



# T7 FIX Gateway

T7 FIX Gateway Manual (FIX 4.4)

Version	V10.0
Interface Version	T7-10.0-1
Back End Version	T7 10.0
Date	3 November 2021

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## Contents

<b>1 List of abbreviations</b>	<b>8</b>
<b>2 Introduction</b>	<b>9</b>
2.1 Purpose	10
2.2 Supported FIX Versions	10
2.3 Functionality not supported anymore	10
2.4 Intended Readership	10
2.5 Change Log	11
<b>3 Service Description</b>	<b>12</b>
3.1 FIX Session Concept	12
3.2 Party Identification	12
3.3 Market Identifier Codes	13
3.4 Security Identification	14
3.5 Order ID Policy	15
3.6 Uniqueness of Identifiers	16
3.7 Quantity Fields	17
3.8 Pending Responses "Request Status Unknown"	18
3.9 Order Management	19
3.9.1 Order Types / Trading, Execution and Validity Restrictions	19
3.9.1.1 Relevant FIX Fields for the identification of the Order Types	22
3.9.2 Price Validity Checks	23
3.9.2.1 Price Reasonability Check	23
3.9.2.2 Extended Price Range Validation	23
3.9.3 Notional Value and Quantity Checks	24
3.9.4 Cancellation	25
3.9.5 Modification	25
3.9.6 Self Match Prevention	25
3.9.7 Account Structure	26
3.9.8 Text Fields	26
3.9.9 Order Status and Execution Report	27
3.9.10 ExecutionReport (8) "Request Status Unknown"	29
3.9.11 Order Book Restatement	29
3.9.12 Passive Liquidity Protection (PLP)	30
3.9.13 Trailing Stop Order Update Notifications (T7 Cash)	30
3.9.14 Unsolicited Order Cancellations generated by the Trading System (T7 Cash)	30
3.9.15 Mass Cancellation Notification	32
3.9.16 Trading Session Events	34
3.10 Trade Capture	35
3.10.1 Trade Capture via Back-Office Session	35
3.10.2 Trade Capture via Trading Session (T7 Cash)	35
3.10.3 T7 Entry Service (TES)	35
3.10.4 Xetra/Eurex EnLight	35
3.10.5 Trade Capture Report - Identification Criteria	36
3.10.5.1 Trade Types	36
3.10.5.2 Trade Report Types	37
3.10.5.3 Message Event Source	38
3.10.6 Trade Reconciliation (On-Book Trades)	39
3.10.7 Best Practices for Order Management	40
3.11 Cross Request	41
3.11.1 Cross Trade Announcement	41
3.11.2 Client Liquidity Improvement Process (CLIP) (T7 Derivatives)	41
3.12 Quote Request Functionality	43

3.12.1	Request for Public Quotes	43
3.12.2	Request for Private Quotes (T7 Cash - T7 Boerse Frankfurt)	44
3.13	Pre-Trade Risk Limits (T7 Derivatives)	45
3.14	Risk Control Event Notifications	45
3.15	Mass Deletion Request	46
3.16	Session Details List	47
3.17	Drop Copy for Order Information (Business Unit Level)	47
3.18	Regulatory Requirements - MiFID II Functionality	48
3.18.1	Short Code Solution	48
3.18.2	Audit Trail and ALGO Flags	48
3.18.2.1	Client Identifier	48
3.18.2.2	Execution Identifier	49
3.18.2.3	Investment Identifier	49
3.18.3	Market Making	49
3.18.4	Trading Venue Transaction Identification Code (TVTIC)	49
3.18.5	Direct Market Access (DMA) Identification	49
3.19	Xetra/Eurex EnLight - Selective RFQ Platforms	50
3.20	Continuous Auction Specialist Model (T7 Cash - T7 Boerse Frankfurt)	51
3.20.1	Quote Request Solution (Private Quotes)	51
3.20.2	Order Maintenance from Specialist on Behalf of other Business Units	51
3.20.3	Locked Stock Scenarios	52
3.21	Issuer State Change Request (T7 Cash)	56
3.22	Strategy Creation (T7 Derivatives)	56
3.23	Variance Futures (T7 Derivatives)	56
3.24	Total Return Futures (T7 Derivatives)	57
3.25	Decaying Futures (T7 Derivatives)	57
<b>4</b>	<b>Connectivity and Session Parameters</b>	<b>58</b>
4.1	Session Identification and Authentication	58
4.1.1	Session Identification and Logon Parameters	58
4.1.2	Network Authentication	58
4.1.3	Session Logon	59
4.1.4	Trader Logon	59
4.1.5	IP Addresses and Ports	60
4.2	Failover	61
4.2.1	Network Failover	61
4.2.2	Application Failover	61
4.2.3	Best Practice	61
4.3	Message Throttling and Queuing	62
4.4	Mass Cancellation on Disconnect	62
4.5	Backward Compatibility	62
<b>5</b>	<b>Session Layer</b>	<b>63</b>
5.1	Logon	63
5.2	Sequence Number	63
5.3	Heartbeat	63
5.4	Test Request	64
5.5	Resend Request	64
5.6	Reject	64
5.7	Sequence Reset	64
5.7.1	Gap Fill Mode	64
5.7.2	Reset Mode	64
5.8	Logout	65
5.9	Possible Resend	65
5.9.1	Messages from Client	65

5.9.2	Messages to Client . . . . .	65
5.10	Recovery . . . . .	66
5.10.1	Outage on the Client Side . . . . .	66
5.10.2	Outage on T7 FIX Gateway Side . . . . .	66
<b>6</b>	<b>Message Formats</b>	<b>67</b>
6.1	Overview of supported Message Types . . . . .	67
6.1.1	Administrative Messages . . . . .	67
6.1.2	Application Messages: Order Management . . . . .	68
6.1.3	Application Messages: Security Status Definition Request . . . . .	69
6.1.4	Application Messages: Strategy Creation . . . . .	69
6.1.5	Application Messages: Party Risk Limits . . . . .	69
6.1.6	Application Messages: Cross Request . . . . .	69
6.1.7	Application Messages: Quote Request Functionality . . . . .	70
6.1.8	Application Messages: Trade Capture . . . . .	71
6.1.9	Application Messages: Other . . . . .	71
6.2	Explanation of the Message Formats . . . . .	73
6.3	Message Header and Trailer . . . . .	74
6.3.1	Message Header . . . . .	74
6.3.2	Message Trailer . . . . .	75
6.4	Administrative Messages . . . . .	76
6.4.1	Session Logon . . . . .	76
6.4.2	Session Logout . . . . .	78
6.4.3	Heartbeat . . . . .	78
6.4.4	Test Request . . . . .	79
6.4.5	Resend Request . . . . .	79
6.4.6	Business Message Reject . . . . .	80
6.4.7	Reject . . . . .	81
6.4.7.1	SessionRejectReason (373): List of Valid Values . . . . .	82
6.4.8	Sequence Reset . . . . .	83
6.5	Application Messages: Order Management . . . . .	84
6.5.1	New Order Single . . . . .	84
6.5.2	New Order Multileg . . . . .	90
6.5.3	Order Cancel Request . . . . .	94
6.5.4	Order Cancel/Replace Request . . . . .	96
6.5.5	Multileg Order Cancel/Replace Request . . . . .	101
6.5.6	Execution Report . . . . .	105
6.5.6.1	ExecRestatementReason (378): List of Valid Values . . . . .	115
6.5.7	Order Cancel Reject . . . . .	117
6.5.8	Order Mass Action Report . . . . .	119
6.5.9	Order Mass Action Request . . . . .	122
6.5.10	Order Mass Action Response . . . . .	124
6.6	Application Messages: Issuer State Change Request . . . . .	127
6.6.1	Security Status Definition Request . . . . .	127
6.6.2	Security Status . . . . .	129
6.7	Application Messages: Strategy Creation . . . . .	130
6.7.1	Security Definition Request . . . . .	130
6.7.2	Security Definition Response . . . . .	131
6.8	Application Messages: Cross Request . . . . .	133
6.8.1	Cross Request . . . . .	133
6.8.1.1	Cross Request - Usage of the Fields . . . . .	138
6.8.2	Cross Request Acknowledgement . . . . .	140
6.9	Application Messages: Quote Request Functionality . . . . .	142
6.9.1	Quote Request . . . . .	142
6.9.2	Mass Quote Acknowledgement . . . . .	144

