | 1   | 20  |              | Indicates whether this manager is the                                       |  |  |  |
| 893  | LastFragment   | Y                                     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of |  |  |  |
|  |                |                                       |     |     |              | messages belonging to one dedicated   |  |  |  |
|  |                |                                       |     |     |              | transaction.  |  |  |  |
|  |                |                                       |     |     |              |   |  |  |  |
|  |                |                                       |     |     |              | Value Description   |  |  |  |
|  |                |                                       |     |     |              | 1 Last Message  |  |  |  |
| 39070  | Pad7           | U                                     | 7   | 33  | Fixed String | not used  |  |  |  |
|  | geBody>        |                                       | •   |     | 1 3.02 508   |   |  |  |  |
|  | SecurityID     | Υ                                     | 8   | 40  | signed int   | Instrument identifier.  |  |  |  |
|  | Jecuityib      | '                                     | J   | 10  | Signed int   | modulinent identifier.  |  |  |  |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type     | Description   |
|-------|---------------------|-------|-----|-----|---------------|---|
| 31    | LastPx              | Υ     | 8   | 48  | PriceType     | Price of TES trade.   |
| 32    | LastQty             | Υ     | 8   | 56  | Qty           | Quantity executed in this fill.                                 |
| 1596  | ClearingTradePrice  | N     | 8   | 64  | PriceType     | Price in clearing notation which can                            |
|       | _                   |       |     |     |               | be preliminary or final depending on                            |
|       |                     |       |     |     |               | TradeReportType (856).  |
| 28736 | ClearingTradeQty    | N     | 8   | 72  | Qty           | Quantity in clearing notation.                                  |
| 60    | TransactTime        | Υ     | 8   | 80  | UTCTimestamp  | Transaction timestamp.  |
| 1650  | RelatedSecurityID   | N     | 8   | 88  | signed int    | Instrument identifier of the original T7                        |
|       |                     |       |     |     |               | strategy.   |
| 25191 | CompressionID       | N     | 8   | 96  | unsigned int  | Compression ID  |
| 20403 | RootPartyIDClientID | N     | 8   | 104 | unsigned int  | MiFID field: Client Identifier field                            |
|       |                     |       |     |     |               | (ESMA Field 3 (Section A))used to                               |
|       |                     |       |     |     |               | identify the client of an order for agent                       |
|       |                     |       |     |     |               | account of the member or participant                            |
|       |                     |       |     |     |               | of the trading venue.   |
| 25123 | ExecutingTrader     | N     | 8   | 112 | unsigned int  | MiFID field: Executing Trader data                              |
|       |                     |       |     |     |               | Field(ESMA Field 5 (Section A))used                             |
|       |                     |       |     |     |               | to identify the person or algorithm                             |
|       |                     |       |     |     |               | within the member or participant of                             |
|       |                     |       |     |     |               | the trading venue who is responsible                            |
|       |                     |       |     |     |               | for the execution of the transaction re-                        |
|       |                     |       |     |     |               | sulting from the order.   |
|       | RootParty-          |       |     |     | _             |   |
| 20522 |                     | N     | 8   | 120 | unsigned int  | MiFID field: Investment decision                                |
|       | Maker               |       |     |     |               | within firm (ESMA Field 4 (Section                              |
|       |                     |       |     |     |               | A)) is the code used to identify the                            |
|       |                     |       |     |     |               | person or the algorithm within the                              |
|       |                     |       |     |     |               | member or participant of the Trading                            |
|       |                     |       |     |     |               | Venue who is responsible for the in-                            |
| 25161 | D. L. T. IM LID     | N.I   | 0   | 100 |               | vestment decision.  |
| 25161 |                     | N     | 8   | 128 | unsigned int  | System defined Basket ID  |
| 28585 |                     | N     | 8   | 136 | PriceType     | Fill price for the original T7 strategy.                        |
| 1009  | SideLastQty         | N     | 8   | 144 | Qty           | Fill quantity for the original T7 strat-                        |
| 2500  | D.I. ICI D.         | N.    |     | 150 | floatDecimal6 | egy.  |
| 2569  | RelatedClosePrice   | N     | 8   | 152 | floatDecimalo | User defined index price.  To be set for TrdType (1004) Trade   |
|       |                     |       |     |     |               |   |
| 2489  | PackagaID           | Y     | 4   | 160 | unsigned int  | at Market [mandatory].  Identifier for a T7 Entry Service trade |
| 2409  | PackageID           | ſ     | 4   | 100 | unsigned int  | i.e. TES trade ID.  |
| 1300  | MarketSegmentID     | Y     | 4   | 164 | signed int    | Product identifier.   |
| 1003  | _                   | Y     | 4   | 168 | unsigned int  | Uniquely Identifies all TES Trade                               |
| 1003  | TradeID             | ī     | 4   | 100 | unsigned IIIL | Sides executed as part of a TES Trade                           |
|       |                     |       |     |     |               | ·   |
|       |                     |       |     |     |               | per simple instrument.  |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-------------------------------|-------|-----|-----|--------------|---|
| 75    | TradeDate                     | Υ     | 4   | 172 | LocalMktDate | Business date.  |
| 1506  | SideTradeID                   | Y     | 4   | 176 | unsigned int | Private trade identifier of an executed TES Trade Side per simple instrument.   |
| 20455 | RootPartyIDSessionID          | N     | 4   | 180 | unsigned int | Session ID.   |
| 1126  | OrigTradelD                   | N     | 4   | 184 | unsigned int | In case of a trade reversal/modification this field provides the original trade identifier.   |
| 20459 | RootParty-<br>IDExecutingUnit | Y     | 4   | 188 | unsigned int | Business Unit ID.   |
| 20412 | RootParty- IDExecutingTrader  | Y     | 4   | 192 | unsigned int | Owning User ID.   |
| 25026 | RootPartyIDClearing-<br>Unit  | N     | 4   | 196 | unsigned int | Clearing Business Unit ID.  |
| 1851  | StrategyLinkID                | N     | 4   | 200 | unsigned int | Corresponds to the Alloc-ID/IndividualAllocID (unique identifier for a TES Trade side).   |
| 1649  | RelatedSymbol                 | N     | 4   | 204 | signed int   | Product identifier of the original T7 strategy.   |
| 748   | TotNumTradeReports            | N     | 4   | 208 | signed int   | Number of leg executions of the original strategy order.  |
| 28758 | NegotiationID                 | N     | 4   | 212 | unsigned int | ID of a SRQS negotiation  |
| 25152 | SRQSRelatedTradelD            | N     | 4   | 216 | unsigned int | Trade ID out of a SRQS Negotiation Event  |
| 28899 | BasketProfileID               | N     | 4   | 220 | unsigned int | ID of the Basket profile, applicable only for Basket of Equity Total Return Futures(TrdType(828)=1010)  |
| 762   | SecuritySubType               | N     | 4   | 224 | signed int   | Sub-type qualification/identification of the SecurityType   |
| 828   | TrdType                       | N     | 2   | 228 | unsigned int | Type of TES trade.  Value Description  1 Block Trade  12 Exchange for Swap  50 Compression  1000 Vola Trade  1001 EFP-Fin Trade  1002 EFP-Index Futures Trade  1007 QTPIP BLOCK TRADE  1004 Trade at Market  1006 Eurex/Xetra Enlight triggered trade |

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| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type    | Description                                 |
|-------|----------------------------|-------|-----|-----|--------------|---|
| 1227  | ProductComplex             | N     | 1   | 230 | unsigned int | This field qualifies an instrument type     |
|       |                            |       |     |     |              | on T7.                                      |
|       |                            |       |     |     |              | Value Description                           |
|       |                            |       |     |     |              | 1 Simple instrument                         |
|       |                            |       |     |     |              | 10 Flexible Simple Instrument               |
| 28587 | RelatedProduct-<br>Complex | N     | 1   | 231 | unsigned int | Instrument type of the orginal T7 strategy. |
|       |                            |       |     |     |              | Value Description                           |
|       |                            |       |     |     |              | 2 Standard Option Strategy                  |
|       |                            |       |     |     |              | Non-Standard Option Strategy                |
|       |                            |       |     |     |              | 4 Volatility Strategy                       |
|       |                            |       |     |     |              | 5 Futures Spread                            |
|       |                            |       |     |     |              | 6 Inter-Product Spread                      |
|       |                            |       |     |     |              | 7 Standard Future Strategy                  |
|       |                            |       |     |     |              | 8 Pack and Bundle                           |
|       |                            |       |     |     |              | 9 Strip                                     |
|       |                            |       |     |     |              | 11 Commodity Strip                          |
| 54    | Side                       | Y     | 1   | 232 | unsigned int | Side of the TES trade.                      |
|       |                            |       |     |     | G            | Value Description                           |
|       |                            |       |     |     |              | 1 Buy                                       |
|       |                            |       |     |     |              | 2 Sell                                      |
|       |                            |       |     |     |              |   |
| 1815  | TradingCapacity            | N     | 1   | 233 | unsigned int | This field designates if the trader is      |
|       |                            |       |     |     |              | acting in the capacity of agent, trad-      |
|       |                            |       |     |     |              | ing for its own account or acting as a      |
|       |                            |       |     |     |              | market maker.                               |
|       |                            |       |     |     |              | Value Description                           |
|       |                            |       |     |     |              | 1 Customer (Agency)                         |
|       |                            |       |     |     |              | 5 Principal (Proprietary)                   |
|       |                            |       |     |     |              | 6 Market Maker                              |
|       |                            |       |     |     |              |   |

| Tag  | Field Name                 | Req'd | Len | Ofs | Data Type    | Description                             |
|------|----------------------------|-------|-----|-----|--------------|---|
| 856  |                            | Υ     | 1   | 234 | unsigned int | Identifies the type of trade notifica-  |
|      |                            |       |     |     |              | tion.                                   |
|      |                            |       |     |     |              | Value Description                       |
|      |                            |       |     |     |              | 0 Submit                                |
|      |                            |       |     |     |              | 1 Alleged                               |
|      |                            |       |     |     |              | 5 No/Was (Replaced)                     |
|      |                            |       |     |     |              | 7 (Locked-In) Trade Break               |
| 020  | T ( D                      | Y     | 1   | 235 |              | Identifies the role for which the trade |
| 830  | TransferReason             | Y     | 1   | 235 | unsigned int | notification is received.               |
|      |                            |       |     |     |              |   |
|      |                            |       |     |     |              | Value Description  1 Owner              |
|      |                            |       |     |     |              | 2 Clearer                               |
|      |                            |       |     |     |              | 2 Clearer                               |
| 1390 | TradePublishIndicator      | Υ     | 1   | 236 | unsigned int | Indicates if a trade should be reported |
|      |                            |       |     |     |              | via the market reporting service.       |
|      |                            |       |     |     |              | Value Description                       |
|      |                            |       |     |     |              | Deferred publication to mar-            |
|      |                            |       |     |     |              | 2 ket                                   |
|      |                            |       |     |     |              | 3 Published to market                   |
|      | M I I D                    |       |     |     |              |   |
| 442  | MultiLegReporting-<br>Type | N     | 1   | 237 | unsigned int | Indicates if the trade resulted from a  |
|      | Туре                       |       |     |     |              | single order or a multi leg instrument. |
|      |                            |       |     |     |              |   |
|      |                            |       |     |     |              | Value Description                       |
|      |                            |       |     |     |              | 1 Single instrument                     |
|      |                            |       |     |     |              | 2 Complex instrument                    |
| 77   | PositionEffect             | N     | 1   | 238 | char         | Field is used for T7 position manage-   |
|      | T distribution             |       | _   |     | 5.12.        | ment purposes and indicates whether     |
|      |                            |       |     |     |              | the order is submitted to open or close |
|      |                            |       |     |     |              | a position.                             |
|      |                            |       |     |     |              | Value Description                       |
|      |                            |       |     |     |              | C Close                                 |
|      |                            |       |     |     |              | O Open                                  |
|      |                            |       |     |     |              |   |

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| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------------|-------|-----|-----|--------------|---|
| 28750 | MultilegPriceModel                    | N     | 1   | 239 | unsigned int | Price decomposition method for legs of a complex instrument.  Value Description  leg level prices provided by system  leg level prices provided by user   |
| 23002 | OrderAttribute-<br>LiquidityProvision | N     | 1   | 240 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision   |
| 23003 | OrderAttributeRisk-Reduction          | N     | 1   | 241 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.  Value Description  1 Risk reduction  0 No risk reduction |
| 25124 | ExecutingTrader-<br>Qualifier         | N     | 1   | 242 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|---|-------|-----|-----|--------------|--|
| 21622 | RootParty-<br>IDInvestmentDecision-<br>MakerQualifier | N     | 1   | 243 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 1724  | OrderOrigination                                      | N     | 1   | 244 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 700   | ReversalIndicator                                     | N     | 1   | 245 | unsigned int | Indicator whether the reversal of the TES trade is electronically requested or not  Value Description  0 No  1 Yes   |
| 2788  | TradeAggregation-<br>TransType                        | N     | 1   | 246 | unsigned int | Trade Aggregation Identifier.  Value Description  0 New  |
| 1     | Account   | N     | 2   | 247 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x4D, \x50, \x52  |
| 20438 | RootPartyIDPosition-<br>Account                       | N     | 32  | 249 | Fixed String | 'Flexible Account' information. Valid characters: $\xspace \times 20$ , $\xspace \times 30-\xspace \times 41-\xspace \times 5A$  |

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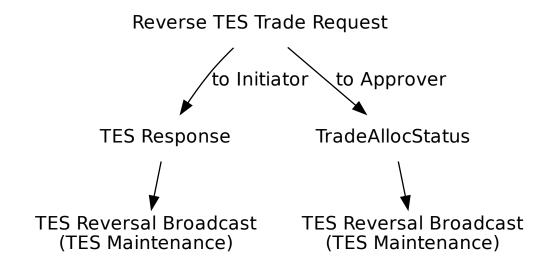
| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 1031  | CustOrderHandling-Inst      | N N   | 1   | 281 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker |
| 25007 | FreeText1                   | N     | 12  | 282 | Fixed String | Other, including Other-provided Screen  * More values  First free-format text field for trader specific or customer-related comments   |
|       |                             |       |     |     |              | Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |
| 25008 | FreeText2                   | N     | 12  | 294 | Fixed String | Second free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |
| 25009 | FreeText3                   | N     | 12  | 306 | Fixed String | Third free-format text field for trader-specific or customer-related comments.  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E  |
| 22401 | RootPartyExecuting-<br>Firm | Y     | 5   | 318 | Fixed String | Participant Short Name. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |

| Tag   | Field Name                           | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------------|-------|-----|-----|--------------|---|
| 22412 | RootPartyExecuting-<br>Trader        | Y     | 6   | 323 | Fixed String | Owning User Short Name.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 22404 | RootPartyClearing-<br>Firm           | N     | 5   | 329 | Fixed String | Clearing Member Short Name.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 22421 | RootPartyClearing-<br>Organization   | Y     | 4   | 334 | Fixed String | Clearing House Short Name.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E   |
| 20432 | RootParty-<br>IDBeneficiary          | N     | 9   | 338 | Fixed String | Final Beneficiary.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E   |
| 20496 | RootPartyIDTakeUp-<br>TradingFirm    | N     | 5   | 347 | Fixed String | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20  |
| 20413 | RootPartyIDOrder-<br>OriginationFirm | N     | 7   | 352 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20   |
| 20473 | RootParty-<br>IDExecutionVenue       | N     | 4   | 359 | Fixed String | Market Segment Identification Code Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 1903  | RegulatoryTradelD                    | N     | 52  | 363 | Fixed String | TVTIC - Trading Venue Transaction Identification Code Valid characters: 0-9, A-Z, a-z   |
| 25182 | BasketPartyContra-<br>Firm           | N     | 5   | 415 | Fixed String | The identifier of the basket member counterparty institution.  Valid characters: A-Z, 0-9, \x20   |
| 26162 | BasketSideTrade-<br>ReportID         | N     | 20  | 420 | Fixed String | User defined Basket trade ID Valid characters: \x01-\x7E  |
| 32999 |                                      | N     | 15  | 440 | Fixed String | This field indicates the Fee Code associated with the transaction.  Valid characters: \x41-\x45, \x47, \x4B, \x4D, \x4E, \x50, \x52, \x53, \x54, \x57, \x58 |
| 39000 | Lagi                                 | U     | 1   | 455 | Fixed String | not used  |

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#### 13.12 Reverse TES Trade Request

This message is sent to the service "T7 Entry".



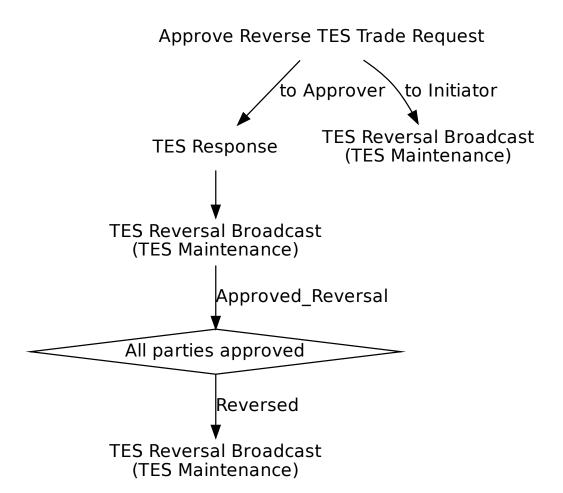
| Tag  | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                 |
|--|-----------------|-------|-----|-----|--------------|---|
| < Messa  | geHeaderIn>     |       |     |     |              |   |
| 9  | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|  |                 |       |     |     |              | cluding this field.                         |
| 28500  | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|  |                 |       |     |     |              | sage layout. Value: 10630 (Trade-           |
|  |                 |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |
| 25028  | NetworkMsgID    | U     | 8   | 6   | Fixed String | not used                                    |
| 39020  | Pad2            | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td>,</td><td></td><td></td><td></td></reque<> | stHeader>       |       | ,   |     |              |   |
| 34   | MsgSeqNum       | Υ     | 4   | 16  | unsigned int | Message sequence number used by the         |
|  |                 |       |     |     |              | participant for requests sent to the        |
|  |                 |       |     |     |              | gateway.                                    |
| 50   | SenderSubID     | Υ     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa  | geBody>         |       |     |     |              |   |
| 1300   | MarketSegmentID | Υ     | 4   | 24  | signed int   | Product identifier.                         |
| 2489   | PackageID       | Y     | 4   | 28  | unsigned int | Identifier for a T7 Entry Service trade     |
|  |                 |       |     |     |              | i.e. TES trade ID.                          |
| 30017  | TESExecID       | Υ     | 4   | 32  | unsigned int | System transaction identifier for a T7      |
|  |                 |       |     |     |              | Entry Service transaction.                  |

| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------------|-------|-----|-----|--------------|--|
| 2546  | RelatedMarket-<br>SegmentID | N     | 4   | 36  | signed int   | Identifies a related product.  To be set for TrdType (1000) Vola  Trade [mandatory]. |
| 828   | TrdType                     | Y     | 2   | 40  | unsigned int | Type of TES trade.   |
|       |                             |       |     |     |              | Value Description  |
|       |                             |       |     |     |              | 1 Block Trade  |
|       |                             |       |     |     |              | 12 Exchange for Swap   |
|       |                             |       |     |     |              | 50 Compression   |
|       |                             |       |     |     |              | 1000 Vola Trade  |
|       |                             |       |     |     |              | 1001 EFP-Fin Trade   |
|       |                             |       |     |     |              | 1002 EFP-Index Futures Trade   |
|       |                             |       |     |     |              | 1007 QTPIP BLOCK TRADE   |
|       |                             |       |     |     |              | 1004 Trade at Market   |
|       |                             |       |     |     |              | 1006 Eurex/Xetra Enlight trig-<br>gered trade  |
| 571   | TradaDanartID               | N     | 20  | 42  | Fixed String | User defined transaction ID. Part of   |
| 3/1   | TradeReportID               | IN    | 20  | 42  | Tixed String | the TES response and TES broadcast.  |
|       |                             |       |     |     |              | Valid characters: \x01-\x7E  |
| 25196 | ReversalReasonText          | N     | 132 | 62  | Fixed String | Reversal Reason Text   |
|       |                             |       |     |     | 3            | Valid characters: \x20, \x22-\x7B,   |
|       |                             |       |     |     |              | \x7D, \x7E   |
| 39060 | Pad6                        | U     | 6   | 194 | Fixed String | not used   |

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#### 13.13 Approve Reverse TES Trade Request

This message is sent to the service "T7 Entry".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                                 |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|
| <messa,< td=""><td colspan="10"><messageheaderin></messageheaderin></td></messa,<>        | <messageheaderin></messageheaderin> |       |     |     |              |   |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                         |  |  |  |  |
| 28500   | TemplateID                          | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10631 (Trade-           |  |  |  |  |
|   |                                     |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE})$ |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                                    |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                                    |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |   |  |  |  |  |

| Tag     | Field Name      | Req'd | Len | Ofs | Data Type    | Description                             |
|---------|-----------------|-------|-----|-----|--------------|---|
| 34      | MsgSeqNum       | Y     | 4   | 16  | unsigned int | Message sequence number used by the     |
|         |                 |       |     |     |              | participant for requests sent to the    |
|         |                 |       |     |     |              | gateway.                                |
| 50      | SenderSubID     | Y     | 4   | 20  | unsigned int | User ID.                                |
| < Messa | geBody>         |       |     |     |              |   |
| 1300    | MarketSegmentID | Y     | 4   | 24  | signed int   | Product identifier.                     |
| 2489    | PackageID       | Y     | 4   | 28  | unsigned int | Identifier for a T7 Entry Service trade |
|         |                 |       |     |     |              | i.e. TES trade ID.                      |
| 70      | AllocID         | Y     | 4   | 32  | unsigned int | Unique identifier for a TES Trade side. |
| 30017   | TESExecID       | Y     | 4   | 36  | unsigned int | System transaction identifier for a T7  |
|         |                 |       |     |     |              | Entry Service transaction.              |
| 2546    | RelatedMarket-  | N     | 4   | 40  | signed int   | Identifies a related product.           |
|         | SegmentID       |       | •   |     | 0.8          | To be set for TrdType (1000) Vola       |
|         |                 |       |     |     |              | Trade [mandatory].                      |
| 828     | TrdType         | Υ     | 2   | 44  | unsigned int | Type of TES trade.                      |
|         | , ,             |       |     |     |              | Value Description                       |
|         |                 |       |     |     |              | 1 Block Trade                           |
|         |                 |       |     |     |              | 12 Exchange for Swap                    |
|         |                 |       |     |     |              | 50 Compression                          |
|         |                 |       |     |     |              | 1000 Vola Trade                         |
|         |                 |       |     |     |              | 1000 Voia Trade                         |
|         |                 |       |     |     |              | 1002 EFP-Index Futures Trade            |
|         |                 |       |     |     |              |   |
|         |                 |       |     |     |              | 1007 QTPIP BLOCK TRADE                  |
|         |                 |       |     |     |              | 1004 Trade at Market                    |
|         |                 |       |     |     |              | 1006 Eurex/Xetra Enlight trig-          |
|         |                 |       |     |     |              | gered trade                             |
| 571     | TradeReportID   | N     | 20  | 46  | Fixed String | User defined transaction ID. Part of    |
|         |                 |       |     |     |              | the TES response and TES broadcast.     |
|         |                 |       |     |     |              | Valid characters: \x01-\x7E             |
| 39060   | Pad6            | U     | 6   | 66  | Fixed String | not used                                |

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|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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# 13.14 TES Reversal Broadcast

| Tag   | Field Name             | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|------------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>           |       |     |     |              |   |
| 9   | BodyLen                | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |                        |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID             | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |                        |       |     |     |              | sage layout. Value: 10632 (Trade-           |
|   |                        |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |
| 39020   | Pad2                   | U     | 2   | 6   | Fixed String | not used                                    |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                |       |     |     |              |   |
| 52  | SendingTime            | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by        |
|   |                        |       |     |     |              | the gateway                                 |
| 1181  | ApplSeqNum             | Y     | 8   | 16  | unsigned int | Application sequence number as-             |
|   |                        |       |     |     |              | signed to a non-order related T7 ETI        |
|   |                        |       |     |     |              | data stream.                                |
| 28727   | ApplSubID              | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system         |
|   |                        |       |     |     |              | during broadcast subscription in order      |
|   |                        |       |     |     |              | to link broadcasts to the related sub-      |
|   |                        |       |     |     |              | scription.                                  |
| 5948  | PartitionID            | Y     | 2   | 28  | unsigned int | Grouping of T7 products.                    |
|   |                        |       |     |     |              | Belongs to the scope of Service Avail-      |
|   |                        |       |     |     |              | ability and Retransmit requests.            |
| 1352  | ApplResendFlag         | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.         |
|   |                        |       |     |     |              | Value Description                           |
|   |                        |       |     |     |              | 0 False                                     |
|   |                        |       |     |     |              | 1 True                                      |
|   |                        |       |     |     |              |   |
| 1180  | ApplID                 | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.          |
|   |                        |       |     |     |              | Value Description                           |
|   |                        |       |     |     |              | 7 TES Maintenance                           |
|   |                        |       |     |     |              |   |
| 893   | LastFragment           | Y     | 1   | 32  | unsigned int | Indicates whether this message is the       |
|   |                        |       |     |     |              | last fragment (part) of a sequence of       |
|   |                        |       |     |     |              | messages belonging to one dedicated         |
|   |                        |       |     |     |              | transaction.                                |
|   |                        |       |     |     |              | Value Description                           |
|   |                        |       |     |     |              | 1 Last Message                              |
| 655=  |                        |       | _   |     | F. 10        |   |
| 39070   |                        | U     | 7   | 33  | Fixed String | not used                                    |
|   | geBody>                |       |     |     | 11707        |   |
|   | ReversalInitiationTime | N     | 8   | 40  | UTCTimestamp | Reversal Initiation Time                    |
| 1300  | MarketSegmentID        | Y     | 4   | 48  | signed int   | Product identifier.                         |

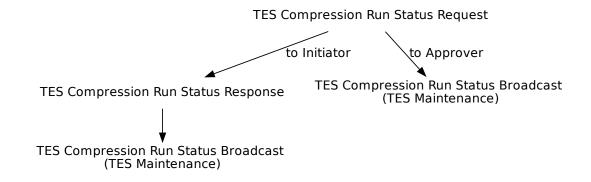
| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 2489  | PackageID             | Υ     | 4   | 52  | unsigned int | Identifier for a T7 Entry Service trade             |
|       |                       |       |     |     |              | i.e. TES trade ID.                                  |
| 30017 | TESExecID             | Υ     | 4   | 56  | unsigned int | System transaction identifier for a T7              |
|       |                       |       |     |     |              | Entry Service transaction.                          |
| 2546  | RelatedMarket-        | N     | 4   | 60  | signed int   | Identifies a related product.                       |
| 2010  | SegmentID             | ''    | •   |     | oigned int   | To be set for TrdType (1000) Vola                   |
|       |                       |       |     |     |              | Trade [mandatory].                                  |
| 828   | TrdType               | Υ     | 2   | 64  | unsigned int | Type of TES trade.                                  |
|       |                       |       |     |     |              | Value Description                                   |
|       |                       |       |     |     |              | 1 Block Trade                                       |
|       |                       |       |     |     |              | 12 Exchange for Swap                                |
|       |                       |       |     |     |              | 50 Compression                                      |
|       |                       |       |     |     |              | 1000 Vola Trade                                     |
|       |                       |       |     |     |              | 1001 EFP-Fin Trade                                  |
|       |                       |       |     |     |              | 1002 EFP-Index Futures Trade                        |
|       |                       |       |     |     |              | 1007 QTPIP BLOCK TRADE                              |
|       |                       |       |     |     |              | 1004 Trade at Market                                |
|       |                       |       |     |     |              | 1006 Eurex/Xetra Enlight trig-                      |
|       |                       |       |     |     |              | gered trade   |
| 020   | T ID ICI.             | N     | 1   | 66  |              | Overall status of the TES totals for                |
| 939   | TrdRptStatus          | IN    | 1   | 66  | unsigned int | Overall status of the TES trade, for Initiator only |
|       |                       |       |     |     |              |   |
|       |                       |       |     |     |              | Value Description                                   |
|       |                       |       |     |     |              | 0 Accepted  |
|       |                       |       |     |     |              | 7 Terminated  |
|       |                       |       |     |     |              | 5 Pending Cancel                                    |
| 05105 | ReversalCancellation- |       |     | 67  |              | D 16 H.: D  |
| 25195 | Reason                | N     | 1   | 67  | unsigned int | Reversal Cancellation Reason                        |
|       |                       |       |     |     |              | Value Description                                   |
|       |                       |       |     |     |              | 1 TES Activity State Change                         |
|       |                       |       |     |     |              | 2 Instrument Expiration                             |
|       |                       |       |     |     |              | 3 Instrument Deletion                               |
|       |                       |       |     |     |              | 4 Instrument Suspension                             |
| 28709 | NoSideAllocs          | Y     | 1   | 68  | Counter      | Number of allocation in a T7 Entry                  |
|       |                       |       | _   |     |              | Service trade. Number of TES trade                  |
|       |                       |       |     |     |              | sides in a TES trade                                |
| 571   | TradeReportID         | N     | 20  | 69  | Fixed String | User defined transaction ID. Part of                |
|       |                       |       |     |     | -            | the TES response and TES broadcast.                 |
|       |                       |       |     |     |              | Valid characters: \x01-\x7E                         |

| Tag   | Field Name                 | Req'd   | Len    | Ofs     | Data Type          | Description                              |
|---|----------------------------|---------|--------|---------|--------------------|--|
| 25196   | ReversalReasonText         | N       | 132    | 89      | Fixed String       | Reversal Reason Text                     |
|   |                            |         |        |         |                    | Valid characters: $\x20$ , $\x22-\x7B$ , |
|   |                            |         |        |         |                    | \x7D, \x7E                               |
| 39030   | Pad3                       | U       | 3      | 221     | Fixed String       | not used                                 |
| <side <="" td=""><td>AllocGrpBC&gt; Cardinalit</td><td>y: 1-99</td><td>, Reco</td><td>ord cou</td><td>inter: NoSideAlloc</td><td>CS .</td></side> | AllocGrpBC> Cardinalit     | y: 1-99 | , Reco | ord cou | inter: NoSideAlloc | CS .                                     |
| 80  | >AllocQty                  | U       | 8      | 224     | Qty                | not used                                 |
| 25198   | >ReversalApproval-<br>Time | N       | 8      | 232     | UTCTimestamp       | Reversal Approval Time                   |
| 467   | >IndividualAllocID         | Y       | 4      | 240     | unsigned int       | Unique identifier for a TES trade side.  |
| 25180   | >TESEnrichment-<br>RuleID  | U       | 4      | 244     | unsigned int       | not used                                 |
| 22001   | >PartyExecutingFirm        | U       | 5      | 248     | Fixed String       | not used                                 |
| 22012   | >PartyExecuting-<br>Trader | U       | 6      | 253     | Fixed String       | not used                                 |
| 54  | >Side                      | U       | 1      | 259     | unsigned int       | not used                                 |
| 1840  | >TradeAllocStatus          | Υ       | 1      | 260     | unsigned int       | Status of an allocation in a T7 Entry    |
|   |                            |         |        |         |                    | Service trade.                           |
|   |                            |         |        |         |                    | Value Description                        |
|   |                            |         |        |         |                    | 1 Pending                                |
|   |                            |         |        |         |                    | 2 Approved                               |
|   |                            |         |        |         |                    | 3 Auto Approved                          |
|   |                            |         |        |         |                    | 4 Uploaded                               |
|   |                            |         |        |         |                    | 5 Canceled                               |
|   |                            |         |        |         |                    | 6 Pending Execution                      |
|   |                            |         |        |         |                    | 7 Pending Reversal                       |
|   |                            |         |        |         |                    | 8 Side Approved Reversal                 |
|   |                            |         |        |         |                    | 9 Reversed                               |
|   |                            |         |        |         |                    | 10 Cancelled Reversal                    |
| 39030   | >Pad3                      | U       | 3      | 261     | Fixed String       | not used                                 |

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#### 13.15 TES Compression Run Status Request

This message is sent to the service "T7 Entry".



| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|-------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderIn>       |       |     |     |              |   |
| 9   | BodyLen           | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |                   |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID        | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |                   |       |     |     |              | sage layout. Value: 10616 (Trade-           |
|   |                   |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE})$ |
| 25028   | NetworkMsgID      | U     | 8   | 6   | Fixed String | not used                                    |
| 39020   | Pad2              | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>         |       |     |     |              |   |
| 34  | MsgSeqNum         | Υ     | 4   | 16  | unsigned int | Message sequence number used by the         |
|   |                   |       |     |     |              | participant for requests sent to the        |
|   |                   |       |     |     |              | gateway.                                    |
| 50  | SenderSubID       | Y     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa   | geBody>           |       |     |     |              |   |
| 25191   | CompressionID     | N     | 8   | 24  | unsigned int | Compression ID                              |
| 1300  | MarketSegmentID   | Y     | 4   | 32  | signed int   | Product identifier.                         |
| 25192   | CompressionAction | Υ     | 1   | 36  | unsigned int | Compression Action                          |
|   |                   |       |     |     |              | Value Description                           |
|   |                   |       |     |     |              | 1 Start Compression                         |
|   |                   |       |     |     |              | 2 Commit Compression                        |
|   |                   |       |     |     |              | 3 Cancel Compression                        |
|   |                   |       |     |     |              |   |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 1390  | TradePublishIndicator | N     | 1   | 37  | unsigned int | Indicates if a trade should be reported via the market reporting service. |
|       |                       |       |     |     |              | Value Description  0 Do Not Publish Trade  1 Publish Trade                |
| 39020 | Pad2                  | U     | 2   | 38  | Fixed String | not used  |

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# 13.16 TES Compression Run Status Response

| Tag     | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                    |  |  |  |
|---------|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| < Messa | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9       | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-           |  |  |  |
|         |                                       |       |     |     |              | cluding this field.                            |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-            |  |  |  |
|         |                                       |       |     |     |              | sage layout. Value: 10617 (Trade-              |  |  |  |
|         |                                       |       |     |     |              | ${\sf CaptureReportAck,\ MsgType} = {\sf AR)}$ |  |  |  |
| 39020   |                                       | U     | 2   | 6   | Fixed String | not used                                       |  |  |  |
|         | nseHeader>                            |       |     | 1   |              |  |  |  |  |
| 5979    | RequestTime                           | Υ     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.                  |  |  |  |
| 52      | SendingTime                           | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by           |  |  |  |
|         |                                       |       |     |     |              | the gateway                                    |  |  |  |
| 34      | MsgSeqNum                             | Y     | 4   | 24  | unsigned int | Message sequence number used by the            |  |  |  |
|         |                                       |       |     |     |              | participant for requests sent to the           |  |  |  |
|         |                                       |       |     |     |              | gateway.                                       |  |  |  |
| 39040   | Pad4                                  | U     | 4   | 28  | Fixed String | not used                                       |  |  |  |
| < Messa | geBody>                               |       |     |     |              |  |  |  |  |
| 25191   | CompressionID                         | N     | 8   | 32  | unsigned int | Compression ID                                 |  |  |  |
| 1300    | MarketSegmentID                       | N     | 4   | 40  | signed int   | Product identifier.                            |  |  |  |
| 25192   | CompressionAction                     | N     | 1   | 44  | unsigned int | Compression Action                             |  |  |  |
|         |                                       |       |     |     |              | Value Description                              |  |  |  |
|         |                                       |       |     |     |              | 1 Start Compression                            |  |  |  |
|         |                                       |       |     |     |              | 2 Commit Compression                           |  |  |  |
|         |                                       |       |     |     |              | 3 Cancel Compression                           |  |  |  |
|         |                                       |       |     |     |              |  |  |  |  |
| 25193   | CompressionStatus                     | N     | 1   | 45  | unsigned int | Compression Status                             |  |  |  |
|         |                                       |       |     |     |              | Value Description                              |  |  |  |
|         |                                       |       |     |     |              | 1 Open   |  |  |  |
|         |                                       |       |     |     |              | 2 Executed                                     |  |  |  |
|         |                                       |       |     |     |              | 3 Cancelled by service provider                |  |  |  |
|         |                                       |       |     |     |              | 4 Cancelled by System                          |  |  |  |
|         |                                       |       |     |     |              |  |  |  |  |
| 1390    | TradePublishIndicator                 | N     | 1   | 46  | unsigned int | Indicates if a trade should be reported        |  |  |  |
|         |                                       |       |     |     |              | via the market reporting service.              |  |  |  |
|         |                                       |       |     |     |              | Value Description                              |  |  |  |
|         |                                       |       |     |     |              | 0 Do Not Publish Trade                         |  |  |  |
|         |                                       |       |     |     |              | 1 Publish Trade                                |  |  |  |
|         |                                       |       |     |     |              |  |  |  |  |
| 39000   | Pad1                                  | U     | 1   | 47  | Fixed String | not used                                       |  |  |  |

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### 13.17 TES Compression Run Status Broadcast

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|-----------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>    |       |     |     |              |   |
| 9   | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |                 |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |                 |       |     |     |              | sage layout. Value: 10618 (Trade-           |
|   |                 |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE)}$ |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                                    |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>         |       |     |     |              |   |
| 52  | SendingTime     | Υ     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by        |
|   |                 |       |     |     |              | the gateway                                 |
| 1181  | ApplSeqNum      | Y     | 8   | 16  | unsigned int | Application sequence number as-             |
|   |                 |       |     |     |              | signed to a non-order related T7 ETI        |
|   |                 |       |     |     |              | data stream.                                |
| 28727   | ApplSubID       | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system         |
|   |                 |       |     |     |              | during broadcast subscription in order      |
|   |                 |       |     |     |              | to link broadcasts to the related sub-      |
|   |                 |       |     |     |              | scription.                                  |
| 5948  | PartitionID     | Y     | 2   | 28  | unsigned int | Grouping of T7 products.                    |
|   |                 |       |     |     |              | Belongs to the scope of Service Avail-      |
|   |                 |       |     |     |              | ability and Retransmit requests.            |
| 1352  | ApplResendFlag  | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.         |
|   |                 |       |     |     |              | Value Description                           |
|   |                 |       |     |     |              | 0 False                                     |
|   |                 |       |     |     |              | 1 True                                      |
|   |                 |       |     |     |              |   |
| 1180  | ApplID          | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.          |
|   |                 |       |     |     |              | Value Description                           |
|   |                 |       |     |     |              | 7 TES Maintenance                           |
|   |                 |       |     |     |              |   |
| 893   | LastFragment    | Y     | 1   | 32  | unsigned int | Indicates whether this message is the       |
|   |                 |       |     |     |              | last fragment (part) of a sequence of       |
|   |                 |       |     |     |              | messages belonging to one dedicated         |
|   |                 |       |     |     |              | transaction.                                |
|   |                 |       |     |     |              | Value Description                           |
|   |                 |       |     |     |              | 1 Last Message                              |
|   |                 |       |     |     |              |   |
| 39070   |                 | U     | 7   | 33  | Fixed String | not used                                    |
|   | geBody>         |       |     |     |              |   |
| 25191   | <u>'</u>        | N     | 8   | 40  | unsigned int | Compression ID                              |
| 1300  | MarketSegmentID | N     | 4   | 48  | signed int   | Product identifier.                         |