6.9.3	Quote	145
6.9.4	Quote Request Reject	146
6.9.5	Quote Request Functionality - Message Flows	147
6.9.5.1	Public and Private Quotes - Common Message Flows	147
6.9.5.2	Successful Public Quote Request - Message Flow	147
6.9.5.3	Successful Private Quote Request - Message Flow (T7 Cash - T7 Boerse Frankfurt)	148
6.10	Application Messages: Party Risk Limits	150
6.10.1	User Party Risk Limits Request	150
6.10.2	User Party Risk Limits Report	151
6.11	Application Messages: Trade Capture	154
6.11.1	Trade Capture via Back-Office Session	170
6.11.1.1	Settlement Location: List of Valid Values	175
6.11.2	Trade Capture via Trading Session (T7 Cash)	176
6.11.2.1	TES Requests	176
6.11.2.2	Trade Capture Report Ack	179
6.11.2.3	TES Broadcasts	181
6.11.2.4	TES Message Flows	184
6.12	Application Messages: Other	188
6.12.1	User Request	188
6.12.2	User Response	189
6.12.3	User Notification	190
6.12.4	Trading Session Status	191
6.12.5	Session Details List	193
6.12.6	Party Risk Limits Update Report	194
6.12.7	Party Entitlements Update Report	195
6.12.8	Party Action Report	196
6.13	Components	198
6.13.1	<Instrument>	198
6.13.2	<TrdgSesGrp>	201
6.13.3	<MtchgInst>	201
6.13.4	<NotAffectedOrdersGrp>	202
6.13.5	<AffectedOrdersGrp>	202
6.13.6	<QuoteReqGrp>	203
6.13.7	<Parties>	204
6.13.7.1	Party Component Block	205
6.13.7.2	Order Management and Other Messages: Party Information	208
6.13.7.3	Trade Capture Report: Party Information	210
6.13.7.4	Cross Request: Party Information	212
6.13.8	<RootParties>	213
6.13.8.1	Root Parties	213
6.13.9	<NestedParties2>	214
6.13.9.1	NestedParty2 Roles	214
6.13.10	<TargetParties>	215
6.13.10.1	Target Party Component Block for FIX 4.4	215
6.13.10.2	Target Party Field for FIX 4.2 / Target Party Roles for FIX 4.4	215
6.13.11	<RequestingParties>	216
6.13.11.1	Requesting Party Component Block for FIX 4.4	216
6.13.11.2	Requesting Party Fields for FIX 4.2 / Requesting Party Roles for FIX 4.4	216
6.13.12	<InstrmtLegGrp>	217
6.13.13	<InstrmtLegExecGrp>	218
6.13.14	<LegOrdGrp>	219
6.13.15	<MarketSegmentGrp>	220
6.13.16	<DisclosureInstructionGrp>	221
6.13.17	<DisplayInstruction>	222

6.13.18	<PegInstructions>	223
6.13.19	<OrderAttributeGrp>	223
6.13.20	<ValueChecksGrp>	224
6.13.20.1	Valid Values of <ValueChecksGrp>	225
6.13.21	<OrderEventGrp>	226
6.14	Error Codes	227
6.14.1	Rejections - FIX Messages and Error Information	227
6.14.2	Error Codes - Usage and special handling of some backend codes	228
6.14.3	Error Codes from T7 FIX Gateway	229
6.14.4	Error Codes from T7 Backend	231

## 1 List of abbreviations

Please find a list of all the abbreviations used in the document.

FIX	Financial Information eXchange
TCP/IP	Transmission Control Protocol / Internet Protocol
FPL	FIX Protocol Limited
ETI	Enhanced Trading Interface
RDI	Reference Data Interface
MIC	Market Identifier Code
MDI	Market Data Interface
KRX	Korea Exchange
GUI	Graphical User Interface
TES	T7 Entry Service
CLIP	Client Liquidity Improvement Process
PLP	Passive Liquidity Protection



## 2 Introduction

The T7 FIX Gateway is intended for participants that require a standard FIX connection to the exchange and supports all T7 market types:

**T7 Cash:** The market type T7 Cash includes all Xetra T7 exchanges.

**T7 Derivatives:** The market type T7 Derivatives includes all Eurex T7 exchanges.

The target of this document is to provide a way to access the T7 trading system via an interface using the FIX protocol. The interface includes basic trading functionality for T7 Cash and T7 Derivatives markets in a consolidated manner.

The T7 FIX Gateway provides the following trading functions:

- Order management
- Execution notifications
- Risk control event notifications
- Request for quote
- Cross Trade Announcement
- Client Liquidity Improvement Process (CLIP) (only for T7 Derivatives)
- Creation of a strategy (only for T7 Derivatives)
- Inquiry of risk limits information (only for T7 Derivatives)
- Off-book trade entry (only for T7 Cash)

The T7 trading system supports the access via FIX Gateway for both market types, T7 Derivatives and T7 Cash.

It is possible to use one FIX session for the access to several exchanges within the market type T7 Cash, but for the access to T7 Boerse Frankfurt (Boerse Frankfurt and Boerse Frankfurt Zertifikate) dedicated FIX sessions are required.

The possibility of the access to the different market types via a unique FIX session will not be offered.

Participants are requested to order separate FIX sessions for their business units for the different T7 platforms: T7 Cash for all XMICs except T7 Boerse Frankfurt, T7 Boerse Frankfurt, T7 Derivatives. This can be done via the Xetra Member Section (T7 Cash) and the Eurex Member Section (T7 Derivatives) respectively.

**Note:** The T7 FIX Gateway does not provide any reference data. Participants are asked to retrieve reference data via the RDI (Reference Data Interface), via file provided on the Common Report Engine or from the web page of the respective market (T7 Cash, T7 Derivatives).

## 2.1 Purpose

The purpose of this document is to provide an overview of the T7 FIX Gateway for the T7 trading system. The focus of the description is to capture T7 specific behaviour, highlight where it deviates from the recommended FIX Protocol standard and keep the amount of the FIX specification which needs to be included in this document to a minimum.

This document contains the description for all supported market types (Cash and Derivatives). Differences between the different market types are documented at the relevant places within this document.

## 2.2 Supported FIX Versions

Only FIX protocol version 4.4 is supported.

The interface is a point-to-point service based on the technology and industry standards TCP/IP, FIX and FIX Session Protocol. The session and application event models and messages are based on the definitions of the FIX protocol for the supported versions.

Following a FIX Protocol Limited (FPL) recommendation to use standard fields from higher versions as the primary solution before using user-defined fields, Deutsche Boerse applies the following design rules for support of functionality currently not provided in the corresponding FIX version:

- Fields reserved for internal use (Tag numbers 10000 - 19999) are not used.
- Standard fields of the supported FIX versions that only became part of the standard message in a higher version are used.
- FIX fields of higher versions are only added to standard messages, if no standard field for the required functionality is available in the supported FIX versions.

Characters in ASCII range 32-126 are allowed.

## 2.3 Functionality not supported anymore

As part of the stepwise migration of the existing T7 FIX interface to the T7 FIX LF interface, part of the functionality offered via the T7 FIX Gateway has been deactivated starting with T7 Release 10.0:

- Backoffice functionality: Backoffice sessions are not offered anymore
- FIX 4.2 version: FIX 4.2 sessions are not offered anymore
- SMP functionality: requests containing a Self Match Prevention ID will be rejected
- Pre-trade risk limits functionality: request *UserPartyRiskLimitsRequest (UCL)* will be rejected

Please note that most of the references to the related functionalities have not been removed from this document.

## 2.4 Intended Readership

The main target group is technical staff within the T7 trading system participants. Throughout this document the term "participant" stands for a T7 participant (see **chapter 3.2 Party Identification** for details).