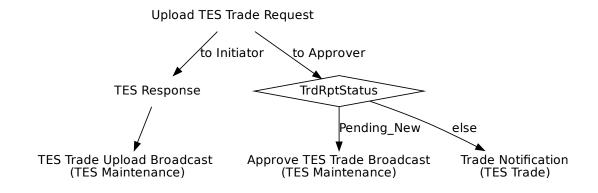
| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|-----------------------|-------|-----|-----|--------------|---|
| 25192 | CompressionAction     | N     | 1   | 52  | unsigned int | Compression Action                      |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 1 Start Compression                     |
|       |                       |       |     |     |              | 2 Commit Compression                    |
|       |                       |       |     |     |              | 3 Cancel Compression                    |
|       |                       |       |     |     |              |   |
| 25193 | CompressionStatus     | N     | 1   | 53  | unsigned int | Compression Status                      |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 1 Open                                  |
|       |                       |       |     |     |              | 2 Executed                              |
|       |                       |       |     |     |              | 3 Cancelled by service provider         |
|       |                       |       |     |     |              | 4 Cancelled by System                   |
| 1000  |                       |       |     |     |              |   |
| 1390  | TradePublishIndicator | N     | 1   | 54  | unsigned int | Indicates if a trade should be reported |
|       |                       |       |     |     |              | via the market reporting service.       |
|       |                       |       |     |     |              | Value Description                       |
|       |                       |       |     |     |              | 0 Do Not Publish Trade                  |
|       |                       |       |     |     |              | 1 Publish Trade                         |
| 22222 |                       |       |     |     |              |   |
| 39000 | Pad1                  | U     | 1   | 55  | Fixed String | not used                                |

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### 13.18 Upload TES Trade Request

This message is used to upload TES Trades. This message is sent to the service "T7 Entry".



| Tag   | Field Name        | Req'd | Len | Ofs | Data Type     | Description                                 |
|---|-------------------|-------|-----|-----|---------------|---|
| < Messa   | geHeaderIn>       |       |     |     |               |   |
| 9   | BodyLen           | Y     | 4   | 0   | unsigned int  | Number of bytes for the message, in-        |
|   |                   |       |     |     |               | cluding this field.                         |
| 28500   | TemplateID        | Y     | 2   | 4   | unsigned int  | Unique identifier for a T7 ETI mes-         |
|   |                   |       |     |     |               | sage layout. Value: 10612 (Trade-           |
|   |                   |       |     |     |               | ${\sf CaptureReport,\ MsgType} = {\sf AE})$ |
| 25028   | NetworkMsgID      | U     | 8   | 6   | Fixed String  | not used                                    |
| 39020   | Pad2              | U     | 2   | 14  | Fixed String  | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>         |       |     |     |               |   |
| 34  | MsgSeqNum         | Y     | 4   | 16  | unsigned int  | Message sequence number used by the         |
|   |                   |       |     |     |               | participant for requests sent to the        |
|   |                   |       |     |     |               | gateway.                                    |
| 50  | SenderSubID       | Y     | 4   | 20  | unsigned int  | User ID.                                    |
| < Messa   | geBody>           |       |     |     |               |   |
| 48  | SecurityID        | Y     | 8   | 24  | signed int    | Instrument identifier.                      |
| 31  | LastPx            | Y     | 8   | 32  | PriceType     | Price of TES trade.                         |
| 483   | TransBkdTime      | N     | 8   | 40  | UTCTimestamp  | Time of Commencement, the time              |
|   |                   |       |     |     |               | when an Off-Book trade was con-             |
|   |                   |       |     |     |               | cluded outside the T7 System. There         |
|   |                   |       |     |     |               | is a market specific validation of Time     |
|   |                   |       |     |     |               | of Commencement by the T7 back-             |
|   |                   |       |     |     |               | end.  |
| 810   | UnderlyingPx      | N     | 8   | 48  | PriceType     | Underlying price associated with a          |
|   |                   |       |     |     |               | derivative instrument.                      |
| 2589  | RelatedClosePrice | N     | 8   | 56  | floatDecimal6 | User defined index price.                   |
|   |                   |       |     |     |               | To be set for TrdType (1004) Trade          |
|   |                   |       |     |     |               | at Market [mandatory].                      |

| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------|-------|-----|-----|--------------|--|
| 1860  | ${\sf RelatedTradeQuantity}$  | N     | 8   | 64  | Qty          | Quantity of the related trade.   |
|       |                               |       |     |     |              | To be set for TrdType (1000) Vola  |
|       |                               |       |     |     |              | Trade [mandatory].   |
| 879   | UnderlyingQty                 | N     | 8   | 72  | Qty          | Nominal value of an underlying (for  |
|       |                               |       |     |     |              | an EFS or EFP Index Trade in units   |
|       |                               |       |     |     |              | of thousand).  |
| 25191 | CompressionID                 | N     | 8   | 80  | unsigned int | Compression ID   |
| 1300  | MarketSegmentID               | Y     | 4   | 88  | signed int   | Product identifier.  |
| 987   | UnderlyingSettlement-<br>Date | N     | 4   | 92  | LocalMktDate | Date the underlying instrument will settle.  |
|       |                               |       |     |     |              | To be set for TrdType (1) Echange for Swap [optional] and (1001) EFP-Fin Trade [optional].   |
| 542   | UnderlyingMaturity-<br>Date   | N     | 4   | 96  | LocalMktDate | Underlying security's maturity date. To be set for TrdType (1001) EFP-Fin Trade [mandatory]. |
| 1856  | RelatedTradeID                | N     | 4   | 100 | unsigned int | Identifier of a related trade.  To be set for TrdType (1000) Vola  Trade [mandatory].        |
| 2546  | RelatedMarket-<br>SegmentID   | N     | 4   | 104 | signed int   | Identifies a related product.  To be set for TrdType (1000) Vola  Trade [mandatory].         |
| 828   | TrdType                       | Υ     | 2   | 108 | unsigned int | Type of TES trade.   |
|       |                               |       |     |     |              | Value Description  |
|       |                               |       |     |     |              | 1 Block Trade  |
|       |                               |       |     |     |              | 12 Exchange for Swap   |
|       |                               |       |     |     |              | 50 Compression   |
|       |                               |       |     |     |              | 1000 Vola Trade  |
|       |                               |       |     |     |              | 1001 EFP-Fin Trade   |
|       |                               |       |     |     |              | 1002 EFP-Index Futures Trade   |
|       |                               |       |     |     |              | 1007 QTPIP BLOCK TRADE   |
|       |                               |       |     |     |              | 1004 Trade at Market   |
|       |                               |       |     |     |              |  |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------|-------|-----|-----|--------------|--|
| 1227  | ProductComplex        | N     | 1   | 110 | unsigned int | This field qualifies an instrument type  |
|       |                       |       |     |     |              | on T7.   |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 1 Simple instrument  |
|       |                       |       |     |     |              | 2 Standard Option Strategy   |
|       |                       |       |     |     |              | 3 Non-Standard Option Strategy   |
|       |                       |       |     |     |              | 4 Volatility Strategy  |
|       |                       |       |     |     |              | 5 Futures Spread   |
|       |                       |       |     |     |              | 6 Inter-Product Spread   |
|       |                       |       |     |     |              | 7 Standard Future Strategy   |
|       |                       |       |     |     |              | 8 Pack and Bundle  |
|       |                       |       |     |     |              | 9 Strip  |
|       |                       |       |     |     |              | 10 Flexible Simple Instrument  |
|       |                       |       |     |     |              | 11 Commodity Strip   |
| 856   | TradeReportType       | Y     | 1   | 111 | unsigned int | Identifies the type of trade notifica-   |
|       |                       |       |     |     |              | tion.  |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 0 Submit   |
| 1390  | TradePublishIndicator | Y     | 1   | 112 | unsigned int | Indicates if a trade should be reported via the market reporting service.                        |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 0 Do Not Publish Trade   |
|       |                       |       |     |     |              | 1 Publish Trade  |
| 28709 | NoSideAllocs          | Y     | 1   | 113 | Counter      | Number of allocation in a T7 Entry<br>Service trade. Number of TES trade<br>sides in a TES trade |
| 555   | NoLegs                | Υ     | 1   | 114 | Counter      | Number of repeating TrdInstrmntLeg-  |
|       |                       |       |     |     |              | Grp entries (number of legs for user   |
|       |                       |       |     |     |              | provided leg trade prices).  |
| 864   | NoEvents              | Y     | 1   | 115 | Counter      | Number of repeating EventType entries.   |
| 870   | NoInstrAttrib         | Y     | 1   | 116 | Counter      | Number of repeating InstrAttribType entries.   |
| 887   | NoUnderlyingStips     | Y     | 1   | 117 | Counter      | Number of underlying stipulation entries.  |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 25034 | SkipValidations                | Y     | 1   | 118 | unsigned int | Indicator to skip validations.  |
|       |                                |       |     |     |              | Value Description   |
|       |                                |       |     |     |              | 0 False   |
|       |                                |       |     |     |              | 1 True  |
| 939   | TrdRptStatus                   | N     | 1   | 119 | unsigned int | Can only be used for EEX  |
|       |                                |       |     |     |              | Value Description   |
|       |                                |       |     |     |              | 0 Accepted  |
|       |                                |       |     |     |              | 4 Pending new   |
| 25160 | TradePlatform                  | N     | 1   | 120 | unsigned int | Indicates trade platform. Can only be used for EEX  Value Description   |
|       |                                |       |     |     |              | 0 Off-Book<br>1 On-Book   |
|       |                                |       |     |     |              | 1 On-Book   |
| 29008 | HedgeType                      | N     | 1   | 121 | unsigned int | Hedging method. To be set for TrdType (12) Exchange for Swap [mandatory], (1001) EFP-Fin Trade [mandatory]and (1002) EFI-Index Futures Trade [mandatory]. |
|       |                                |       |     |     |              | Value Description   |
|       |                                |       |     |     |              | 0 Duration Hedge  |
|       |                                |       |     |     |              | 1 Nominal Hedge   |
|       |                                |       |     |     |              | 2 Price Factor Hedge  |
| 20010 | PartyIDSettlement-<br>Location | N     | 1   | 122 | unsigned int | ID of settlement location.  Value Description   |
|       |                                |       |     |     |              | Clearstrem Banking Frank-<br>furt   |
|       |                                |       |     |     |              | Clearstrem Banking Luxemburg  |
|       |                                |       |     |     |              | 3 CLS Group   |
|       |                                |       |     |     |              | 4 Euroclear   |
|       |                                |       |     |     |              |   |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------------|-------|-----|-----|--------------|--|
| 25175 | ValueCheckTypeMin-<br>LotSize | N     | 1   | 123 | unsigned int | Indicator for checking the Miniminm Lot Size by the exchange. Mandatory if TrdRptStatus=4(Pending_New)  Value Description  0 Do not check  1 Check             |
| 571   | TradeReportID                 | N     | 20  | 124 | Fixed String | User defined transaction ID. Part of the TES response and TES broadcast. Valid characters: \x01-\x7E   |
| 28583 | TradeReportText               | N     | 20  | 144 | Fixed String | User defined TES ID.  Valid characters: \x01-\x7E  |
| 309   | UnderlyingSecurityID          | N     | 12  | 164 | ISIN         | Underlying security's ID (ISIN). To be set for TrdType (1001) EFP-Fin Trade [mandatory]. Valid characters: A-Z, 0-9, \x20                                      |
| 307   | UnderlyingSecurity-<br>Desc   | N     | 30  | 176 | Fixed String | Description of the Underlying security. To be set for TrdType (1001) EFP-Fin Trade [optional]. Valid characters: \x01-\x7E                                     |
| 318   | UnderlyingCurrency            | N     | 3   | 206 | CurrencyType | Underlying security's currency.  To be set for TrdType (12) Exchange for Swap [optional]and (1001) EFP-Fin Trade [optional].  Valid characters: A-Z, 0-9, \x20 |
| 306   | UnderlyingIssuer              | N     | 30  | 209 | Fixed String | The issuer or name of the underlying security.  To be set for TrdType (1001) EFP-Fin Trade [optional].  Valid characters: \x01-\x7E                            |
| 25199 | SwapClearer                   | N     | 1   | 239 | unsigned int | Swap clearer for EFS Trades only  Value Description  0 Eurex Clearing  1 Non-Eurex Clearing  |
|       | AllocExtGrp> Cardinalit       | 1     |     | 1   |              |  |
| 80    | >AllocQty                     | Y     | 8   | 240 | Qty          | Quantity of the particular trade side in the TES trade.  |

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| Tag   | Field Name          | Req'd                                 | Len | Ofs | Data Type     | Description                               |
|-------|---------------------|---------------------------------------|-----|-----|---------------|---|
| 20003 | >PartyIDClientID    | N                                     | 8   | 248 | unsigned int  | MiFID field: Client Identifier field      |
|       |                     |                                       |     |     |               | (ESMA Field 3 (Section A))used to         |
|       |                     |                                       |     |     |               | identify the client of an order for agent |
|       |                     |                                       |     |     |               | account of the member or partici-         |
|       |                     |                                       |     |     |               | pant of the trading venue. If the         |
|       |                     |                                       |     |     |               | Client Identifier field is not provided   |
|       |                     |                                       |     |     |               | for agent orders, then they will be re-   |
|       |                     |                                       |     |     |               | jected. For orders sent with Trading      |
|       |                     |                                       |     |     |               | Capacity Proprietary or Market Mak-       |
|       |                     |                                       |     |     |               | ing, the Client Identifier field may re-  |
|       |                     |                                       |     |     |               | main empty.                               |
| 20122 | >PartyldInvestment- | N                                     | 8   | 256 | unsigned int  | MiFID field: Investment decision          |
| 20122 | DecisionMaker       | '                                     | O   | 250 | unsigned int  | within firm (ESMA Field 4 (Section        |
|       |                     |                                       |     |     |               | A)) is the code used to identify the      |
|       |                     |                                       |     |     |               | person or the algorithm within the        |
|       |                     |                                       |     |     |               | member or participant of the Trading      |
|       |                     |                                       |     |     |               | Venue who is responsible for the in-      |
|       |                     |                                       |     |     |               | vestment decision.                        |
| 25123 | >ExecutingTrader    | N                                     | 8   | 264 | unsigned int  | MiFID field: Executing Trader data        |
|       |                     |                                       |     |     | _             | Field(ESMA Field 5 (Section A))used       |
|       |                     |                                       |     |     |               | to identify the person or algorithm       |
|       |                     |                                       |     |     |               | within the member or participant of       |
|       |                     |                                       |     |     |               | the trading venue who is responsible      |
|       |                     |                                       |     |     |               | for the execution of the transaction re-  |
|       |                     |                                       |     |     |               | sulting from the order.                   |
| 467   | >IndividualAllocID  | U                                     | 4   | 272 | unsigned int  | not used                                  |
| 22001 | >PartyExecutingFirm | Y                                     | 5   | 276 | Fixed String  | Owning business unit name.                |
|       |                     |                                       |     |     |               | Valid characters: A-Z, 0-9, \x20          |
| 22012 | >PartyExecuting-    | Y                                     | 6   | 281 | Fixed String  | Owning user name.                         |
|       | Trader              |                                       | ŭ   |     |               | Valid characters: A-Z, 0-9, \x20          |
| 39000 | >Pad1               | U                                     | 1   | 287 | Fixed String  | not used                                  |
|       | >TESEnrichment-     | D.                                    |     |     |               |   |
| 25180 | RuleID              | N                                     | 4   | 288 | unsigned int  | Enrichment Rule ID for TES trades         |
|       |                     |                                       |     |     |               | (to be used only in case of Auto Ap-      |
| F.4   | . 6:1               | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |     | 202 |               | proval)                                   |
| 54    | >Side               | Y                                     | 1   | 292 | unsigned int  | Side of the TES trade.                    |
|       |                     |                                       |     |     |               | Value Description                         |
|       |                     |                                       |     |     |               | 1 Buy                                     |
|       |                     |                                       |     |     |               | 2 Sell                                    |
| 1840  | >TradeAllocStatus   | U                                     | 1   | 293 | unsigned int  | not used                                  |
| 1040  | / ITaueAllocotatus  |                                       | т   | 293 | unsigned lift | not useu                                  |

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| Tag   | Field Name                             | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--|-------|-----|-----|--------------|---|
| 1815  | >TradingCapacity                       | N     | 1   | 294 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker |
| 77    | >PositionEffect                        | N     | 1   | 295 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close O Open  |
| 23002 | >OrderAttribute-<br>LiquidityProvision | N     | 1   | 296 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision                             |
| 25124 | >ExecutingTrader-<br>Qualifier         | N     | 1   | 297 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 21222 | >PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 298 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 23003 | >OrderAttributeRisk-Reduction                      | N     | 1   | 299 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description   1   Risk reduction   0   No risk reduction  |
| 1724  | >OrderOrigination                                  | N     | 1   | 300 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer   |
| 1     | >Account   | N     | 2   | 301 | Fixed String | Accounts to book trades and keep positions on. Valid characters: 1-9, $\xspace \xspace \xspac$ |
| 20038 | >PartyIDPosition-<br>Account                       | N     | 32  | 303 | Fixed String | 'Flexible Account' information.  Valid characters: \x20, \x30-\x39, \x41-\x5A  |
| 20096 | >PartyIDTakeUp-<br>TradingFirm                     | N     | 5   | 335 | Fixed String | Take-up Member Short Name.  Valid characters: A-Z, 0-9, \x20   |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------|-------|-----|-----|--------------|---|
| 25007 | >FreeText1          | N     | 12  | 340 | Fixed String | First free-format text field for trader specific or customer-related com- |
|       |                     |       |     |     |              | ments   |
|       |                     |       |     |     |              | Valid characters: \x20, \x23-\x25,  |
|       |                     |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                     |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | >FreeText2          | N     | 12  | 352 | Fixed String | Second free-format text field for   |
|       |                     |       |     |     |              | trader specific or customer-related                                       |
|       |                     |       |     |     |              | comments  |
|       |                     |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ ,                                  |
|       |                     |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                     |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 25009 | >FreeText3          | N     | 12  | 364 | Fixed String | Third free-format text field for trader-                                  |
|       |                     |       |     |     |              | specific or customer-related com-   |
|       |                     |       |     |     |              | ments.  |
|       |                     |       |     |     |              | Valid characters: $\x20$ , $\x23-\x25$ ,                                  |
|       |                     |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                     |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 20013 | >PartyIDOrder-      | N     | 7   | 376 | Fixed String | External Member ID.   |
|       | OriginationFirm     |       |     |     | 0            | Valid characters: A-Z, 0-9, \x20  |
| 20032 | >PartyIDBeneficiary | N     | 9   | 383 | Fixed String | Final Beneficiary   |
|       |                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20  |
| 20075 | >PartyIDLocationID  | N     | 2   | 392 | Fixed String | Country code. Will be set to "XX" for                                     |
|       |                     |       |     |     |              | non-capital letters.  |
|       |                     |       |     |     |              | Valid characters: \x01-\x7E   |

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| Tag                | Field Name                              | Req'd          | Len   | Ofs      | Data Type                  | Description   |
|--------------------|---|----------------|-------|----------|----------------------------|---|
| 1031               | >CustOrderHandling-<br>Inst             | N N            | 20    | 394      | Fixed String  Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Ex- G change API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Other-provided Screen  * More values  This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, |
|                    |   |                |       |          |                            | \x7D, \x7E  |
|                    | >Pad1_1                                 | U U            | 1     | 415      | Fixed String               | not used  |
| < <i>Irdli</i> 602 | nstrmntLegGrp> Cardin<br>>LegSecurityID | ality: 0-<br>Y | 20, R | ecord of | signed int                 | Instrument identifier of the leg secu-  |
| 002                | ∕regoecumyiD                            | '              | U     |          | oigneu iiit                | rity.   |
| 566                | >LegPrice                               | Y              | 8     | 8        | PriceType                  | User provided leg trade price (not for underlying leg).   |
| 687                | >LegQty                                 | U              | 8     | 16       | Qty                        | not used  |
| < Instr            | umentEventGrp> Cardii                   | nality: 0      | -2, R | ecord o  | counter: NoEvent           | s   |
| 866                | >EventDate                              | Y              | 4     | 0        | LocalMktDate               | Date of event. To be set for TrdType (12) Exchange for Swap [mandatory].  |

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| Tag   | Field Name              | Req'd    | Len    | Ofs    | Data Type        | Description                                       |
|-------|-------------------------|----------|--------|--------|------------------|---|
| 865   | >EventType              | Y        | 1      | 4      | unsigned int     | Identifier for an Instrument Event                |
|       |                         |          |        |        |                  | Value Description                                 |
|       |                         |          |        |        |                  | 8 Swap Start Date                                 |
|       |                         |          |        |        |                  | 9 Swap End Date                                   |
|       |                         |          |        |        |                  |   |
|       | >Pad3                   | U        | 3      | 5      | Fixed String     | not used  |
|       | rumentAttributeGrp> Ca  |          |        |        |                  |   |
| 871   | >InstrAttribType        | Y        | 1      | 0      | unsigned int     | Code to represent the type of instru-             |
|       |                         |          |        |        |                  | ment attribute.                                   |
|       |                         |          |        |        |                  | To be set for TrdType (12) Ex-                    |
|       |                         |          |        |        |                  | change for Swap[Swap, Customer_1, Swap_Customer_2 |
|       |                         |          |        |        |                  | Variable_Rate, Offset_to-                         |
|       |                         |          |        |        |                  | the_variable_coupon_rate: op-                     |
|       |                         |          |        |        |                  | tional, (1001) EFP-Fin Trade                      |
|       |                         |          |        |        |                  | [Coupon_Rate: optional]and                        |
|       |                         |          |        |        |                  | (1002) EFP-Index Futures                          |
|       |                         |          |        |        |                  | Trade[Cash_Basket_Reference:                      |
|       |                         |          |        |        |                  | mandatory].                                       |
|       |                         |          |        |        |                  | Value Description                                 |
|       |                         |          |        |        |                  | 5 Variable rate                                   |
|       |                         |          |        |        |                  | 100 Coupon rate                                   |
|       |                         |          |        |        |                  | Offset to the variable coupon                     |
|       |                         |          |        |        |                  | 101 rate  |
|       |                         |          |        |        |                  | 102 Swap Customer 1                               |
|       |                         |          |        |        |                  | 103 Swap Customer 2                               |
|       |                         |          |        |        |                  | 104 Cash Basket Reference                         |
|       |                         |          |        |        |                  |   |
| 872   | >InstrAttribValue       | Y        | 32     | 1      | Fixed String     | Attribute value appropriate to the                |
|       |                         |          |        |        |                  | InstrAttribType field.                            |
|       |                         |          |        |        |                  | To be set for TrdTyp (12) Exchange                |
|       |                         |          |        |        |                  | for Swap [optional], (1001) EFP-Fin               |
|       |                         |          |        |        |                  | Trade [optional] and (1002) EFP-                  |
|       |                         |          |        |        |                  | Index Futures Trade [mandatory].                  |
| 20070 | >Pad7                   | U        | 7      | 33     | Fixed String     | Valid characters: \x01-\x7E                       |
| 39070 |                         |          |        | 33     |                  | not used  |
| < Una | erlyingStipGrp> Cardina | iity: U- | ı, ĸec | ora co | unter: Noonaeriy | ringsups  |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|----------------------|-------|-----|-----|--------------|--|
| 889   | >UnderlyingStipValue | Υ     | 32  | 0   | Fixed String | Value of stipulation. In case of cupon |
|       |                      |       |     |     |              | frequency , fill the field with cupon  |
|       |                      |       |     |     |              | frequency value.                       |
|       |                      |       |     |     |              | To be set for TrdType (12) Exchange    |
|       |                      |       |     |     |              | for Swap [optional] and (1001) EFP-    |
|       |                      |       |     |     |              | Fin Trade [optional].                  |
|       |                      |       |     |     |              | Valid characters: \x01-\x7E            |
| 888   | >UnderlyingStipType  | Υ     | 7   | 32  | Fixed String | Type of stipulation. e.g. to denote    |
|       |                      |       |     |     |              | coupon frequency.                      |
|       |                      |       |     |     |              | Pay_Frequency to be set for TrdType    |
|       |                      |       |     |     |              | (12) Exchange for Swap [optional] and  |
|       |                      |       |     |     |              | (1001) EFP-Fin Trade [optional].       |
|       |                      |       |     |     |              | Value Description                      |
|       |                      |       |     |     |              | PAYFREQ Pay_Frequency                  |
|       |                      |       |     |     |              |  |
| 39000 | >Pad1                | U     | 1   | 39  | Fixed String | not used                               |

| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

Build 111.470.1.ga-111004071-18

# 13.19 TES Trade Upload Broadcast

This message informs about uploaded TES Trades.

| Tag  | Field Name     | Req'd      | Len | Ofs | Data Type    | Description                            |
|--|----------------|------------|-----|-----|--------------|--|
| <messag< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messag<> | geHeaderOut>   |            |     |     |              |  |
| 9  | BodyLen        | Υ          | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|  |                |            |     |     |              | cluding this field.                    |
| 28500  | TemplateID     | Y          | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|  |                |            |     |     |              | sage layout. Value: 10613 (Trade-      |
|  |                |            |     |     |              | CaptureReport, $MsgType = AE$ )        |
| 39020  |                | U          | 2   | 6   | Fixed String | not used                               |
| <rbche< td=""><td></td><td></td><td></td><td></td><td></td><td></td></rbche<>                  |                |            |     |     |              |  |
| 52   | SendingTime    | Y          | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |
|  |                |            |     |     |              | the gateway                            |
| 1181   | ApplSeqNum     | Y          | 8   | 16  | unsigned int | Application sequence number as-        |
|  |                |            |     |     |              | signed to a non-order related T7 ETI   |
|  |                |            |     |     |              | data stream.                           |
| 28727  | ApplSubID      | N          | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |
|  |                |            |     |     |              | during broadcast subscription in order |
|  |                |            |     |     |              | to link broadcasts to the related sub- |
| 5040   | 5 15           |            |     | 20  |              | scription.                             |
| 5948   | PartitionID    | Y          | 2   | 28  | unsigned int | Grouping of T7 products.               |
|  |                |            |     |     |              | Belongs to the scope of Service Avail- |
| 1250   | A ID IEI       | \ <u>\</u> | 1   | 20  |              | ability and Retransmit requests.       |
| 1352   | ApplResendFlag | Y          | 1   | 30  | unsigned int | Indicates a retransmission message.    |
|  |                |            |     |     |              | Value Description                      |
|  |                |            |     |     |              | 0 False                                |
|  |                |            |     |     |              | 1 True                                 |
| 1100   | AD             | V          | 1   | 21  |              | Hautifian fan an ETI data atusan       |
| 1180   | ApplID         | Y          | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |
|  |                |            |     |     |              | Value Description                      |
|  |                |            |     |     |              | 7 TES Maintenance                      |
| 803  | LastFragment   | Υ          | 1   | 32  | unsigned int | Indicates whether this message is the  |
| 093  | Lastragment    | '          | 1   | 32  | unsigned int | last fragment (part) of a sequence of  |
|  |                |            |     |     |              | messages belonging to one dedicated    |
|  |                |            |     |     |              | transaction.                           |
|  |                |            |     |     |              |  |
|  |                |            |     |     |              | Value Description                      |
|  |                |            |     |     |              | 1 Last Message                         |
| 39070  | Pad7           | U          | 7   | 33  | Fixed String | not used                               |
|  | geBody>        |            |     |     |              |  |
|  | SecurityID     | Υ          | 8   | 40  | signed int   | Instrument identifier.                 |

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| Tag   | Field Name             | Req'd | Len | Ofs | Data Type     | Description                             |
|-------|------------------------|-------|-----|-----|---------------|---|
| 31    | LastPx                 | Υ     | 8   | 48  | PriceType     | Price of TES trade.                     |
| 483   | TransBkdTime           | N     | 8   | 56  | UTCTimestamp  | Time of Commencement, the time          |
|       |                        |       |     |     |               | when an Off-Book trade was con-         |
|       |                        |       |     |     |               | cluded outside the T7 System. There     |
|       |                        |       |     |     |               | is a market specific validation of Time |
|       |                        |       |     |     |               | of Commencement by the T7 back-         |
|       |                        |       |     |     |               | end.                                    |
| 60    | TransactTime           | Y     | 8   | 64  | UTCTimestamp  | Transaction timestamp.                  |
| 810   | UnderlyingPx           | N     | 8   | 72  | PriceType     | Underlying price associated with a      |
|       |                        |       |     |     |               | derivative instrument.                  |
| 2589  | RelatedClosePrice      | N     | 8   | 80  | floatDecimal6 | User defined index price.               |
|       |                        |       |     |     |               | To be set for TrdType (1004) Trade      |
|       |                        |       |     |     |               | at Market [mandatory].                  |
| 1860  | Related Trade Quantity | N     | 8   | 88  | Qty           | Quantity of the related trade.          |
|       |                        |       |     |     |               | To be set for TrdType (1000) Vola       |
|       |                        |       |     |     |               | Trade [mandatory].                      |
| 879   | UnderlyingQty          | N     | 8   | 96  | Qty           | Nominal value of an underlying (for     |
|       |                        |       |     |     |               | an EFS or EFP Index Trade in units      |
|       |                        |       |     |     |               | of thousand).                           |
| 25191 | CompressionID          | N     | 8   | 104 | unsigned int  | Compression ID                          |
| 1300  | MarketSegmentID        | Y     | 4   | 112 | signed int    | Product identifier.                     |
| 2489  | PackageID              | Y     | 4   | 116 | unsigned int  | Identifier for a T7 Entry Service trade |
|       |                        |       |     |     |               | i.e. TES trade ID.                      |
| 30017 | TESExecID              | Y     | 4   | 120 | unsigned int  | System transaction identifier for a T7  |
|       |                        |       |     |     |               | Entry Service transaction.              |
| 987   | UnderlyingSettlement-  | N     | 4   | 124 | LocalMktDate  | Date the underlying instrument will     |
|       | Date                   |       | -   |     |               | settle.                                 |
|       |                        |       |     |     |               | To be set for TrdType (1) Echange for   |
|       |                        |       |     |     |               | Swap [optional] and (1001) EFP-Fin      |
|       |                        |       |     |     |               | Trade [optional].                       |
|       | UnderlyingMaturity-    |       |     | 100 |               | -                                       |
| 542   | Date                   | N     | 4   | 128 | LocalMktDate  | Underlying security's maturity date.    |
|       |                        |       |     |     |               | To be set for TrdType (1001) EFP-Fin    |
| 1056  | D. I. IT. 1.15         | N.    |     | 100 |               | Trade [mandatory].                      |
| 1856  | RelatedTradeID         | N     | 4   | 132 | unsigned int  | Identifier of a related trade.          |
|       |                        |       |     |     |               | To be set for TrdType (1000) Vola       |
|       | DalatadMarkat          |       |     |     |               | Trade [mandatory].                      |
| 2546  | RelatedMarket-         | N     | 4   | 136 | signed int    | Identifies a related product.           |
|       | SegmentID              |       |     |     |               | To be set for TrdType (1000) Vola       |
|       |                        |       |     |     |               | Trade [mandatory].                      |

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| Tag  | Field Name      | Req'd | Len | Ofs | Data Type    | Description   |
|------|-----------------|-------|-----|-----|--------------|---|
| 828  | TrdType         | Υ     | 2   | 140 | unsigned int | Type of TES trade.  |
|      |                 |       |     |     |              | Value Description   |
|      |                 |       |     |     |              | 1 Block Trade   |
|      |                 |       |     |     |              | 12 Exchange for Swap  |
|      |                 |       |     |     |              | 50 Compression  |
|      |                 |       |     |     |              | 1000 Vola Trade   |
|      |                 |       |     |     |              | 1001 EFP-Fin Trade  |
|      |                 |       |     |     |              | 1002 EFP-Index Futures Trade                                      |
|      |                 |       |     |     |              | 1007 QTPIP BLOCK TRADE  |
|      |                 |       |     |     |              | 1004 Trade at Market  |
| 1227 | ProductComplex  | N     | 1   | 142 | unsigned int | This field qualifies an instrument type on T7.  Value Description |
|      |                 |       |     |     |              | 1 Simple instrument   |
|      |                 |       |     |     |              | 2 Standard Option Strategy  |
|      |                 |       |     |     |              | Non-Standard Option Strategy                                      |
|      |                 |       |     |     |              | 4 Volatility Strategy   |
|      |                 |       |     |     |              | 5 Futures Spread  |
|      |                 |       |     |     |              | 6 Inter-Product Spread  |
|      |                 |       |     |     |              | 7 Standard Future Strategy  |
|      |                 |       |     |     |              | 8 Pack and Bundle   |
|      |                 |       |     |     |              | 9 Strip   |
|      |                 |       |     |     |              | 10 Flexible Simple Instrument                                     |
|      |                 |       |     |     |              | 11 Commodity Strip  |
| 856  | TradeReportType | Y     | 1   | 143 | unsigned int | Identifies the type of trade notification.                        |
|      |                 |       |     |     |              | Value Description   |
|      |                 |       |     |     |              | 2 Accept  |
|      |                 |       |     |     |              | 0 Submit  |
| 939  | TrdRptStatus    | N     | 1   | 144 | unsigned int | Overall status of the TES trade, for                              |
|      | Transposition   |       | -   |     | unsigned int | Initiator only  |
|      |                 |       |     |     |              | Value Description   |
|      |                 |       |     |     |              | 0 Accepted  |
|      |                 |       |     |     |              | 4 Pending new   |
|      |                 |       |     |     |              | 9 Deemed verified   |
|      |                 |       |     |     |              |   |