## 2.5 Change Log

Date	Version	Description
09.06.2021	9.1	Interface Version T7-9.1-1 (last version for T7 9.1)
06.08.2021	10.0	<p>Interface Version T7-10.0-1 (first version for T7 10.0)</p> <p>Following functionality is not supported anymore (2.3):</p> <ul style="list-style-type: none"> <li>• Backoffice functionality: Backoffice sessions are not offered anymore</li> <li>• FIX 4.2 version: FIX 4.2 sessions are not offered anymore</li> <li>• SMP functionality: requests containing a Self Match Prevention ID will be rejected</li> <li>• Pre-trade risk limits functionality: request <i>UserPartyRiskLimitsRequest (UCL)</i> will be rejected</li> </ul> <p>New valid value for T7 Derivatives (6.5.6.1):</p> <ul style="list-style-type: none"> <li>• <i>ExecRestatementReason (378) = 302 (Market Order Uncrossing)</i></li> </ul> <p>For ISINs traded in more than one currency, the default <i>EUR</i> (Euro) will be used if the currency field is missing in the FIX requests (3.4).</p>
03.11.2021	10.0	<p>Interface Version T7-10.0-1 (production version for T7 10.0)</p> <p>No changes compared to the previous version</p>

## 3 Service Description

### 3.1 FIX Session Concept

As per the FIX Protocol standard, a FIX session is defined as a bi-directional stream of ordered messages between two parties within a contiguous sequence number.

A participant may have multiple FIX sessions. A FIX session will be initiated by the participant, and maintained between the participant and the T7 FIX Gateway over the course of a trading day.

Participants are required to order separate FIX sessions for the access to the different T7 platforms: T7 Cash for all XMICs except T7 Boerse Frankfurt, T7 Boerse Frankfurt, T7 Derivatives.

The T7 FIX Gateway supports two types of sessions:

**Trading session:** supports order management, request for quote, cross trade announcement, Client Liquidity Improvement Process (CLIP) (Derivatives only), risk control events, strategy creation (Derivatives only) and off-book trade entry (Cash only). Each session will receive information for all of its own orders. Several traders may share a single session, but every session can only be instantiated once.

**Back-office session:** used for receipt of trade confirmations at business unit level. Clearing business units receive trade confirmations from their trading business units and from their non-clearing members. Back-office sessions can be configured to receive additionally drop copy information for standard (not lean) orders as well as risk control events at the business unit level. The clearing members don't receive drop copy order information from their non-clearing members.

### 3.2 Party Identification

The **participant** is an entity accessing the T7 Trading System.

A participant may have several **business units** as independent entities taking part in trading at the exchange. Business units are identified by a business unit ID. A business unit belongs to a participant.

A **user** is a person, such as a trader or an exchange market supervisor that interacts with the T7 Trading System. Users are identified by a user ID. A user belongs to one business unit. A user is a trader or administrator that logs on to the system to enter commands on the trading system.

Users can be assigned to a specific **trader group**, along with the head trader and supervisor roles:

- A user with a user level of **head trader** may modify or cancel orders of any user belonging to the same trader group.
- A user with a user level of **supervisor** may modify or cancel orders of any user belonging to the same business unit.

For the version FIX 4.4 the <Parties> component block will be used to identify the parties in the FIX messages. For each party a separate occurrence of the repeating group will be set up. For FIX 4.2 a separate field will be defined for each party. For more information see **chapter 6.13.7 <Parties>**.

### 3.3 Market Identifier Codes

The FIX Gateway is designed to support the access to all markets on T7 (Cash and Derivatives). The supported markets are identified by unique Market Identifier Codes (MIC):

Market Identification (MIC)	Derivatives	Cash	Description
XEEE	✓		European Energy Exchange
XEUR	✓		Eurex Deutschland
XBUD		✓	Budapest Stock Exchange
XBUL		✓	Bulgarian Stock Exchange
XETR		✓	Xetra Frankfurt
XFRA		✓	T7 Boerse Frankfurt (Boerse Frankfurt and Boerse Frankfurt Zertifikate)
XLJU		✓	Ljubljana Stock Exchange
XMAL		✓	Malta Stock Exchange
XPRA		✓	Prague Stock Exchange
XVIE		✓	Vienna Stock Exchange
XZAG		✓	Zagreb Stock Exchange

### 3.4 Security Identification

Instruments traded on T7 will be identified by the product identifier (*Symbol (55)*) and the instrument identifier (*SecurityID (48)*). Both fields must be provided on the FIX requests operating on instrument level. For messages operating on product level e.g. *UserOrderMassActionRequest (UCA)* only *Symbol (55)* will be provided.

For the identification of an instrument traded on **T7 Derivatives** only the marketplace-assigned identifier with *SecurityIDSource (22) = "M" (Marketplace-assigned identifier)* will be supported and must be provided in the FIX request. Both single and multileg instruments are uniquely identified by the corresponding instrument ID. T7 Derivatives messages sent to the customers will also contain the marketplace-assigned identifier in the component `<Instrument>`.

For the identification of an instrument traded on **T7 Cash** the ISIN with *SecurityIDSource (22) = "4" (ISIN)* and the marketplace-assigned identifier with *SecurityIDSource (22) = "M" (Marketplace-assigned identifier)* will be supported. One of both identifiers must be provided in the FIX requests. If *SecurityIDSource (22)* is set to "4" (ISIN), *Symbol (55)* can contain "[N/A]" instead of the product identifier.

If an ISIN traded in more than one currency is used as instrument identifier, a currency is required to identify the instrument uniquely. This can be entered in the FIX requests in the corresponding currency field (*Currency (15) / UCurrency (30015)*). For such ISINs, if the currency field is missing in the FIX requests, the value EUR (Euro) will be assumed.

T7 Cash messages sent to the customers will contain both instrument identifiers in the component `<Instrument>`:

- **ISIN:** *SecurityID (48)* with *SecurityIDSource (22) = "4" (ISIN)*
- **Instrument ID assigned by the trading system:** *SecurityAltID (455)* with *SecurityAltIDSource (456) = "M" (Marketplace-assigned identifier)*

<code>&lt;Instrument&gt;</code>	Derivatives	Cash	Description in Derivatives - all Messages	Description in Cash - Messages from Client	Description in Cash - Messages to Client
Symbol (55)	✓	✓	Product identifier	"[N/A]" (if ISIN is used) or Product identifier	Product identifier
SecurityID (48)	✓	✓	Instrument identifier (marketplace-assigned identifier)	Instrument identifier (ISIN or marketplace-assigned identifier)	Instrument identifier (ISIN)
SecurityIDSource (22)	✓	✓	"M" (Marketplace-assigned identifier)	"4" (ISIN) "M" (Marketplace-assigned identifier)	"4" (ISIN)
ProductComplex (1227)	✓		Instrument type	-	-
SecurityType (167)	✓		Security type	-	-
SecuritySubType (762)	✓		Strategy type	-	-
NoSecurityAltID (454)		✓	-	-	"1"
SecurityAltID (455)		✓	-	-	Instrument identifier assigned by the trading system
SecurityAltID-Source (456)		✓	-	-	"M" (Marketplace-assigned identifier)

### 3.5 Order ID Policy

The standard FIX policy regarding usage of Client Order IDs is supported by the T7 FIX Gateway.

Order related messages must include a unique customer defined identifier, the Client Order ID, in the *CIOrdID (11)* field.

CIOrdIDs with 20 characters or less are accepted. Characters in ASCII range 32-126 are allowed.

A *CIOrdID (11)* may only be used once per business day and trading session. Additionally the T7 FIX Gateway enforces the uniqueness of *CIOrdID (11)* values among currently live orders. It is not recommended to reuse CIOrdIDs from inactive orders.

The Client Order ID needs to change on every modification and cancellation request; the original scope is specified by the *OrigCIOrdID (41)*. In this way the customer is able to find and track individual requests by their Client Order ID. This FIX concept is called message chaining and intended for order handling through a single interface and session.