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| Tag   | Field Name            | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-----------------------|-------|-----|-----|--------------|--|
| 1390  | TradePublishIndicator | Y     | 1   | 145 | unsigned int | Indicates if a trade should be reported                          |
|       |                       |       |     |     |              | via the market reporting service.                                |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 0 Do Not Publish Trade   |
|       |                       |       |     |     |              | 1 Publish Trade  |
| 25160 | TradePlatform         | Y     | 1   | 146 | unsigned int | Indicates trade platform. Can only be                            |
|       |                       |       |     |     |              | used for EEX   |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 0 Off-Book   |
|       |                       |       |     |     |              | 1 On-Book  |
| 28709 | NoSideAllocs          | Υ     | 1   | 147 | Counter      | Number of allocation in a T7 Entry                               |
|       |                       |       |     |     |              | Service trade. Number of TES trade                               |
|       |                       |       |     |     |              | sides in a TES trade   |
| 555   | NoLegs                | Y     | 1   | 148 | Counter      | Number of repeating TrdInstrmntLeg-                              |
|       |                       |       |     |     |              | Grp entries (number of legs for user provided leg trade prices). |
| 864   | NoEvents              | Y     | 1   | 149 | Counter      | Number of repeating EventType en-                                |
|       | TV0_LVCIII.S          |       | _   |     |              | tries.   |
| 870   | NoInstrAttrib         | Y     | 1   | 150 | Counter      | Number of repeating InstrAttribType                              |
|       |                       |       |     | 4-4 |              | entries.   |
| 887   | NoUnderlyingStips     | Y     | 1   | 151 | Counter      | Number of underlying stipulation entries.                        |
| 29008 | HedgeType             | N     | 1   | 152 | unsigned int | Hedging method.  |
| 23000 | TreageType            | '     | _   | 152 | unsigned int | To be set for TrdType (12) Exchange                              |
|       |                       |       |     |     |              | for Swap [mandatory], (1001) EFP-                                |
|       |                       |       |     |     |              | Fin Trade [mandatory]and (1002)                                  |
|       |                       |       |     |     |              | EFI-Index Futures Trade [mandatory].                             |
|       |                       |       |     |     |              |  |
|       |                       |       |     |     |              | Value Description  |
|       |                       |       |     |     |              | 0 Duration Hedge   |
|       |                       |       |     |     |              | 1 Nominal Hedge  |
|       |                       |       |     |     |              | 2 Price Factor Hedge   |
|       |                       |       |     |     |              |  |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------|-------|-----|-----|--------------|--|
| 20010 | PartyIDSettlement-<br>Location | N     | 1   | 153 | unsigned int | ID of settlement location.  Value Description  Clearstrem Banking Frankfurt  Clearstrem Banking Luxemburg  3 CLS Group  4 Euroclear                          |
| 25199 | SwapClearer                    | N     | 1   | 154 | unsigned int | Swap clearer for EFS Trades only  Value Description  0 Eurex Clearing  1 Non-Eurex Clearing  |
| 1011  | MessageEventSource             | Y     | 1   | 155 | char         | Receiver of a message.  Value Description  I Broadcast to initiator  A Broadcast to approver   |
| 571   | TradeReportID                  | N     | 20  | 156 | Fixed String | User defined transaction ID. Part of the TES response and TES broadcast. Valid characters: \x01-\x7E   |
| 22401 | RootPartyExecuting-<br>Firm    | N     | 5   | 176 | Fixed String | Participant Short Name.  Valid characters: $\x20$ , $\x22$ - $\x7B$ , $\x7D$ , $\x7E$  |
| 22412 | RootPartyExecuting-<br>Trader  | N     | 6   | 181 | Fixed String | Owning User Short Name. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |
| 309   | UnderlyingSecurityID           | N     | 12  | 187 | ISIN         | Underlying security's ID (ISIN). To be set for TrdType (1001) EFP-Fin Trade [mandatory]. Valid characters: A-Z, 0-9, \x20                                    |
| 307   | UnderlyingSecurity-<br>Desc    | N     | 30  | 199 | Fixed String | Description of the Underlying security. To be set for TrdType (1001) EFP-Fin Trade [optional]. Valid characters: \x01-\x7E                                   |
| 318   | UnderlyingCurrency             | N     | 3   | 229 | CurrencyType | Underlying security's currency. To be set for TrdType (12) Exchange for Swap [optional]and (1001) EFP-Fin Trade [optional]. Valid characters: A-Z, 0-9, \x20 |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description  |  |  |  |
|---|---|-------|-----|-----|--------------|--|--|--|--|
| 306   | Underlyinglssuer  | N     | 30  | 232 | Fixed String | The issuer or name of the underlying   |  |  |  |
|   |   |       |     |     |              | security.  |  |  |  |
|   |   |       |     |     |              | To be set for TrdType (1001) EFP-Fin   |  |  |  |
|   |   |       |     |     |              | Trade [optional].  |  |  |  |
|   |   |       |     |     |              | Valid characters: \x01-\x7E  |  |  |  |
| 39020   | Pad2  | U     | 2   | 262 | Fixed String | not used   |  |  |  |
| <side< td=""><td colspan="9"><sideallocextgrp> Cardinality: 1-99, Record counter: NoSideAllocs</sideallocextgrp></td></side<> | <sideallocextgrp> Cardinality: 1-99, Record counter: NoSideAllocs</sideallocextgrp> |       |     |     |              |  |  |  |  |
| 80  | >AllocQty   | Y     | 8   | 264 | Qty          | Quantity of the particular trade side in the TES trade.  |  |  |  |
| 20003   |   | N     | 8   | 272 | unsigned int | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to identify the client of an order for agent account of the member or participant of the trading venue. If the Client Identifier field is not provided for agent orders, then they will be rejected. For orders sent with Trading Capacity Proprietary or Market Making, the Client Identifier field may remain empty. |  |  |  |
| 20122   | >PartyldInvestment-<br>DecisionMaker  | N     | 8   | 280 | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.   |  |  |  |
| 25123   | >ExecutingTrader  | N     | 8   | 288 | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.   |  |  |  |
| 467   | >IndividualAllocID  | Υ     | 4   | 296 | unsigned int | Unique identifier for a TES trade side.  |  |  |  |
| 22001   | >PartyExecutingFirm   | Y     | 5   | 300 | Fixed String | Owning business unit name.  Valid characters: A-Z, 0-9, \x20   |  |  |  |
| 22012   | >PartyExecuting-<br>Trader  | Y     | 6   | 305 | Fixed String | Owning user name.  Valid characters: A-Z, 0-9, \x20  |  |  |  |
| 39000   | >Pad1   | U     | 1   | 311 | Fixed String | not used   |  |  |  |

| Tag   | Field Name                | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------|-------|-----|-----|--------------|---|
| 25180 | >TESEnrichment-<br>RuleID | N     | 4   | 312 | unsigned int | Enrichment Rule ID for TES trades (to be used only in case of Auto Approval)  |
| 54    | >Side                     | Y     | 1   | 316 | unsigned int | Side of the TES trade.  Value Description  1 Buy  2 Sell  |
| 1840  | >TradeAllocStatus         | Y     | 1   | 317 | unsigned int | Status of an allocation in a T7 Entry Service trade.  Value Description  1 Pending  2 Approved  3 Auto Approved  4 Uploaded  5 Canceled  6 Pending Execution  7 Pending Reversal  8 Side Approved Reversal  9 Reversed  10 Cancelled Reversal |
| 1815  | >TradingCapacity          | Y     | 1   | 318 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker                           |
| 77    | >PositionEffect           | Y     | 1   | 319 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close O Open  |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 23002 | >OrderAttribute-<br>LiquidityProvision             | N     | 1   | 320 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision  |
| 25124 | >ExecutingTrader-<br>Qualifier                     | N     | 1   | 321 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person  |
| 21222 | >PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 322 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person |
| 23003 | >OrderAttributeRisk-Reduction                      | N     | 1   | 323 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description               |

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| Tag   | Field Name          | Req'd | Len | Ofs | Data Type     | Description  |
|-------|---------------------|-------|-----|-----|---------------|--|
| 1724  | >OrderOrigination   | N     | 1   | 324 | unsigned int  | MiFID field: Field to indicate order                                 |
|       |                     |       |     |     |               | received from a direct access or spon-<br>sored access customer      |
|       |                     |       |     |     |               |  |
|       |                     |       |     |     |               | Value Description  |
|       |                     |       |     |     |               | Order received from a direct   |
|       |                     |       |     |     |               | access customer  |
| 1     | >Account            | N     | 2   | 325 | Fixed String  | Accounts to book trades and keep po-                                 |
|       |                     |       |     |     | J             | sitions on.  |
|       |                     |       |     |     |               | Valid characters: 1-9, \x41, \x47,                                   |
|       |                     |       |     |     |               | \x49, \x4D, \x50, \x52   |
| 20038 | >PartyIDPosition-   | N     | 32  | 327 | Fixed String  | 'Flexible Account' information.                                      |
| 20030 | Account             | IN    | 32  | 321 | Tixed String  | Valid characters: \x20, \x30-\x39,                                   |
|       |                     |       |     |     |               | \x41-\x5A  |
|       | >PartyIDTakeUp-     |       |     |     |               | , ,  |
| 20096 | TradingFirm         | N     | 5   | 359 | Fixed String  | Take-up Member Short Name.   |
|       | -                   |       |     |     |               | Valid characters: A-Z, 0-9, \x20                                     |
| 25007 | >FreeText1          | N     | 12  | 364 | Fixed String  | First free-format text field for trader                              |
|       |                     |       |     |     |               | specific or customer-related com-                                    |
|       |                     |       |     |     |               | ments  |
|       |                     |       |     |     |               | Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41- |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25008 | >FreeText2          | N     | 12  | 376 | Fixed String  | Second free-format text field for                                    |
| 25000 | >TTCCTCX12          | ''    |     | 0.0 | r ixed String | trader specific or customer-related                                  |
|       |                     |       |     |     |               | comments   |
|       |                     |       |     |     |               | Valid characters: \x20, \x23-\x25,                                   |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25009 | >FreeText3          | N     | 12  | 388 | Fixed String  | Third free-format text field for trader-                             |
|       |                     |       |     |     |               | specific or customer-related com-                                    |
|       |                     |       |     |     |               | ments.   |
|       |                     |       |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ ,                             |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E  |
| 20013 | >PartyIDOrder-      | N     | 7   | 400 | Fixed String  | External Member ID.  |
|       | OriginationFirm     |       |     |     | 3             | Valid characters: A-Z, 0-9, \x20                                     |
| 20032 | >PartyIDBeneficiary | N     | 9   | 407 | Fixed String  | Final Beneficiary  |
|       |                     |       |     |     |               | Valid characters: A-Z, 0-9, \x20                                     |
| 20075 | >PartyIDLocationID  | N     | 2   | 416 | Fixed String  | Country code. Will be set to "XX" for                                |
|       |                     |       |     |     |               | non-capital letters.   |
|       |                     |       |     |     |               | Valid characters: \x01-\x7E  |

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| Tag   | Field Name                             | Req'd      | Len   | Ofs     | Data Type                  | Description  |
|---|--|------------|-------|---------|----------------------------|--|
| 2404  | >CustOrderHandling-<br>Inst            | N          | 20    | 418     | Fixed String  Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values  This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, |
| 20001   | D 14 4                                 |            |       | 400     | F: 1.C. :                  | \x7D, \x7E   |
|   | >Pad1_1                                | U ality: 0 | 20 P  | 439     | Fixed String               | not used   |
| 602   | strmntLegGrp> Cardin<br>>LegSecurityID | Y          | 8     | 0       | signed int                 | Instrument identifier of the leg security.   |
| 566   | >LegPrice                              | Y          | 8     | 8       | PriceType                  | User provided leg trade price (not for underlying leg).  |
| 687   | 1                                      | N          | 8     | 16      | Qty                        | Quantity for leg of a multileg   |
| <instr< td=""><td>rumentEventGrp&gt; Cardii</td><td>nality: 0</td><td>-2, R</td><td>ecord o</td><td></td><td></td></instr<> | rumentEventGrp> Cardii                 | nality: 0  | -2, R | ecord o |                            |  |
| 866   | >EventDate                             | Y          | 4     | 0       | LocalMktDate               | Date of event. To be set for TrdType (12) Exchange for Swap [mandatory].   |

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| Tag    | Field Name                     | Req'd    | Len         | Ofs        | Data Type        | Description                           |
|--------|--------------------------------|----------|-------------|------------|------------------|---------------------------------------|
| 865    | >EventType                     | Y        | 1           | 4          | unsigned int     | Identifier for an Instrument Event    |
|        |                                |          |             |            |                  | Value Description                     |
|        |                                |          |             |            |                  | 8 Swap Start Date                     |
|        |                                |          |             |            |                  | 9 Swap End Date                       |
| 20020  | > D- 12                        | U        | 2           | Е          | Fixed String     | not used                              |
|        | >Pad3<br>umentAttributeGrp> Ca |          | 3           | 5<br>Posco | Fixed String     | not used                              |
|        | >InstrAttribType               | Y        | 7. 0-0<br>1 | 0          | unsigned int     | Code to represent the type of instru- |
| 071    | / / mstrAttrib rype            | '        | _           |            | unsigned int     | ment attribute.                       |
|        |                                |          |             |            |                  | To be set for TrdType (12) Ex-        |
|        |                                |          |             |            |                  | change for Swap[Swap, Cus-            |
|        |                                |          |             |            |                  | tomer_1, Swap_Customer_2              |
|        |                                |          |             |            |                  | Variable_Rate, Offset_to-             |
|        |                                |          |             |            |                  | the_variable_coupon_rate: op-         |
|        |                                |          |             |            |                  | tional], (1001) EFP-Fin Trade         |
|        |                                |          |             |            |                  | [Coupon_Rate: optional]and            |
|        |                                |          |             |            |                  | (1002) EFP-Index Futures              |
|        |                                |          |             |            |                  | Trade[Cash_Basket_Reference:          |
|        |                                |          |             |            |                  | mandatory].                           |
|        |                                |          |             |            |                  | Value Description                     |
|        |                                |          |             |            |                  | 5 Variable rate                       |
|        |                                |          |             |            |                  | 100 Coupon rate                       |
|        |                                |          |             |            |                  | Offset to the variable coupon         |
|        |                                |          |             |            |                  | rate                                  |
|        |                                |          |             |            |                  | 102 Swap Customer 1                   |
|        |                                |          |             |            |                  | 103 Swap Customer 2                   |
|        |                                |          |             |            |                  | 104 Cash Basket Reference             |
| 872    | >InstrAttribValue              | Y        | 32          | 1          | Fixed String     | Attribute value appropriate to the    |
|        |                                |          |             |            | 3                | InstrAttribType field.                |
|        |                                |          |             |            |                  | To be set for TrdTyp (12) Exchange    |
|        |                                |          |             |            |                  | for Swap [optional], (1001) EFP-Fin   |
|        |                                |          |             |            |                  | Trade [optional] and (1002) EFP-      |
|        |                                |          |             |            |                  | Index Futures Trade [mandatory].      |
|        |                                |          |             |            |                  | Valid characters: \x01-\x7E           |
|        | >Pad7                          | U        | 7           | 33         | Fixed String     | not used                              |
| < Unde | erlyingStipGrp> Cardina        | lity: 0- | 1, Rec      | ord co     | unter: NoUnderly | vingStips                             |

| Tag   | Field Name           | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|----------------------|-------|-----|-----|--------------|--|
| 889   | >UnderlyingStipValue | Υ     | 32  | 0   | Fixed String | Value of stipulation. In case of cupon |
|       |                      |       |     |     |              | frequency , fill the field with cupon  |
|       |                      |       |     |     |              | frequency value.                       |
|       |                      |       |     |     |              | To be set for TrdType (12) Exchange    |
|       |                      |       |     |     |              | for Swap [optional] and (1001) EFP-    |
|       |                      |       |     |     |              | Fin Trade [optional].                  |
|       |                      |       |     |     |              | Valid characters: \x01-\x7E            |
| 888   | >UnderlyingStipType  | Υ     | 7   | 32  | Fixed String | Type of stipulation. e.g. to denote    |
|       |                      |       |     |     |              | coupon frequency.                      |
|       |                      |       |     |     |              | Pay_Frequency to be set for TrdType    |
|       |                      |       |     |     |              | (12) Exchange for Swap [optional] and  |
|       |                      |       |     |     |              | (1001) EFP-Fin Trade [optional].       |
|       |                      |       |     |     |              | Value Description                      |
|       |                      |       |     |     |              | PAYFREQ Pay_Frequency                  |
|       |                      |       |     |     |              |  |
| 39000 | >Pad1                | U     | 1   | 39  | Fixed String | not used                               |

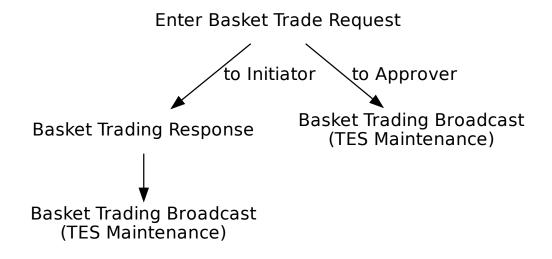
| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

Build 111.470.1.ga-111004071-18

## 14 Basket Trading

#### 14.1 Enter Basket Trade Request

This message is sent to the service "T7 Entry".



| Tag  | Field Name                          | Req'd | Len | Ofs | Data Type      | Description                            |  |  |  |  |  |
|--|-------------------------------------|-------|-----|-----|----------------|--|--|--|--|--|--|
| < Messa  | <messageheaderin></messageheaderin> |       |     |     |                |  |  |  |  |  |  |
| 9  | BodyLen                             | Υ     | 4   | 0   | unsigned int   | Number of bytes for the message, in-   |  |  |  |  |  |
|  |                                     |       |     |     |                | cluding this field.                    |  |  |  |  |  |
| 28500  | TemplateID                          | Y     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-    |  |  |  |  |  |
|  |                                     |       |     |     |                | sage layout. Value: 10620 (Trade-      |  |  |  |  |  |
|  |                                     |       |     |     |                | MatchReport,MsgType=DC)                |  |  |  |  |  |
| 25028  | NetworkMsgID                        | U     | 8   | 6   | Fixed String   | not used                               |  |  |  |  |  |
| 39020  | Pad2                                | U     | 2   | 14  | Fixed String   | not used                               |  |  |  |  |  |
| <reque< td=""><td colspan="10"><requestheader></requestheader></td></reque<> | <requestheader></requestheader>     |       |     |     |                |  |  |  |  |  |  |
| 34   | MsgSeqNum                           | Υ     | 4   | 16  | unsigned int   | Message sequence number used by the    |  |  |  |  |  |
|  |                                     |       |     |     |                | participant for requests sent to the   |  |  |  |  |  |
|  |                                     |       |     |     |                | gateway.                               |  |  |  |  |  |
| 50   | SenderSubID                         | Υ     | 4   | 20  | unsigned int   | User ID.                               |  |  |  |  |  |
| < Messa  | geBody>                             |       |     |     |                |  |  |  |  |  |  |
| 1300   | MarketSegmentID                     | Y     | 4   | 24  | signed int     | Product identifier.                    |  |  |  |  |  |
| 200  | MaturityMonthYear                   | Y     | 4   | 28  | LocalMonthYear | Month year code for expiry YYYYMM      |  |  |  |  |  |
| 28899  | BasketProfileID                     | N     | 4   | 32  | unsigned int   | ID of the Basket profile, applicable   |  |  |  |  |  |
|  |                                     |       |     |     |                | only for Basket of Equity Total Return |  |  |  |  |  |
|  |                                     |       |     |     |                | Futures(TrdType(828)=1010)             |  |  |  |  |  |

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| Tag  | Field Name             | Req'd     | Len      | Ofs   | Data Type               | Description                                    |
|--|------------------------|-----------|----------|-------|-------------------------|--|
| 828  | TrdType                | Υ         | 2        | 36    | unsigned int            | Type of Basket trade.                          |
|  |                        |           |          |       |                         | Value Description                              |
|  |                        |           |          |       |                         | Basket of Equity Total Re-                     |
|  |                        |           |          |       |                         | 1010 turn Futures                              |
|  |                        |           |          |       |                         | 1011 Equity Bespoke Baskets                    |
|  |                        |           |          |       |                         |  |
| 25169  |                        | Y         | 2        | 38    | Counter                 | Number of trade match sides                    |
| 856  | TradeReportType        | Y         | 1        | 40    | unsigned int            | Type of Trade Report                           |
|  |                        |           |          |       |                         | Value Description                              |
|  |                        |           |          |       |                         | 0 Submit                                       |
|  | BasketTradeReport-     |           |          |       |                         |  |
| 25173  | Туре                   | Y         | 1        | 41    | unsigned int            | Basket operation                               |
|  | 1,7,00                 |           |          |       |                         | Value Description                              |
|  |                        |           |          |       |                         | 0 Submit                                       |
|  |                        |           |          |       |                         |  |
| 25165  | NoBasketRootParty-     | Y         | 1        | 42    | Counter                 | Number of Basket Root Parties                  |
| 1000   | Grps                   | Y         | 1        | 42    | Countar                 | Number of instrument match sides               |
| 1889<br>31091  |                        | N         | 1        | 43    | Counter<br>unsigned int |  |
| 31091  | BasketAnonymity        | IN        | 1        | 44    | unsigned int            | Used to indicate anonymized trades in baskets. |
|  |                        |           |          |       |                         | Value Description                              |
|  |                        |           |          |       |                         | 0 No   |
|  |                        |           |          |       |                         | 1 Yes  |
|  |                        |           |          |       |                         |  |
| 25168  | BasketTradeReport-     | N         | 20       | 45    | Fixed String            | User defined text message field                |
| 25100  | Text                   | 14        | 20       | 45    | Tixed String            | Valid characters: \x01-\x7E                    |
| 571  | TradeReportID          | N         | 20       | 65    | Fixed String            | User defined transaction ID. Part of           |
|  | •                      |           |          |       | 9                       | the TES response and TES broadcast.            |
|  |                        |           |          |       |                         | Valid characters: \x01-\x7E                    |
| 39030  | Pad3                   | U         | 3        | 85    | Fixed String            | not used                                       |
| <bask< td=""><td>ketRootPartyGrp&gt; Cardi</td><td>nality: 1</td><td>! - 2, R</td><td>ecord</td><td>counter: NoBask</td><td>etRootPartyGrps</td></bask<> | ketRootPartyGrp> Cardi | nality: 1 | ! - 2, R | ecord | counter: NoBask         | etRootPartyGrps                                |
| 1122   | >RootPartySub-         | Y         | 2        | 88    | unsigned int            | RootParty sub-type                             |
|  | IDType                 |           |          |       | Ŭ                       | Value Description                              |
|  |                        |           |          |       |                         | 4001 Buyer                                     |
|  |                        |           |          |       |                         | 4002 Seller                                    |
|  |                        |           |          |       |                         | 3 3 3  |
| 22417  | >RootPartyContra-      | Y         | 5        | 90    | Fixed String            | The identifier of the member counter-          |
| 22711  | Firm                   | '         | ,        |       | i incu Juning           | party institution.                             |
|  |                        |           |          |       |                         | Valid characters: A-Z, 0-9, \x20               |
|  | I                      |           |          |       |                         | ,        |

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| Tag   | Field Name                    | Req'd     | Len     | Ofs     | Data Type         | Description   |
|---|-------------------------------|-----------|---------|---------|-------------------|---|
| 22437   | >RootPartyContra-<br>Trader   | Y         | 6       | 95      | Fixed String      | The identifier of the trader counterparty.  Valid characters: A-Z, 0-9, \x20  |
| 26162   | >BasketSideTrade-<br>ReportID | N         | 20      | 101     | Fixed String      | User defined Basket trade ID  Valid characters: \x01-\x7E   |
| 39070   | >Pad7                         | U         | 7       | 121     | Fixed String      | not used  |
| <instr< td=""><td>mtMatchSideGrp&gt; Card</td><td>linality:</td><td>1 - 199</td><td>9, Reco</td><td>ord counter: NoIn</td><td>strmtMatchSides</td></instr<> | mtMatchSideGrp> Card          | linality: | 1 - 199 | 9, Reco | ord counter: NoIn | strmtMatchSides   |
| 48  | >SecurityID                   | Y         | 8       | 0       | signed int        | Instrument identifier.  |
| 31  | >LastPx                       | Y         | 8       | 8       | PriceType         | Price of this fill.   |
| 483   | >TransBkdTime                 | N         | 8       | 16      | UTCTimestamp      | Time of Commencement, the time when an Off-Book trade was concluded outside the T7 System. There is a market specific validation of Time of Commencement by the T7 backend. |
| 2589  | >RelatedClosePrice            | N         | 8       | 24      | floatDecimal6     | User defined index price.  To be set for TrdType (1004) Trade at Market [mandatory].  |
| 1596  | >ClearingTradePrice           | U         | 8       | 32      | PriceType         | not used  |
| 2489  | >PackageID                    | U         | 4       | 40      | unsigned int      | not used  |
| 1898  | >SideMarket-<br>SegmentID     | Y         | 4       | 44      | signed int        | Product ID  |
| 1008  | >SideTrdSubTyp                | Y         | 2       | 48      | unsigned int      | Sub-type of a trade type  Value Description  2001 Block Trade  2004 Trade at Market   |
| 1227  |                               | Y         | 1       | 50      | unsigned int      | This field qualifies an instrument type on T7.  Value Description  1 Simple instrument  |
| 1390  | >TradePublish-<br>Indicator   | Y         | 1       | 51      | unsigned int      | Indicates if a trade should be reported via the market reporting service.  Value Description  0 Do Not Publish Trade  1 Publish Trade                                       |
| 25166   | >InstrmtMatchSideID           | Y         | 1       | 52      | unsigned int      | ID to map element of InstrmtMatch-SideGrp and BasketSideAllocGrp  |

| Tag  | Field Name              | Req'd    | Len    | Ofs    | Data Type        | Description                           |
|--|-------------------------|----------|--------|--------|------------------|---------------------------------------|
| 25163  | >EffectOnBasket         | N        | 1      | 53     | unsigned int     | Transaction effect on a basket        |
|  |                         |          |        |        |                  | Value Description                     |
|  |                         |          |        |        |                  | 1 Add volume                          |
|  |                         |          |        |        |                  | 2 Remove volume                       |
|  |                         |          |        |        |                  |                                       |
| 28583  | >TradeReportText        | N        | 20     | 54     | Fixed String     | User defined TES ID.                  |
| 00000  |                         |          |        |        | F: 10:1          | Valid characters: \x01-\x7E           |
|  | >Pad6                   | U        | 6      | 74     | Fixed String     | not used                              |
| <bask< td=""><td>etSideAllocGrp&gt; Cardin</td><td>ality: 1</td><td>- 398,</td><td>Record</td><td>d counter: NoBas</td><td></td></bask<> | etSideAllocGrp> Cardin  | ality: 1 | - 398, | Record | d counter: NoBas |                                       |
| 80   | >AllocQty               | Y        | 8      | 0      | Qty              | Quantity of the particular trade side |
|  |                         |          |        |        |                  | in the TES trade.                     |
| 467  | >IndividualAllocID      | U        | 4      | 8      | unsigned int     | not used                              |
| 803  | > Party SubID Type      | Y        | 2      | 12     | unsigned int     | Party sub-type                        |
|  |                         |          |        |        |                  | Value Description                     |
|  |                         |          |        |        |                  | 14001 Buyer                           |
|  |                         |          |        |        |                  | 14002 Seller                          |
|  |                         |          |        |        |                  |                                       |
| 54   | >Side                   | Y        | 1      | 14     | unsigned int     | Side of the order.                    |
|  |                         |          |        |        |                  | Value Description                     |
|  |                         |          |        |        |                  | 1 Buy                                 |
|  |                         |          |        |        |                  | 2 Sell                                |
|  |                         |          |        |        |                  |                                       |
| 25166  | > Instrmt Match Side ID | Y        | 1      | 15     | unsigned int     | ID to map element of InstrmtMatch-    |
|  |                         |          |        |        |                  | SideGrp and BasketSideAllocGrp        |
| 1840   | >TradeAllocStatus       | U        | 1      | 16     | unsigned int     | not used                              |
| 22001  | >PartyExecutingFirm     | Y        | 5      | 17     | Fixed String     | Owning business unit name.            |
|  |                         |          |        |        |                  | Valid characters: A-Z, 0-9, \x20      |
| 22012  | >PartyExecuting-        | Y        | 6      | 22     | Fixed String     | Owning user name.                     |
|  | Trader                  | '        | J      |        |                  | Valid characters: A-Z, 0-9, \x20      |
| 39040  | >Pad4                   | U        | 4      | 28     | Fixed String     | not used                              |

| Deutsche Börse Group's T7 Release 11.1 |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Enhanced Trading Interface             |  |  |  |  |  |  |  |
| Derivatives Message Reference          |  |  |  |  |  |  |  |

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# 14.2 Basket Trading Response

| Tag  | Field Name                        | Req'd | Len | Ofs | Data Type    | Description                           |  |  |  |  |
|--|-----------------------------------|-------|-----|-----|--------------|---------------------------------------|--|--|--|--|
| < Messa  | geHeaderOut>                      |       |     |     |              |                                       |  |  |  |  |
| 9  | BodyLen                           | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |  |  |
|  |                                   |       |     |     |              | cluding this field.                   |  |  |  |  |
| 28500  | TemplateID                        | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |  |  |
|  |                                   |       |     |     |              | sage layout. Value: 10624 (Trade-     |  |  |  |  |
|  |                                   |       |     |     |              | MatchReportAck,MsgType=DD)            |  |  |  |  |
| 39020  | Pad2                              | U     | 2   | 6   | Fixed String | not used                              |  |  |  |  |
| <respo< td=""><td colspan="10"><responseheader></responseheader></td></respo<> | <responseheader></responseheader> |       |     |     |              |                                       |  |  |  |  |
| 5979   | RequestTime                       | Y     | 8   | 8   | UTCTimestamp | Gateway request in timestamp.         |  |  |  |  |
| 52   | SendingTime                       | Y     | 8   | 16  | UTCTimestamp | Outgoing timestamp; filled always by  |  |  |  |  |
|  |                                   |       |     |     |              | the gateway                           |  |  |  |  |
| 34   | MsgSeqNum                         | Y     | 4   | 24  | unsigned int | Message sequence number used by the   |  |  |  |  |
|  |                                   |       |     |     |              | participant for requests sent to the  |  |  |  |  |
|  |                                   |       |     |     |              | gateway.                              |  |  |  |  |
| 39040  | Pad4                              | U     | 4   | 28  | Fixed String | not used                              |  |  |  |  |
| < Messa  | geBody>                           |       |     |     |              |                                       |  |  |  |  |
| 25167  | BasketExecID                      | Y     | 4   | 32  | unsigned int | System generated transaction ID for a |  |  |  |  |
|  |                                   |       |     |     |              | Basket transaction                    |  |  |  |  |
| 571  | TradeReportID                     | N     | 20  | 36  | Fixed String | User defined transaction ID. Part of  |  |  |  |  |
|  |                                   |       |     |     |              | the TES response and TES broadcast.   |  |  |  |  |
|  |                                   |       |     |     |              | Valid characters: \x01-\x7E           |  |  |  |  |

| Deutsche Börse Group's T7 Release 11.1 |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| Enhanced Trading Interface             |  |  |  |  |  |  |  |  |
| Derivatives Message Reference          |  |  |  |  |  |  |  |  |

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# 14.3 Basket Trading Broadcast

| Tag  | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |  |  |  |  |  |
|--|---------------------------------------|-------|-----|-----|--------------|---|--|--|--|--|--|
| <messa< td=""><td colspan="11"><messageheaderout></messageheaderout></td></messa<> | <messageheaderout></messageheaderout> |       |     |     |              |   |  |  |  |  |  |
| 9  | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |  |  |  |  |
| 28500  | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10625$ (Trade-MatchReport, MsgType = DC)   |  |  |  |  |  |
| 39020  | Pad2                                  | U     | 2   | 6   | Fixed String | not used  |  |  |  |  |  |
| <rbch< td=""><td colspan="11"><rbcheader></rbcheader></td></rbch<>                 | <rbcheader></rbcheader>               |       |     |     |              |   |  |  |  |  |  |
| 52   | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |  |  |  |  |  |
| 1181   | ApplSeqNum                            | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |  |  |  |  |  |
| 28727  | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |  |  |  |  |  |
| 5948   | PartitionID                           | Y     | 2   | 28  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |  |  |  |  |  |
| 1352   | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |  |  |  |  |  |
| 1180   | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  7 TES Maintenance  |  |  |  |  |  |
| 893  | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |  |  |  |  |
| 39070  | Pad7                                  | U     | 7   | 33  | Fixed String | not used  |  |  |  |  |  |
| < Messa  | geBody>                               |       |     |     |              |   |  |  |  |  |  |
| 25161  | BasketTrdMatchID                      | Y     | 8   | 40  | unsigned int | System defined Basket ID  |  |  |  |  |  |
| 60   | TransactTime                          | Y     | 8   | 48  | UTCTimestamp | Transaction timestamp.  |  |  |  |  |  |

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| Tag   | Field Name                    | Req'd | Len | Ofs | Data Type      | Description                            |
|-------|-------------------------------|-------|-----|-----|----------------|--|
| 25167 | BasketExecID                  | Υ     | 4   | 56  | unsigned int   | System generated transaction ID for a  |
|       |                               |       |     |     |                | Basket transaction                     |
| 1300  | MarketSegmentID               | Υ     | 4   | 60  | signed int     | Product identifier.                    |
| 200   | MaturityMonthYear             | Υ     | 4   | 64  | LocalMonthYear | Month year code for expiry YYYYMM      |
| 28899 | BasketProfileID               | N     | 4   | 68  | unsigned int   | ID of the Basket profile, applicable   |
|       |                               |       |     |     |                | only for Basket of Equity Total Return |
|       |                               |       |     |     |                | Futures(TrdType(828)=1010)             |
| 25169 | NoBasketSideAlloc             | Υ     | 2   | 72  | Counter        | Number of trade match sides            |
| 828   | TrdType                       | Y     | 2   | 74  | unsigned int   | Type of Basket trade.                  |
|       |                               |       |     |     |                | Value Description                      |
|       |                               |       |     |     |                | 1010 Basket of Equity Total Re-        |
|       |                               |       |     |     |                | turn Futures                           |
|       |                               |       |     |     |                | 1011 Equity Bespoke Baskets            |
| 856   | TradeReportType               | Y     | 1   | 76  | unsigned int   | Type of Trade Report                   |
|       | . ,,                          |       |     |     |                | Value Description                      |
|       |                               |       |     |     |                | 0 Submit                               |
|       |                               |       |     |     |                | 5 No/Was (Replaced)                    |
|       |                               |       |     |     |                | (Neplacea)                             |
| 25173 | BasketTradeReport-            | Υ     | 1   | 77  | unsigned int   | Basket operation                       |
|       | Туре                          |       | _   |     | anoignou me    |  |
|       |                               |       |     |     |                | Value Description  0 Submit            |
|       |                               |       |     |     |                | 4 Addendum                             |
|       |                               |       |     |     |                | 5 No/Was (Substitute)                  |
|       |                               |       |     |     |                | 3 No/ Was (Substitute)                 |
| 1011  | MessageEventSource            | Υ     | 1   | 78  | char           | Receiver of a message.                 |
|       |                               |       |     |     |                | Value Description                      |
|       |                               |       |     |     |                | I Broadcast to initiator               |
|       |                               |       |     |     |                | A Broadcast to approver                |
|       | N. D. J. D. J. D. J.          |       |     |     |                |  |
| 25171 | NoBasketRootParty-            | Υ     | 1   | 79  | Counter        | Number of Basket Root Parties          |
| 1889  | GrpsBC<br>NoInstrmtMatchSides | Y     | 1   | 80  | Counter        | Number of instrument match sides       |
| 31091 |                               | N     | 1   | 81  | unsigned int   | Used to indicate anonymized trades in  |
| 31031 | Dasket monymity               |       | _   |     | ansigned int   | baskets.                               |
|       |                               |       |     |     |                | Value Description                      |
|       |                               |       |     |     |                | 0 No                                   |
|       |                               |       |     |     |                | 1 Yes                                  |
|       |                               |       |     |     |                |  |
| 25168 | BasketTradeReport-            | N     | 20  | 82  | Fixed String   | User defined text message field        |
| 23100 | Text                          | IN    |     | 02  | I INCU JUING   | Valid characters: \x01-\x7E            |
|       |                               |       |     |     |                | Valid Cital actors. \AUT-\AIL          |

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| Tag   | Field Name               | Req'd                                 | Len     | Ofs     | Data Type            | Description                             |
|---|--------------------------|---------------------------------------|---------|---------|----------------------|---|
| 571   | TradeReportID            | N                                     | 20      | 102     | Fixed String         | User defined transaction ID. Part of    |
|   |                          |                                       |         |         |                      | the TES response and TES broadcast.     |
|   |                          |                                       |         |         |                      | Valid characters: \x01-\x7E             |
| 39060   | Pad6                     | U                                     | 6       | 122     | Fixed String         | not used                                |
| <bask< td=""><td>ketRootPartyGrp&gt; Cardi</td><td>nality: 2</td><td>?-3, R</td><td>ecord</td><td>counter: NoBaske</td><td>tRootPartyGrpsBC</td></bask<>    | ketRootPartyGrp> Cardi   | nality: 2                             | ?-3, R  | ecord   | counter: NoBaske     | tRootPartyGrpsBC                        |
| 1122  | >RootPartySub-<br>IDType | Y                                     | 2       | 128     | unsigned int         | RootParty sub-type                      |
|   | Потурс                   |                                       |         |         |                      | Value Description                       |
|   |                          |                                       |         |         |                      | 4001 Buyer                              |
|   |                          |                                       |         |         |                      | 4002 Seller                             |
|   |                          |                                       |         |         |                      | 4003 Broker                             |
|   |                          |                                       |         |         |                      |   |
| 22417   | >RootPartyContra-        | Y                                     | 5       | 130     | Fixed String         | The identifier of the member counter-   |
|   | Firm                     |                                       |         |         |                      | party institution.                      |
|   |                          |                                       |         |         |                      | Valid characters: A-Z, 0-9, \x20        |
| 20427   | >RootPartyContra-        | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |         | 105     | F: 1.C. :            |   |
| 22437   | Trader                   | Y                                     | 6       | 135     | Fixed String         | The identifier of the trader counter-   |
|   |                          |                                       |         |         |                      | party.                                  |
|   | >BasketSideTrade-        |                                       |         |         |                      | Valid characters: A-Z, 0-9, \x20        |
| 26162   |                          | N                                     | 20      | 141     | Fixed String         | User defined Basket trade ID            |
|   | ReportID                 |                                       |         |         |                      | Valid characters: \x01-\x7E             |
| 39070   | >Pad7                    | U                                     | 7       | 161     | Fixed String         | not used                                |
| <instr< td=""><td>mtMatchSideGrp&gt; Card</td><td>linality:</td><td>1 - 199</td><td>9, Reco</td><td>ord counter: NoIn</td><td>strmtMatchSides</td></instr<> | mtMatchSideGrp> Card     | linality:                             | 1 - 199 | 9, Reco | ord counter: NoIn    | strmtMatchSides                         |
| 48  | >SecurityID              | Y                                     | 8       | 0       | signed int           | Instrument identifier.                  |
| 31  | >LastPx                  | Y                                     | 8       | 8       | PriceType            | Price of this fill.                     |
| 483   | >TransBkdTime            | N                                     | 8       | 16      | ${\sf UTCTimestamp}$ | Time of Commencement, the time          |
|   |                          |                                       |         |         |                      | when an Off-Book trade was con-         |
|   |                          |                                       |         |         |                      | cluded outside the T7 System. There     |
|   |                          |                                       |         |         |                      | is a market specific validation of Time |
|   |                          |                                       |         |         |                      | of Commencement by the T7 back-         |
|   |                          |                                       |         |         |                      | end.                                    |
| 2589  | >RelatedClosePrice       | N                                     | 8       | 24      | floatDecimal6        | User defined index price.               |
|   |                          |                                       |         |         |                      | To be set for TrdType (1004) Trade      |
|   |                          |                                       |         |         | <u> </u>             | at Market [mandatory].                  |
| 1596  | >ClearingTradePrice      | N                                     | 8       | 32      | PriceType            | Price in clearing notation which can    |
|   |                          |                                       |         |         |                      | be preliminary or final depending on    |
| 2:25  | <u> </u>                 |                                       |         |         |                      | TradeReportType (856).                  |
| 2489  | >PackageID               | Y                                     | 4       | 40      | unsigned int         | Identifier for a T7 Entry Service trade |
|   | S C'LIM L                |                                       |         |         |                      | i.e. TES trade ID.                      |
| 1898  | >SideMarket-             | Y                                     | 4       | 44      | signed int           | Product ID                              |
|   | SegmentID                |                                       |         |         |                      |   |