Orders entered through the FIX Gateway can be modified through sessions of other interfaces, i.e. T7 GUI or Enhanced Trading Interface (ETI). ETI supports message chaining but does not enforce it. It is recommended to avoid using message chaining in both the FIX Gateway and ETI in order to receive order updates conducted through ETI also on the FIX Gateway. This can be done by setting *CIOrdID (11) = OrigCIOrdID (41)* in ETI which is not permitted in the FIX Gateway. The T7 GUI does not change the Client Order ID of an order by using the same approach.

Note: The FIX Gateway will ignore trailing spaces in the field CIOrdID when a client order ID is checked for uniqueness among currently live orders. A newly entered *CIOrdID (11)* is considered duplicate by the FIX Gateway, if it only differs in the number of trailing spaces from the *CIOrdID (11)* of a live order. In this case the FIX Gateway will send a *Business Message Reject (j)* message denoted by *Business-RejectReason (380) = 0 (Other) and Text (58) = "CIOrdID is not unique."*

Example: If a live order exists with the *CIOrdID (11) = "Test"*, any request with *CIOrdID (11) = "Test "* will be rejected. Note that this has no impact on the *OrigCIOrdID (41)*, which still must provide the correct number of trailing spaces to identify the corresponding order.

### 3.6 Uniqueness of Identifiers

The following table documents the criteria required for uniqueness of IDs:

FIX Field	Description	Rule	Uniqueness
ClOrdID (11)	Unique customer defined order request identifier.	The uniqueness of ClOrdID (11) is checked at entry time among currently live orders for the same session. Duplicate ClOrdID (11) values for the same session will be rejected.	- Session
ExecID (17)	The field ExecID (17) in the Execution Report provides a unique identifier and can be used for the identification of duplicate order messages.	Is unique per session.	- Session
OrderID (37)	Exchange Order ID generated by the T7 System; it remains constant over the lifetime of an order.	An exchange order ID is guaranteed to be unique among all orders of the same product.	- Product
TrdMatchID (880)	Unique identifier for each price level (match step) of a match event; it is used for public trade reporting (on-book trades only).	Is unique per product and business day.	- Business Day - Product
SecondaryExecID (527) LegExecID (1893) SideTradeID (1506)	Private identifier of an order match step event, which can be used for reconciliation between Order Executions and Trade Notifications.	Is unique per product and business day.	- Business Day - Product
SideTradeReportID (1005)	Unique identifier for each side of a trade (with or without a central counterparty). Only used for T7 Cash trades.	Is unique per trade type (on-book/off-book), product and business day.	- Trade Type - Business Day - Product
TradeReportID (571)	In messages sent via FIX Back-office sessions, the field TradeReportID (571) in the Trade Capture Report provides a unique trade identifier and can be used for the identification of duplicate trade confirmation messages.	Is unique per business day and business unit.	- Business Day - Business Unit
TradeID (1003) OrigTradeID (1126)	The TradeID (1003) field in the Trade Notification uniquely identifies all allocations referring to the same matching event, instrument and price. The OrigTradeID (1126) is delivered for trade reversals and contains the TradeID (1003) of the original trade.	Is unique per product and business day.	- Business Day - Product



... continued ...

FIX Field	Description	Rule	Uniqueness
UTransactTime (30060) MassActionReportID (1369) SecurityStatusReportID (28781)	Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).	Is unique per product.	- Product

### 3.7 Quantity Fields

Technically, the quantity fields are defined with a format that allows up to 15 digits before decimal point and at most 4 significant decimal places (Qty (15.4)).

Functionally, the usage and the allowed formats for the quantity fields are different depending on the market type and on the instrument setup:

For T7 Derivatives the user is not allowed to enter quantity fields with decimals (other than "0"). Entering a value with decimals or a value higher than the allowed maximum value leads to a rejection.

For T7 Cash the user is able to enter quantity fields with decimals (other than "0") only if the related instrument has a minimum tradeable unit less than 1. For other instruments, entering a quantity with decimals (other than "0") will lead to a rejection.

### 3.8 Pending Responses “Request Status Unknown”

For some FIX requests, a pending FIX response “request status unknown” will be generated by the T7 FIX Gateway when the status of the corresponding request is unknown. For example:

- if no response from the back end is received within a certain time (if the back end response is received by the T7 FIX Gateway afterwards an additional response message will be sent).
- if a T7 response does not contain a clearly defined processing result (e.g. ETI field *SessionRejectionReason* (373) = “105” (Error converting response or broadcast)).
- in some recovery situations (e.g. several modify order requests with *PossDupFlag* (43) = “Y” for the same order).

If a pending message indicating that the status of a FIX request is unknown is received, clients are requested to check the status of the request in an alternative way (e.g. via GUI).

Following table contains the information about the requests, for which pending responses “request status unknown” are generated, and the FIX fields used as identification criteria of the corresponding response messages:

Request	Response Message	Response Identification Criteria
Order Requests	ExecutionReport (8)	See details in “3.9.10”
User/TradeCaptureReport (UAE/AE)	User/TradeCaptureReportAck (UAR/AR)	TrdRptStatus (939) = 8 (Pending verification)
QuoteRequest (R)	Mass/QuoteAcknowledgement (b)	QuoteStatus (297) = 10 (Pending)
CrossRequest (UDS)	CrossRequestAck (UDT)	CrossReqAckStatus (25101) = 2 (Received, not yet processed)
SecurityStatusDefinitionRequest (U27)	SecurityStatus (f)	RequestResult (1511) = 4 (Data temporarily unavailable)
UserPartyRiskLimitsRequest (UCL)	UserPartyRiskLimitsReport (UCM)	RequestResult (1511) = 4 (Data temporarily unavailable)

### 3.9 Order Management

A FIX session can only modify or cancel own orders (i.e. orders previously submitted successfully on the same FIX session).

#### 3.9.1 Order Types / Trading, Execution and Validity Restrictions

The following order types are supported via the T7 FIX interface:

Order Type	Derivatives	Cash	Description	Relevant FIX Tags
Market (M)	✓	✓	Market orders have no specific price limit. They will be matched to the best price available.	- OrdType (40) = '1'
Limit (L)	✓	✓	Limit orders include a specified price limit and may not be executed at a price worse than that limit.	- OrdType (40) = '2' - Price (44)
Stop Market (S)	✓	✓	Stop orders are orders that create market orders when the specified trigger price is reached. Stop orders are not visible in the order book for any market participant.	- OrdType (40) = '3' - StopPx (99)
Stop Limit (SL)	✓	✓	Stop limit orders create limit orders when the specified trigger price is reached. Stop limit orders are not visible in the order book for any market participant.	- OrdType (40) = '4' - Price (44) - StopPx (99)
Iceberg (Ice)		✓	Limit Order that contains a peak quantity and an overall quantity. The peak quantity can be determined absolutely or randomly. Once the displayed quantity has been completely executed, a new peak is entered into the book. In auction trading, iceberg orders contribute with their overall volume.	<DisplayInstruction> - OrdType (40) = '2' - Price (44)
Volume Discovery Order (VDO)		✓	Volume Discovery Order is an enhancement of the Iceberg Order which offers the possibility to execute the hidden part of the order alternatively against other orders of this kind at the current midpoint of the order book. To use the Volume Discovery functionality two limit fields have to be set. The first limit (field Price (44)) specifies the price of the visible part of a Volume Discovery Order. The second limit (field VolumeDiscoveryPrice (25125)) specifies the upper/lower boundary price at which the possible midpoint match for the hidden volume of the buy/sell Volume Discovery Order is possible.	<DisplayInstruction> - OrdType (40) = '2' - Price (44) - VolumeDiscoveryPrice (25125)

... continued ...