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| Tag   | Field Name                  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|-----------------------------|-------|-----|-----|--------------|---|
| 1008  | >SideTrdSubTyp              | Y     | 2   | 48  | unsigned int | Sub-type of a trade type  |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 2001 Block Trade  |
|       |                             |       |     |     |              | 2004 Trade at Market  |
| 1227  | >ProductComplex             | Y     | 1   | 50  | unsigned int | This field qualifies an instrument type on T7.                            |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 1 Simple instrument   |
| 1390  | >TradePublish-<br>Indicator | Y     | 1   | 51  | unsigned int | Indicates if a trade should be reported via the market reporting service. |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 0 Do Not Publish Trade  |
|       |                             |       |     |     |              | 1 Publish Trade   |
| 25166 | >InstrmtMatchSideID         | Y     | 1   | 52  | unsigned int | ID to map element of InstrmtMatch-  |
| 05162 | F O. D. I.                  | N.I.  | -1  | F.0 |              | SideGrp and BasketSideAllocGrp  |
| 25163 | >EffectOnBasket             | N     | 1   | 53  | unsigned int | Transaction effect on a basket  |
|       |                             |       |     |     |              | Value Description  1 Add volume   |
|       |                             |       |     |     |              | 1 Add volume 2 Remove volume  |
|       |                             |       |     |     |              | 2 Nemove volume   |
| 28583 | >TradeReportText            | N     | 20  | 54  | Fixed String | User defined TES ID.  |
|       |                             |       |     |     |              | Valid characters: \x01-\x7E   |
|       | >Pad6                       | U     | 6   | 74  | Fixed String | not used  |
|       | retSideAllocGrp> Cardin     |       |     |     |              |   |
| 80    | >AllocQty                   | Y     | 8   | 0   | Qty          | Quantity of the particular trade side in the TES trade.                   |
| 467   | >IndividualAllocID          | Y     | 4   | 8   | unsigned int | Unique identifier for a TES trade side.                                   |
| 803   |                             | Y     | 2   | 12  | unsigned int | Party sub-type  |
|       | , , , , , ,                 |       |     |     | Č            | Value Description   |
|       |                             |       |     |     |              | 14001 Buyer   |
|       |                             |       |     |     |              | 14002 Seller  |
|       |                             |       |     |     |              |   |
| 54    | >Side                       | Y     | 1   | 14  | unsigned int | Side of the order.  |
|       |                             |       |     |     |              | Value Description   |
|       |                             |       |     |     |              | 1 Buy   |
|       |                             |       |     |     |              | 2 Sell  |
|       |                             |       |     |     |              |   |

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|---------------------|-------|-----|-----|--------------|---------------------------------------|
| 25166 | >InstrmtMatchSideID | Y     | 1   | 15  | unsigned int | ID to map element of InstrmtMatch-    |
|       |                     |       |     |     |              | SideGrp and BasketSideAllocGrp        |
| 1840  | >TradeAllocStatus   | Y     | 1   | 16  | unsigned int | Status of an allocation in a T7 Entry |
|       |                     |       |     |     |              | Service trade.                        |
|       |                     |       |     |     |              | Value Description                     |
|       |                     |       |     |     |              | 1 Pending                             |
|       |                     |       |     |     |              | 2 Approved                            |
|       |                     |       |     |     |              | 3 Auto Approved                       |
|       |                     |       |     |     |              | 4 Uploaded                            |
|       |                     |       |     |     |              | 5 Canceled                            |
|       |                     |       |     |     |              | 6 Pending Execution                   |
|       |                     |       |     |     |              | 7 Pending Reversal                    |
|       |                     |       |     |     |              | 8 Side Approved Reversal              |
|       |                     |       |     |     |              | 9 Reversed                            |
|       |                     |       |     |     |              | 10 Cancelled Reversal                 |
|       |                     |       |     |     |              |                                       |
| 22001 | >PartyExecutingFirm | Y     | 5   | 17  | Fixed String | Owning business unit name.            |
|       |                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20      |
| 22012 | >PartyExecuting-    | Y     | 6   | 22  | Fixed String | Owning user name.                     |
|       | Trader              |       |     |     | J            | Valid characters: A-Z, 0-9, \x20      |
| 39040 | >Pad4               | U     | 4   | 28  | Fixed String | not used                              |

| Deutsche Börse Group's T7 Release 11.1 |
|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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# 14.4 Approve Basket Broadcast

| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description   |
|---|------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>     |       |     |     |              |   |
| 9   | BodyLen          | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500   | TemplateID       | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10627$ (Trade-MatchReport, MsgType = DC)   |
| 39020   | Pad2             | U     | 2   | 6   | Fixed String | not used  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>          |       |     |     |              |   |
| 52  | SendingTime      | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |
| 1181  | ApplSeqNum       | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |
| 28727   | ApplSubID        | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |
| 5948  | PartitionID      | Y     | 2   | 28  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 1352  | ApplResendFlag   | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |
| 1180  | ApplID           | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  7 TES Maintenance  |
| 893   | LastFragment     | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |
| 39070   | Pad7             | U     | 7   | 33  | Fixed String | not used  |
| < Messa   | geBody>          |       |     |     |              |   |
| 25161   | BasketTrdMatchID | Y     | 8   | 40  | unsigned int | System defined Basket ID  |
| 60  | TransactTime     | Y     | 8   | 48  | UTCTimestamp | Transaction timestamp.  |

| Tag   | Field Name          | Req'd    | Len | Ofs | Data Type     | Description  |
|-------|---------------------|----------|-----|-----|---------------|--|
| 25167 | BasketExecID        | Υ        | 4   | 56  | unsigned int  | System generated transaction ID for a              |
|       |                     |          |     |     |               | Basket transaction                                 |
| 1300  | MarketSegmentID     | Y        | 4   | 60  | signed int    | Product identifier.                                |
| 28899 | BasketProfileID     | N        | 4   | 64  | unsigned int  | ID of the Basket profile, applicable               |
|       |                     |          |     |     |               | only for Basket of Equity Total Return             |
|       |                     |          |     |     |               | Futures(TrdType(828)=1010)                         |
| 828   | TrdType             | Υ        | 2   | 68  | unsigned int  | Type of Basket trade.                              |
|       |                     |          |     |     |               | Value Description                                  |
|       |                     |          |     |     |               | 1010 Basket of Equity Total Re-                    |
|       |                     |          |     |     |               | turn Futures                                       |
|       |                     |          |     |     |               | 1011 Equity Bespoke Baskets                        |
| 25169 | NoBasketSideAlloc   | Y        | 2   | 70  | Counter       | Number of trade match sides                        |
|       | TradeReportType     | Y        | 1   | 72  | unsigned int  | Type of Trade Report                               |
|       | Traderreport Type   | <u> </u> | -   | '-  | ansigned int  |  |
|       |                     |          |     |     |               | Value Description                                  |
|       |                     |          |     |     |               | 2 Accept   |
| 05170 | BasketTradeReport-  |          | -   | 70  |               | B 1  |
| 25173 | Туре                | Y        | 1   | 73  | unsigned int  | Basket operation                                   |
|       |                     |          |     |     |               | Value Description                                  |
|       |                     |          |     |     |               | 0 Submit   |
|       |                     |          |     |     |               | 4 Addendum   |
|       |                     |          |     |     |               | 5 No/Was (Substitute)                              |
| 1011  | MessageEventSource  | Y        | 1   | 74  | char          | Receiver of a message.                             |
|       |                     |          |     |     |               | Value Description                                  |
|       |                     |          |     |     |               | A Broadcast to approver                            |
|       |                     |          |     |     |               | A Broadcast to approver                            |
| 25165 | NoBasketRootParty-  | V        | 1   | 75  | Counter       | Number of Bookst Book Booking                      |
| 25165 | Grps                | Y        | 1   | 75  | Counter       | Number of Basket Root Parties                      |
| 20007 | PartyIDEnteringFirm | Y        | 1   | 76  | unsigned int  | Entering Entity ID.                                |
|       |                     |          |     |     |               | Value Description                                  |
|       |                     |          |     |     |               | 1 Participant                                      |
|       |                     |          |     |     |               | 2 Market Supervision                               |
| 22026 | Down Entonic Tue de | Y        | 6   | 77  | Eived C+min = | The entering user                                  |
| 22036 | PartyEnteringTrader | Y        | 6   | 77  | Fixed String  | The entering user Valid characters: A-Z, 0-9, \x20 |
|       | BasketTradeReport-  |          |     |     |               | ,  |
| 25168 | Text                | N        | 20  | 83  | Fixed String  | User defined text message field                    |
|       |                     |          |     |     |               | Valid characters: \x01-\x7E                        |
| 571   | TradeReportID       | N        | 20  | 103 | Fixed String  | User defined transaction ID. Part of               |
|       |                     |          |     |     |               | the TES response and TES broadcast.                |
|       |                     |          |     |     |               | Valid characters: \x01-\x7E                        |

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| Tag   | Field Name                    | Req'd     | Len      | Ofs    | Data Type         | Description   |
|---|-------------------------------|-----------|----------|--------|-------------------|---|
| 39050   | Pad5                          | U         | 5        | 123    | Fixed String      | not used  |
| <bask< td=""><td>xetRootPartyGrp&gt; Cardi</td><td>nality: 1</td><td>1 - 2, R</td><td>Record</td><td>counter: NoBaske</td><td>tRootPartyGrps</td></bask<> | xetRootPartyGrp> Cardi        | nality: 1 | 1 - 2, R | Record | counter: NoBaske  | tRootPartyGrps  |
| 1122  | >RootPartySub-<br>IDType      | Y         | 2        | 128    | unsigned int      | RootParty sub-type  |
|   |                               |           |          |        |                   | Value Description   |
|   |                               |           |          |        |                   | 4001 Buyer  |
|   |                               |           |          |        |                   | 4002 Seller   |
|   |                               |           |          |        |                   | 4003 Broker   |
| 22417   | >RootPartyContra-<br>Firm     | Y         | 5        | 130    | Fixed String      | The identifier of the member counterparty institution.  Valid characters: A-Z, 0-9, \x20  |
| 22437   | >RootPartyContra-<br>Trader   | Y         | 6        | 135    | Fixed String      | The identifier of the trader counterparty.  Valid characters: A-Z, 0-9, \x20  |
| 26162   | >BasketSideTrade-<br>ReportID | N         | 20       | 141    | Fixed String      | User defined Basket trade ID  Valid characters: \x01-\x7E   |
| 39070   | >Pad7                         | U         | 7        | 161    | Fixed String      | not used  |
| <bask< td=""><td>xetSideAllocExtBCGrp&gt;</td><td>Cardina</td><td>lity: 1</td><td>- 398,</td><td>Record counter: I</td><td>NoBasketSideAlloc</td></bask<> | xetSideAllocExtBCGrp>         | Cardina   | lity: 1  | - 398, | Record counter: I | NoBasketSideAlloc   |
| 80  | >AllocQty                     | Y         | 8        | 0      | Qty               | Quantity of the particular trade side in the TES trade.   |
| 48  | >SecurityID                   | Υ         | 8        | 8      | signed int        | Instrument identifier.  |
| 31  | >LastPx                       | Υ         | 8        | 16     | PriceType         | Price of this fill.   |
| 483   |                               | N         | 8        | 24     | UTCTimestamp      | Time of Commencement, the time when an Off-Book trade was concluded outside the T7 System. There is a market specific validation of Time of Commencement by the T7 backend. |
| 2589  | >RelatedClosePrice            | N         | 8        | 32     | floatDecimal6     | User defined index price.  To be set for TrdType (1004) Trade at Market [mandatory].  |
| 2489  | >PackageID                    | Y         | 4        | 40     | unsigned int      | Identifier for a T7 Entry Service trade i.e. TES trade ID.  |
| 1898  | >SideMarket-<br>SegmentID     | Y         | 4        | 44     | signed int        | Product ID  |
| 70  | >AllocID                      | Υ         | 4        | 48     | unsigned int      | Unique identifier for a TES Trade side.   |

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| Tag   | Field Name        | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|-------------------|-------|-----|-----|--------------|---|
| 1008  | >SideTrdSubTyp    | Y     | 2   | 52  | unsigned int | Sub-type of a trade type                |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 2001 Block Trade                        |
|       |                   |       |     |     |              | 2004 Trade at Market                    |
|       |                   |       |     |     |              |   |
| 803   | >PartySubIDType   | Y     | 2   | 54  | unsigned int | Party sub-type                          |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 14001 Buyer                             |
|       |                   |       |     |     |              | 14002 Seller                            |
| F.4   | COL               | Y     |     | F.6 |              | C'I. CII I.                             |
| 54    | >Side             | Y     | 1   | 56  | unsigned int | Side of the order.                      |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 1 Buy                                   |
|       |                   |       |     |     |              | 2 Sell                                  |
| 77    | >PositionEffect   | Υ     | 1   | 57  | char         | Field is used for T7 position manage-   |
|       |                   |       |     |     |              | ment purposes and indicates whether     |
|       |                   |       |     |     |              | the order is submitted to open or close |
|       |                   |       |     |     |              | a position.                             |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | C Close                                 |
|       |                   |       |     |     |              | O Open                                  |
|       |                   |       |     |     |              |   |
| 25163 | >EffectOnBasket   | N     | 1   | 58  | unsigned int | Transaction effect on a basket          |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 1 Add volume                            |
|       |                   |       |     |     |              | 2 Remove volume                         |
| 1815  | >TradingCapacity  | Y     | 1   | 59  | unsigned int | This field designates if the trader is  |
|       | viaugeapasis      |       |     |     |              | acting in the capacity of agent, trad-  |
|       |                   |       |     |     |              | ing for its own account or acting as a  |
|       |                   |       |     |     |              | market maker.                           |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 1 Customer (Agency)                     |
|       |                   |       |     |     |              | 5 Principal (Proprietary)               |
|       |                   |       |     |     |              | 6 Market Maker                          |
| 10:5  |                   |       |     |     |              | 6                                       |
| 1840  | >TradeAllocStatus | Y     | 1   | 60  | unsigned int | Status of an allocation in a T7 Entry   |
|       |                   |       |     |     |              | Service trade.                          |
|       |                   |       |     |     |              | Value Description                       |
|       |                   |       |     |     |              | 2 Approved                              |
|       |                   |       |     |     |              |   |

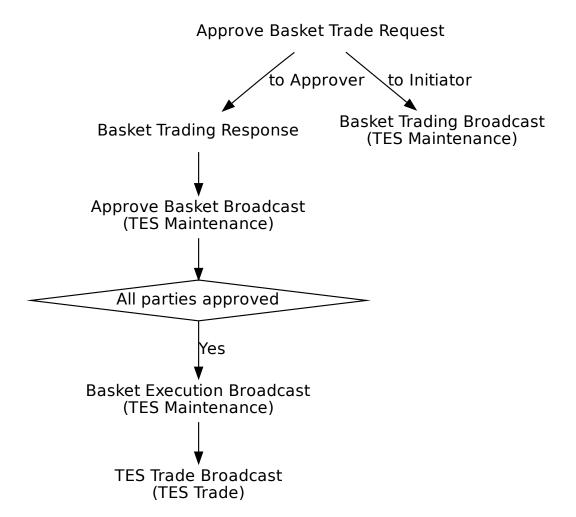
| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type      | Description  |
|-------|----------------------------|-------|-----|-----|----------------|--|
| 1227  | >ProductComplex            | Υ     | 1   | 61  | unsigned int   | This field qualifies an instrument type                              |
|       |                            |       |     |     |                | on T7.   |
|       |                            |       |     |     |                | Value Description  |
|       |                            |       |     |     |                | 1 Simple instrument  |
|       |                            |       |     |     |                |  |
| 1390  | >TradePublish-             | Y     | 1   | 62  | unsigned int   | Indicates if a trade should be reported                              |
| 1550  | Indicator                  | '     | _   | 02  | unsigned int   | via the market reporting service.                                    |
|       |                            |       |     |     |                |  |
|       |                            |       |     |     |                | Value Description  |
|       |                            |       |     |     |                | 0 Do Not Publish Trade   |
|       |                            |       |     |     |                | 1 Publish Trade  |
| 22001 | >PartyExecutingFirm        | Y     | 5   | 63  | Fixed String   | Owning business unit name.   |
| 22001 | > r arty Executing i i i i | '     | 3   |     | Tixed String   | Valid characters: A-Z, 0-9, \x20                                     |
|       | >PartyExecuting-           |       |     |     |                | ,  |
| 22012 | Trader                     | Y     | 6   | 68  | Fixed String   | Owning user name.  |
|       |                            |       |     |     |                | Valid characters: A-Z, 0-9, \x20                                     |
| 1     | >Account                   | N     | 2   | 74  | Fixed String   | Accounts to book trades and keep po-                                 |
|       |                            |       |     |     |                | sitions on.  |
|       |                            |       |     |     |                | Valid characters: 1-9, \x41, \x47,                                   |
| 05007 | F 7 .4                     | N.    | 10  | 7.0 | F: 1.C. :      | \x49, \x4D, \x50, \x52   |
| 25007 | >FreeText1                 | N     | 12  | 76  | Fixed String   | First free-format text field for trader                              |
|       |                            |       |     |     |                | specific or customer-related com-                                    |
|       |                            |       |     |     |                | ments  |
|       |                            |       |     |     |                | Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41- |
|       |                            |       |     |     |                | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25008 | >FreeText2                 | N     | 12  | 88  | Fixed String   | Second free-format text field for                                    |
| 23000 | >TTECTEXEZ                 |       | 12  |     | Tixed String   | trader specific or customer-related                                  |
|       |                            |       |     |     |                | comments   |
|       |                            |       |     |     |                | Valid characters: \x20, \x23-\x25,                                   |
|       |                            |       |     |     |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
|       |                            |       |     |     |                | \x5F, \x61-\x7B, \x7D, \x7E  |
| 25009 | >FreeText3                 | N     | 12  | 100 | Fixed String   | Third free-format text field for trader-                             |
|       |                            |       |     |     | _              | specific or customer-related com-                                    |
|       |                            |       |     |     |                | ments.   |
|       |                            |       |     |     |                | Valid characters: \x20, \x23-\x25,                                   |
|       |                            |       |     |     |                | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                    |
|       |                            |       |     |     |                | \x5F, \x61-\x7B, \x7D, \x7E  |
| 20096 | >PartyIDTakeUp-            | N     | 5   | 112 | Fixed String   | Take-up Member Short Name.   |
| 20090 | TradingFirm                | "     | ,   |     | i incu Julilig | Valid characters: A-Z, 0-9, \x20                                     |
|       | >PartyIDOrder-             |       |     |     |                | ì  |
| 20013 | OriginationFirm            | N     | 7   | 117 | Fixed String   | External Member ID.  |
|       | <b>3</b>                   |       |     |     |                | Valid characters: A-Z, 0-9, \x20                                     |

| Tag   | Field Name                   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|------------------------------|-------|-----|-----|--------------|--|
| 20032 | >PartyIDBeneficiary          | N     | 9   | 124 | Fixed String | Final Beneficiary  |
|       |                              |       |     |     |              | Valid characters: A-Z, 0-9, \x20   |
| 20038 | >PartyIDPosition-<br>Account | N     | 32  | 133 | Fixed String | 'Flexible Account' information.  Valid characters: \x20, \x30-\x39, \x41-\x5A  |
| 20075 | >PartyIDLocationID           | N     | 2   | 165 | Fixed String | Country code. Will be set to "XX" for non-capital letters.  Valid characters: \x01-\x7E  |
| 1031  | >CustOrderHandling-<br>Inst  | N     | 1   | 167 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 2404  | >ComplianceText              | N     | 20  | 168 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B,   |
| 39040 | >Pad4                        | U     | 4   | 188 | Fixed String | \x7D, \x7E<br>not used   |
| 39040 | <b>&gt;</b> ୮au4             | U     | 4   | 100 | rixeu String | HOL USEU   |

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#### 14.5 Approve Basket Trade Request

This message is sent to the service "T7 Entry".



| Tag   | Field Name                          | Req'd | Len | Ofs | Data Type    | Description                          |  |  |  |  |
|---|-------------------------------------|-------|-----|-----|--------------|--------------------------------------|--|--|--|--|
| < Messa   | <messageheaderin></messageheaderin> |       |     |     |              |                                      |  |  |  |  |
| 9   | BodyLen                             | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in- |  |  |  |  |
|   |                                     |       |     |     |              | cluding this field.                  |  |  |  |  |
| 28500   | TemplateID                          | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |  |  |  |  |
|   |                                     |       |     |     |              | sage layout. Value: 10623 (Trade-    |  |  |  |  |
|   |                                     |       |     |     |              | MatchReport,MsgType=DC)              |  |  |  |  |
| 25028   | NetworkMsgID                        | U     | 8   | 6   | Fixed String | not used                             |  |  |  |  |
| 39020   | Pad2                                | U     | 2   | 14  | Fixed String | not used                             |  |  |  |  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                           |       |     |     |              |                                      |  |  |  |  |

| Tag   | Field Name             | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|------------------------|-------|-----|-----|--------------|---------------------------------------|
| 34    | MsgSeqNum              | Y     | 4   | 16  | unsigned int | Message sequence number used by the   |
|       |                        |       |     |     |              | participant for requests sent to the  |
|       |                        |       |     |     |              | gateway.                              |
| 50    |                        | Υ     | 4   | 20  | unsigned int | User ID.                              |
|       | geBody>                |       |     |     |              |                                       |
| 25161 |                        | Y     | 8   | 24  | unsigned int | System defined Basket ID              |
| 25167 | BasketExecID           | Y     | 4   | 32  | unsigned int | System generated transaction ID for a |
|       |                        |       |     |     |              | Basket transaction                    |
|       | MarketSegmentID        | Y     | 4   | 36  | signed int   | Product identifier.                   |
| 1122  | RootPartySubIDType     | Y     | 2   | 40  | unsigned int | RootParty sub-type                    |
|       |                        |       |     |     |              | Value Description                     |
|       |                        |       |     |     |              | 4001 Buyer                            |
|       |                        |       |     |     |              | 4002 Seller                           |
|       |                        |       |     |     |              |                                       |
| 25169 | NoBasketSideAlloc      | Y     | 2   | 42  | Counter      | Number of trade match sides           |
| 828   | TrdType                | Y     | 2   | 44  | unsigned int | Type of Basket trade.                 |
|       |                        |       |     |     |              | Value Description                     |
|       |                        |       |     |     |              | 1010 Basket of Equity Total Re-       |
|       |                        |       |     |     |              | turn Futures                          |
|       |                        |       |     |     |              | 1011 Equity Bespoke Baskets           |
| 0.5.6 |                        |       |     | 1.5 |              | T (T   D                              |
| 856   | TradeReportType        | Y     | 1   | 46  | unsigned int | Type of Trade Report                  |
|       |                        |       |     |     |              | Value Description                     |
|       |                        |       |     |     |              | 2 Accept                              |
|       |                        |       |     |     |              |                                       |
| 25168 | BasketTradeReport-     | N     | 20  | 47  | Fixed String | User defined text message field       |
|       | Text                   |       |     |     |              | Valid characters: \x01-\x7E           |
| 571   | TradeReportID          | N     | 20  | 67  | Fixed String | User defined transaction ID. Part of  |
|       |                        |       |     |     |              | the TES response and TES broadcast.   |
|       |                        |       |     |     |              | Valid characters: \x01-\x7E           |
| 26162 | BasketSideTrade-       | N     | 20  | 87  | Fixed String | User defined Basket trade ID          |
|       | ReportID               |       | _0  | 0.  |              | Valid characters: \x01-\x7E           |
| 39050 | Pad5                   | U     | 5   | 107 | Fixed String | not used                              |
|       | ketSideAllocExtGrp> Ca |       |     |     |              |                                       |
|       | >AllocQty              | Y     | 8   | 112 | Qty          | Quantity of the particular trade side |
|       |                        |       |     |     | • • •        | in the TES trade.                     |
|       | I .                    |       |     |     |              |                                       |

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| Tag   | Field Name                           | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------------|-------|-----|-----|--------------|--|
| 20003 | >PartyIDClientID                     | N     | 8   | 120 | unsigned int | MiFID field: Client Identifier field (ESMA Field 3 (Section A))used to identify the client of an order for agent account of the member or participant of the trading venue. If the Client Identifier field is not provided for agent orders, then they will be rejected. For orders sent with Trading Capacity Proprietary or Market Making, the Client Identifier field may remain empty. |
| 20122 | >PartyIdInvestment-<br>DecisionMaker | N     | 8   | 128 | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.   |
| 25123 | >ExecutingTrader                     | N     | 8   | 136 | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order.   |
| 2489  | >PackageID                           | Y     | 4   | 144 | unsigned int | Identifier for a T7 Entry Service trade i.e. TES trade ID.   |
| 1898  | >SideMarket-<br>SegmentID            | Y     | 4   | 148 | signed int   | Product ID   |
| 70    | >AllocID                             | Υ     | 4   | 152 | unsigned int | Unique identifier for a TES Trade side.  |
| 54    | >Side                                | Y     | 1   | 156 | unsigned int | Side of the order.  Value Description  1 Buy  2 Sell   |

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| Tag   | Field Name                             | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--|-------|-----|-----|--------------|---|
| 77    | >PositionEffect                        | Y     | 1   | 157 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close O Open  |
| 1815  | >TradingCapacity                       | Y     | 1   | 158 | unsigned int | This field designates if the trader is acting in the capacity of agent, trading for its own account or acting as a market maker.  Value Description  1 Customer (Agency)  5 Principal (Proprietary)  6 Market Maker |
| 23002 | >OrderAttribute-<br>LiquidityProvision | Y     | 1   | 159 | unsigned int | MiFID field: Indication as to whether an order is submitted to a Trading Venue as part of a market making strategy.  Value Description  1 Liquidity provision  0 No liquidity provision                             |
| 25124 | >ExecutingTrader-<br>Qualifier         | Y     | 1   | 160 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--|-------|-----|-----|--------------|---|
| 21222 | >PartyldInvestment-<br>DecisionMaker-<br>Qualifier | N     | 1   | 161 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person                                |
| 23003 | >OrderAttributeRisk-Reduction                      | N     | 1   | 162 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description   1   Risk reduction   0   No risk reduction |
| 1724  | >OrderOrigination                                  | N     | 1   | 163 | unsigned int | MiFID field: Field to indicate order received from a direct access or sponsored access customer  Value Description  Order received from a direct access customer  |
| 22001 | >PartyExecutingFirm                                | Y     | 5   | 164 | Fixed String | Owning business unit name.  Valid characters: A-Z, 0-9, \x20  |
| 22012 | >PartyExecuting-<br>Trader                         | Y     | 6   | 169 | Fixed String | Owning user name.  Valid characters: A-Z, 0-9, \x20   |
| 1     | >Account   | N     | 2   | 175 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x4D, \x50, \x52   |

| Tag   | Field Name          | Req'd | Len | Ofs | Data Type     | Description  |
|-------|---------------------|-------|-----|-----|---------------|--|
| 25007 | >FreeText1          | N     | 12  | 177 | Fixed String  | First free-format text field for trader                          |
|       |                     |       |     |     |               | specific or customer-related com-                                |
|       |                     |       |     |     |               | ments  |
|       |                     |       |     |     |               | Valid characters: $\x20$ , $\x23$ - $\x25$ ,                     |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                      |
| 25008 | >FreeText2          | N     | 12  | 189 | Fixed String  | Second free-format text field for                                |
|       |                     |       |     |     |               | trader specific or customer-related                              |
|       |                     |       |     |     |               | comments   |
|       |                     |       |     |     |               | Valid characters: $\x20$ , $\x23-\x25$ ,                         |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-                                |
|       |                     |       |     |     |               | \x5F, \x61-\x7B, \x7D, \x7E                                      |
| 25009 | >FreeText3          | N     | 12  | 201 | Fixed String  | Third free-format text field for trader-                         |
|       |                     |       |     |     |               | specific or customer-related com-                                |
|       |                     |       |     |     |               | ments.   |
|       |                     |       |     |     |               | Valid characters: \x20, \x23-\x25,                               |
|       |                     |       |     |     |               | \x28-\x2A, \x2C-\x3B, \x3F, \x41-<br>\x5F, \x61-\x7B, \x7D, \x7E |
|       | >PartyIDTakeUp-     |       |     |     |               | \X3F, \X01-\X1B, \X1B, \X1E                                      |
| 20096 | TradingFirm         | N     | 5   | 213 | Fixed String  | Take-up Member Short Name.                                       |
|       | Traumgi iiiii       |       |     |     |               | Valid characters: A-Z, 0-9, \x20                                 |
| 20013 | >PartyIDOrder-      | N     | 7   | 218 | Fixed String  | External Member ID.  |
|       | OriginationFirm     |       |     |     |               | Valid characters: A-Z, 0-9, \x20                                 |
| 20032 | >PartyIDBeneficiary | N     | 9   | 225 | Fixed String  | Final Beneficiary  |
|       |                     |       |     |     | J             | Valid characters: A-Z, 0-9, \x20                                 |
| 20038 | >PartyIDPosition-   | N     | 32  | 234 | Fixed String  | 'Flexible Account' information.                                  |
| 20036 | Account             | IN    | 32  | 234 | Fixed String  | Valid characters: \x20, \x30-\x39,                               |
|       |                     |       |     |     |               | \x41-\x5A  |
| 20075 | >PartyIDLocationID  | N     | 2   | 266 | Fixed String  | Country code. Will be set to "XX" for                            |
| 20015 | / artyrococationio  | IV    | _   | 200 | Tived Stillig | non-capital letters.   |
|       |                     |       |     |     |               | Valid characters: \x01-\x7E                                      |
|       |                     |       |     |     |               | valid Cital actors. \XUI-\XIL                                    |

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| Tag   | Field Name              | Req'd | Len | Ofs | Data Type    | Description  |
|-------|-------------------------|-------|-----|-----|--------------|--|
| 1031  | >CustOrderHandling-Inst | N     | 1   | 268 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 2404  | >ComplianceText         | N     | 20  | 269 | Fixed String | This field is used to provide additional regulatory information (according to respective rules & regs, circulars and/or bilateral coordination between participant and Trading Surveillance Office).  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 39070 | >Pad7                   | U     | 7   | 289 | Fixed String | not used   |

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|--|
| Enhanced Trading Interface             |
| Derivatives Message Reference          |

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## 14.6 Basket Execution Broadcast

| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description   |
|---|------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>     |       |     |     |              |   |
| 9   | BodyLen          | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500   | TemplateID       | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: 10628 (Trade-MatchReport, MsgType = DC)   |
| 39020   | Pad2             | U     | 2   | 6   | Fixed String | not used  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>          |       |     |     |              |   |
| 52  | SendingTime      | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |
| 1181  | ApplSeqNum       | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |
| 28727   | ApplSubID        | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |
| 5948  | PartitionID      | Y     | 2   | 28  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 1352  | ApplResendFlag   | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |
| 1180  | ApplID           | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  7 TES Maintenance  |
| 893   | LastFragment     | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |
| 39070   | Pad7             | U     | 7   | 33  | Fixed String | not used  |
| < Messa   | geBody>          |       |     |     |              |   |
| 25161   | BasketTrdMatchID | Y     | 8   | 40  | unsigned int | System defined Basket ID  |
| 60  | TransactTime     | Y     | 8   | 48  | UTCTimestamp | Transaction timestamp.  |

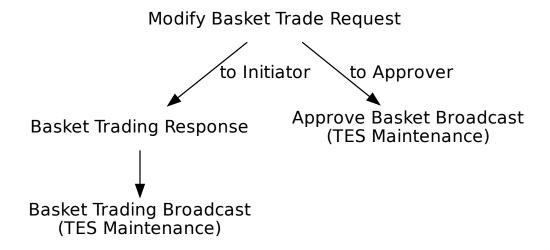
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| Tag  | Field Name             | Req'd    | Len    | Ofs     | Data Type        | Description                             |
|--|------------------------|----------|--------|---------|------------------|---|
| 25167  | BasketExecID           | Y        | 4      | 56      | unsigned int     | System generated transaction ID for a   |
|  |                        |          |        |         |                  | Basket transaction                      |
| 1300   | MarketSegmentID        | Y        | 4      | 60      | signed int       | Product identifier.                     |
| 28899  | BasketProfileID        | N        | 4      | 64      | unsigned int     | ID of the Basket profile, applicable    |
|  |                        |          |        |         |                  | only for Basket of Equity Total Return  |
|  |                        |          |        |         |                  | Futures(TrdType(828)=1010)              |
| 828  | TrdType                | Y        | 2      | 68      | unsigned int     | Type of Basket trade.                   |
|  |                        |          |        |         |                  | Value Description                       |
|  |                        |          |        |         |                  | 1010 Basket of Equity Total Re-         |
|  |                        |          |        |         |                  | turn Futures                            |
|  |                        |          |        |         |                  | 1011 Equity Bespoke Baskets             |
| 856  | TradeReportType        | Y        | 1      | 70      | unsigned int     | Type of Trade Report                    |
|  |                        |          |        |         |                  | Value Description                       |
|  |                        |          |        |         |                  | 2 Accept                                |
|  |                        |          |        |         |                  | 7.188898                                |
| 1889   | NoInstrmtMatchSides    | Y        | 1      | 71      | Counter          | Number of instrument match sides        |
| 1011   | MessageEventSource     | Y        | 1      | 72      | char             | Receiver of a message.                  |
|  |                        |          |        |         |                  | Value Description                       |
|  |                        |          |        |         |                  | A Broadcast to approver                 |
|  | D 1 01 - 1             |          |        |         |                  |   |
| 26162  | BasketSideTrade-       | N        | 20     | 73      | Fixed String     | User defined Basket trade ID            |
|  | ReportID               |          |        |         |                  | Valid characters: \x01-\x7E             |
| 39030  | Pad3                   | U        | 3      | 93      | Fixed String     | not used                                |
| <bask< td=""><td>etExecGrp&gt; Cardinality</td><td>: 1-199</td><td>, Reco</td><td>ord cou</td><td>nter: NoInstrmtN</td><td>NatchSides</td></bask<> | etExecGrp> Cardinality | : 1-199  | , Reco | ord cou | nter: NoInstrmtN | NatchSides                              |
| 2489   | >PackageID             | Y        | 4      | 96      | unsigned int     | Identifier for a T7 Entry Service trade |
|  |                        |          |        |         |                  | i.e. TES trade ID.                      |
| 1898   | >SideMarket-           | Y        | 4      | 100     | signed int       | Product ID                              |
|  | SegmentID              |          |        |         |                  |   |
| 70   |                        | Y        | 4      | 104     | unsigned int     | Unique identifier for a TES Trade side. |
| 1008   | >SideTrdSubTyp         | Y        | 2      | 108     | unsigned int     | Sub-type of a trade type                |
|  |                        |          |        |         |                  | Value Description                       |
|  |                        |          |        |         |                  | 2001 Block Trade                        |
|  |                        |          |        |         |                  | 2004 Trade at Market                    |
| 0055   | 5 15                   | <u> </u> | _      |         |                  |   |
| 39020  | >Pad2                  | U        | 2      | 110     | Fixed String     | not used                                |

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### 14.7 Modify Basket Trade Request

This message is sent to the service "T7 Entry".



| Tag   | Field Name        | Req'd | Len | Ofs | Data Type      | Description   |
|---|-------------------|-------|-----|-----|----------------|---|
| <messa,< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderIn>       |       |     |     |                |   |
| 9   | BodyLen           | Υ     | 4   | 0   | unsigned int   | Number of bytes for the message, in-                              |
|   |                   |       |     |     |                | cluding this field.   |
| 28500   | TemplateID        | Υ     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-                               |
|   |                   |       |     |     |                | sage layout. Value: 10621 (Trade-                                 |
|   |                   |       |     |     |                | $\label{eq:matchReport} \mbox{MatchReport, MsgType} = \mbox{DC})$ |
| 25028   | NetworkMsgID      | U     | 8   | 6   | Fixed String   | not used  |
| 39020   | Pad2              | U     | 2   | 14  | Fixed String   | not used  |
| < Reque   | stHeader>         |       |     |     |                |   |
| 34  | MsgSeqNum         | Υ     | 4   | 16  | unsigned int   | Message sequence number used by the                               |
|   |                   |       |     |     |                | participant for requests sent to the                              |
|   |                   |       |     |     |                | gateway.  |
| 50  | SenderSubID       | Υ     | 4   | 20  | unsigned int   | User ID.  |
| <messa,< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<>     | geBody>           |       |     |     |                |   |
| 25161   | BasketTrdMatchID  | Υ     | 8   | 24  | unsigned int   | System defined Basket ID  |
| 25167   | BasketExecID      | Υ     | 4   | 32  | unsigned int   | System generated transaction ID for a                             |
|   |                   |       |     |     |                | Basket transaction  |
| 1300  | MarketSegmentID   | Υ     | 4   | 36  | signed int     | Product identifier.   |
| 200   | MaturityMonthYear | Υ     | 4   | 40  | LocalMonthYear | CMbonth year code for expiry YYYYMM                               |
| 28899   | BasketProfileID   | N     | 4   | 44  | unsigned int   | ID of the Basket profile, applicable                              |
|   |                   |       |     |     |                | only for Basket of Equity Total Return                            |
|   |                   |       |     |     |                | Futures(TrdType(828)=1010)  |

| Tag   | Field Name                 | Req'd     | Len      | Ofs     | Data Type         | Description   |
|---|----------------------------|-----------|----------|---------|-------------------|---|
| 828   | TrdType                    | Υ         | 2        | 48      | unsigned int      | Type of Basket trade.                                       |
|   |                            |           |          |         |                   | Value Description   |
|   |                            |           |          |         |                   | 1010 Basket of Equity Total Return Futures                  |
|   |                            |           |          |         |                   | 1011 Equity Bespoke Baskets                                 |
| 25169   | NoBasketSideAlloc          | Y         | 2        | 50      | Counter           | Number of trade match sides                                 |
| 856   | TradeReportType            | Υ         | 1        | 52      | unsigned int      | Type of Trade Report  |
|   |                            |           |          |         |                   | Value Description   |
|   |                            |           |          |         |                   | 5 No/Was (Replaced)   |
|   |                            |           |          |         |                   |   |
| 25165   | NoBasketRootParty-<br>Grps | Y         | 1        | 53      | Counter           | Number of Basket Root Parties                               |
| 1889  | NoInstrmtMatchSides        | Y         | 1        | 54      | Counter           | Number of instrument match sides                            |
| 25168   | BasketTradeReport-<br>Text | N         | 20       | 55      | Fixed String      | User defined text message field Valid characters: \x01-\x7E |
| 571   | TradeReportID              | N         | 20       | 75      | Fixed String      | User defined transaction ID. Part of                        |
|   |                            |           |          |         |                   | the TES response and TES broadcast.                         |
|   |                            |           |          |         |                   | Valid characters: \x01-\x7E                                 |
| 39000   | Pad1                       | U         | 1        | 95      | Fixed String      | not used  |
| <bask< td=""><td>xetRootPartyGrp&gt; Cardi</td><td>nality: 1</td><td>! - 2, R</td><td>Record</td><td>counter: NoBaske</td><td>etRootPartyGrps</td></bask<>  | xetRootPartyGrp> Cardi     | nality: 1 | ! - 2, R | Record  | counter: NoBaske  | etRootPartyGrps   |
| 1122  | >RootPartySub-<br>IDType   | Y         | 2        | 96      | unsigned int      | RootParty sub-type  |
|   | 71                         |           |          |         |                   | Value Description   |
|   |                            |           |          |         |                   | 4001 Buyer  |
|   |                            |           |          |         |                   | 4002 Seller   |
|   | >RootPartyContra-          |           |          |         |                   |   |
| 22417   | Firm                       | Y         | 5        | 98      | Fixed String      | The identifier of the member counter-                       |
|   |                            |           |          |         |                   | party institution.  |
|   |                            |           |          |         |                   | Valid characters: A-Z, 0-9, \x20                            |
| 22437   | >RootPartyContra-          | Υ         | 6        | 103     | Fixed String      | The identifier of the trader counter-                       |
|   | Trader                     |           |          |         | G                 | party.  |
|   |                            |           |          |         |                   | Valid characters: A-Z, 0-9, \x20                            |
| 26162   | >BasketSideTrade-          | N         | 20       | 109     | Fixed String      | User defined Basket trade ID                                |
| 20102   | ReportID                   | 14        | 20       | 109     | Tineu Juling      | Valid characters: \x01-\x7E                                 |
| 39070   | >Pad7                      | U         | 7        | 129     | Fixed String      | not used  |
| <instr< td=""><td>mtMatchSideGrp&gt; Card</td><td>linality:</td><td>1 - 199</td><td>9, Reco</td><td>ord counter: NoIn</td><td>strmtMatchSides</td></instr<> | mtMatchSideGrp> Card       | linality: | 1 - 199  | 9, Reco | ord counter: NoIn | strmtMatchSides   |
| 48  | >SecurityID                | Υ         | 8        | 0       | signed int        | Instrument identifier.                                      |
| 31  | >LastPx                    | Υ         | 8        | 8       | PriceType         | Price of this fill.   |

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| Tag  | Field Name              | Req'd    | Len    | Ofs    | Data Type         | Description                             |
|--|-------------------------|----------|--------|--------|-------------------|---|
| 483  | >TransBkdTime           | N        | 8      | 16     | UTCTimestamp      | Time of Commencement, the time          |
|  |                         |          |        |        |                   | when an Off-Book trade was con-         |
|  |                         |          |        |        |                   | cluded outside the T7 System. There     |
|  |                         |          |        |        |                   | is a market specific validation of Time |
|  |                         |          |        |        |                   | of Commencement by the T7 back-         |
|  |                         |          |        |        |                   | end.                                    |
| 2589   | >RelatedClosePrice      | N        | 8      | 24     | floatDecimal6     | User defined index price.               |
|  |                         |          |        |        |                   | To be set for TrdType (1004) Trade      |
| 1506   |                         |          |        | 20     | D : T             | at Market [mandatory].                  |
| 1596   | <u> </u>                | U        | 8      | 32     | PriceType         | not used                                |
| 2489   | >PackageID              | N        | 4      | 40     | unsigned int      | Identifier for a T7 Entry Service trade |
|  | >SideMarket-            |          |        |        |                   | i.e. TES trade ID.                      |
| 1898   | SegmentID               | Y        | 4      | 44     | signed int        | Product ID                              |
| 1008   | _                       | Y        | 2      | 48     | unsigned int      | Sub-type of a trade type                |
| 1000   | Side Husub Typ          | '        | -      | 10     | unsigned int      |   |
|  |                         |          |        |        |                   | Value Description                       |
|  |                         |          |        |        |                   | 2001 Block Trade                        |
|  |                         |          |        |        |                   | 2004 Trade at Market                    |
| 1227   | >ProductComplex         | Y        | 1      | 50     | unsigned int      | This field qualifies an instrument type |
|  | , <b>,</b> .            |          |        |        |                   | on T7.                                  |
|  |                         |          |        |        |                   | Value Description                       |
|  |                         |          |        |        |                   | 1 Simple instrument                     |
|  |                         |          |        |        |                   |   |
| 1390   | >TradePublish-          | Υ        | 1      | 51     | unsigned int      | Indicates if a trade should be reported |
| 1550   | Indicator               | '        | -      | 31     | unsigned int      | via the market reporting service.       |
|  |                         |          |        |        |                   |   |
|  |                         |          |        |        |                   | Value Description                       |
|  |                         |          |        |        |                   | 0 Do Not Publish Trade                  |
|  |                         |          |        |        |                   | 1 Publish Trade                         |
| 25166  | >InstrmtMatchSideID     | Y        | 1      | 52     | unsigned int      | ID to map element of InstrmtMatch-      |
|  |                         |          |        |        |                   | SideGrp and BasketSideAllocGrp          |
| 25163  | >EffectOnBasket         | N        | 1      | 53     | unsigned int      | Transaction effect on a basket          |
|  |                         |          |        |        |                   | Value Description                       |
|  |                         |          |        |        |                   | 1 Add volume                            |
|  |                         |          |        |        |                   | 2 Remove volume                         |
|  |                         |          |        |        |                   |   |
| 28583  | >TradeReportText        | N        | 20     | 54     | Fixed String      | User defined TES ID.                    |
|  |                         |          |        |        |                   | Valid characters: \x01-\x7E             |
|  | >Pad6                   | U        | 6      | 74     | Fixed String      | not used                                |
| <bask< td=""><td>cetSideAllocGrp&gt; Cardin</td><td>ality: 1</td><td>- 398,</td><td>Record</td><td>d counter: NoBasi</td><td>ketSideAlloc</td></bask<> | cetSideAllocGrp> Cardin | ality: 1 | - 398, | Record | d counter: NoBasi | ketSideAlloc                            |

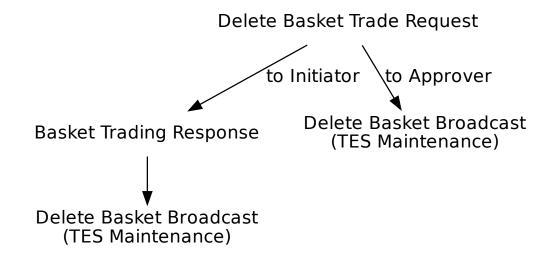
| Tag   | Field Name          | Req'd | Len | Ofs | Data Type    | Description                             |
|-------|---------------------|-------|-----|-----|--------------|---|
| 80    | >AllocQty           | Υ     | 8   | 0   | Qty          | Quantity of the particular trade side   |
|       |                     |       |     |     |              | in the TES trade.                       |
| 467   | >IndividualAllocID  | N     | 4   | 8   | unsigned int | Unique identifier for a TES trade side. |
| 803   | >PartySubIDType     | Y     | 2   | 12  | unsigned int | Party sub-type                          |
|       |                     |       |     |     |              | Value Description                       |
|       |                     |       |     |     |              | 14001 Buyer                             |
|       |                     |       |     |     |              | 14002 Seller                            |
|       |                     |       | _   |     |              |   |
| 54    | >Side               | Y     | 1   | 14  | unsigned int | Side of the order.                      |
|       |                     |       |     |     |              | Value   Description                     |
|       |                     |       |     |     |              | 1 Buy                                   |
|       |                     |       |     |     |              | 2 Sell                                  |
|       |                     |       |     |     |              |   |
| 25166 | >InstrmtMatchSideID | Y     | 1   | 15  | unsigned int | ID to map element of InstrmtMatch-      |
|       |                     |       |     |     |              | SideGrp and BasketSideAllocGrp          |
| 1840  | >TradeAllocStatus   | U     | 1   | 16  | unsigned int | not used                                |
| 22001 | >PartyExecutingFirm | Υ     | 5   | 17  | Fixed String | Owning business unit name.              |
|       |                     |       |     |     |              | Valid characters: A-Z, 0-9, \x20        |
| 22012 | >PartyExecuting-    | Υ     | 6   | 22  | Fixed String | Owning user name.                       |
| 22012 | Trader              | '     |     |     | Tixed String | Valid characters: A-Z, 0-9, \x20        |
| 39040 | >Pad4               | U     | 4   | 28  | Fixed String | not used                                |

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### 14.8 Delete Basket Trade Request

This message is sent to the service "T7 Entry".



| Tag                                 | Field Name                      | Req'd | Len | Ofs | Data Type    | Description                           |  |  |  |
|-------------------------------------|---------------------------------|-------|-----|-----|--------------|---------------------------------------|--|--|--|
| <messageheaderin></messageheaderin> |                                 |       |     |     |              |                                       |  |  |  |
| 9                                   | BodyLen                         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |  |  |  |
|                                     |                                 |       |     |     |              | cluding this field.                   |  |  |  |
| 28500                               | TemplateID                      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |  |  |  |
|                                     |                                 |       |     |     |              | sage layout. Value: 10622 (Trade-     |  |  |  |
|                                     |                                 |       |     |     |              | $MatchReport,\ MsgType = DC)$         |  |  |  |
| 25028                               | NetworkMsgID                    | U     | 8   | 6   | Fixed String | not used                              |  |  |  |
| 39020                               | Pad2                            | U     | 2   | 14  | Fixed String | not used                              |  |  |  |
| < Reque                             | <requestheader></requestheader> |       |     |     |              |                                       |  |  |  |
| 34                                  | MsgSeqNum                       | Y     | 4   | 16  | unsigned int | Message sequence number used by the   |  |  |  |
|                                     |                                 |       |     |     |              | participant for requests sent to the  |  |  |  |
|                                     |                                 |       |     |     |              | gateway.                              |  |  |  |
| 50                                  | SenderSubID                     | Υ     | 4   | 20  | unsigned int | User ID.                              |  |  |  |
| < Messa                             | <messagebody></messagebody>     |       |     |     |              |                                       |  |  |  |
| 25161                               | BasketTrdMatchID                | Y     | 8   | 24  | unsigned int | System defined Basket ID              |  |  |  |
| 25167                               | BasketExecID                    | Υ     | 4   | 32  | unsigned int | System generated transaction ID for a |  |  |  |
|                                     |                                 |       |     |     |              | Basket transaction                    |  |  |  |
| 1300                                | MarketSegmentID                 | Y     | 4   | 36  | signed int   | Product identifier.                   |  |  |  |

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| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                          |
|-------|-----------------|-------|-----|-----|--------------|--------------------------------------|
| 828   | TrdType         | Y     | 2   | 40  | unsigned int | Type of Basket trade.                |
|       |                 |       |     |     |              | Value Description                    |
|       |                 |       |     |     |              | 1010 Basket of Equity Total Re-      |
|       |                 |       |     |     |              | turn Futures                         |
|       |                 |       |     |     |              | 1011 Equity Bespoke Baskets          |
|       |                 |       |     |     |              |                                      |
| 856   | TradeReportType | Y     | 1   | 42  | unsigned int | Type of Trade Report                 |
|       |                 |       |     |     |              | Value Description                    |
|       |                 |       |     |     |              | 6 Trade Report Cancel                |
|       |                 |       |     |     |              |                                      |
| 571   | TradeReportID   | N     | 20  | 43  | Fixed String | User defined transaction ID. Part of |
|       |                 |       |     |     |              | the TES response and TES broadcast.  |
|       |                 |       |     |     |              | Valid characters: \x01-\x7E          |
| 39000 | Pad1            | U     | 1   | 63  | Fixed String | not used                             |

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## 14.9 Delete Basket Broadcast

| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description   |  |
|---|------------------|-------|-----|-----|--------------|---|--|
| < Messa   | geHeaderOut>     |       |     |     |              |   |  |
| 9   | BodyLen          | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |  |
| 28500   | TemplateID       | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10626$ (Trade-MatchReport, MsgType = DC)   |  |
| 39020   | Pad2             | U     | 2   | 6   | Fixed String | not used  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>          |       |     |     |              |   |  |
| 52  | SendingTime      | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |  |
| 1181  | ApplSeqNum       | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |  |
| 28727   | ApplSubID        | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |  |
| 5948  | PartitionID      | Y     | 2   | 28  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |  |
| 1352  | ApplResendFlag   | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |  |
| 1180  | ApplID           | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  7 TES Maintenance  |  |
| 893   | LastFragment     | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |  |
| 39070   | Pad7             | U     | 7   | 33  | Fixed String | not used  |  |
| <messagebody></messagebody>   |                  |       |     |     |              |   |  |
| 25161   | BasketTrdMatchID | Y     | 8   | 40  | unsigned int | System defined Basket ID  |  |
| 60  | TransactTime     | Y     | 8   | 48  | UTCTimestamp | Transaction timestamp.  |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|--------------------|-------|-----|-----|--------------|--|
| 1300  | MarketSegmentID    | Υ     | 4   | 56  | signed int   | Product identifier.                    |
| 25167 | BasketExecID       | Υ     | 4   | 60  | unsigned int | System generated transaction ID for a  |
|       |                    |       |     |     |              | Basket transaction                     |
| 28899 | BasketProfileID    | N     | 4   | 64  | unsigned int | ID of the Basket profile, applicable   |
|       |                    |       |     |     |              | only for Basket of Equity Total Return |
|       |                    |       |     |     |              | Futures(TrdType(828)=1010)             |
| 828   | TrdType            | Υ     | 2   | 68  | unsigned int | Type of Basket trade.                  |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | Basket of Equity Total Re-             |
|       |                    |       |     |     |              | turn Futures                           |
|       |                    |       |     |     |              | 1011 Equity Bespoke Baskets            |
|       |                    |       |     |     |              |  |
| 285   | DeleteReason       | Y     | 1   | 70  | unsigned int | Reason for deletion.                   |
|       |                    |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | 100 Deletion via the TES Delete        |
|       |                    |       |     |     |              | Request                                |
|       |                    |       |     |     |              | 101 Automatic deletion due to          |
|       |                    |       |     |     |              | TES Activity State Change              |
|       |                    |       |     |     |              | Automatic deletion due to in-          |
|       |                    |       |     |     |              | strument expiration                    |
|       |                    |       |     |     |              | Deletion caused by Clear-              |
|       |                    |       |     |     |              | ing/Risk stop                          |
|       |                    |       |     |     |              | Deletion caused by Trading             |
|       |                    |       |     |     |              | stop                                   |
|       |                    |       |     |     |              | 105 Deletion of Instrument             |
|       |                    |       |     |     |              | 106 Suspension of Instrument           |
|       |                    |       |     |     |              | Deletion caused by a pre-              |
|       |                    |       |     |     |              | trade risk event                       |
|       |                    |       |     |     |              | 108 Basket amendment cancelled         |
|       |                    |       |     |     |              | Amendment cancelled by                 |
|       |                    |       |     |     |              | user action                            |
|       |                    |       |     |     |              | 110 Compression cancelled by           |
|       |                    |       |     |     |              | service provider                       |
|       |                    |       |     |     |              | Compression cancelled by               |
|       |                    |       |     |     |              | system                                 |
| 1011  | MessageEventSource | Y     | 1   | 71  | char         | Receiver of a message.                 |
|       | -                  |       |     |     |              | Value Description                      |
|       |                    |       |     |     |              | I Broadcast to initiator               |
|       |                    |       |     |     |              | A Broadcast to approver                |
|       |                    |       |     |     |              | 2 Stadedat to approve                  |
|       | 1                  |       |     |     |              | 1                                      |

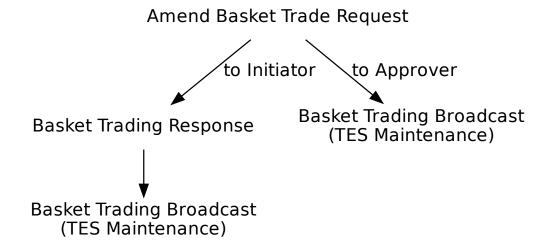
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| Tag   | Field Name    | Req'd | Len | Ofs | Data Type    | Description                          |
|-------|---------------|-------|-----|-----|--------------|--------------------------------------|
| 571   | TradeReportID | N     | 20  | 72  | Fixed String | User defined transaction ID. Part of |
|       |               |       |     |     |              | the TES response and TES broadcast.  |
|       |               |       |     |     |              | Valid characters: \x01-\x7E          |
| 39040 | Pad4          | U     | 4   | 92  | Fixed String | not used                             |

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#### 14.10 Amend Basket Trade Request

This message is sent to the service "T7 Entry".



| Tag   | Field Name               | Req'd | Len | Ofs | Data Type      | Description                               |
|---|--------------------------|-------|-----|-----|----------------|---|
| < Messa   | geHeaderIn>              |       |     |     |                |   |
| 9   | BodyLen                  | Y     | 4   | 0   | unsigned int   | Number of bytes for the message, in-      |
|   |                          |       |     |     |                | cluding this field.                       |
| 28500   | TemplateID               | Y     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-       |
|   |                          |       |     |     |                | sage layout. Value: 10629 (Trade-         |
|   |                          |       |     |     |                | ${\sf MatchReport,\ MsgType} = {\sf DC)}$ |
| 25028   | NetworkMsgID             | U     | 8   | 6   | Fixed String   | not used                                  |
| 39020   | Pad2                     | U     | 2   | 14  | Fixed String   | not used                                  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>                |       |     |     |                |   |
| 34  | MsgSeqNum                | Y     | 4   | 16  | unsigned int   | Message sequence number used by the       |
|   |                          |       |     |     |                | participant for requests sent to the      |
|   |                          |       |     |     |                | gateway.                                  |
| 50  | SenderSubID              | Y     | 4   | 20  | unsigned int   | User ID.                                  |
| < Messa   | geBody>                  |       |     |     |                |   |
| 25161   | ${\sf BasketTrdMatchID}$ | Y     | 8   | 24  | unsigned int   | System defined Basket ID                  |
| 25167   | BasketExecID             | Y     | 4   | 32  | unsigned int   | System generated transaction ID for a     |
|   |                          |       |     |     |                | Basket transaction                        |
| 1300  | MarketSegmentID          | Υ     | 4   | 36  | signed int     | Product identifier.                       |
| 200   | MaturityMonthYear        | Y     | 4   | 40  | LocalMonthYear | CMbonth year code for expiry YYYYMM       |
| 28899   | BasketProfileID          | N     | 4   | 44  | unsigned int   | ID of the Basket profile, applicable      |
|   |                          |       |     |     |                | only for Basket of Equity Total Return    |
|   |                          |       |     |     |                | Futures(TrdType(828)=1010)                |

| Tag  | Field Name   | Req'd     | Len      | Ofs   | Data Type        | Description                           |
|--|--|-----------|----------|-------|------------------|---------------------------------------|
| 828  | TrdType  | Υ         | 2        | 48    | unsigned int     | Type of Basket trade.                 |
|  |  |           |          |       |                  | Value Description                     |
|  |  |           |          |       |                  | Basket of Equity Total Re-            |
|  |  |           |          |       |                  | turn Futures                          |
|  |  |           |          |       |                  | 1011 Equity Bespoke Baskets           |
| 25169  | NoBasketSideAlloc                                      | Y         | 2        | 50    | Counter          | Number of trade match sides           |
| 856  | TradeReportType  | Υ         | 1        | 52    | unsigned int     | Type of Trade Report                  |
|  |  |           |          |       |                  | Value Description                     |
|  |  |           |          |       |                  | 0 Submit                              |
|  |  |           |          |       |                  |                                       |
| 25173  | BasketTradeReport-                                     | Y         | 1        | 53    | unsigned int     | Basket operation                      |
|  | Type   |           |          |       |                  | Value Description                     |
|  |  |           |          |       |                  | 4 Addendum                            |
|  |  |           |          |       |                  | 5 No/Was (Substitute)                 |
|  | N. D. J. D. J. D. J.                                   |           |          |       |                  |                                       |
| 25165  | NoBasketRootParty-<br>Grps                             | Y         | 1        | 54    | Counter          | Number of Basket Root Parties         |
| 1889   | ·  | Y         | 1        | 55    | Counter          | Number of instrument match sides      |
| 25168  | BasketTradeReport-                                     | N         | 20       | 56    | Fixed String     | User defined text message field       |
|  | Text   |           |          |       | _                | Valid characters: \x01-\x7E           |
| 571  | TradeReportID  | N         | 20       | 76    | Fixed String     | User defined transaction ID. Part of  |
|  |  |           |          |       |                  | the TES response and TES broadcast.   |
| rD. d  | 1.D. 1.D. 1.C. > C. 1.                                 | !!        | 1 2 5    |       | and Ma David     | Valid characters: \x01-\x7E           |
| <bask< td=""><td><pre>xetRootPartyGrp&gt; Cardi &gt;RootPartySub-</pre></td><td>nality: 1</td><td>! - 2, R</td><td>ecord</td><td>counter: NoBaske</td><td>etRootPartyGrps<br/> </td></bask<> | <pre>xetRootPartyGrp&gt; Cardi &gt;RootPartySub-</pre> | nality: 1 | ! - 2, R | ecord | counter: NoBaske | etRootPartyGrps<br>                   |
| 1122   | IDType   | Y         | 2        | 96    | unsigned int     | RootParty sub-type                    |
|  | 1-1760   |           |          |       |                  | Value Description                     |
|  |  |           |          |       |                  | 4001 Buyer                            |
|  |  |           |          |       |                  | 4002 Seller                           |
|  | >RootPartyContra-                                      |           |          |       |                  |                                       |
| 22417  | Firm   | Y         | 5        | 98    | Fixed String     | The identifier of the member counter- |
|  |  |           |          |       |                  | party institution.                    |
|  | > Poot Party Contro                                    |           |          |       |                  | Valid characters: A-Z, 0-9, \x20      |
| 22437  | >RootPartyContra-<br>Trader                            | Y         | 6        | 103   | Fixed String     | The identifier of the trader counter- |
|  |  |           |          |       |                  | party.                                |
|  | > DacketC: daT da                                      |           |          |       |                  | Valid characters: A-Z, 0-9, \x20      |
| 26162  | >BasketSideTrade-<br>ReportID                          | N         | 20       | 109   | Fixed String     | User defined Basket trade ID          |
|  |  |           |          |       |                  | Valid characters: \x01-\x7E           |
| 39070  | >Pad7  | U         | 7        | 129   | Fixed String     | not used                              |

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| Tag  | Field Name                | Req'd                                 | Len     | Ofs     | Data Type          | Description  |
|--|---------------------------|---------------------------------------|---------|---------|--------------------|--|
| <instr< td=""><td>mtMatchSideGrp&gt; Card</td><td>dinality:</td><td>1 - 199</td><td>), Reco</td><td>ord counter: NoIn.</td><td>strmtMatchSides</td></instr<> | mtMatchSideGrp> Card      | dinality:                             | 1 - 199 | ), Reco | ord counter: NoIn. | strmtMatchSides  |
| 48   | >SecurityID               | Υ                                     | 8       | 0       | signed int         | Instrument identifier.   |
| 31   | >LastPx                   | Υ                                     | 8       | 8       | PriceType          | Price of this fill.  |
| 483  | >TransBkdTime             | N                                     | 8       | 16      | UTCTimestamp       | Time of Commencement, the time                                 |
|  |                           |                                       |         |         |                    | when an Off-Book trade was con-                                |
|  |                           |                                       |         |         |                    | cluded outside the T7 System. There                            |
|  |                           |                                       |         |         |                    | is a market specific validation of Time                        |
|  |                           |                                       |         |         |                    | of Commencement by the T7 back-                                |
|  |                           |                                       |         |         |                    | end.   |
| 2589   | >RelatedClosePrice        | N                                     | 8       | 24      | floatDecimal6      | User defined index price.                                      |
|  |                           |                                       |         |         |                    | To be set for TrdType (1004) Trade                             |
|  |                           |                                       |         |         |                    | at Market [mandatory].   |
| 1596   | <u> </u>                  | U                                     | 8       | 32      | PriceType          | not used   |
| 2489   | 0                         | U                                     | 4       | 40      | unsigned int       | not used   |
| 1898   | >SideMarket-<br>SegmentID | Y                                     | 4       | 44      | signed int         | Product ID   |
| 1008   | >SideTrdSubTyp            | Y                                     | 2       | 48      | unsigned int       | Sub-type of a trade type                                       |
|  |                           |                                       |         |         |                    | Value Description  |
|  |                           |                                       |         |         |                    | 2001 Block Trade   |
|  |                           |                                       |         |         |                    | 2004 Trade at Market   |
|  |                           |                                       |         |         |                    |  |
| 1227   | >ProductComplex           | Y                                     | 1       | 50      | unsigned int       | This field qualifies an instrument type                        |
|  |                           |                                       |         |         |                    | on T7.   |
|  |                           |                                       |         |         |                    | Value Description  |
|  |                           |                                       |         |         |                    | 1 Simple instrument  |
|  | >TradePublish-            |                                       |         |         |                    |  |
| 1390   | Indicator                 | Y                                     | 1       | 51      | unsigned int       | Indicates if a trade should be reported                        |
|  |                           |                                       |         |         |                    | via the market reporting service.                              |
|  |                           |                                       |         |         |                    | Value Description  |
|  |                           |                                       |         |         |                    | 0 Do Not Publish Trade   |
|  |                           |                                       |         |         |                    | 1 Publish Trade  |
| 05166  |                           | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | -       | F2      |                    |  |
| 25166  | >InstrmtMatchSideID       | Y                                     | 1       | 52      | unsigned int       | ID to map element of InstrmtMatch-                             |
| 25163  | > EffectOn Post+          | N                                     | 1       | 53      | unsigned int       | SideGrp and BasketSideAllocGrp  Transaction effect on a basket |
| 23103  | >EffectOnBasket           | IN                                    | 1       | 55      | unsigned int       |  |
|  |                           |                                       |         |         |                    | Value Description  |
|  |                           |                                       |         |         |                    | 1 Add volume   |
|  |                           |                                       |         |         |                    | 2 Remove volume  |
| 28583  | >TradeReportText          | N                                     | 20      | 54      | Fixed String       | User defined TES ID.   |
|  |                           |                                       |         |         |                    | Valid characters: \x01-\x7E                                    |
| 39060  | >Pad6                     | U                                     | 6       | 74      | Fixed String       | not used   |

| Tag   | Field Name              | Req'd        | Len | Ofs | Data Type      | Description                           |
|---|-------------------------|--------------|-----|-----|----------------|---------------------------------------|
| <bask< td=""><td>retSideAllocGrp&gt; Cardin</td><td>ketSideAlloc</td></bask<> | retSideAllocGrp> Cardin | ketSideAlloc |     |     |                |                                       |
| 80  | >AllocQty               | Y            | 8   | 0   | Qty            | Quantity of the particular trade side |
|   |                         |              |     |     |                | in the TES trade.                     |
| 467   | >IndividualAllocID      | U            | 4   | 8   | unsigned int   | not used                              |
| 803   | >PartySubIDType         | Y            | 2   | 12  | unsigned int   | Party sub-type                        |
|   |                         |              |     |     |                | Value Description                     |
|   |                         |              |     |     |                | 14001 Buyer                           |
|   |                         |              |     |     |                | 14002 Seller                          |
|   | C. I                    |              |     | 1.4 |                | S. L. C. L.                           |
| 54  | >Side                   | Y            | 1   | 14  | unsigned int   | Side of the order.                    |
|   |                         |              |     |     |                | Value Description                     |
|   |                         |              |     |     |                | 1 Buy                                 |
|   |                         |              |     |     |                | 2 Sell                                |
|   |                         |              |     |     |                |                                       |
| 25166   | >InstrmtMatchSideID     | Y            | 1   | 15  | unsigned int   | ID to map element of InstrmtMatch-    |
|   |                         |              |     |     |                | SideGrp and BasketSideAllocGrp        |
| 1840  | >TradeAllocStatus       | U            | 1   | 16  | unsigned int   | not used                              |
| 22001   | >PartyExecutingFirm     | Y            | 5   | 17  | Fixed String   | Owning business unit name.            |
|   |                         |              |     |     |                | Valid characters: A-Z, 0-9, \x20      |
| 22012   | >PartyExecuting-        | Υ            | 6   | 22  | Fixed String   | Owning user name.                     |
| 22012   | Trader                  | '            | O   |     | i incu Stillig | Valid characters: A-Z, 0-9, \x20      |
| 39040   | >Pad4                   | U            | 4   | 28  | Fixed String   | not used                              |

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# 15 Other

#### 15.1 Trade Notification

The Trade Notification message is the legally binding confirmation for a trade. For more details, please refer to the ETI Manual, chapter Trade Notifications.

| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description  |
|--|----------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<> | geHeaderOut>   |       |     |     |              |  |
| 9  | BodyLen        | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|  |                |       |     |     |              | cluding this field.  |
| 28500  | TemplateID     | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-  |
|  |                |       |     |     |              | sage layout. Value: 10500 (Trade-  |
|  |                |       |     |     |              | ${\sf CaptureReport,\ MsgType} = {\sf AE})$  |
| 39020  | Pad2           | U     | 2   | 6   | Fixed String | not used   |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<>        | leader>        |       |     |     |              |  |
| 52   | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |
|  |                |       |     |     |              | the gateway  |
| 1181   | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number as-  |
|  |                |       |     |     |              | signed to a non-order related T7 ETI   |
|  |                |       |     |     |              | data stream.   |
| 28727  | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system  |
|  |                |       |     |     |              | during broadcast subscription in order   |
|  |                |       |     |     |              | to link broadcasts to the related sub-   |
|  |                |       |     |     |              | scription.   |
| 5948   | PartitionID    | Y     | 2   | 28  | unsigned int | Grouping of T7 products.   |
|  |                |       |     |     |              | Belongs to the scope of Service Avail-   |
| 1050   | 5 .5.          |       |     |     |              | ability and Retransmit requests.   |
| 1352   | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  |
|  |                |       |     |     |              | Value Description  |
|  |                |       |     |     |              | 0 False  |
|  |                |       |     |     |              | 1 True   |
| 1100   |                | .,    |     |     |              |  |
| 1180   | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.   |
|  |                |       |     |     |              | Value Description  |
|  |                |       |     |     |              | 1 Trade  |
| 002  |                | Y     | 1   | 20  | 1            | La Partira de la collection de la collec |
| 893  | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |
|  |                |       |     |     |              | last fragment (part) of a sequence of  |
|  |                |       |     |     |              | messages belonging to one dedicated transaction.   |
|  |                |       |     |     |              |  |
|  |                |       |     |     |              | Value Description  |
|  |                |       |     |     |              | 1 Last Message   |
|  |                |       |     |     |              |  |

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| Tag   | Field Name              | Req'd | Len | Ofs | Data Type    | Description                                |
|---|-------------------------|-------|-----|-----|--------------|--|
| 39070   | Pad7                    | U     | 7   | 33  | Fixed String | not used                                   |
| <messa,< td=""><td>geBody&gt;</td><td>'</td><td></td><td></td><td>,</td><td></td></messa,<> | geBody>                 | '     |     |     | ,            |  |
| 48  | SecurityID              | Υ     | 8   | 40  | signed int   | Instrument identifier.                     |
| 1650  | RelatedSecurityID       | N     | 8   | 48  | signed int   | Instrument identifier of the original T7   |
|   |                         |       |     |     |              | strategy.                                  |
| 44  | Price                   | N     | 8   | 56  | PriceType    | Limit price. Required if OrdType (40)      |
|   |                         |       |     |     |              | is Limit (2) or Stop Limit (4).            |
| 31  | LastPx                  | Υ     | 8   | 64  | PriceType    | Price of this fill.                        |
| 32  | LastQty                 | Y     | 8   | 72  | Qty          | Quantity executed in this fill.            |
| 28585   | SideLastPx              | N     | 8   | 80  | PriceType    | Fill price for the original T7 strategy.   |
| 1009  | SideLastQty             | N     | 8   | 88  | Qty          | Fill quantity for the original T7 strat-   |
|   |                         |       |     |     |              | egy.                                       |
| 1596  | ClearingTradePrice      | N     | 8   | 96  | PriceType    | Price in clearing notation which can       |
|   |                         |       |     |     |              | be preliminary or final depending on       |
|   |                         |       |     |     |              | TradeReportType (856).                     |
| 28736   | ClearingTradeQty        | N     | 8   | 104 | Qty          | Quantity in clearing notation.             |
| 60  | TransactTime            | Υ     | 8   | 112 | UTCTimestamp | Transaction timestamp.                     |
| 37  | OrderID                 | N     | 8   | 120 | unsigned int | Exchange Order ID generated by the         |
|   |                         |       |     |     |              | T7 system.                                 |
| 11  | ClOrdID                 | N     | 8   | 128 | unsigned int | Client Order ID: Unique participant        |
|   |                         |       |     |     |              | defined order request identifier.For       |
|   |                         |       |     |     |              | quotes the QuoteMsgID (1166) is pro-       |
|   |                         |       | _   |     |              | vided in the trade notification.           |
| 151   | LeavesQty               | N     | 8   | 136 | Qty          | Remaining quantity of the order at the     |
|   |                         |       |     |     |              | time of the execution.If the order has     |
|   |                         |       |     |     |              | been executed partially this field con-    |
|   |                         |       |     |     |              | tains the non-executed quantity. A re-     |
|   |                         |       |     |     |              | maining size of 0 indicates that the       |
|   |                         |       |     |     |              | order is fully matched or no longer ac-    |
| 1.4   | C 0:                    | N.I.  |     | 144 | 0.           | tive.                                      |
| 14  | CumQty                  | N     | 8   | 144 | Qty          | Cumulated executed quantity of an or-      |
| 20403   | Poot Porty IDCI: ant ID | N     | 8   | 152 | unsigned int | der.  MiFID field: Client Identifier field |
| 20403   | RootPartyIDClientID     | IN    | U   | 132 | unsigned int | (ESMA Field 3 (Section A))used to          |
|   |                         |       |     |     |              | identify the client of an order for agent  |
|   |                         |       |     |     |              | account of the member or participant       |
|   |                         |       |     |     |              | of the trading venue.                      |
|   |                         |       |     |     |              | or the trading venue.                      |

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| Tag   | Field Name                                   | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 25123 | ExecutingTrader                              | N     | 8   | 160 | unsigned int | MiFID field: Executing Trader data Field(ESMA Field 5 (Section A))used to identify the person or algorithm within the member or participant of the trading venue who is responsible for the execution of the transaction resulting from the order. |
| 20522 | RootParty-<br>IDInvestmentDecision-<br>Maker | N     | 8   | 168 | unsigned int | MiFID field: Investment decision within firm (ESMA Field 4 (Section A)) is the code used to identify the person or the algorithm within the member or participant of the Trading Venue who is responsible for the investment decision.             |
| 810   | UnderlyingPx                                 | N     | 8   | 176 | PriceType    | Underlying price associated with a derivative instrument.  |
| 1003  | TradelD                                      | Y     | 4   | 184 | unsigned int | Uniquely identifies all order leg allocations referring to the same match event, simple instrument and price.  |
| 1126  | OrigTradelD                                  | N     | 4   | 188 | unsigned int | In case of a trade reversal/modification this field provides the original trade identifier.  |
| 20459 | RootParty-<br>IDExecutingUnit                | Y     | 4   | 192 | unsigned int | Business Unit ID.  |
| 20455 | RootPartyIDSessionID                         | N     | 4   | 196 | unsigned int | Session ID.  |
| 20412 | RootParty-<br>IDExecutingTrader              | N     | 4   | 200 | unsigned int | Owning User ID.  |
| 25026 | RootPartyIDClearing-<br>Unit                 | N     | 4   | 204 | unsigned int | Clearing Business Unit ID.   |
| 1300  | MarketSegmentID                              | Y     | 4   | 208 | signed int   | Product identifier.  |
| 1649  | RelatedSymbol                                | N     | 4   | 212 | signed int   | Product identifier of the original T7 strategy.  |
| 1506  | SideTradeID                                  | Y     | 4   | 216 | unsigned int | Private trade identifier of an order or quote match step.  |
| 28582 | MatchDate                                    | Υ     | 4   | 220 | LocalMktDate | Business day of the match event.   |
| 880   | TrdMatchID                                   | Y     | 4   | 224 | unsigned int | Unique identifier for each price level (match step) of a match event; it is used for public trade reporting.   |
| 1851  | StrategyLinkID                               | N     | 4   | 228 | unsigned int | Identifier that links all trades resulting from a match step of a strategy order.  |
| 748   | TotNumTradeReports                           | N     | 4   | 232 | signed int   | Number of leg executions of the original strategy order.   |

| Tag   | Field Name                           | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--------------------------------------|-------|-----|-----|--------------|--|
| 762   | SecuritySubType                      | N     | 4   | 236 | signed int   | Sub-type qualification/identification  |
|       |                                      |       |     |     |              | of the SecurityType  |
| 442   | MultiLegReporting-<br>Type           | N     | 1   | 240 | unsigned int | Indicates if the trade resulted from a single order or a multi leg instrument. |
|       |                                      |       |     |     |              | Value Description  |
|       |                                      |       |     |     |              | 1 Single instrument  |
|       |                                      |       |     |     |              | 2 Complex instrument   |
|       |                                      |       |     |     |              |  |
| 856   | TradeReportType                      | Υ     | 1   | 241 | unsigned int | Identifies the type of trade notifica-   |
|       |                                      |       |     |     |              | tion.  |
|       |                                      |       |     |     |              | Value Description  |
|       |                                      |       |     |     |              | 0 Submit   |
|       |                                      |       |     |     |              | 1 Alleged  |
|       |                                      |       |     |     |              | 5 No/Was (Replaced)  |
|       |                                      |       |     |     |              | 7 (Locked-In) Trade Break  |
| 020   | T ( D                                | V     | 1   | 242 | 1            |  |
| 830   | TransferReason                       | Y     | 1   | 242 | unsigned int | Identifies the role for which the trade notification is received.              |
|       |                                      |       |     |     |              | Value Description  |
|       |                                      |       |     |     |              | 1 Owner  |
|       |                                      |       |     |     |              | 2 Clearer  |
| 20432 | RootParty-<br>IDBeneficiary          | N     | 9   | 243 | Fixed String | Final Beneficiary.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E              |
| 20496 | RootPartyIDTakeUp-<br>TradingFirm    | N     | 5   | 252 | Fixed String | Take-up Member Short Name.<br>Valid characters: A-Z, 0-9, \x20                 |
| 20413 | RootPartyIDOrder-<br>OriginationFirm | N     | 7   | 257 | Fixed String | External Member ID.  Valid characters: A-Z, 0-9, \x20                          |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                            |
|-------|--------------|-------|-----|-----|--------------|--|
| 574   | MatchType    | N     | 1   | 264 | unsigned int | The point in the matching process at   |
|       |              |       |     |     |              | which this trade was matched. The      |
|       |              |       |     |     |              | value 3 (reporting from recognized     |
|       |              |       |     |     |              | markets) represents trades entered by  |
|       |              |       |     |     |              | Market Supervision                     |
|       |              |       |     |     |              | Value Description                      |
|       |              |       |     |     |              | Confirmed Trade Report (re-            |
|       |              |       |     |     |              | 3 porting from recognized mar-         |
|       |              |       |     |     |              | kets)                                  |
|       |              |       |     |     |              | 4 Auto-match incoming order            |
|       |              |       |     |     |              | 5 Cross Auction                        |
|       |              |       |     |     |              | 7 Call Auction                         |
|       |              |       |     |     |              | 11 Auto match resting order            |
|       |              |       |     |     |              | 13 Liquidity Improvement Cross         |
| 28610 | MatchSubType | N     | 1   | 265 | unsigned int | Indicates the auction type the trade   |
|       |              |       |     |     |              | originates from.Not filled for un-     |
|       |              |       |     |     |              | crossing, i.e.when a complex instru-   |
|       |              |       |     |     |              | ment switches to the instrument state  |
|       |              |       |     |     |              | "Continuous".                          |
|       |              |       |     |     |              | Value Description                      |
|       |              |       |     |     |              | 1 Opening auction                      |
|       |              |       |     |     |              | 2 Closing auction                      |
|       |              |       |     |     |              | 3 Intraday auction                     |
|       |              |       |     |     |              | 4 Circuit Breaker auction              |
|       |              |       |     |     |              | 6 CLIP matching outside BBO            |
| 54    | Side         | Y     | 1   | 266 | unsigned int | Side of the trade. Leg executions      |
|       |              |       |     |     |              | of sell orders for complex instruments |
|       |              |       |     |     |              | will have an inverted value compared   |
|       |              |       |     |     |              | to the signature.                      |
|       |              |       |     |     |              | Value Description                      |
|       |              |       |     |     |              | 1 Buy                                  |
|       |              |       |     |     |              | 2 Sell                                 |
|       |              |       |     |     |              |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|--------------------|-------|-----|-----|--------------|--|
| 1444  | SideLiquidityInd   | N     | 1   | 267 | unsigned int | Order initiator is passive or aggressive |
|       |                    |       |     |     |              | or other                                 |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | 1 Added liquidity (passive)              |
|       |                    |       |     |     |              | Removed liquidity (aggres-               |
|       |                    |       |     |     |              | 2 sive, includes triggered or-           |
|       |                    |       |     |     |              | ders) Auction (includes VDO              |
|       |                    |       |     |     |              | matching at midpoint)                    |
| 1815  | TradingCapacity    | Y     | 1   | 268 | unsigned int | This field designates if the trader is   |
| 1015  | Trading Capacity   | '     | 1   | 200 | unsigned int | acting in the capacity of agent, trad-   |
|       |                    |       |     |     |              | ing for its own account or acting as a   |
|       |                    |       |     |     |              | market maker.                            |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | 1 Customer (Agency)                      |
|       |                    |       |     |     |              | 5 Principal (Proprietary)                |
|       |                    |       |     |     |              | 6 Market Maker                           |
| 1724  | OrderOrigination   | N     | 1   | 269 | unsigned int | MiFID field: Field to indicate order     |
|       |                    |       |     |     |              | received from a direct access or spon-   |
|       |                    |       |     |     |              | sored access customer                    |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | Order received from a direct             |
|       |                    |       |     |     |              | access customer                          |
| 23002 | OrderAttribute-    | N     | 1   | 270 | unsigned int | MiFID field: Indication as to whether    |
| 25002 | LiquidityProvision | '`    | -   | 210 | unsigned int | an order is submitted to a Trading       |
|       |                    |       |     |     |              | Venue as part of a market making         |
|       |                    |       |     |     |              | strategy.                                |
|       |                    |       |     |     |              | Value Description                        |
|       |                    |       |     |     |              | 1 Liquidity provision                    |
|       |                    |       |     |     |              | 0 No liquidity provision                 |
|       |                    |       |     |     |              |  |