Order Type	Derivatives	Cash	Description	Relevant FIX Tags
Immediate or Cancel (IOC)	✓	✓	An IOC order is to be filled immediately, either completely or to the extent possible; the portion that cannot be filled immediately is canceled. The execution restriction IOC is allowed for Market and Limit orders.	- TimeInForce (59) = '3'
Fill or Kill (FOK)		✓	A Market or Limit order, which is executed immediately and fully or not at all. If immediate and full execution is not possible, the order is canceled without entry in the order book.	- TimeInForce (59) = '4'
Good till Crossing (GTX)		✓	Allows to opt for a deletion of the Volume Discovery Order at the start of any auction or volatility interruption. In this case a delete ExecutionReport (8) with ExecRestatementReason (378) = "148" (Order Expiration Intraday) will be sent.	- TimeInForce (59) = '5'
Book or Cancel (BOC)	✓	✓	A Limit order, which is placed as resting liquidity in the order book to ensure passive execution. If immediate (and hence aggressive) execution is possible, the order is rejected without entry into the order book.	- ExecInst (18) contains '6'
Trailing Stop (TSO)		✓	A Trailing Stop order is a Stop order whose stop limit is adjusted in accordance with the development of the reference price. Because of the dynamic adjustment of the stop limit the investor does not need to permanently watch the market in order to optimize his stop limit.	- ExecInst (18) contains 'a' - OrdType (40) = 'P' - StopPx (99) - PegOffsetValue (211) - PegOffsetType (836)
One-cancels-the-other (OCO)	✓	✓	A combination of a Limit order and a Stop (Market) order, expressed as a single order. Traders will specify a limit price and a trigger price as part of one order.	- OrdType (40) = '2' - Price (44) - TriggerType (1100) = '4' - TriggerPrice (1102)
Opening auction only (OAO)		✓	Order only valid in opening auctions.	- TradingSessionSubID (625) = '2'
Closing auction only (CAO)	✓	✓	Closing auction only orders may be entered during the entire trading day, but are only active during the closing auction phase.	- TradingSessionSubID (625) = '4'
Intraday auction only (IAO)		✓	Order only valid in intraday auctions.	- TradingSessionSubID (625) = '6'
Auction only (AOO)		✓	Order only valid in auctions.	- TradingSessionSubID (625) = '8'
Special auction (SA)		✓	Order only valid in special auction.	- TradingSessionSubID (625) = '105'

... continued ...

Order Type	Derivatives	Cash	Description	Relevant FIX Tags
Good-for-day (Day)	✓	✓	All orders are assumed to be day orders unless otherwise specified. The validity of a day order ends at the close of that day's trading period.	- TimeInForce (59) = '0'
Good-till-date (GTD)	✓	✓	Order carries a specified date up to one year from entry on which the order is automatically canceled.	- TimeInForce (59) = '6' - ExpireDate (432)
Good-till-canceled (GTC)	✓	✓	Order remains valid until it is executed, canceled, or if the contract expires.	- TimeInForce (59) = '1'
Persistent	✓	✓	A Persistent order is an order that survives a trading interruption or system failure. Persistent orders are always written to disk to prevent them from being lost during an emergency and remain in the book until their validity expires.	- absence of Execlnst (18) or - Execlnst (18) contains 'H'
Non-persistent	✓	✓	Non-persistent orders are automatically canceled in case of a trading interruption or exchange system failure.	- Execlnst (18) contains 'Q'

### 3.9.1.1 Relevant FIX Fields for the identification of the Order Types

The following table shows the relevant FIX fields for identifying an order type, the usage of the relevant tags and components and the assignments of the tag values depending on the order type attribute.

Following information has to be considered:

- “Y” or “N” will indicate if tags and components are mandatory or optional for the type of order specified.
- Other values will describe the tag values allowed/supplied for the type of order specified. Example: =1/=2 means that one of the valid values “1”, “2” must be supplied.
- Empty cells will indicate that a tag or component is not allowed for the type of order specified.

Tag	Field Name	M	L	S	SL	Ice	VDO	TSO	FOK	BOC	OCO	IOC
	<Display-Instruction>					Y	Y					
	<Peg-Instructions>							Y				
18	ExecInst	N	N	N	N	N	N	contains 'a'	N	contains '6'	N	N
40	OrdType	=1	=2	=3	=4	=2	=2	=P	=1/=2	=2	=2	=1/=2
44	Price		Y		Y	Y	Y		-/Y	Y	Y	-/Y
59	TimeInForce	N	N	N	N	N	N	N	=4	N	N	=3
99	StopPx			Y	Y			Y/N				
1100	TriggerType										=4	
1102	TriggerPrice										Y	
25125	VolumeDiscoveryPrice						Y					
	<b>Derivatives</b>	✓	✓	✓	✓					✓	✓	✓
	<b>Cash</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

### 3.9.2 Price Validity Checks

There are two different price validations for orders, both considering the most recent best bid and best ask price.

#### 3.9.2.1 Price Reasonability Check

When entering or replacing an order, the user may opt for a check ensuring that the entered price does not differ significantly from the market. For using the price reasonability check functionality the field *ValueCheckType* (1869) in the component <ValueChecksGrp> has to be set to "1" (*Price check*). The field *ValueCheckAction* (1870) provides the following options:

- Valid value "0" = Do not check
- Valid value "1" = Check
- Valid value "2" = Best effort (only for T7 Derivatives)

The value "best effort" defined only for **T7 Derivatives** differs from the value "check" in the following way: If the best bid and best ask prices are not available or if their spread is not reasonable, an additional reference price (the last traded price or the theoretical price) is taken into account. If the additional reference price is also not available, the incoming order or quote is

- accepted without performing a price validation in case the submitting user choose "best effort", or
- rejected in case the submitting user chooses "check".

#### 3.9.2.2 Extended Price Range Validation

In case no price reasonability check was performed, the extended price validity check is applied which ensures that no erroneous price crosses through the market.

### 3.9.3 Notional Value and Quantity Checks

When entering or replacing an order, additional checks may be activated to prevent orders with a too large value (notional value check) or with a too large order size (quantity check) from entering the order book.

The *notional value check* functionality prevents orders with a too large order value from entering the order book. The validation verifies the order value against the maximum order value limit set by the participant for their traders.

The *quantity check* functionality prevents orders with a too large order size from entering the order book. The validation verifies the order quantity against the maximum order quantity limit set by the participant for their traders. (Iceberg orders and Volume Discovery orders will be validated with the full order quantity when entering the order book.)

The execution of these validations depends on the values entered in the component <ValueChecks-Grp>:

Validity check	Derivatives	Cash	ValueCheckType (1869)	ValueCheck-Action (1870)	Additional Information
Notional Value Check	✓	✓	"2" (Notional value check)	"0" (Do not check) "1" (Check)	-
Quantity Check		✓	"3" (Quantity check)	"0" (Do not check) "1" (Check)	Entry not allowed for T7 Derivatives. For T7 Derivatives the quantity validation will be always performed and cannot be deactivated.



### 3.9.4 Cancellation

The FIX session may only cancel orders that have been entered previously via the same session and, for T7 Boerse Frankfurt, also orders entered by the Specialist on-behalf of the customer business unit for the session.

Cancelling an order will remove the remainder of a live order from the order book. The participant must use the *OrigClOrdID (41)* to identify the order to cancel. The T7 FIX Gateway will respond with an *ExecutionReport (8)* or *OrderCancelReject (9)* message for confirmation or rejection respectively.

Participants can also submit a *UserOrderMassActionRequest (UCA)* in order to delete all active orders for the respective session in a given product. The *UserOrderMassActionRequest (UCA)* can be further restricted to a defined trader and/or a defined instrument. The user may delete only part of their orders for one instrument by entering the additional filter criteria side and price.

### 3.9.5 Modification

The FIX session may only modify orders that have been entered previously via the same session and, for T7 Boerse Frankfurt, also orders entered by the Specialist on-behalf of the customer business unit for the session.

The participant must use the *OrigClOrdID (41)* to identify the order to modify.

The T7 FIX Gateway will respond with an *ExecutionReport (8)* or *OrderCancelReject (9)* message for confirmation or rejection respectively.

The *ExecutionReport (8)* will contain *ExecRestatementReason (378) = 181 (ownership changed)* if the order ownership was changed. This will be the case if the submitter (Entering Trader) of the modify request is different from the original owner of the order.

Orders that have been completely filled may not be modified anymore.

Note: Modifications of the total order quantity to a quantity less than or equal to the cumulated executed order quantity will be interpreted as a cancel request.

### 3.9.6 Self Match Prevention

The Self Match Prevention (SMP) functionality allows participants to prevent an execution of an incoming order against a book order or quote side from the same business unit in the same instrument (crossing).

Participants can specify an individual Self Match Prevention ID in the field *MatchInstCrossID (28744)* which is contained in the component *<MtchgInst>* (Matching Instructions).

The *ExecutionReport (8)* will contain the field *CrossedIndicator (2523)* with the valid value *1 (Cross rejected)* if the order was deleted or modified due to SMP.

### 3.9.7 Account Structure

The mandatory field *TradingCapacity (1815)* specifies the relationship between the market participant and the order.

Business Type	Derivatives	Cash	Description	Relevant FIX Tags
Agency	✓	✓	Market Participant is trading on behalf of its customer.	TradingCapacity (1815) = 1
Issuer/Liquidity Provider		✓	Market Participant is acting as an Issuer/Liquidity Provider.	TradingCapacity (1815) = 3
Proprietary	✓	✓	Market Participant is trading for its own account.	TradingCapacity (1815) = 5
Market Making	✓	✓	Market Participant is acting as a Market Maker.	TradingCapacity (1815) = 6
Riskless Principal		✓	Market Participant is acting on his own name for a foreign account.	TradingCapacity (1815) = 9

The usage of the field *Account (1)* will be supported only for **T7 Derivatives**:

The entry of a T7 account type and number is supported via the *Account (1)* field designating the account type to be used for the order when submitted to clearing. There are three types of accounts:

- Agent accounts: “A1”, “A2”, “A3”, “A4”, “A5”, “A6”, “A7”, “A8”, “A9”, “G1” and “G2”: The account codes G1 and G2 are actually designations that the trade is going to be sent to another member, usually when a participant uses one member to perform the execution and another to do the clearing.
- Proprietary accounts: “P1” and “P2”.
- Market Maker accounts: “M1” and “M2”.

Every order entered into the T7 trading system can be associated with one of these account types.

In case that no account information is entered by the market participant the clearing account information will be derived from the field *TradingCapacity (1815)*.

### 3.9.8 Text Fields

The T7 trading system supports four free-format text fields for trader-specific comments to an order. The mapping of the T7 text fields to the FIX tags is as follows:

Text Field	Derivatives	Cash	Relevant FIX Tags
Free Text Field 1	✓	✓	Text (58)
Free Text Field 2	✓	✓	FreeText2 (25008)
Free Text Field 3	✓		FreeText3 (25009)
Free Text Field 4		✓	FreeText4 (25107)

### 3.9.9 Order Status and Execution Report

The *ExecutionReport (8)* message is used to communicate events that affect an order.

The field *ExecType (150)* specifies the type of event. The field *OrdStatus (39)* specifies the new status of the order.

The different scenarios and their usage of the *OrdStatus (39)* and *ExecType (150)* are as follows:

Scenario	Derivatives	Cash	OrdStatus (39)	ExecType (150)
Order book replay: Transmission of all active orders	✓	✓	0 = New 1 = Partially filled	D = Restated
Order book replay: Transmission of inactivated auction orders	✓	✓	9 = Suspended	D = Restated
Successful submission of an order	✓	✓	0 = New	0 = New
Submission of an order in locked stock (T7 Boerse Frankfurt)		✓	A = Pending New	A = Pending New
Final confirmation of an order entered in locked stock (T7 Boerse Frankfurt)		✓	0 = New	0 = New
Successful submission of an auction order outside the auction	✓	✓	9 = Suspended	0 = New
Rejected submission of an order	✓	✓	8 = Rejected	8 = Rejected
Successful modification of an order	✓	✓	0 = New 1 = Partially filled 2 = Filled	5 = Replaced
Modification of an order in locked stock (T7 Boerse Frankfurt)		✓	E = Pending Replace	E = Pending Replace
Final confirmation of an order modification in locked stock (T7 Boerse Frankfurt)		✓	0 = New 1 = Partially filled 2 = Filled	5 = Replaced
Final rejection of an order modification in locked stock (T7 Boerse Frankfurt)		✓	8 = Rejected	n/a
Successful modification of an auction order outside the auction	✓	✓	9 = Suspended	5 = Replaced
Rejected modification of an order	✓	✓	8 = Rejected	n/a
Successful cancellation of an order	✓	✓	4 = Canceled	4 = Canceled
Successful cancellation of an auction order outside the auction	✓	✓	9 = Suspended	4 = Canceled
Cancellation during instrument freeze state	✓	✓	6 = Pending Cancel	6 = Pending Cancel
Cancellation of an order in locked stock (T7 Boerse Frankfurt)		✓	6 = Pending Cancel	6 = Pending Cancel
Final confirmation of an order cancellation in locked stock (T7 Boerse Frankfurt)		✓	4 = Canceled	4 = Canceled

... continued ...

Scenario	Derivatives	Cash	OrdStatus (39)	ExecType (150)
Final rejection of an order cancellation in locked stock (T7 Boerse Frankfurt)		✓	8 = Rejected	n/a
Rejected cancellation of an order	✓	✓	8 = Rejected	n/a
Partial fill	✓	✓	1 = Partially filled	1 = Partially filled (in FIX 4.2) F = Trade (in FIX 4.4)
Complete fill	✓	✓	2 = Filled	2 = Filled (in FIX 4.2) F = Trade (in FIX 4.4)
Triggered Stop Order	✓	✓	0 = New	L = Triggered by system
Triggered One-cancels-the-other Order	✓	✓	0 = New	L = Triggered by system
Trailing stop order update triggered by the trading system		✓	0 = New	5 = Replaced
Activated auction order	✓	✓	0 = New 1 = Partially filled	D = Restated
Inactivated auction order	✓	✓	9 = Suspended	9 = Suspended
Modification of an order to Immediate or Cancel (IOC) triggered by the system	✓	✓	0 = New	5 = Replaced
Unsolicited modification triggered by third party	✓	✓	0 = New 1 = Partially filled 2 = Filled	5 = Replaced
Unsolicited cancellation triggered by third party	✓	✓	4 = Canceled	4 = Canceled
Unsolicited cancellation triggered by the trading system	✓	✓	4 = Canceled	4 = Canceled
Cancellation of not (fully) executed Immediate or Cancel (IOC) order	✓	✓	4 = Canceled	4 = Canceled
Cancellation of not executed Fill or Kill (FOK) order		✓	4 = Canceled	4 = Canceled
Cancellation of executable Book or Cancel (BOC) order at entry/modify	✓	✓	4 = Canceled	4 = Canceled
Cancellation due to Self Match Prevention (SMP)	✓	✓	4 = Canceled	4 = Canceled
Unknown Order State	✓	✓	A = Pending New 6 = Pending Cancel E = Pending Replace	A = Pending New 6 = Pending Cancel E = Pending Replace

### 3.9.10 ExecutionReport (8) "Request Status Unknown"

As described in **3.8 Pending Responses "Request Status Unknown"** there are situations, in which the T7 FIX Gateway will generate "request status unknown" pending *ExecutionReport (8)* messages as response to the order requests.

The different scenarios for the order requests and their usage of the fields *OrdStatus (39)*, *ExecType (150)* and *ExecRestatementReason (378)* in the *ExecutionReport (8)* messages sent by the T7 FIX Gateway are as follows:

Scenario	OrdStatus (39)	ExecType (150)	ExecRestatementReason (378)
Submission of an Order - Order status is unknown	A = Pending New	A = Pending New	100 = Unknown Order State
Cancellation of an Order - Order status is unknown	6 = Pending Cancel	6 = Pending Cancel	100 = Unknown Order State
Modification of an Order - Order status is unknown	E = Pending Replace	E = Pending Replace	100 = Unknown Order State

### 3.9.11 Order Book Restatement

During the start-of-day phase and after a market reset event (an exchange system failure), all active orders of a session will be transmitted to the market participant via the respective session.