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| Tag   | Field Name  | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---|-------|-----|-----|--------------|---|
| 23003 | OrderAttributeRisk-Reduction                          | Z     | 1   | 271 | unsigned int | MiFID field: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/EU. The field is only applicable for commodity derivative transactions.    Value   Description   1   Risk reduction   0   No risk reduction |
| 25124 | ExecutingTrader-<br>Qualifier                         | N     | 1   | 272 | unsigned int | MiFID field: Qualifier for field ExecutingTrader. It is required to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person   |
| 21622 | RootParty-<br>IDInvestmentDecision-<br>MakerQualifier | N     | 1   | 273 | unsigned int | MiFID field: Qualifier for field Party-IdInvestmentDecisionMaker. Members/participants will have the possibility to specify an Investment qualifier value to distinguish between natural persons and Algos.  Value Description  22 Algo  24 Human/Natural person                                |
| 1     | Account   | N     | 2   | 274 | Fixed String | Accounts to book trades and keep positions on.  Valid characters: 1-9, \x41, \x47, \x49, \x4D, \x50, \x52   |
| 20438 | RootPartyIDPosition-<br>Account                       | N     | 32  | 276 | Fixed String | 'Flexible Account' information. Valid characters: $\xspace \times 20$ , $\xspace \times 30-\xspace \times 41-\xspace \times 5A$   |

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| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type    | Description  |
|-------|----------------------------|-------|-----|-----|--------------|--|
| 77    | PositionEffect             | N     | 1   | 308 | char         | Field is used for T7 position management purposes and indicates whether the order is submitted to open or close a position.  Value Description  C Close O Open   |
| 1031  | CustOrderHandling-<br>Inst | N     | 1   | 309 | Fixed String | Identifies the source of an order, in accordance with the FIA guidelines for a rate Identifier. The field is for participant use only.  Value Description  W Desk  Y Electronic  C Vendor-provided Platform billed by Executing Broker  Sponsored Access via Exchange API or FIX provided by Executing Broker  Premium Algorithmic Trading Provider billed by Executing Broker  D Other, including Otherprovided Screen  * More values |
| 25007 | FreeText1                  | N     | 12  | 310 | Fixed String | First free-format text field for trader specific or customer-related comments  Valid characters: \x20, \x23-\x25, \x28-\x2A, \x2C-\x3B, \x3F, \x41-\x5F, \x61-\x7B, \x7D, \x7E   |
| 25008 | FreeText2                  | N     | 12  | 322 | Fixed String | Second free-format text field for trader specific or customer-related comments   Valid characters: $\x20$ , $\x23-\x25$ , $\x28-\x2A$ , $\x2C-\x3B$ , $\x3F$ , $\x41-\x5F$ , $\x61-\x7B$ , $\x7D$ , $\x7E$   |

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| Tag   | Field Name                 | Req'd | Len | Ofs | Data Type    | Description   |
|-------|----------------------------|-------|-----|-----|--------------|---|
|       | FreeText3                  | N     | 12  | 334 | Fixed String | Third free-format text field for trader-  |
|       |                            |       |     |     |              | specific or customer-related com-   |
|       |                            |       |     |     |              | ments.  |
|       |                            |       |     |     |              | Valid characters: $\xspace \times 20$ , $\xspace \times 23$ - $\xspace \times 25$ , |
|       |                            |       |     |     |              | \x28-\x2A, \x2C-\x3B, \x3F, \x41-   |
|       |                            |       |     |     |              | \x5F, \x61-\x7B, \x7D, \x7E   |
| 1115  | OrderCategory              | N     | 1   | 346 | char         | Indicates if the trade notification re-   |
|       |                            |       |     |     |              | sults from an order or quote.   |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 1 Order   |
|       |                            |       |     |     |              | 2 Quote   |
| 40    | 0.17                       | N.    | 1   | 247 |              |   |
| 40    | OrdType                    | N     | 1   | 347 | unsigned int | Order type.   |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 1 Market  |
|       |                            |       |     |     |              | 2 Limit   |
|       | Dalata dDua du at          |       |     |     |              |   |
| 28587 | RelatedProduct-<br>Complex | N     | 1   | 348 | unsigned int | Instrument type of the orginal T7   |
|       | Complex                    |       |     |     |              | strategy.   |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 2 Standard Option Strategy  |
|       |                            |       |     |     |              | Non-Standard Ontion Strat-  |
|       |                            |       |     |     |              | egy   |
|       |                            |       |     |     |              | 4 Volatility Strategy   |
|       |                            |       |     |     |              | 5 Futures Spread  |
|       |                            |       |     |     |              | 6 Inter-Product Spread  |
|       |                            |       |     |     |              | 7 Standard Future Strategy  |
|       |                            |       |     |     |              | 8 Pack and Bundle   |
|       |                            |       |     |     |              | 9 Strip   |
|       |                            |       |     |     |              | 11 Commodity Strip  |
|       |                            |       |     |     |              |   |
| 28586 | OrderSide                  | N     | 1   | 349 | unsigned int | Side of the order in the original T7  |
|       |                            |       |     |     |              | strategy.   |
|       |                            |       |     |     |              | Value Description   |
|       |                            |       |     |     |              | 1 Buy   |
|       |                            |       |     |     |              | 2 Sell  |
|       |                            |       |     |     |              |   |
| 22421 | RootPartyClearing-         | Υ     | 4   | 350 | Fixed String | Clearing House Short Name.  |
|       | Organization               |       |     |     | 3            | Valid characters: $\xspace \times 20$ , $\xspace \times 22$ - $\xspace \times 7B$ , |
|       |                            |       |     |     |              | \x7D, \x7E  |
|       |                            |       |     |     |              | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\   |

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 22401 | RootPartyExecuting-<br>Firm    | Y     | 5   | 354 | Fixed String | Participant Short Name.  Valid characters: $\x20$ , $\x22$ - $\x7B$ , $\x7D$ , $\x7E$   |
| 22412 | RootPartyExecuting-<br>Trader  | N     | 6   | 359 | Fixed String | Owning User Short Name. Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$  |
| 22404 | RootPartyClearing-<br>Firm     | N     | 5   | 365 | Fixed String | Clearing Member Short Name.  Valid characters: \x20, \x22-\x7B, \x7D, \x7E  |
| 1903  | RegulatoryTradeID              | N     | 52  | 370 | Fixed String | TVTIC - Trading Venue Transaction Identification Code Valid characters: 0-9, A-Z, a-z   |
| 20473 | RootParty-<br>IDExecutionVenue | N     | 4   | 422 | Fixed String | Market Segment Identification Code Valid characters: $\x20$ , $\x22-\x7B$ , $\x7D$ , $\x7E$   |
| 32999 | FeeldntCode                    | N     | 15  | 426 | Fixed String | This field indicates the Fee Code associated with the transaction.  Valid characters: \x41-\x45, \x47, \x4B, \x4D, \x4E, \x50, \x52, \x53, \x54, \x57, \x58 |
| 39070 | Pad7                           | U     | 7   | 441 | Fixed String | not used  |

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#### 15.2 Inquire Margin Based Risk Limit Request

Inquires the remaining risk allowance base limit for a member (only for Nodal Exchange). This message is sent to the service "Order and Quote Management".

Inquire Margin Based Risk Limit Request



Inquire Margin Based Risk Limit Response

| Tag     | Field Name            | Req'd | Len | Ofs | Data Type     | Description                                 |
|---------|-----------------------|-------|-----|-----|---------------|---|
| < Messa | geHeaderIn>           |       |     |     |               |   |
| 9       | BodyLen               | Υ     | 4   | 0   | unsigned int  | Number of bytes for the message, in-        |
|         |                       |       |     |     |               | cluding this field.                         |
| 28500   | TemplateID            | Υ     | 2   | 4   | unsigned int  | Unique identifier for a T7 ETI mes-         |
|         |                       |       |     |     |               | sage layout. Value: 10323 (PartyRisk-       |
|         |                       |       |     |     |               | ${\sf LimitsRequest,\ MsgType} = {\sf CL})$ |
| 25028   | NetworkMsgID          | U     | 8   | 6   | Fixed String  | not used                                    |
| 39020   | Pad2                  | U     | 2   | 14  | Fixed String  | not used                                    |
| < Reque | stHeader>             |       |     |     |               |   |
| 34      | MsgSeqNum             | Y     | 4   | 16  | unsigned int  | Message sequence number used by the         |
|         |                       |       |     |     |               | participant for requests sent to the        |
|         |                       |       |     |     |               | gateway.                                    |
| 50      | SenderSubID           | Y     | 4   | 20  | unsigned int  | User ID.                                    |
| < Messa | geBody>               |       |     |     |               |   |
| 5948    | PartitionID           | Υ     | 2   | 24  | unsigned int  | Grouping of T7 products.                    |
|         |                       |       |     |     |               | Belongs to the scope of Service Avail-      |
|         |                       |       |     |     |               | ability and Retransmit requests.            |
| 22259   | PartyDetailExecuting- | N     | 5   | 26  | Fixed String  | Detail BusinessUnit name                    |
| 22233   | Unit                  |       | 3   | 20  | Tixed String  | Valid characters: A-Z, 0-9, \x20            |
| 39000   | Pad1                  | U     | 1   | 31  | Fixed String  | not used                                    |
| 39000   | Lauı                  | U     | Т   | 21  | i ixeu String | not used                                    |

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# 15.3 Inquire Margin Based Risk Limit Response

Response with the remaining risk allowance base limit for a member (only for Nodal Exchange).

| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|---|--------------------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>                   |       |     |     |              |   |
| 9   | BodyLen                        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500   | TemplateID                     | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10324$ (PartyRisk-LimitsReport, MsgType = CM)  |
| 39020   | Pad2                           | U     | 2   | 6   | Fixed String | not used  |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME>                |       |     |     |              |   |
| 5979  | RequestTime                    | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the gateway  |
| 21002   | TrdRegTSTimeIn                 | N     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.   |
| 21003   | TrdRegTSTimeOut                | N     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.  |
| 7765  | ResponseIn                     | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a message from the Matching Engine   |
| 52  | SendingTime                    | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled always by the gateway  |
| 34  | MsgSeqNum                      | Y     | 4   | 48  | unsigned int | Message sequence number used by the participant for requests sent to the gateway.   |
| 893   | LastFragment                   | Y     | 1   | 52  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  0 Not Last Message  1 Last Message |
| 39030   | Pad3                           | U     | 3   | 53  | Fixed String | not used  |
| < Messa   | geBody>                        |       |     |     |              |   |
| 36531   | MarginBasedRisk-<br>LimitLong  | Y     | 8   | 56  | float        | Margin Based Risk Limit Short   |
| 37531   | MarginBasedRisk-<br>LimitShort | Y     | 8   | 64  | float        | Margin Based Risk Limit Short   |

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## 15.4 Status Broadcast

Status Broadcast for Start-of-Day and End-of-Day

| Tag  | Field Name     | Req'd | Len | Ofs | Data Type    | Description   |
|--|----------------|-------|-----|-----|--------------|---|
| <messa<sub>t</messa<sub>   | geHeaderOut>   |       |     |     |              |   |
| 9  | BodyLen        | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500  | TemplateID     | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10045$ (Trading-SessionStatus, MsgType = h)  |
| 39020  | Pad2           | U     | 2   | 6   | Fixed String | not used  |
| <rbch< td=""><td>eader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | eader>         |       |     |     |              |   |
| 52   | SendingTime    | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |
| 1181   | ApplSeqNum     | Y     | 8   | 16  | unsigned int | Application sequence number assigned to a non-order related T7 ETI data stream.   |
| 28727  | ApplSubID      | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system during broadcast subscription in order to link broadcasts to the related subscription.                                      |
| 5948   | PartitionID    | Y     | 2   | 28  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 1352   | ApplResendFlag | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |
| 1180   | ApplID         | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.  Value Description  2 News  6 Risk Control   |
| 893  | LastFragment   | Y     | 1   | 32  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |
| 39070  | Pad7           | U     | 7   | 33  | Fixed String | not used  |
| <messa<sub>e</messa<sub>   | geBody>        |       |     | '   |              |   |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type      | Description                 |
|-------|--------------|-------|-----|-----|----------------|-----------------------------|
| 75    | TradeDate    | N     | 4   | 40  | Local Mkt Date | Business date.              |
| 1368  | TradSesEvent | Y     | 1   | 44  | unsigned int   | Trading session event type. |
|       |              |       |     |     |                | Value Description           |
|       |              |       |     |     |                | 101 Start of Service        |
|       |              |       |     |     |                | 104 End of Service          |
|       |              |       |     |     |                |                             |
| 39030 | Pad3         | U     | 3   | 45  | Fixed String   | not used                    |

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## 15.5 Trade Notification Status

This message informs about the end of the Trade Notification stream for the respective business day.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                      |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|
| <messa< td=""><td colspan="8"><messageheaderout></messageheaderout></td></messa<>         | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-             |  |  |
|   |                                       |       |     |     |              | cluding this field.                              |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-              |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10501 (Trading-              |  |  |
|   |                                       |       |     |     |              | ${\sf SessionStatus},\ {\sf MsgType} = {\sf h})$ |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used   |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<>     | leader>                               |       |     |     |              |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by             |  |  |
|   |                                       |       |     |     |              | the gateway                                      |  |  |
| 1181  | ApplSeqNum                            | Y     | 8   | 16  | unsigned int | Application sequence number as-                  |  |  |
|   |                                       |       |     |     |              | signed to a non-order related T7 ETI             |  |  |
|   |                                       |       |     |     |              | data stream.                                     |  |  |
| 28727   | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system              |  |  |
|   |                                       |       |     |     |              | during broadcast subscription in order           |  |  |
|   |                                       |       |     |     |              | to link broadcasts to the related sub-           |  |  |
|   |                                       |       |     |     |              | scription.                                       |  |  |
| 5948  | PartitionID                           | Y     | 2   | 28  | unsigned int | Grouping of T7 products.                         |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail-           |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.                 |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.              |  |  |
|   |                                       |       |     |     |              | Value Description                                |  |  |
|   |                                       |       |     |     |              | 0 False  |  |  |
|   |                                       |       |     |     |              | 1 True   |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.               |  |  |
|   |                                       |       |     |     |              | Value Description                                |  |  |
|   |                                       |       |     |     |              | 1 Trade  |  |  |
|   |                                       |       |     |     |              |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the            |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of            |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated              |  |  |
|   |                                       |       |     |     |              | transaction.                                     |  |  |
|   |                                       |       |     |     |              | Value Description                                |  |  |
|   |                                       |       |     |     |              | 1 Last Message                                   |  |  |
| 20272   | D 17                                  |       |     | 22  | F: 16: 1     |  |  |  |
| 39070   |                                       | U     | 7   | 33  | Fixed String | not used   |  |  |
| <messa,< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geBody>                               |       |     |     |              |  |  |  |

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| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|--------------|-------|-----|-----|--------------|---------------------------------------|
| 1368  | TradSesEvent | Υ     | 1   | 40  | unsigned int | Trading session event type.           |
|       |              |       |     |     |              | Value Description  104 End of Service |
| 39070 | Pad7         | U     | 7   | 41  | Fixed String | not used                              |

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#### 15.6 Update Remaining Risk Allowance Base Request

Updates the remaining risk allowance base for up to 1000 members at once (only for Nodal Exchange). This message is sent to the service "Order and Quote Management".

Update Remaining Risk Allowance Base Request



Update Remaining Risk Allowance Base Response

| Tag   | Field Name          | Req'd    | Len     | Ofs     | Data Type       | Description  |
|---|---------------------|----------|---------|---------|-----------------|--|
| <messa,< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<>   | geHeaderIn>         |          |         |         |                 |  |
| 9   | BodyLen             | Υ        | 4       | 0       | unsigned int    | Number of bytes for the message, in-                       |
|   |                     |          |         |         |                 | cluding this field.  |
| 28500   | TemplateID          | Υ        | 2       | 4       | unsigned int    | Unique identifier for a T7 ETI mes-                        |
|   |                     |          |         |         |                 | sage layout. Value: 10325 (PartyRisk-                      |
|   |                     |          |         |         |                 | $oxed{LimitsDefinitionRequest}, \ MsgType = oxed{Implies}$ |
|   |                     |          |         |         |                 | CS)  |
| 25028   | NetworkMsgID        | U        | 8       | 6       | Fixed String    | not used   |
| 39020   | Pad2                | U        | 2       | 14      | Fixed String    | not used   |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<>   | stHeader>           |          |         |         |                 |  |
| 34  | MsgSeqNum           | Υ        | 4       | 16      | unsigned int    | Message sequence number used by the                        |
|   |                     |          |         |         |                 | participant for requests sent to the                       |
|   |                     |          |         |         |                 | gateway.   |
| 50  | SenderSubID         | Y        | 4       | 20      | unsigned int    | User ID.   |
| < Messa   | geBody>             |          |         |         |                 |  |
| 5948  | PartitionID         | Y        | 2       | 24      | unsigned int    | Grouping of T7 products.                                   |
|   |                     |          |         |         |                 | Belongs to the scope of Service Avail-                     |
|   |                     |          |         |         |                 | ability and Retransmit requests.                           |
| 1677  | NoPartyRiskLimits   | Y        | 2       | 26      | Counter         | Number of party risk limits                                |
| 39040   | Pad4                | U        | 4       | 28      | Fixed String    | not used   |
| <rra< td=""><td>UpdateBasePartyGrp&gt;</td><td>Cardinal</td><td>lity: 0</td><td>- 1000,</td><td>Record counter:</td><td>NoPartyRiskLimits</td></rra<> | UpdateBasePartyGrp> | Cardinal | lity: 0 | - 1000, | Record counter: | NoPartyRiskLimits  |
| 34531   | >RemainingRisk-     | Υ        | 8       | 32      | float           | Remaining Risk Allowance Base Long                         |
| 34331   | AllowanceBaseLong   | '        | 0       | 32      | iioat           | Tremaining Nisk Allowance Dase Long                        |
| 35531   | >RemainingRisk-     | Y        | 8       | 40      | float           | Remaining Risk Allowance Base Short                        |
| 55551   | AllowanceBaseShort  | '        | 0       | 70      | noat            | Tremaining trisk / mowarice base Short                     |
| 1670  | >RiskLimitID        | Y        | 4       | 48      | unsigned int    | Identifier of the last Remaining Risk                      |
|   |                     |          |         |         |                 | Allowance event  |

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| Tag   | Field Name                     | Req'd | Len | Ofs | Data Type    | Description   |
|-------|--------------------------------|-------|-----|-----|--------------|---|
| 22259 | >PartyDetail-<br>ExecutingUnit | Y     | 5   | 52  | Fixed String | Detail BusinessUnit name Valid characters: A-Z, 0-9, \x20 |
| 39070 | >Pad7                          | U     | 7   | 57  | Fixed String | not used  |

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## 15.7 Update Remaining Risk Allowance Base Response

Acknowledgment for the update of the remaining risk allowance base for up to 1000 members at once (only for Nodal Exchange).

| Tag  | Field Name           | Req'd   | Len      | Ofs    | Data Type         | Description                           |
|--|----------------------|---------|----------|--------|-------------------|---------------------------------------|
| <messa< th=""><th>geHeaderOut&gt;</th><th></th><th></th><th></th><th></th><th></th></messa<>   | geHeaderOut>         |         |          |        |                   |                                       |
| 9  | BodyLen              | Υ       | 4        | 0      | unsigned int      | Number of bytes for the message, in-  |
|  |                      |         |          |        |                   | cluding this field.                   |
| 28500  | TemplateID           | Υ       | 2        | 4      | unsigned int      | Unique identifier for a T7 ETI        |
|  |                      |         |          |        |                   | message layout. Value: 10326 (Party-  |
|  |                      |         |          |        |                   | RiskLimitsDefinitionRequestAck,       |
|  |                      |         |          |        |                   | MsgType = CT)                         |
| 39020  | Pad2                 | U       | 2        | 6      | Fixed String      | not used                              |
| <nrre.< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td>,</td><td></td></nrre.<>   | sponseHeaderME>      |         |          |        | ,                 |                                       |
| 5979   | RequestTime          | Y       | 8        | 8      | UTCTimestamp      | In timestamp; filled always by the    |
|  |                      |         |          |        |                   | gateway                               |
| 21002  | TrdRegTSTimeIn       | N       | 8        | 16     | UTCTimestamp      | Matching engine in timestamp.         |
| 21003  | TrdRegTSTimeOut      | N       | 8        | 24     | UTCTimestamp      | Matching engine out timestamp.        |
| 7765   | ResponseIn           | Y       | 8        | 32     | UTCTimestamp      | Timestamp the gateway receives a      |
|  |                      |         |          |        |                   | message from the Matching Engine      |
| 52   | SendingTime          | Y       | 8        | 40     | UTCTimestamp      | Outgoing delta timestamp; filled al-  |
|  |                      |         |          |        |                   | ways by the gateway                   |
| 34   | MsgSeqNum            | Y       | 4        | 48     | unsigned int      | Message sequence number used by the   |
|  |                      |         |          |        |                   | participant for requests sent to the  |
|  |                      |         |          |        |                   | gateway.                              |
| 893  | LastFragment         | Y       | 1        | 52     | unsigned int      | Indicates whether this message is the |
|  |                      |         |          |        |                   | last fragment (part) of a sequence of |
|  |                      |         |          |        |                   | messages belonging to one dedicated   |
|  |                      |         |          |        |                   | transaction.                          |
|  |                      |         |          |        |                   | Value Description                     |
|  |                      |         |          |        |                   | 0 Not Last Message                    |
|  |                      |         |          |        |                   | 1 Last Message                        |
|  |                      |         |          |        |                   |                                       |
| 39030  |                      | U       | 3        | 53     | Fixed String      | not used                              |
| < Messa  | geBody>              |         |          |        |                   |                                       |
| 1677   | NoPartyRiskLimits    | Υ       | 2        | 56     | Counter           | Number of party risk limits           |
| 39060  | Pad6                 | U       | 6        | 58     | Fixed String      | not used                              |
| <rra< td=""><td>UpdateBasePartyAckGr</td><td>p&gt; Card</td><td>linality</td><td>v: 0-1</td><td>000, Record count</td><td>ter: NoPartyRiskLimits</td></rra<> | UpdateBasePartyAckGr | p> Card | linality | v: 0-1 | 000, Record count | ter: NoPartyRiskLimits                |
| 22259  | >PartyDetail-        | Y       | 5        | 64     | Fixed String      | Detail BusinessUnit name              |
|  | ExecutingUnit        | '       |          |        | i ixed othing     | Valid characters: A-Z, 0-9, \x20      |
| 39000  | >Pad1                | U       | 1        | 69     | Fixed String      | not used                              |
| 33000  | / i au i             |         |          |        | I IXCU String     | 1100 0300                             |

| Tag  | Field Name       | Req'd | Len | Ofs | Data Type    | Descri   | otion                         |
|------|------------------|-------|-----|-----|--------------|----------|-------------------------------|
| 1764 | >RiskLimitResult | Y     | 2   | 70  | unsigned int | Risk Lii | mit Result for failed events  |
|      |                  |       |     |     |              | Value    | Description                   |
|      |                  |       |     |     |              | 10580    | Margin Based Risk Limits      |
|      |                  |       |     |     |              | 10300    | not enabled for business unit |
|      |                  |       |     |     |              |          | Received Remaining Risk Al-   |
|      |                  |       |     |     |              | 10581    | lowance event ID is lower     |
|      |                  |       |     |     |              | 10301    | than lowest entry in Tempo-   |
|      |                  |       |     |     |              |          | rary Transaction List         |
|      |                  |       |     |     |              |          | Received Remaining Risk Al-   |
|      |                  |       |     |     |              | 10582    | lowance event ID exceeds      |
|      |                  |       |     |     |              | 10302    | last entry in Temporary       |
|      |                  |       |     |     |              |          | Transaction List              |
|      |                  |       |     |     |              |          |                               |

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# 15.8 Trading Session Event

For more details, please refer to the ETI Manual, chapter Trading Session Events.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description   |
|---|-----------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderOut>    |       |     |     |              |   |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, including this field.  |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI message layout. Value: $10307$ (Trading-SessionStatus, MsgType = h)  |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used  |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>       |       |     |     |              |   |
| 21003   | TrdRegTSTimeOut | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.  |
| 25043   | NotificationIn  | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a notification message from the Matching Engine  |
| 52  | SendingTime     | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by the gateway  |
| 28727   | ApplSubID       | N     | 4   | 32  | unsigned int | Only set for Listener Data.   |
| 5948  | PartitionID     | Y     | 2   | 36  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 28704   | ApplMsgID       | Y     | 16  | 38  | data         | Application message identifier assigned to an order or quote event.   |
| 1180  | ApplID          | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.  Value Description  4 Session Data  5 Listener Data  |
| 1352  | ApplResendFlag  | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.  Value Description  0 False  1 True   |
| 893   | LastFragment    | Y     | 1   | 56  | unsigned int | Indicates whether this message is the last fragment (part) of a sequence of messages belonging to one dedicated transaction.  Value Description  1 Last Message |
| 39070   | Pad7            | U     | 7   | 57  | Fixed String | not used  |
| < Messa   | geBody>         |       |     |     |              |   |

| Tag   | Field Name       | Req'd | Len | Ofs | Data Type    | Description                          |
|-------|------------------|-------|-----|-----|--------------|--------------------------------------|
| 1300  | MarketSegmentID  | N     | 4   | 64  | signed int   | Product identifier.                  |
| 75    | TradeDate        | N     | 4   | 68  | LocalMktDate | Business date.                       |
| 1368  | TradSesEvent     | Y     | 1   | 72  | unsigned int | Trading session event type.          |
|       |                  |       |     |     |              | Value Description                    |
|       |                  |       |     |     |              | 101 Start of Service                 |
|       |                  |       |     |     |              | 102 Market Reset                     |
|       |                  |       |     |     |              | 103 End of Restatement               |
|       |                  |       |     |     |              | 104 End of Service                   |
|       |                  |       |     |     |              | 105 Service Resumed                  |
|       |                  |       |     |     |              |                                      |
| 28722 | RefApplLastMsgID | N     | 16  | 73  | data         | Last persisted application message   |
|       |                  |       |     |     |              | identifier in case of a Market Reset |
|       |                  |       |     |     |              | event.                               |
| 39070 | Pad7             | U     | 7   | 89  | Fixed String | not used                             |

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#### 15.9 Mass Cancellation Event

This message informs about the cancellation of orders and/or quotes because of a system event. While Quotes are always deleted, the deletion of orders (Standard/Lean) is indicated by the Execlost (18) field.

For more details, please refer to the ETI Manual, chapter Mass Cancellation Events.

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                            |
|---|-----------------|-------|-----|-----|--------------|--|
| < Messa   | geHeaderOut>    |       |     |     |              |  |
| 9   | BodyLen         | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|   |                 |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|   |                 |       |     |     |              | sage layout. Value: 10308 (Order-      |
|   |                 |       |     |     |              | $MassActionReport,\ MsgType = BZ)$     |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                               |
| <rbch< td=""><td>leaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leaderME>       |       |     |     |              |  |
| 21003   | TrdRegTSTimeOut | N     | 8   | 8   | UTCTimestamp | Matching engine out timestamp.         |
| 25043   | NotificationIn  | N     | 8   | 16  | UTCTimestamp | Timestamp the gateway receives a no-   |
|   |                 |       |     |     |              | tification message from the Matching   |
|   |                 |       |     |     |              | Engine                                 |
| 52  | SendingTime     | Y     | 8   | 24  | UTCTimestamp | Outgoing timestamp; filled always by   |
|   |                 |       |     |     |              | the gateway                            |
| 28727   | ApplSubID       | N     | 4   | 32  | unsigned int | Unique ID assigned by the T7 system    |
|   |                 |       |     |     |              | during broadcast subscription in order |
|   |                 |       |     |     |              | to link broadcasts to the related sub- |
|   |                 |       |     |     |              | scription.                             |
| 5948  | PartitionID     | Y     | 2   | 36  | unsigned int | Grouping of T7 products.               |
|   |                 |       |     |     |              | Belongs to the scope of Service Avail- |
|   |                 |       |     |     |              | ability and Retransmit requests.       |
| 28704   | ApplMsgID       | N     | 16  | 38  | data         | Application message identifier as-     |
|   |                 |       |     |     |              | signed to an order or quote event.     |
| 1180  | ApplID          | Y     | 1   | 54  | unsigned int | Identifier for an ETI data stream.     |
|   |                 |       |     |     |              | Value Description                      |
|   |                 |       |     |     |              | 4 Session Data                         |
|   |                 |       |     |     |              | 5 Listener Data                        |
|   |                 |       |     |     |              |  |
| 1352  | ApplResendFlag  | Y     | 1   | 55  | unsigned int | Indicates a retransmission message.    |
|   |                 |       |     |     |              | Value Description                      |
|   |                 |       |     |     |              | 0 False                                |
|   |                 |       |     |     |              | 1 True                                 |
|   |                 |       |     |     |              |  |

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| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                           |
|-------|--------------------|-------|-----|-----|--------------|---------------------------------------|
| 893   | LastFragment       | Υ     | 1   | 56  | unsigned int | Indicates whether this message is the |
|       |                    |       |     |     |              | last fragment (part) of a sequence of |
|       |                    |       |     |     |              | messages belonging to one dedicated   |
|       |                    |       |     |     |              | transaction.                          |
|       |                    |       |     |     |              | Value Description                     |
|       |                    |       |     |     |              | 1 Last Message                        |
|       |                    |       |     |     |              |                                       |
| 39070 |                    | U     | 7   | 57  | Fixed String | not used                              |
|       | geBody>            |       |     | 1   |              |                                       |
| 1369  | MassActionReportID | Y     | 8   | 64  | UTCTimestamp | Transaction timestamp.                |
| 48    | SecurityID         | N     | 8   | 72  | signed int   | Instrument identifier.                |
| 1300  | MarketSegmentID    | Y     | 4   | 80  | signed int   | Product identifier.                   |
| 28721 | MassActionReason   | Y     | 1   | 84  | unsigned int | Reason for mass cancellation.         |
|       |                    |       |     |     |              | Value Description                     |
|       |                    |       |     |     |              | 105 Product State Halt                |
|       |                    |       |     |     |              | 106 Product State Holiday             |
|       |                    |       |     |     |              | 107 Instrument Suspended              |
|       |                    |       |     |     |              | 109 Complex Instrument Deletion       |
|       |                    |       |     |     |              | 110 Volatility Interruption           |
|       |                    |       |     |     |              | Product temporarily not               |
|       |                    |       |     |     |              | 111 tradeable                         |
|       |                    |       |     |     |              |                                       |
| 18    | ExecInst           | N     | 1   | 85  | unsigned int | Cancellation scope for orders. Quotes |
|       |                    |       |     |     |              | are always cancelled by Mass Cancel-  |
|       |                    |       |     |     |              | lation Events.'No value' indicates no |
|       |                    |       |     |     |              | order cancellation.                   |
|       |                    |       |     |     |              | Value Description                     |
|       |                    |       |     |     |              | Persistent Order (FIX value 'H')      |
|       |                    |       |     |     |              | Non-persistent Order (FIX value 'Q')  |
|       |                    |       |     |     |              | Persistent and non-persistent         |
|       |                    |       |     |     |              | 3 orders affected (FIX value 'H       |
|       |                    |       |     |     |              | Q')                                   |
|       |                    |       |     |     |              |                                       |
| 39020 | Pad2               | U     | 2   | 86  | Fixed String | not used                              |

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#### 15.10 Pre-Trade Risk Limits Definition Request

This message is sent to the service "Order and Quote Management".