During Order Book Restatement *ExecutionReport (8)* messages for each restated order of the corresponding session are provided and finally a *TradingSessionStatus (h)* message indicates the end of the restatement per product; see **chapter 3.9.16 Trading Session Events**.

The reason for the restatement is communicated in field *ExecRestatementReason (378)* in message *ExecutionReport (8)*.

Each end of restatement message initiates the start of trading for a product.

*ExecRestatementReason (378)* will have the value "1" (*GT renewal / restatement*).

**Note:** In case an ETI session associated to a FIX session is canceled by the member all orders which were entered via this session and are still valid will be deleted without any further notification to the customer. Therefore these orders will not be restated.

### 3.9.12 Passive Liquidity Protection (PLP)

Passive Liquidity Protection (PLP) strengthens order book trading for specific products. Aggressive order transactions will be deferred by a time interval in the order before they are able to interact with the order book. Non-aggressive order transactions will directly impact the order book without deferral.

A mass cancellation affects deferred aggressive orders by changing the order type to IOC (immediate or cancel). This ensures that, if the order is not filled after the deferral, this will be deleted.

The information about the change of the order type to IOC (Immediate or Cancel) will be provided in the field *ExecRestatementReason (378)* of the corresponding modify *ExecutionReport (8)* message:

Scenario	ExecRestatementReason (378)
Order has been changed to IOC	114

### 3.9.13 Trailing Stop Order Update Notifications (T7 Cash)

Notifications generated by the trading system about the update of the field *StopPx (99)* for trailing stop orders are communicated to the participants via a modify *ExecutionReport (8)*.

The reason for the order update is provided in the field *ExecRestatementReason (378)* of the *ExecutionReport (8)* message:

Scenario	ExecRestatementReason (378)
Trailing Stop Update	213

### 3.9.14 Unsolicited Order Cancellations generated by the Trading System (T7 Cash)

Notifications about unsolicited order cancellations generated by the trading system are communicated to the participants via a cancel *ExecutionReport (8)*.

The reason for the order cancellation is provided in the field *ExecRestatementReason (378)* of the *ExecutionReport (8)* message:

Scenario	ExecRestatementReason (378)
GT corporate action	0
Exchange Option	8
End of Day Processing	146
Order Expiration Intraday	148
Exceeds maximum quantity	237
Invalid Limit Price	238
User does not exist	241
Session does not exist	242
Invalid Stop Price	243
Instrument does not exist	245
Business Unit Risk Event	246

... continued ...

<b>Scenario</b>	<b>ExecRestatementReason (378)</b>
Dividend Payment	292
Last Trading Day	294
Trading Parameter Change	295
Currency Change	296
Product Assignment Change / Special Event	297
Reference Price Change	298
Tick Rule Change	300
Quote Request Solution Order Expiry	316

### 3.9.15 Mass Cancellation Notification

Mass cancellation notification is not provided on a single order level. The owning session will be informed about the scope of the cancellation by a summary record. The summary record will also provide the entering party involved and the reason for the mass cancellation. For T7 Cash the summary record contains additionally an order list with the information about the deleted persistent orders (if any).

Unsolicited order mass cancellation is communicated by the T7 FIX Gateway via the *OrderMassActionReport (UBZ)* message.

The reason for the mass cancellation event is communicated in field *MassActionReason (28721)*, the scope of the deleted orders in field *UExecInst (30018)*.

Orders that couldn't be canceled due to an incompatible instrument state are provided in the component *<NotAffectedOrdersGrp>*. For each order the Exchange Order ID (*NotAffectedOrderID (1371)*) is delivered. For messages generated via Trading session the component contains for each order additionally the corresponding FIX Client Order ID (*NotAffOrigClOrdID (1372)*). This field will be set to "[N/A]" for messages delivered via Back-office session.

For T7 Cash persistent orders that were canceled are provided in the component *<AffectedOrdersGrp>*. For each order the Exchange Order ID (*AffectedOrderID (535)*) is delivered. For messages generated via Trading session the component contains for each order additionally the corresponding FIX Client Order ID (*AffectedOrigClOrdID (1824)*). This field will be set to "[N/A]" for messages delivered via Back-office session.

The number of entries in the components *<AffectedOrdersGrp>* and *<NotAffectedOrdersGrp>* is limited. For this reason the information about a Mass Cancellation event can be split into several *OrderMassActionReport (UBZ)* messages. The message *OrderMassActionReport (UBZ)* contains the field *ULastFragment (30893)* to indicate if the message is the last message related to an event (*ULastFragment (30893) = Y (Last message)*) or if additional messages will follow (*ULastFragment (30893) = N (Not last message)*).

The following unsolicited mass cancellation events may occur:

Mass Cancellation Event	MassActionReason (28721)	Derivatives	Cash
Product Holiday	Product State Holiday (106)	✓	✓
Product Halt	Product State Halt (105)	✓	✓
Instrument Suspension	Instrument Suspension (107)	✓	✓
Strategy Cancellation	Strategy Cancellation (109)	✓	
Volatility Interruption Product Level	Circuit Breaker (Volatility Interrupt) (110)	✓	
Volatility Interruption Instrument Level	Circuit Breaker (Volatility Interrupt) (110)	✓	✓
Product temporarily not tradeable	Product temporarily not tradeable (111)	✓	✓
Instrument stopped	Instrument Stopped (113)		✓
Instrument knock out	Instrument knock out (115)		✓
Instrument sold out	Instrument sold out (116)		✓
Member disabled	Member has been disabled (117)	✓	
Instrument knock out reverted	Instrument knock out has been reverted (118)		✓
Automatic deletion of Quotes	Automatic deletion of Quotes (119)		✓



Additional events related to technical reasons are also possible. See complete list of values for the field *MassActionReason (28721)* in the description of message *OrderMassActionReport (UBZ)*.

Quotes are always canceled by mass cancellation events.

The information about the scope of the deleted orders as result of the event is delivered in the field *UExecInst (30018)* in message *OrderMassActionReport (UBZ)*:

<b>UExecInst (30018)</b>	<b>Persistent Orders</b>	<b>Non-persistent Orders</b>
not provided	No	No
H	Yes	No
Q	No	Yes
H Q	Yes	Yes

### 3.9.16 Trading Session Events

The *TradingSessionStatus (h)* message is used by the T7 FIX Gateway for all session related events.

Trading session events might imply mass cancellation events, where no explicit mass cancellation notifications are provided.

The information about the scope of the orders deleted implicitly for the different session related events is summarized in following table:

Event	Level	TradSesEvent (1368)	Persistent Orders	Non-persistent Orders
Market Reset	XMIC	Market reset (102)	No	Yes
End of Restatement	Product	End of restatement (103)	No	Yes
Service Resumed	Product	Service resumed (105)	No	Yes
End of Service	XMIC	No more messages for this trading venue (200)	No	Yes
End of Service	FIX session	Message transmission ended (201)	No	Yes
Session Disconnect	XMIC	Message processing suspended (202)	No	Yes
Session Connect	XMIC	Message processing resumed (203)	No	Yes

- **Market Reset:** informs the participant that the matching engine has been restarted; this event can affect only some products of the related exchange (XMIC).
- **End of Restatement:** implies that all non-persistent orders of the session in a product have been canceled; in this case no individual cancellation notifications are provided on individual order level.
- **Service Resumed:** informs the participant that the matcher has started accepting transactions after a slow partition event. All non-persistent orders of the session in a product have been canceled.
- **End of Service:** informs the participant about the end of message transmission for an exchange (XMIC) within a FIX session or for the whole FIX session.
- **Session Disconnect:** informs the participant about the disconnection of the ETI session.
- **Session Connect:** informs the participant about the (re)connection of the ETI session.

## 3.10 Trade Capture

### 3.10.1 Trade Capture via Back-Office Session

T7 Derivatives and T7 Cash trading participants will use Back-office sessions to receive trade confirmations (on-book and off-book) for the business unit.