Pre-Trade Risk Limits Definition Request



| Tag   | Field Name         | Req'd | Len | Ofs | Data Type     | Description                                       |
|---|--------------------|-------|-----|-----|---------------|---|
| < Messa   | geHeaderIn>        |       |     |     |               |   |
| 9   | BodyLen            | Y     | 4   | 0   | unsigned int  | Number of bytes for the message, in-              |
|   |                    |       |     |     |               | cluding this field.                               |
| 28500   | TemplateID         | Y     | 2   | 4   | unsigned int  | Unique identifier for a T7 ETI mes-               |
|   |                    |       |     |     |               | sage layout. Value: 10312 (PartyRisk-             |
|   |                    |       |     |     |               | ${\sf LimitsRequest},\ {\sf MsgType} = {\sf CL})$ |
| 25028   | NetworkMsgID       | U     | 8   | 6   | Fixed String  | not used  |
| 39020   | Pad2               | U     | 2   | 14  | Fixed String  | not used  |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>          |       |     |     |               |   |
| 34  | MsgSeqNum          | Y     | 4   | 16  | unsigned int  | Message sequence number used by the               |
|   |                    |       |     |     |               | participant for requests sent to the              |
|   |                    |       |     |     |               | gateway.  |
| 50  | SenderSubID        | Y     | 4   | 20  | unsigned int  | User ID.  |
| < Messa   | geBody>            |       |     |     |               |   |
| 25205   | NettingCoefficient | N     | 8   | 24  | floatDecimal4 | Weighting factor used in the Extended             |
|   |                    |       |     |     |               | PTRL consumption calculation. De-                 |
|   |                    |       |     |     |               | fault value is 10000 for trading mem-             |
|   |                    |       |     |     |               | bers and 0 for clearing members.                  |
| 25210   | QuoteWeighting-    | N     | 8   | 32  | floatDecimal4 | Quote Weighting factor for open po-               |
|   | Coefficient        |       |     |     |               | sitions in PTRL calculation                       |
| 1300  | MarketSegmentID    | Υ     | 4   | 40  | signed int    | Product identifier.                               |
| 1533  | -                  | Υ     | 1   | 44  | unsigned int  | Scope for Pre-Trade risk limits                   |
|   |                    |       |     |     |               | Value Description                                 |
|   |                    |       |     |     |               | 0 On-Book   |
|   |                    |       |     |     |               |   |
|   |                    |       |     |     |               | 1 Off-Book(TES)                                   |
| 31669   | NoRiskLimitsQty    | Y     | 1   | 45  | Counter       |   |

| Tag  | Field Name             | Req'd    | Len  | Ofs    | Data Type         | Description                             |
|--|------------------------|----------|------|--------|-------------------|---|
| 1672   | PartyDetailStatus      | N        | 1    | 46     | unsigned int      | Member status.                          |
|  |                        |          |      |        |                   | Value Description                       |
|  |                        |          |      |        |                   | 0 Active                                |
|  |                        |          |      |        |                   | 1 Suspend                               |
| 20775  | D. I.I. I. C           | N.       | -    | 47     | F: 1.C. :         | <br>                                    |
| 28775  | RiskLimitGroup         | N        | 3    | 47     | Fixed String      | User Pre-Trade risk group               |
|  |                        |          |      |        |                   | Valid characters: A-Z, 0-9, \x20        |
| 22259  | PartyDetailExecuting-  | N        | 5    | 50     | Fixed String      | Detail BusinessUnit name                |
|  | Unit                   |          |      |        |                   | Valid characters: A-Z, 0-9, \x20        |
| 39000  | Pad1                   | U        | 1    | 55     | Fixed String      | not used                                |
| <risk< td=""><td>LimitQtyGrp&gt; Cardinali</td><td>ty: 0-2,</td><td>Reco</td><td>rd cou</td><td>nter: NoRiskLimit</td><td>tsQty</td></risk<> | LimitQtyGrp> Cardinali | ty: 0-2, | Reco | rd cou | nter: NoRiskLimit | tsQty                                   |
| 28777  | >RiskLimitQty          | N        | 8    | 56     | Qty               | Risk limit quantity - Special cases:    |
|  |                        |          |      |        |                   | leave empty for delete/reset limit, set |
|  |                        |          |      |        |                   | 0 for no further trading                |
| 1530   | >RiskLimitType         | Υ        | 1    | 64     | unsigned int      | Type of risk limits                     |
|  |                        |          |      |        |                   | Value Description                       |
|  |                        |          |      |        |                   | 4 Long limit                            |
|  |                        |          |      |        |                   | 5 Short limit                           |
|  |                        |          |      |        |                   |   |
| 39070  | >Pad7                  | U        | 7    | 65     | Fixed String      | not used                                |

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## 15.11 Pre-Trade Risk Limit Response

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                                |
|---|-----------------|-------|-----|-----|--------------|--|
| <messa< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa<>    | geHeaderOut>    |       |     |     |              |  |
| 9   | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |
|   |                 |       |     |     |              | cluding this field.                        |
| 28500   | TemplateID      | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |
|   |                 |       |     |     |              | sage layout. Value: 10313 (PartyRisk-      |
|   |                 |       |     |     |              | ${\sf LimitsReport,\ MsgType} = {\sf CM})$ |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                                   |
| <nrres< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrres<> | sponseHeaderME> |       |     |     |              |  |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the         |
|   |                 |       |     |     |              | gateway                                    |
| 21002   | TrdRegTSTimeIn  | N     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.              |
| 21003   | TrdRegTSTimeOut | N     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.             |
| 7765  | ResponseIn      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a           |
|   |                 |       |     |     |              | message from the Matching Engine           |
| 52  | SendingTime     | Υ     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-       |
|   |                 |       |     |     |              | ways by the gateway                        |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the        |
|   |                 |       |     |     |              | participant for requests sent to the       |
|   |                 |       |     |     |              | gateway.                                   |
| 893   | LastFragment    | Y     | 1   | 52  | unsigned int | Indicates whether this message is the      |
|   |                 |       |     |     |              | last fragment (part) of a sequence of      |
|   |                 |       |     |     |              | messages belonging to one dedicated        |
|   |                 |       |     |     |              | transaction.                               |
|   |                 |       |     |     |              | Value Description                          |
|   |                 |       |     |     |              | 1 Last Message                             |
| 39030   | Pad3            | U     | 3   | 53  | Fixed String | not used                                   |
|   | geBody>         |       |     |     |              |  |
| 1667  | -               | Υ     | 8   | 56  | unsigned int | ID of a PartyRiskLimitReport               |
| 1300  | MarketSegmentID | Υ     | 4   | 64  | signed int   | Product identifier.                        |
| 1669  |                 | Υ     | 1   | 68  | Counter      |  |
| 1672  |                 | Υ     | 1   | 69  | unsigned int | Member status.                             |
|   | -               |       |     |     |              | Value Description                          |
|   |                 |       |     |     |              | 0 Active                                   |
|   |                 |       |     |     |              | 1 Suspend                                  |
|   |                 |       |     |     |              |  |

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| Tag   | Field Name                              | Req'd    | Len     | Ofs     | Data Type         | Description  |
|---|---|----------|---------|---------|-------------------|--|
| 1533  | RiskLimitPlatform                       | Υ        | 1       | 70      | unsigned int      | Scope for Pre-Trade risk limits  |
|   |   |          |         |         |                   | Value Description  |
|   |   |          |         |         |                   | 0 On-Book  |
|   |   |          |         |         |                   | 1 Off-Book(TES)  |
|   |   |          |         |         |                   |  |
| 22259   | PartyDetailExecuting-                   | Y        | 5       | 71      | Fixed String      | Detail BusinessUnit name   |
|   | Unit                                    |          | Ū       | , -     | . mea earing      | Valid characters: A-Z, 0-9, \x20   |
| 39040   | Pad4                                    | U        | 4       | 76      | Fixed String      | not used   |
| <risk< td=""><td>LimitsRptGrp&gt; Cardinal</td><td>ity: 0-6</td><td>54, Red</td><td>cord co</td><td>ounter: NoRiskLin</td><td>nits</td></risk<> | LimitsRptGrp> Cardinal                  | ity: 0-6 | 54, Red | cord co | ounter: NoRiskLin | nits   |
| 28777   | >RiskLimitQty                           | N        | 8       | 80      | Qty               | Risk limit quantity  |
| 28779   | >RiskLimitOpenQty                       | N        | 8       | 88      | Qty               | Open quantity for orders or TES  |
|   |   |          |         |         |                   | trades   |
| 28780   | >RiskLimitNet-                          | N        | 8       | 96      | Qty               | Net position quantity for a requested  |
| 20,00   | PositionQty                             |          | ŭ       |         | 40                | pre-trade risk limit scope   |
| 25205   | >NettingCoefficient                     | N        | 8       | 104     | floatDecimal4     | Weighting factor used in the Extended  |
|   |   |          |         |         |                   | PTRL consumption calculation. De-  |
|   |   |          |         |         |                   | fault value is 10000 for trading mem-  |
|   |   |          |         |         |                   | bers and 0 for clearing members.   |
| 25210   | >QuoteWeighting-                        | N        | 8       | 112     | floatDecimal4     | Quote Weighting factor for open po-  |
| 25210   | Coefficient                             | I N      | O       | 112     | noatDecimal+      | sitions in PTRL calculation  |
| 28905   | >ActivationDate                         | N        | 4       | 120     | LocalMktDate      | Business date when change is active  |
| 1530  |   | Y        | 1       | 124     | unsigned int      | Type of risk limits  |
|   | , |          |         |         | 3                 | Value Description  |
|   |   |          |         |         |                   |  |
|   |   |          |         |         |                   | 4 Long limit 5 Short limit   |
|   |   |          |         |         |                   | 5 Short limit  |
| 20776   | >RiskLimit-                             | V        | 1       | 105     | 1                 | Describeration of the Control of the |
| 28776   | RequestingPartyRole                     | Y        | 1       | 125     | unsigned int      | Requesting party role for a pre-trade risk limit   |
|   |   |          |         |         |                   |  |
|   |   |          |         |         |                   | Value Description  |
|   |   |          |         |         |                   | 4 requested by Clearing firm   |
|   |   |          |         |         |                   | 22 requested by Exchange   |
|   |   |          |         |         |                   | 59 requested by Executing firm   |
| 00770   | >RiskLimitViolation-                    | N.I      |         | 100     |                   | Li Prote Communication of the  |
| 28778   | Indicator                               | N        | 1       | 126     | unsigned int      | Indicator for a pre-trade risk limit vi-   |
|   |   |          |         |         |                   | olation  |
|   |   |          |         |         |                   | Value Description  |
|   |   |          |         |         |                   | 0 No   |
|   |   |          |         |         |                   | 1 Yes  |
|   |   |          |         |         |                   |  |

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| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                      |
|-------|-----------------|-------|-----|-----|--------------|----------------------------------|
| 28775 | >RiskLimitGroup | N     | 3   | 127 | Fixed String | User Pre-Trade risk group        |
|       |                 |       |     |     |              | Valid characters: A-Z, 0-9, \x20 |
| 39060 | >Pad6           | U     | 6   | 130 | Fixed String | not used                         |

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#### 15.12 Inquire Pre-Trade Risk Limits Request

This message is sent to the service "Order and Quote Management".

Inquire Pre-Trade Risk Limits Request



| Tag   | Field Name         | Req'd | Len | Ofs | Data Type    | Description                                 |
|---|--------------------|-------|-----|-----|--------------|---|
| < Messa   | geHeaderIn>        |       |     |     |              |   |
| 9   | BodyLen            | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-        |
|   |                    |       |     |     |              | cluding this field.                         |
| 28500   | TemplateID         | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-         |
|   |                    |       |     |     |              | sage layout. Value: 10311 (PartyRisk-       |
|   |                    |       |     |     |              | ${\sf LimitsRequest,\ MsgType} = {\sf CL})$ |
| 25028   | NetworkMsgID       | U     | 8   | 6   | Fixed String | not used                                    |
| 39020   | Pad2               | U     | 2   | 14  | Fixed String | not used                                    |
| <reque< td=""><td>stHeader&gt;</td><td></td><td></td><td></td><td></td><td></td></reque<> | stHeader>          |       |     |     |              |   |
| 34  | MsgSeqNum          | Y     | 4   | 16  | unsigned int | Message sequence number used by the         |
|   |                    |       |     |     |              | participant for requests sent to the        |
|   |                    |       |     |     |              | gateway.                                    |
| 50  | SenderSubID        | Y     | 4   | 20  | unsigned int | User ID.                                    |
| < Messa   | geBody>            |       |     |     |              |   |
| 1300  | MarketSegmentID    | Y     | 4   | 24  | signed int   | Product identifier.                         |
| 1533  | RiskLimitPlatform  | Y     | 1   | 28  | unsigned int | Scope for Pre-Trade risk limits             |
|   |                    |       |     |     |              | Value Description                           |
|   |                    |       |     |     |              | 0 On-Book                                   |
|   |                    |       |     |     |              | 1 Off-Book(TES)                             |
|   |                    |       |     |     |              | -  -  -  -  -  -  -  -  -  -  -  -  -  -    |
| 22059   | PartyExecutingUnit | N     | 5   | 29  | Fixed String | Executing BusinessUnit name                 |
|   |                    |       |     |     |              | Valid characters: \x01-\x7E                 |
| 28775   | RiskLimitGroup     | N     | 3   | 34  | Fixed String | User Pre-Trade risk group                   |
|   |                    |       |     |     |              | Valid characters: A-Z, 0-9, \x20            |
| 39030   | Pad3               | U     | 3   | 37  | Fixed String | not used                                    |

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# 15.13 Service Availability

The Service Availability message provides information on the availability of a partition.For more details, please refer to the ETI Manual, chapter Service Availability - partition scope.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type      | Description   |  |
|---|---------------------------------------|-------|-----|-----|----------------|---|--|
| <messa< td=""><td colspan="7"><messageheaderout></messageheaderout></td></messa<> | <messageheaderout></messageheaderout> |       |     |     |                |   |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int   | Number of bytes for the message, in-                                  |  |
|   |                                       |       |     |     |                | cluding this field.   |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-                                   |  |
|   |                                       |       |     |     |                | sage layout. Value: 10030 (User-                                      |  |
|   |                                       |       |     |     |                | Notification, MsgType = CB)   |  |
| 39020   |                                       | U     | 2   | 6   | Fixed String   | not used  |  |
|   | Header>                               |       |     | ı   | T              |   |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp   | Outgoing timestamp; filled always by                                  |  |
|   |                                       |       |     |     |                | the gateway   |  |
| 28727   | ApplSubID                             | Y     | 4   | 16  | unsigned int   | Unique ID assigned by the T7 system                                   |  |
|   |                                       |       |     |     |                | during broadcast subscription in order                                |  |
|   |                                       |       |     |     |                | to link broadcasts to the related sub-                                |  |
| 1180  | A II D                                | Y     | 1   | 20  | unsigned int   | scription.  Identifier for an ETI data stream.                        |  |
| 1100  | ApplID                                | ī     | 1   | 20  | unsigned int   |   |  |
|   |                                       |       |     |     |                | Value Description   |  |
|   |                                       |       |     |     |                | 3 Service Availability  |  |
| 893   | LastFragment                          | Y     | 1   | 21  | unsigned int   | Indicates whether this message is the                                 |  |
|   |                                       |       |     |     |                | last fragment (part) of a sequence of                                 |  |
|   |                                       |       |     |     |                | messages belonging to one dedicated                                   |  |
|   |                                       |       |     |     |                | transaction.  |  |
|   |                                       |       |     |     |                | Value Description   |  |
|   |                                       |       |     |     |                | 0 Not Last Message  |  |
|   |                                       |       |     |     |                | 1 Last Message  |  |
|   |                                       |       |     |     |                |   |  |
| 39020   | Pad2                                  | U     | 2   | 22  | Fixed String   | not used  |  |
| < Messa   | geBody>                               |       |     |     |                |   |  |
| 25030   | MatchingEngine-                       | N     | 4   | 24  | LocalMktDate   | Current business day for Order/Quote                                  |  |
|   | TradeDate                             |       |     |     |                | Management service.   |  |
| 05001   | TradeManagerTrade-                    | N     |     | 00  | I IMULES :     |   |  |
| 25031   | Date                                  | N     | 4   | 28  | LocalMktDate   | Current business day of Trades ser-                                   |  |
| 25020   | A IC T I D                            | N.    |     | 20  | LocalMktDate   | vice.   |  |
| 25032   | ApplSeqTradeDate                      | N     | 4   | 32  | LocaliviktDate | Current business day of Retransmission of Order/Quote Events service. |  |
|   | T7Entry Consider Trade                |       |     |     |                | Sion of Order/ Quote Events service.                                  |  |
| 25047   | T7EntryServiceTrade-                  | N     | 4   | 36  | LocalMktDate   | Current business day of T7 Entry Ser-                                 |  |
|   | Date                                  |       |     |     |                | vice.   |  |

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| Tag   | Field Name                      | Req'd | Len | Ofs | Data Type    | Description   |
|-------|---------------------------------|-------|-----|-----|--------------|---|
| 25049 | T7EntryServiceRtm-<br>TradeDate | N     | 4   | 40  | LocalMktDate | Current business day of Retransmission of T7 Entry Service.   |
| 5948  | PartitionID                     | Y     | 2   | 44  | unsigned int | Grouping of T7 products.  Belongs to the scope of Service Availability and Retransmit requests.   |
| 25005 | MatchingEngine-<br>Status       | Y     | 1   | 46  | unsigned int | Order/Quote Management service: Informs if trading is active for grouping of T7 products.  Value Description  0 Unavailable  1 Available  |
| 25006 | TradeManagerStatus              | Y     | 1   | 47  | unsigned int | Trades service: Informs about the availability of the retransmission service of trades for a grouping of T7 products.  Value Description  0 Unavailable  1 Available  |
| 28732 | ApplSeqStatus                   | Y     | 1   | 48  | unsigned int | Retransmission of Order/Quote Events service: Informs about the availability of the retransmission services for order and quote events (session data and listener data) for a grouping of T7 products.  Value Description  0 Unavailable  1 Available |
| 25048 | T7EntryServiceStatus            | Y     | 1   | 49  | unsigned int | T7 Entry Service: informs if TES trading is active for grouping of T7 products.  Value Description  0 Unavailable  1 Available  |

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| Tag   | Field Name                   | Req'd    | Len | Ofs | Data Type    | Description   |
|-------|------------------------------|----------|-----|-----|--------------|---|
| 25050 | T7EntryServiceRtm-<br>Status | <b>Y</b> | 1   | 50  | unsigned int | T7 Entry Retransmission Service: Informs about the availability of the reatrnsmission services for TES trade events.  Value Description  0 Unavailable  1 Available |
| 39050 | Pad5                         | U        | 5   | 51  | Fixed String | not used  |

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# 15.14 Service Availability Market

The Service Availability Market message provides information on the availability of a market. For more details, please refer to the ETI Manual, chapter Service Availability - market scope.

| Tag  | Field Name           | Req'd | Len | Ofs | Data Type    | Description                                |
|--|----------------------|-------|-----|-----|--------------|--|
| <messa,< td=""><td>geHeaderOut&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderOut>         |       |     |     |              |  |
| 9  | BodyLen              | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |
|  |                      |       |     |     |              | cluding this field.                        |
| 28500  | TemplateID           | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |
|  |                      |       |     |     |              | sage layout. Value: 10044 (User-           |
|  |                      |       |     |     |              | ${\sf Notification,\ MsgType} = {\sf CB)}$ |
| 39020  | Pad2                 | U     | 2   | 6   | Fixed String | not used                                   |
| <nrbc< td=""><td>Header&gt;</td><td></td><td></td><td></td><td></td><td></td></nrbc<>          | Header>              |       |     |     |              |  |
| 52   | SendingTime          | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by       |
|  |                      |       |     |     |              | the gateway                                |
| 28727  | ApplSubID            | Y     | 4   | 16  | unsigned int | Unique ID assigned by the T7 system        |
|  |                      |       |     |     |              | during broadcast subscription in order     |
|  |                      |       |     |     |              | to link broadcasts to the related sub-     |
|  |                      |       |     |     |              | scription.                                 |
| 1180   | ApplID               | Y     | 1   | 20  | unsigned int | Identifier for an ETI data stream.         |
|  |                      |       |     |     |              | Value Description                          |
|  |                      |       |     |     |              | 10 Service Availability Market             |
|  |                      |       |     |     |              |  |
| 893  | LastFragment         | Y     | 1   | 21  | unsigned int | Indicates whether this message is the      |
|  |                      |       |     |     |              | last fragment (part) of a sequence of      |
|  |                      |       |     |     |              | messages belonging to one dedicated        |
|  |                      |       |     |     |              | transaction.                               |
|  |                      |       |     |     |              | Value Description                          |
|  |                      |       |     |     |              | 0 Not Last Message                         |
|  |                      |       |     |     |              | 1 Last Message                             |
|  |                      |       |     |     |              |  |
| 39020  |                      | U     | 2   | 22  | Fixed String | not used                                   |
| <messa<sub>e</messa<sub>   | geBody>              |       |     |     |              |  |
| 05050  | SelectiveRequestFor- |       |     | 0.4 |              |  |
| 25052  | QuoteServiceTrade-   | N     | 4   | 24  | LocalMktDate | Business date of the Selective Service     |
|  | Date                 |       |     |     |              | for Quote Service.                         |
| 25051  | SelectiveRequestFor- | Y     | 1   | 28  | unsigned int | State of the Selective Service for         |
|  | QuoteServiceStatus   |       |     |     |              | Quote Service.                             |
|  |                      |       |     |     |              | Value Description                          |
|  |                      |       |     |     |              | 0 Unavailable                              |
|  |                      |       |     |     |              | 1 Available                                |
|  |                      |       |     |     |              |  |

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| Tag   | Field Name                               | Req'd | Len | Ofs | Data Type    | Description  |
|-------|--|-------|-----|-----|--------------|--|
| 25053 | SelectiveRequestFor-<br>QuoteRtmService- | Y     | 1   | 29  | unsigned int | State of the Selective Service for   |
|       | Status                                   |       | _   |     | aneignea me  | Quote Retransmission Service.  |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | 0 Unavailable  |
|       |  |       |     |     |              | 1 Available  |
| 25237 | NewsRtmService-<br>Status                | Y     | 1   | 30  | unsigned int | State of the News Retransmission Service.  Value Description  0 Unavailable  1 Available |
| 25238 | RiskControlRtm-<br>ServiceStatus         | Y     | 1   | 31  | unsigned int | State of the Risk Control Retransmission Service.  |
|       |  |       |     |     |              | Value Description  |
|       |  |       |     |     |              | 0 Unavailable  |
|       |  |       |     |     |              | 1 Available  |
|       |  |       |     |     |              | 0 Unavailable  |

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## 15.15 News

The News message provides public information from the T7 market supervision. News messages distributed without an ApplSeqNum are not part of the retransmission responses. For more details, please refer to the ETI Manual, chapter News.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                            |  |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|--|
| <messa< th=""><th colspan="10"><messageheaderout></messageheaderout></th></messa<>    | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |  |
| 9   | BodyLen                               | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |  |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                    |  |  |  |  |
| 28500   | TemplateID                            | Υ     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |  |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10031 (News,       |  |  |  |  |
|   |                                       |       |     |     |              | MsgType = B                            |  |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                               |  |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                               |       |     |     |              |  |  |  |  |  |
| 52  | SendingTime                           | Υ     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |  |  |  |  |
|   |                                       |       |     |     |              | the gateway                            |  |  |  |  |
| 1181  | ApplSeqNum                            | N     | 8   | 16  | unsigned int | Application sequence number as-        |  |  |  |  |
|   |                                       |       |     |     |              | signed to a non-order related T7 ETI   |  |  |  |  |
|   |                                       |       |     |     |              | data stream.                           |  |  |  |  |
| 28727   | ApplSubID                             | N     | 4   | 24  | unsigned int | Unique ID assigned by the T7 system    |  |  |  |  |
|   |                                       |       |     |     |              | during broadcast subscription in order |  |  |  |  |
|   |                                       |       |     |     |              | to link broadcasts to the related sub- |  |  |  |  |
| 50.10   | D ID                                  |       |     | 20  |              | scription.                             |  |  |  |  |
| 5948  | PartitionID                           | Y     | 2   | 28  | unsigned int | Grouping of T7 products.               |  |  |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail- |  |  |  |  |
| 1250  | A ID IEI                              | Y     | 1   | 20  |              | ability and Retransmit requests.       |  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.    |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 0 False                                |  |  |  |  |
|   |                                       |       |     |     |              | 1 True                                 |  |  |  |  |
| 1100  | A IID                                 | Y     | 1   | 21  |              | Identifien for an ETI data atmosm      |  |  |  |  |
| 1180  | AppIID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.     |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 2 News                                 |  |  |  |  |
| 803   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the  |  |  |  |  |
| 093   | Lasti ragilielit                      | '     | 1   | 52  | unsigned int | last fragment (part) of a sequence of  |  |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated    |  |  |  |  |
|   |                                       |       |     |     |              | transaction.                           |  |  |  |  |
|   |                                       |       |     |     |              | Value Description                      |  |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                         |  |  |  |  |
|   |                                       |       |     |     |              | Last iviessage                         |  |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 33  | Fixed String | not used                               |  |  |  |  |

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| Tag     | Field Name | Req'd | Len  | Ofs | Data Type       | Description                              |
|---------|------------|-------|------|-----|-----------------|--|
| < Messa | geBody>    |       |      |     |                 |  |
| 42      | OrigTime   | Y     | 8    | 40  | UTCTimestamp    | Creation timestamp of the News mes-      |
|         |            |       |      |     |                 | sage.                                    |
| 30354   | VarTextLen | Υ     | 2    | 48  | Counter         | Number of used bytes for field VarText   |
|         |            |       |      |     |                 | (30355).                                 |
| 148     | Headline   | Y     | 256  | 50  | Fixed String    | The headline of a News message.          |
|         |            |       |      |     |                 | Valid characters: $\x20$ , $\x22-\x7B$ , |
|         |            |       |      |     |                 | \x7D, \x7E                               |
| 39060   | Pad6       | U     | 6    | 306 | Fixed String    | not used                                 |
| 30355   | VarText    | N     | 2000 | 312 | Variable String | News text.                               |
|         |            |       |      |     |                 | Valid characters: \x09, \x0A, \x0D,      |
|         |            |       |      |     |                 | \x20-\x7B, \x7D, \x7E                    |

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# 15.16 Entitlement Notification

This message informs about entitlement updates of the business unit. For more details, please refer to the ETI Manual, chapter Risk Control.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description   |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|---|--|--|--|
| <messa< td=""><td colspan="9"><messageheaderout></messageheaderout></td></messa<> | <messageheaderout></messageheaderout> |       |     |     |              |   |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-                                    |  |  |  |
|   |                                       |       |     |     |              | cluding this field.   |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-                                     |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10034 (Party-                                       |  |  |  |
|   |                                       |       |     |     |              | EntitlementsUpdateReport, MsgType                                       |  |  |  |
|   |                                       |       |     | _   |              | = CZ)   |  |  |  |
| 39020   |                                       | U     | 2   | 6   | Fixed String | not used  |  |  |  |
| <rbch< td=""><td></td><td></td><td></td><td></td><td>LITCT:</td><td></td></rbch<> |                                       |       |     |     | LITCT:       |   |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by                                    |  |  |  |
| 1101  | AmalComNium                           | Y     | 8   | 16  | unsigned int | the gateway  Application sequence number as-                            |  |  |  |
| 1181  | ApplSeqNum                            | ĭ     | 0   | 10  | unsigned int | Application sequence number as-<br>signed to a non-order related T7 ETI |  |  |  |
|   |                                       |       |     |     |              | data stream.  |  |  |  |
| 28727   | ApplSubID                             | U     | 4   | 24  | unsigned int | not used  |  |  |  |
| 5948  |                                       | Υ     | 2   | 28  | unsigned int | Grouping of T7 products.  |  |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail-                                  |  |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.  |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.                                     |  |  |  |
|   |                                       |       |     |     |              | Value Description   |  |  |  |
|   |                                       |       |     |     |              | 0 False   |  |  |  |
|   |                                       |       |     |     |              | 1 True  |  |  |  |
|   |                                       |       |     |     |              |   |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.                                      |  |  |  |
|   |                                       |       |     |     |              | Value Description   |  |  |  |
|   |                                       |       |     |     |              | 6 Risk Control  |  |  |  |
| 803   | LastFragment                          | Υ     | 1   | 32  | unsigned int | Indicates whether this message is the                                   |  |  |  |
| 093   | Lasti ragillelit                      | '     | 1   | 32  | unsigned int | last fragment (part) of a sequence of                                   |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated                                     |  |  |  |
|   |                                       |       |     |     |              | transaction.  |  |  |  |
|   |                                       |       |     |     |              | Value Description   |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message  |  |  |  |
|   |                                       |       |     |     |              |   |  |  |  |
| 39070   | Pad7                                  | U     | 7   | 33  | Fixed String | not used  |  |  |  |
| < Messa   | geBody>                               |       |     |     |              |   |  |  |  |
| 60  | TransactTime                          | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.  |  |  |  |
| 75  | TradeDate                             | Y     | 4   | 48  | LocalMktDate | Business date.  |  |  |  |

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| Tag   | Field Name                         | Req'd | Len | Ofs | Data Type    | Description   |
|-------|------------------------------------|-------|-----|-----|--------------|---|
| 20259 | PartyDetail-<br>IDExecutingUnit    | Y     | 4   | 52  | unsigned int | Business Unit ID.   |
| 20816 | RequestingParty- IDExecutingSystem | Y     | 4   | 56  | unsigned int | System ID.  |
|       |                                    |       |     |     |              | Value Description   |
|       |                                    |       |     |     |              | 1 Eurex Clearing  |
|       |                                    |       |     |     |              | 2 T7 trading system   |
| 1301  | MarketID                           | N     | 2   | 60  | unsigned int | Market ID.  |
|       |                                    |       |     |     |              | Value Description   |
|       |                                    |       |     |     |              | 1 XEUR  |
|       |                                    |       |     |     |              | 2 XEEE  |
|       |                                    |       |     |     |              | 12 NODX   |
|       |                                    |       |     |     |              | * More values   |
| 1324  | ListUpdateAction                   | Y     | 1   | 62  | char         | Invocation (D = Delete) or release (A                         |
|       |                                    |       |     |     |              | = Add) of a trading limitation.                               |
|       |                                    |       |     |     |              | Value Description   |
|       |                                    |       |     |     |              | A Add (Invocation)  |
|       |                                    |       |     |     |              | D Delete (Release)  |
| 22807 | RequestingParty-<br>EnteringFirm   | Y     | 9   | 63  | Fixed String | Entering Entity Short Name.  Valid characters: A-Z, 0-9, \x20 |
| 22804 | RequestingParty-<br>ClearingFirm   | N     | 9   | 72  | Fixed String | Clearing Member Short Name.  Valid characters: A-Z, 0-9, \x20 |
| 1672  | PartyDetailStatus                  | Υ     | 1   | 81  | unsigned int | Member status.  |
|       |                                    |       |     |     |              | Value Description   |
|       |                                    |       |     |     |              | 0 Active  |
|       |                                    |       |     |     |              | 1 Suspend   |
| 39060 | Pad6                               | U     | 6   | 82  | Fixed String | not used  |

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# 15.17 Party Action Report

A Member supervisor or T7 market supervision has stopped or released a trader or a business unit for one or all markets.

| Tag   | Field Name                            | Req'd | Len | Ofs | Data Type    | Description                                |  |  |  |
|---|---------------------------------------|-------|-----|-----|--------------|--|--|--|--|
| < Messa   | <messageheaderout></messageheaderout> |       |     |     |              |  |  |  |  |
| 9   | BodyLen                               | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-       |  |  |  |
|   |                                       |       |     |     |              | cluding this field.                        |  |  |  |
| 28500   | TemplateID                            | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-        |  |  |  |
|   |                                       |       |     |     |              | sage layout. Value: 10042 (Party-          |  |  |  |
|   |                                       |       |     |     |              | ${\sf ActionReport,\ MsgType} = {\sf DI)}$ |  |  |  |
| 39020   | Pad2                                  | U     | 2   | 6   | Fixed String | not used                                   |  |  |  |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>                               |       |     |     |              |  |  |  |  |
| 52  | SendingTime                           | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by       |  |  |  |
|   |                                       |       |     |     |              | the gateway                                |  |  |  |
| 1181  | ApplSeqNum                            | Y     | 8   | 16  | unsigned int | Application sequence number as-            |  |  |  |
|   |                                       |       |     |     |              | signed to a non-order related T7 ETI       |  |  |  |
|   |                                       |       |     |     |              | data stream.                               |  |  |  |
| 28727   | <u>''</u>                             | U     | 4   | 24  | unsigned int | not used                                   |  |  |  |
| 5948  | PartitionID                           | Y     | 2   | 28  | unsigned int | Grouping of T7 products.                   |  |  |  |
|   |                                       |       |     |     |              | Belongs to the scope of Service Avail-     |  |  |  |
|   |                                       |       |     |     |              | ability and Retransmit requests.           |  |  |  |
| 1352  | ApplResendFlag                        | Y     | 1   | 30  | unsigned int | Indicates a retransmission message.        |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |
|   |                                       |       |     |     |              | 0 False                                    |  |  |  |
|   |                                       |       |     |     |              | 1 True                                     |  |  |  |
| 1180  | ApplID                                | Y     | 1   | 31  | unsigned int | Identifier for an ETI data stream.         |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |
|   |                                       |       |     |     |              | 6 Risk Control                             |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 893   | LastFragment                          | Y     | 1   | 32  | unsigned int | Indicates whether this message is the      |  |  |  |
|   |                                       |       |     |     |              | last fragment (part) of a sequence of      |  |  |  |
|   |                                       |       |     |     |              | messages belonging to one dedicated        |  |  |  |
|   |                                       |       |     |     |              | transaction.                               |  |  |  |
|   |                                       |       |     |     |              | Value Description                          |  |  |  |
|   |                                       |       |     |     |              | 1 Last Message                             |  |  |  |
|   |                                       |       |     |     |              |  |  |  |  |
| 39070   |                                       | U     | 7   | 33  | Fixed String | not used                                   |  |  |  |
|   | geBody>                               | , ,   |     |     |              |  |  |  |  |
| 60  | TransactTime                          | Y     | 8   | 40  | UTCTimestamp | Transaction timestamp.                     |  |  |  |
| 75  | TradeDate                             | N     | 4   | 48  | LocalMktDate | Business date.                             |  |  |  |

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|          |                                       |   | Len | Ofs | Data Type    | Description  |
|----------|---------------------------------------|---|-----|-----|--------------|--|
| 20812    | RequestingParty-<br>IDExecutingTrader | N | 4   | 52  | unsigned int | Owning User ID   |
| 20059 F  | PartyIDExecutingUnit                  | Υ | 4   | 56  | unsigned int | Business Unit ID.  |
| □ 200121 | PartyIDExecuting-<br>Trader           | N | 4   | 60  | unsigned int | Owning User ID.  |
| 20816    | RequestingParty-<br>IDExecutingSystem | Y | 4   | 64  | unsigned int | System ID.  Value Description                              |
|          |                                       |   |     |     |              |  |
|          |                                       |   |     |     |              | 2 T7 trading system  |
| 1301 N   | MarketID                              | N | 2   | 68  | unsigned int | Market ID.   |
|          |                                       |   |     |     |              | Value Description  |
|          |                                       |   |     |     |              | 1 XEUR   |
|          |                                       |   |     |     |              | 2 XEEE   |
|          |                                       |   |     |     |              | 12 NODX  |
|          |                                       |   |     |     |              | * More values  |
| 2329 F   | PartyActionType                       | Υ | 1   | 70  | unsigned int | Type of party action report.                               |
|          |                                       |   |     |     |              | Value Description  |
|          |                                       |   |     |     |              | 1 Halt trading   |
|          |                                       |   |     |     |              | 2 Reinstate  |
| 20807    | RequestingParty-<br>IDEnteringFirm    | Y | 1   | 71  | unsigned int | ID of the entering firm.  Value Description  1 Participant |
|          |                                       |   |     |     |              | 2 Market Supervision                                       |

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## 15.18 Risk Notification

This message informs about risk events for the business unit. For more details, please refer to the ETI Manual, chapter Risk Control.

| Tag   | Field Name     | Req'd                                 | Len | Ofs | Data Type      | Description                                      |
|---|----------------|---------------------------------------|-----|-----|----------------|--|
| < Messa   | geHeaderOut>   |                                       |     |     |                |  |
| 9   | BodyLen        | Υ                                     | 4   | 0   | unsigned int   | Number of bytes for the message, in-             |
|   |                |                                       |     |     |                | cluding this field.                              |
| 28500   | TemplateID     | Υ                                     | 2   | 4   | unsigned int   | Unique identifier for a T7 ETI mes-              |
|   |                |                                       |     |     |                | sage layout. Value: 10033 (PartyRisk-            |
|   |                |                                       |     |     |                |  |
| 39020   | Pad2           | U                                     | 2   | 6   | Fixed String   | not used   |
| <rbch< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></rbch<> | leader>        |                                       |     |     |                |  |
| 52  | SendingTime    | Y                                     | 8   | 8   | UTCTimestamp   | Outgoing timestamp; filled always by             |
|   |                |                                       |     |     |                | the gateway                                      |
| 1181  | ApplSeqNum     | Y                                     | 8   | 16  | unsigned int   | Application sequence number as-                  |
|   |                |                                       |     |     |                | signed to a non-order related T7 ETI             |
|   |                |                                       |     |     |                | data stream.                                     |
| 28727   |                | U                                     | 4   | 24  | unsigned int   | not used   |
| 5948  | PartitionID    | Y                                     | 2   | 28  | unsigned int   | Grouping of T7 products.                         |
|   |                |                                       |     |     |                | Belongs to the scope of Service Avail-           |
|   |                |                                       |     |     |                | ability and Retransmit requests.                 |
| 1352  | ApplResendFlag | Y                                     | 1   | 30  | unsigned int   | Indicates a retransmission message.              |
|   |                |                                       |     |     |                | Value Description                                |
|   |                |                                       |     |     |                | 0 False  |
|   |                |                                       |     |     |                | 1 True   |
|   |                |                                       |     |     |                |  |
| 1180  | ApplID         | Y                                     | 1   | 31  | unsigned int   | Identifier for an ETI data stream.               |
|   |                |                                       |     |     |                | Value Description                                |
|   |                |                                       |     |     |                | 6 Risk Control                                   |
| 000   |                | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1   | 20  |                |  |
| 893   | LastFragment   | Y                                     | 1   | 32  | unsigned int   | Indicates whether this message is the            |
|   |                |                                       |     |     |                | last fragment (part) of a sequence of            |
|   |                |                                       |     |     |                | messages belonging to one dedicated transaction. |
|   |                |                                       |     |     |                |  |
|   |                |                                       |     |     |                | Value Description                                |
|   |                |                                       |     |     |                | 1 Last Message                                   |
| 39070   | Pad7           | U                                     | 7   | 33  | Fixed String   | not used   |
|   | geBody>        |                                       |     |     | - Med Jumg     |  |
|   | TransactTime   | Υ                                     | 8   | 40  | UTCTimestamp   | Transaction timestamp.                           |
| 75  |                | Y                                     | 4   | 48  | LocalMktDate   | Business date.                                   |
|   | TIAUCDATE      | _ '                                   | -т  | 10  | LocalivikiDate | Dusiness date.                                   |

| Tag   | Field Name                        | Req'd | Len | Ofs | Data Type    | Description                              |
|-------|-----------------------------------|-------|-----|-----|--------------|--|
| 20259 | PartyDetail-<br>IDExecutingUnit   | Y     | 4   | 52  | unsigned int | Business Unit ID.                        |
| 20816 | RequestingParty-IDExecutingSystem | Y     | 4   | 56  | unsigned int | System ID.  Value Description            |
|       |                                   |       |     |     |              | 1 Eurex Clearing                         |
|       |                                   |       |     |     |              | 2 T7 trading system                      |
| 1201  | M. I. J.D.                        | N.    |     | 60  |              | M 1 . 10                                 |
| 1301  | MarketID                          | N     | 2   | 60  | unsigned int | Market ID.                               |
|       |                                   |       |     |     |              | Value Description                        |
|       |                                   |       |     |     |              | 1 XEUR                                   |
|       |                                   |       |     |     |              | 2 XEEE 12 NODX                           |
|       |                                   |       |     |     |              | 12 NODX  * More values                   |
|       |                                   |       |     |     |              | iviore values                            |
| 25240 | InventoryCheckType                | N     | 1   | 62  | unsigned int | Indicator for checking open orders and   |
|       |                                   |       |     |     |              | quotes                                   |
|       |                                   |       |     |     |              | Value Description                        |
|       |                                   |       |     |     |              | 0 Do not check                           |
|       |                                   |       |     |     |              | 1 Check                                  |
| 1324  | ListUpdateAction                  | Y     | 1   | 63  | char         | Invocation $(A = Add)$ or release $(D =$ |
| 1524  | ListopulateAction                 | ľ     | -   | 05  | Cital        | Delete) of a risk limitation.            |
|       |                                   |       |     |     |              | Value Description                        |
|       |                                   |       |     |     |              | A Add (Invocation)                       |
|       |                                   |       |     |     |              | D Delete (Release)                       |
| 1767  | RiskLimitAction                   | N     | 1   | 64  | unsigned int | Risk protection action.                  |
|       |                                   |       |     |     |              | Value Description                        |
|       |                                   |       |     |     |              | 0 Queue Inbound                          |
|       |                                   |       |     |     |              | 2 Reject                                 |
|       |                                   |       |     |     |              | 4 Warning                                |
|       | RequestingParty-                  |       |     |     |              |  |
| 22807 | EnteringFirm                      | Y     | 9   | 65  | Fixed String | Entering Entity Short Name.              |
|       |                                   |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |
| 22804 | RequestingParty-                  | N     | 9   | 74  | Fixed String | Clearing Member Short Name.              |
|       | ClearingFirm                      |       |     |     |              | Valid characters: A-Z, 0-9, \x20         |
| 39050 | Pad5                              | U     | 5   | 83  | Fixed String | not used                                 |

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# 15.19 Ping Request

This request (and it's corresponding response) is reserved for internal use only i.e. the right to use the request will not be granted to participants. This message is sent to the service "Order and Quote Management".

| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                            |
|---|--------------|-------|-----|-----|--------------|--|
| <messa,< td=""><td>geHeaderIn&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<> | geHeaderIn>  |       |     |     |              |  |
| 9   | BodyLen      | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|   |              |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-    |
|   |              |       |     |     |              | sage layout. Value: 10320 (Test-       |
|   |              |       |     |     |              | Request, $MsgType = 1$ )               |
| 25028   | NetworkMsgID | U     | 8   | 6   | Fixed String | not used                               |
| 39020   | Pad2         | U     | 2   | 14  | Fixed String | not used                               |
| <reque< td=""><td>stHeader&gt;</td><td></td><td>,</td><td></td><td></td><td></td></reque<>    | stHeader>    |       | ,   |     |              |  |
| 34  | MsgSeqNum    | Υ     | 4   | 16  | unsigned int | Message sequence number used by the    |
|   |              |       |     |     |              | participant for requests sent to the   |
|   |              |       |     |     |              | gateway.                               |
| 50  | SenderSubID  | Y     | 4   | 20  | unsigned int | User ID.                               |
| <messa,< td=""><td>geBody&gt;</td><td></td><td></td><td></td><td></td><td></td></messa,<>     | geBody>      |       |     |     |              |  |
| 5948  | PartitionID  | Υ     | 2   | 24  | unsigned int | Grouping of T7 products.               |
|   |              |       |     |     |              | Belongs to the scope of Service Avail- |
|   |              |       |     |     |              | ability and Retransmit requests.       |
| 39060   | Pad6         | U     | 6   | 26  | Fixed String | not used                               |

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# 15.20 Ping Response

| Tag   | Field Name      | Req'd | Len | Ofs | Data Type    | Description                           |
|---|-----------------|-------|-----|-----|--------------|---------------------------------------|
| < Messa   | geHeaderOut>    |       |     |     |              |                                       |
| 9   | BodyLen         | Υ     | 4   | 0   | unsigned int | Number of bytes for the message, in-  |
|   |                 |       |     |     |              | cluding this field.                   |
| 28500   | TemplateID      | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI mes-   |
|   |                 |       |     |     |              | sage layout. Value: 10321 (Heart-     |
|   |                 |       |     |     |              | beat, $MsgType = 0$ )                 |
| 39020   | Pad2            | U     | 2   | 6   | Fixed String | not used                              |
| <nrre:< td=""><td>sponseHeaderME&gt;</td><td></td><td></td><td></td><td></td><td></td></nrre:<> | sponseHeaderME> |       |     |     |              |                                       |
| 5979  | RequestTime     | Y     | 8   | 8   | UTCTimestamp | In timestamp; filled always by the    |
|   |                 |       |     |     |              | gateway                               |
| 21002   | TrdRegTSTimeIn  | Y     | 8   | 16  | UTCTimestamp | Matching engine in timestamp.         |
| 21003   | TrdRegTSTimeOut | Y     | 8   | 24  | UTCTimestamp | Matching engine out timestamp.        |
| 7765  | ResponseIn      | Y     | 8   | 32  | UTCTimestamp | Timestamp the gateway receives a      |
|   |                 |       |     |     |              | message from the Matching Engine      |
| 52  | SendingTime     | Y     | 8   | 40  | UTCTimestamp | Outgoing delta timestamp; filled al-  |
|   |                 |       |     |     |              | ways by the gateway                   |
| 34  | MsgSeqNum       | Y     | 4   | 48  | unsigned int | Message sequence number used by the   |
|   |                 |       |     |     |              | participant for requests sent to the  |
|   |                 |       |     |     |              | gateway.                              |
| 893   | LastFragment    | Y     | 1   | 52  | unsigned int | Indicates whether this message is the |
|   |                 |       |     |     |              | last fragment (part) of a sequence of |
|   |                 |       |     |     |              | messages belonging to one dedicated   |
|   |                 |       |     |     |              | transaction.                          |
|   |                 |       |     |     |              | Value Description                     |
|   |                 |       |     |     |              | 1 Last Message                        |
|   |                 |       |     |     |              |                                       |
| 39030   |                 | U     | 3   | 53  | Fixed String | not used                              |
|   | geBody>         |       |     |     |              |                                       |
| 60  | TransactTime    | Y     | 8   | 56  | UTCTimestamp | Transaction timestamp.                |

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# 15.21 Gap Fill

This message informs that the provided message must be skipped over, due to the fact that the T7 system is not able to provide the functional data to the participant. The exchange may be contacted for further error analysis.

| Tag   | Field Name   | Req'd | Len | Ofs | Data Type    | Description                            |
|---|--------------|-------|-----|-----|--------------|--|
| < Messa   | geHeaderOut> |       |     |     |              |  |
| 9   | BodyLen      | Y     | 4   | 0   | unsigned int | Number of bytes for the message, in-   |
|   |              |       |     |     |              | cluding this field.                    |
| 28500   | TemplateID   | Y     | 2   | 4   | unsigned int | Unique identifier for a T7 ETI         |
|   |              |       |     |     |              | message layout. Value: 10032           |
|   |              |       |     |     |              | (ApplicationMessageReport, Msg-        |
|   |              |       |     |     |              | Type = BY)                             |
| 39020   | Pad2         | U     | 2   | 6   | Fixed String | not used                               |
| <notifh< td=""><td>leader&gt;</td><td></td><td></td><td></td><td></td><td></td></notifh<> | leader>      |       |     |     |              |  |
| 52  | SendingTime  | Y     | 8   | 8   | UTCTimestamp | Outgoing timestamp; filled always by   |
|   |              |       |     |     |              | the gateway                            |
| < Messa   | geBody>      |       |     |     |              |  |
| 28724   | ApplIDStatus | Y     | 4   | 16  | unsigned int | Application sequencing related error   |
|   |              |       |     |     |              | code.                                  |
|   |              |       |     |     |              | Value Description                      |
|   |              |       |     |     |              | Error converting response or           |
|   |              |       |     |     |              | broadcast                              |
|   |              |       |     |     |              | * More values                          |
|   |              |       |     |     |              |  |
| 28728   | RefApplSubID | N     | 4   | 20  | unsigned int | Unique ID for the subscription in-     |
|   |              |       |     |     |              | stance assigned by the T7 system dur-  |
|   |              |       |     |     |              | ing broadcast subscription.            |
| 30354   | VarTextLen   | Y     | 2   | 24  | Counter      | Number of used bytes for field VarText |
|   |              |       |     |     |              | (30355).                               |

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| Tag   | Field Name    | Req'd | Len  | Ofs | Data Type       | Description                             |
|-------|---------------|-------|------|-----|-----------------|---|
| 1355  | RefAppIID     | Y     | 1    | 26  | unsigned int    | Application identifier of a T7 ETI data |
|       |               |       |      |     |                 | stream.                                 |
|       |               |       |      |     |                 | Value Description                       |
|       |               |       |      |     |                 | 1 Trade                                 |
|       |               |       |      |     |                 | 2 News                                  |
|       |               |       |      |     |                 | 3 Service Availability                  |
|       |               |       |      |     |                 | 4 Session Data                          |
|       |               |       |      |     |                 | 5 Listener Data                         |
|       |               |       |      |     |                 | 6 Risk Control                          |
|       |               |       |      |     |                 | 7 TES Maintenance                       |
|       |               |       |      |     |                 | 8 TES Trade                             |
|       |               |       |      |     |                 | 9 SRQS Maintenance                      |
|       |               |       |      |     |                 | 10 Service Availability Market          |
|       |               |       |      |     |                 |   |
| 1409  | SessionStatus | Y     | 1    | 27  | unsigned int    | Session status.                         |
|       |               |       |      |     |                 | Value Description                       |
|       |               |       |      |     |                 | 0 Session active                        |
|       |               |       |      |     |                 | 4 Session logout complete               |
|       |               |       |      |     |                 |   |
| 39040 |               | U     | 4    | 28  | Fixed String    | not used                                |
| 30355 | VarText       | Y     | 2000 | 32  | Variable String | Error text.                             |
|       |               |       |      |     |                 | Valid characters: \x09, \x0A, \x0D,     |
|       |               |       |      |     |                 | \x20-\x7B, \x7D, \x7E                   |

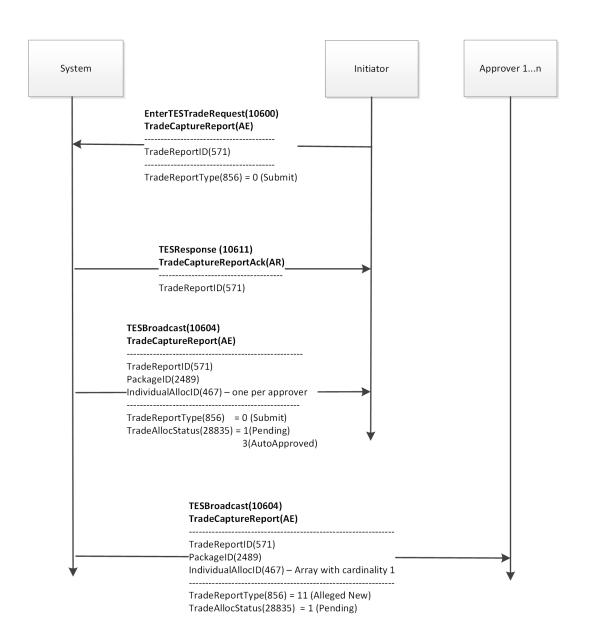
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# A Appendix

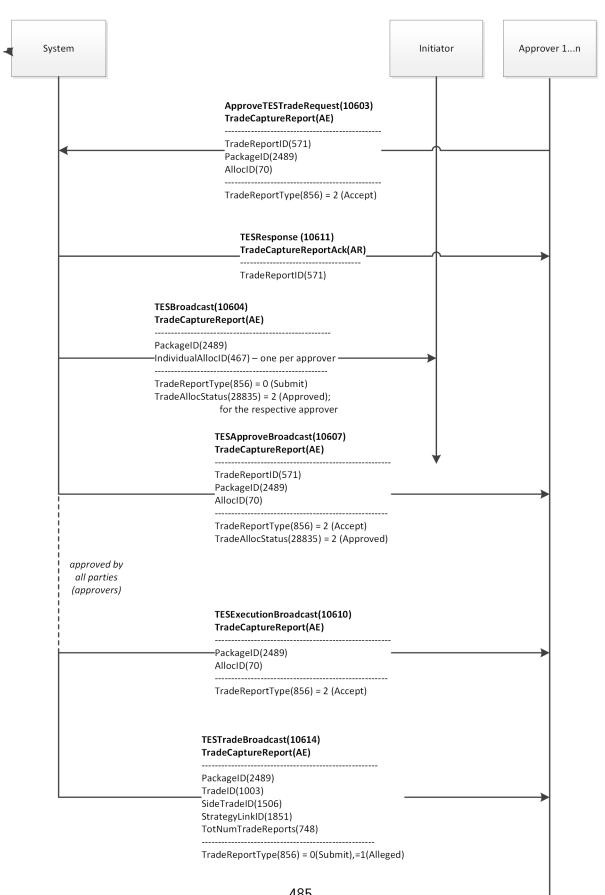
## A.1 T7 Entry Service Message Flow

### ETI: Message flow for EnterTESTradeRequest



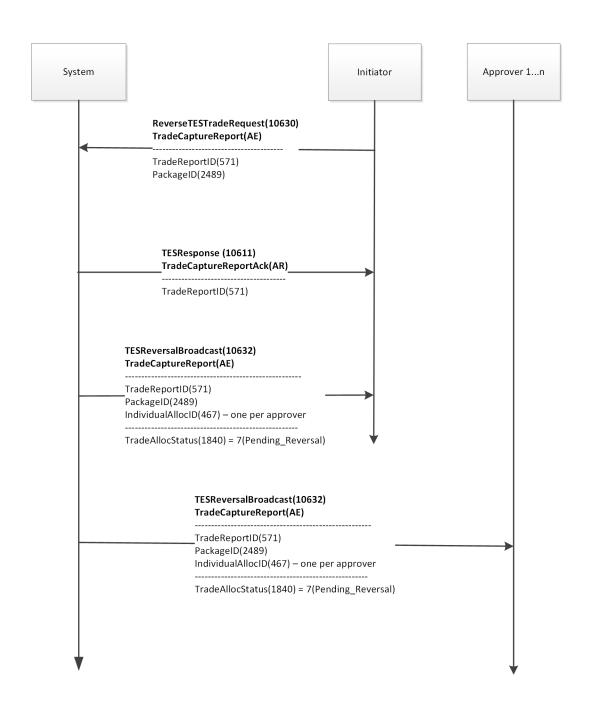
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ETI: Message flow for ApproveTESTradeRequest



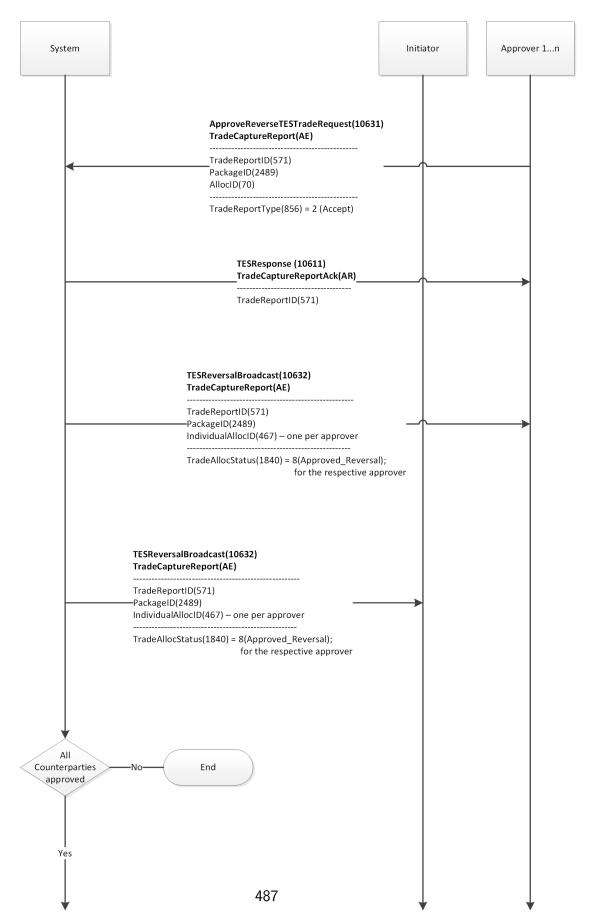
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### ETI: Message flow for ReverseTESTradeRequest



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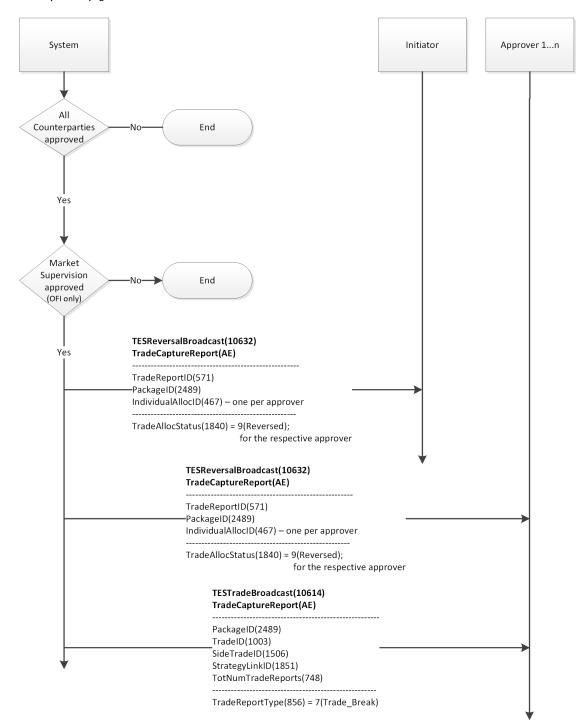
ETI: Message flow for ApproveReverseTESTradeRequest



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### ETI: Message flow for ApproveReverseTESTradeRequest

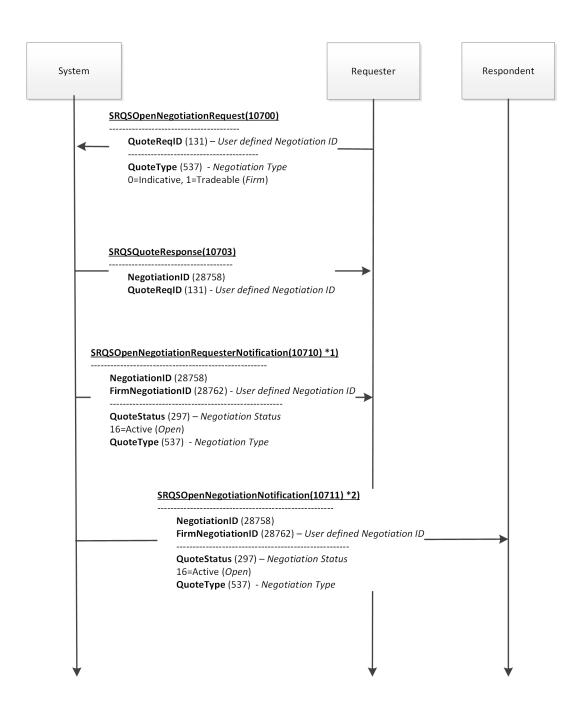
#### Continued from the previous page



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## A.2 SRQS Message Flows

ETI: Message flow for SRQS Open Negotiation

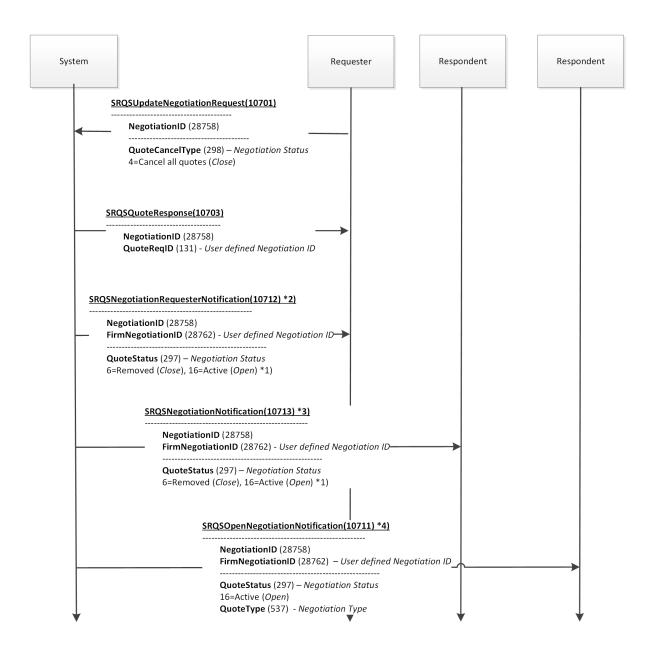


<sup>\*1)</sup> to the business unit of the negotiation related requester

<sup>\*2)</sup> to the business units of the addressed target parties

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#### ETI: Message flow for SRQS Update Negotiation (by Requester)



<sup>\*1)</sup> Closed when set by the requester.

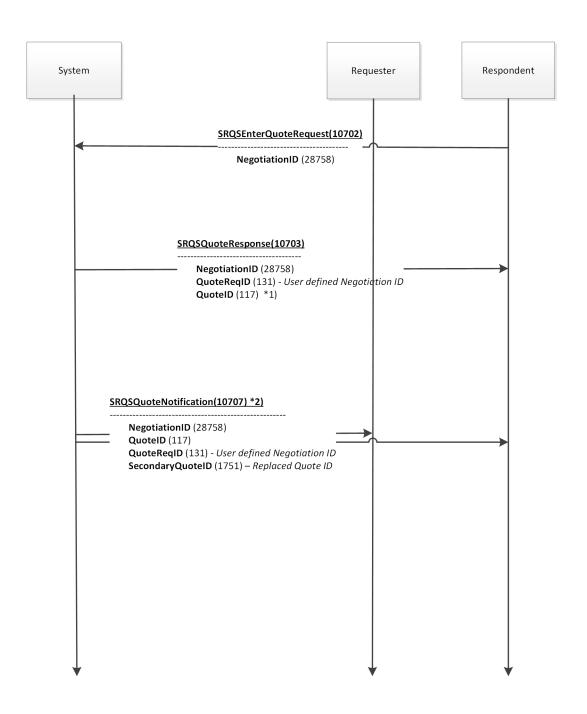
<sup>\*2)</sup> to the business unit of the negotiation related requester

<sup>\*3)</sup> to the business units of addressed target parties already involved in that negotiation

<sup>\*4)</sup> to the busniess units of newly addressed target parties

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### ETI: Message flow for SRQS Enter Quote

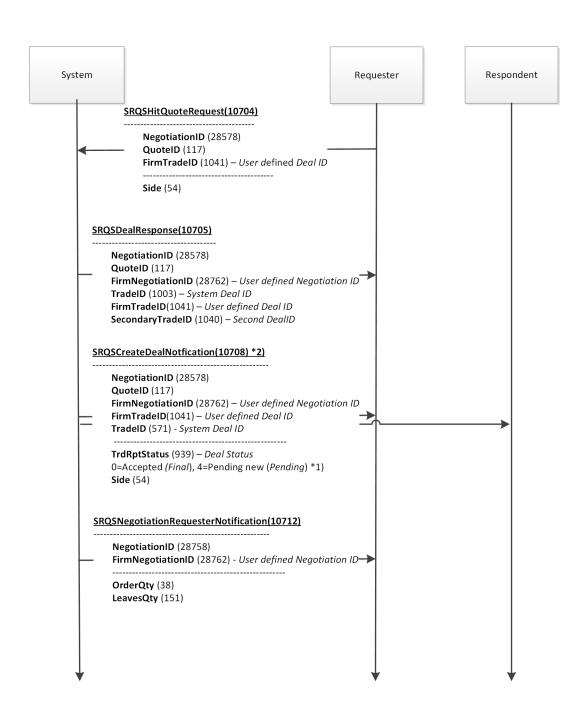


<sup>\*1)</sup> any "overwritten" (updated) quote will result in a new QuoteID – not set in case of Quote delete

<sup>\*2)</sup> to the business units of the quoting respondent and the negotiation related requester

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#### ETI: Message flow for SRQS Hit Quote

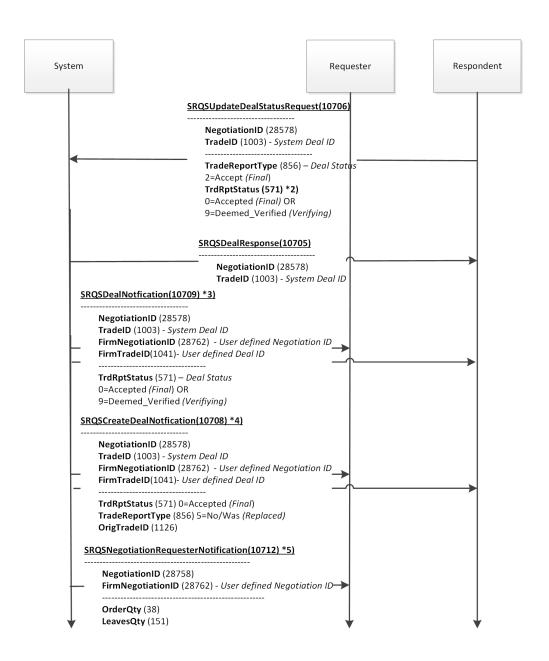


<sup>\*1)</sup> depending on NegotiationType: [ Firm → Final | Indicative → Pending ]

<sup>\*2)</sup> to the business units of quote hitting requester and the quote owning respondent

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#### ETI: Message flow for SRQS Confirm Deal \*1)



<sup>\*1)</sup> either needed for indicative negotiations (finalize deal ) or working delta (verify or finalize deal)

<sup>\*2)</sup> working delta deal only

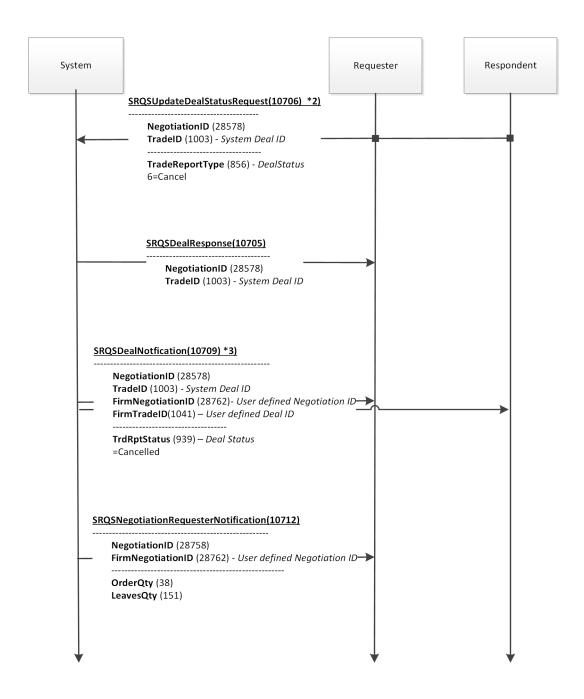
<sup>\*3)</sup> to the business units of the deal status updating respondent and the deal related requester – for finalizing non-working delta or verifying working delta deals

<sup>\*4)</sup> to the business units of the deal finalizing respondent and the deal related requester – only in case of finalizing a working delta deal

<sup>\*5)</sup> only in case of a final deal

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### ETI: Message flow for SRQS Cancel Deal \*1)



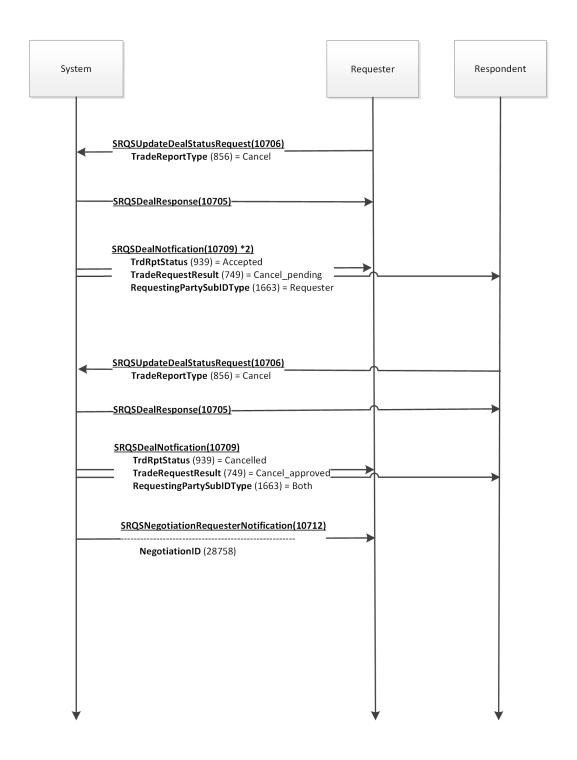
 $<sup>^{*}</sup>$ 1) only in case of indicative negotiations

<sup>\*2)</sup> Request can be sent from both requester and respondent

<sup>\*3)</sup> to the business unit of the deal cancelling requester and the deal related respondent

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### ETI: Message flow for SRQS approved mutual cancellation \*1) \*2)

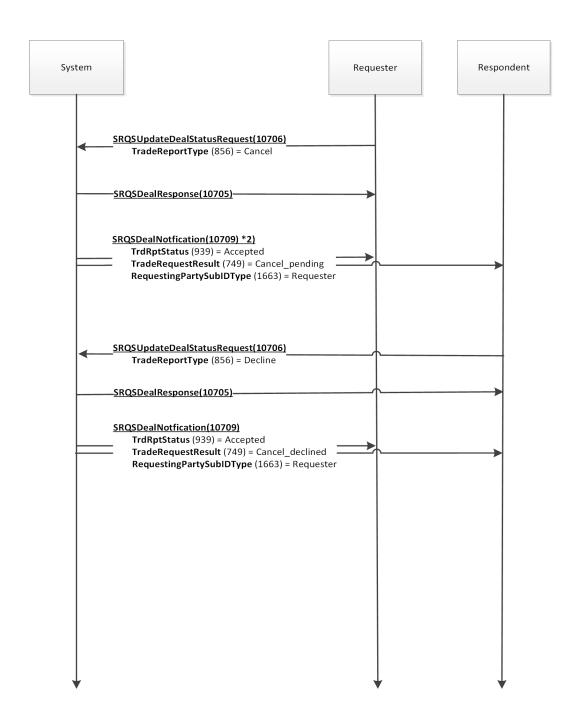


st1) only valid for final STP deal and after negotiation expiry.

 $<sup>^{*}</sup>$ 2) same message flow is valid if mutual cancellation is triggered by a respondent

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ETI: Message flow for SRQS declined mutual cancellation \*1) \*2)

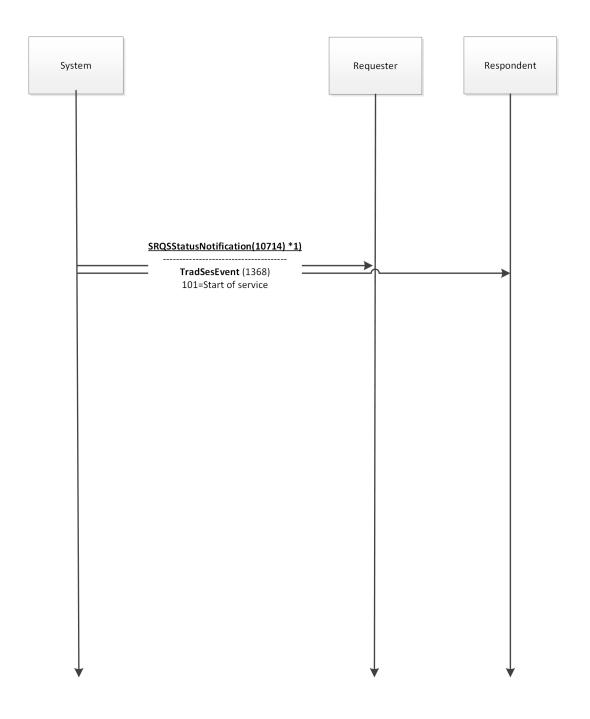


<sup>\*1)</sup> only valid for final STP deals and after negotiation expiry

<sup>\*2)</sup> same message flow is valid if mutual cancellation is triggered by a respondent

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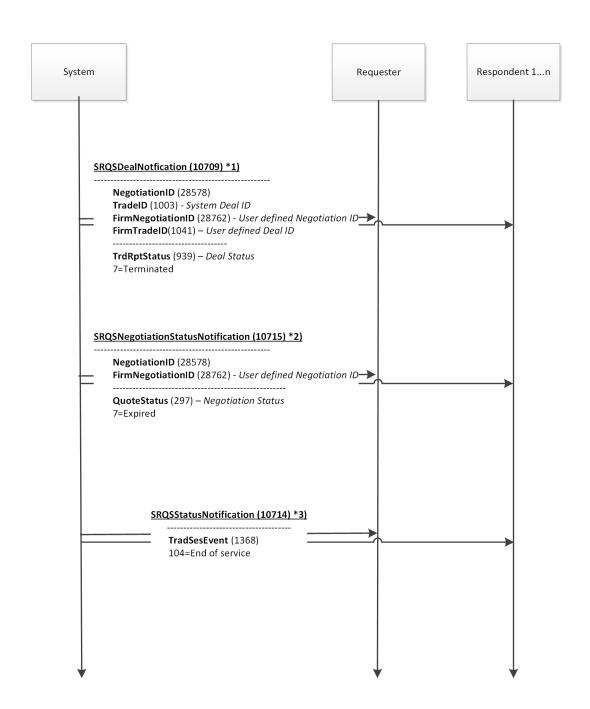
ETI: Message flow for SRQS Start of Day



<sup>\*1)</sup> to all known business units

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### ETI: Message flow for SRQS End of Day



st1) for all pending deals: to requester and related respondent

<sup>\*2)</sup> for all open negotiations: to requester and all respondents

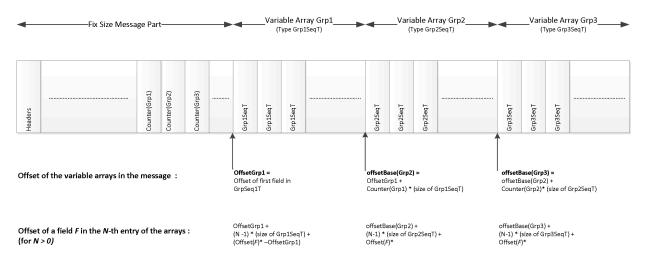
<sup>\*3)</sup> to all known business units

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|--|--|--|--|--|
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## A.3 Variable Arrays

How to Access Variable Arrays and Fields within Variable Arrays



<sup>\*</sup> Offset -> taken from XML-file: value of the offset attribute of a field 'F' in a message

## A.4 XML Interface Description

The ETI interface description is also available as a machine readable XML file. The structure of the XML is described by an XML schema file.

The XML file consists of the following parts and definitions:

| Definitions        | Description   |  |  |  |  |
|--------------------|---|--|--|--|--|
| MessageFlow        | A "MessageFlow" is a flow diagram describing the system behavior from the user's point of view. The MessageFlow is represented as a tree of nodes.  |  |  |  |  |
| ApplicationMessage | An "ApplicationMessage" represents a top-level structure which describes a message transmitted between the participant and user and the exchange. In contrast to the "Structure" definition, all components and repeating groups are uncollapsed. Valid values and description of fields are provided in the application scope. |  |  |  |  |
| Structure          | A "Structure" is either the definition of a top-level-structure ("Message") or of a (repeated) sub-structure. Components and repeating groups are provided in a collapsed representation. All fields show the complete list of valid values.  |  |  |  |  |
| DataType           | A "DataType" is the technical and functional description of a data field. Each "DataType" is part of a (multi-level) inheritance tree based on the following "rootTypes": <b>String</b> , <b>float</b> , <b>int</b> , and <b>data</b> .   |  |  |  |  |

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**Definitions** 

Description

For a detailed description of all available XML elements and attributes please refer to the XML schema file.

## **B** Change Log

## B.1 T7 Release 11.1 – Production Version (ETI 11.1-D0003)

Changes to the T7 Release 11.1 – Simulation Version

 changed valid value Derivatives to D0003 of field DefaultCstmApplVerSubID in message Session Logon Response (10001)

## B.2 T7 Release 11.1 – Simulation Version (ETI 11.1-D0002)

Changes to the T7 Release 11.1 – Cloud Simulation Version

• changed valid value *Derivatives* to *D0002* of field *DefaultCstmApplVerSubID* in message Session Logon Response (10001)

## B.3 T7 Release 11.1 – Cloud Simulation Version (ETI 11.1-D0001)

Changes to the T7 Release 11.0 - Production Version

- changed valid value *Derivatives* to *D0001* of field *DefaultCstmApplVerSubID* in message Session Logon Response (10001)
- added field MultilegModel to message Create Strategy (10301)
- changed range of sequence BasketRootPartyGrp in messages Amend Basket Trade Request (10629),
   Approve Basket Broadcast (10627), Basket Trading Broadcast (10625), Enter Basket Trade Request (10620), Modify Basket Trade Request (10621)
- added field PartyEndClientIdentification to messages Approve TES Trade Request (10603), Replace
  Order Multi Leg (10114), Replace Order Single (10106), New Order Multi Leg (10113), New Order
  Single (10100), SRQS Hit Quote Request (10704)
- added field BasketAnonymity to message Basket Trading Broadcast (10625), Enter Basket Trade Request (10620)
- added field ImpliedCheckPriceIndicator to message Response to a CLIP Request (10133)
- added messages Inquire Margin Based Risk Limit Request (10323), Inquire Margin Based Risk Limit Response (10324), Session Logon (Password encrypted) (19000), Update Remaining Risk Allowance Base Request (10325), Update Remaining Risk Allowance Base Response (10326), User Logon (Password encrypted) (19018)
- added fields LatestPublicKeySeqNo, PublicKeyLen, PublicKey to message Session Logon Response (10001)

| Deutsche Börse Group's T7 Release 11.1 | Deutsche Börse Group            |
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| Enhanced Trading Interface             | Deather Borse Group             |
| 3                                      |                                 |
| Derivatives Message Reference          | Build 111.470.1.ga-111004071-18 |

- added valid value No\_Clearing\_Product\_Assignment (169) to field QuoteEntryRejectReason in message Mass Quote Response (10406)
- added valid values New Order Single (340), CLIP\_Arrangement\_time\_out (343), CLIP\_Arrangement\_Validation (344) to field ExecRestatementReason in message Extended Order Information (10117)
- added field *ActivationDate* to sequence *RiskLimitsRptGrp* in message Pre-Trade Risk Limit Response (10313)
- added valid value Password\_Timestamp\_Not\_In\_Grace\_Period (228) to field SessionRejectReason in message Reject (10010)
- added field FeeldntCode to messages TES Trade Broadcast (10614), Trade Notification (10500)