The scope for all *User/TradeCaptureReport (UAE/AE)* messages will be the business unit. All trade information the business unit is authorized to see will be provided within one stream. For clearing business units this feature includes the provision of all trade information for all of their non-clearing business units.

After a Back-office FIX session logon, the transmission of already existing trades of the current business day can be requested via *ResendRequest (2)*.

Newly generated trades and trade reversals on the T7 trading system will automatically be transmitted via the Back-office FIX session.

For more details see chapter [6.11.1 Trade Capture via Back-Office Session](#).

### 3.10.2 Trade Capture via Trading Session (T7 Cash)

The T7 Cash participants can use the FIX Trading session for the T7 Entry Service (TES).

The FIX messages used for the implementation of the TES message flows via the FIX Trading sessions for T7 Cash are:

- TES Requests (Enter, Modify, Delete Approve): *User/TradeCaptureReport (UAE/AE)*
- TES Responses: *User/TradeCaptureReportAck (UAR/AR)*
- TES Broadcasts (Enter, Modify, Delete Approve, Execution): *User/TradeCaptureReport (UAE/AE)*

Please note that the trades resulting from TES entries will be delivered only via FIX Back-office sessions. For more details see chapter [6.11.2 Trade Capture via Trading Session \(T7 Cash\)](#).

### 3.10.3 T7 Entry Service (TES)

The T7 Entry Service (TES) enables participants to enter off-book transactions into the T7 system. The usage of this service is different for both market types (T7 Derivatives and T7 Cash).

#### T7 Derivatives

For T7 Derivatives participants this service is not offered via the FIX interface, but trades generated from TES entries will be delivered via FIX Back-office sessions. For these trades the FIX Gateway will generate *User/TradeCaptureReport (UAE/AE)* messages.

#### T7 Cash

T7 Cash participants will use Trading sessions for the T7 Entry Service (TES). This service enables T7 Cash trading participants to enter off-book trades. Back-office sessions will be used to receive on-book and off-book trade confirmations. The TES message flows via the Trading session will be presented in chapter [6.11.2.4 TES Message Flows](#).

### 3.10.4 Xetra/Eurex EnLight

Trade confirmations related to Xetra/Eurex EnLight transactions will be delivered via FIX Back-office sessions. These will be *User/TradeCaptureReport (UAE/AE)* messages with *TrdType (828) = 1006 (Xetra/Eurex EnLight triggered trade)* and a link to the corresponding Xetra/Eurex EnLight deals in the field *NegotiationID (28758)* and in the component *<SRQSRelatedTradeIDGrp>*.

See more information in [3.19 Xetra/Eurex EnLight - Selective RFQ Platforms](#).

### 3.10.5 Trade Capture Report - Identification Criteria

#### 3.10.5.1 Trade Types

The field *TrdType (828)* is used to identify an on-book and off-book trade. To identify an on-book trade *TrdType (828)* will be set to "0" (*Regular Trade (on-book)*). Other values identify an off-book trade.

#### Back-Office Session:

For T7 Derivatives and T7 Cash the different trade types can be identified via the field *TrdType (828)*:

Trade Type	TrdType (828)	Derivatives	Cash
On-book	0 = Regular Trade (on-book)	✓	✓
Off-book	1 = Block Trade	✓	
	12 = Exchange for Swap (EFS)	✓	
	50 = Portfolio Compression Trade	✓	
	54 = OTC		✓
	1000 = Vola Trade	✓	
	1001 = Exchange for physical (EFP) Fin trade	✓	
	1002 = Exchange for physical (EFP) Index Future trade	✓	
	1004 = Trade at market	✓	
	1005 = Large in scale		✓
	1006 = Xetra/Eurex EnLight triggered trade	✓	✓
	1007 = QTPIP Block Trade	✓	

#### Trading Session (T7 Cash):

Following values can be used via Trading Session to identify a TES trade:

Trade Type	TrdType (828)	Derivatives	Cash
TES Trade	54 = OTC		✓
	1005 = Large in scale		✓

### 3.10.5.2 Trade Report Types

The field *TradeReportType* (856) indicates the type of the Trade Capture Report.

#### Back-Office Session:

For on-book and off-book trade confirmations via Back-office session following scenarios are possible:

Scenario	TradeReportType (856)	Derivatives	Cash
Final Trade	0 = Submit	✓	✓
Preliminary Trade	1 = Alleged	✓	
Modified Trade	5 = No/Was (Replaced)	✓	✓
Trade Reversal	7 = (Locked-In) Trade Break	✓	✓

#### Trading Session (T7 Cash):

Following values are used for the T7 Entry Service (TES) via Trading session:

TES Message Type	TradeReportType (856)	Derivatives	Cash
Enter Request	0 = Submit		✓
Modify Request	5 = No/Was (Replaced)		✓
Enter / Modify Broadcast	0 = Submit 5 = No/Was (Replaced) 11 = Alleged New 13 = Alleged New/Was		✓
Approve Request	2 = Accept		✓
Approve Broadcast	2 = Accept		✓
Delete Request	6 = Trade Report Cancel		✓
Delete Broadcast	6 = Trade Report Cancel		✓
Execution Broadcast	2 = Accept		✓

### 3.10.5.3 Message Event Source

The field *MessageEventSource* (1011) is used in *User/TradeCaptureReport* (UAE/AE) messages sent to the customers. The field describes the event that caused the creation of the message and can be used to distinguish the messages of the different message flows.

#### Back-Office Session:

The *User/TradeCaptureReport* (UAE/AE) message in the Back-office session is used to receive trade confirmations (off-book and on-book).

Trade Type	MessageEventSource (1011)	Derivatives	Cash
on-book	200 = On-Book Trade Notification	✓	✓
off-book	201 = TES Trade Notification	✓	✓

#### Trading Session (T7 Cash):

The *User/TradeCaptureReport* (UAE/AE) message in the Trading session can be used by the T7 Cash trading participants for the T7 Entry Service (TES).

TES Message Type	MessageEventSource (1011)	Derivatives	Cash
Enter / Modify Broadcast	202 = TES Broadcast to Initiator - Approve Pending		✓
Enter / Modify Broadcast	203 = TES Broadcast to Initiator - Approve Finished		✓
Delete Broadcast	204 = TES Broadcast to Initiator - Canceled		✓
Enter / Modify Broadcast	205 = TES Broadcast to Approver - Approve Pending		✓
Approve Broadcast	206 = TES Broadcast to Approver - Approved		✓
Execution	207 = TES Broadcast to Approver - Executed		✓
Delete Broadcast	208 = TES Broadcast to Approver - Canceled		✓

### 3.10.6 Trade Reconciliation (On-Book Trades)

There are several identifiers that can be used to associate an *ExecutionReport (8)* with *User/TradeCaptureReports (UAE/AE)* and public trades on the market data interface.

Every **match event** with one or more executions (match steps) in a simple or complex instrument results in one *ExecutionReport (8)* message per matching step for each order. A *User/TradeCaptureReport (UAE/AE)* will then be sent to confirm each trade at each price level.

For complex instruments (only T7 Derivatives), there is a *User/TradeCaptureReport (UAE/AE)* for each leg execution of the instrument.

Every **match step** occurring in the exchange has an identifier that is provided in the field *TrdMatchID (880)* in the *ExecutionReport (8)* as well as in the *User/TradeCaptureReport (UAE/AE)*. This identifier allows participants to link Trade Capture Reports and the corresponding Execution Report.

The *TradeID (1003)* field in the *User/TradeCaptureReport (UAE/AE)* uniquely identifies all allocations referring to the same matching event, instrument and price.

The field *SideTradeID (1506)*, which is unique for a product and business day, in the *User/TradeCaptureReport (UAE/AE)* provides the private identifier of an order match event, which can easily be reconciled with the corresponding *ExecutionReport (8)* for orders in the following way:

- for order match events in simple instruments, the *ExecutionReport (8)* message provides a private execution identifier, *SecondaryExecID (527)*.
- for order match events in complex instruments (only T7 Derivatives) the *ExecutionReport (8)* message provides the order execution ID on each price level and additionally the order leg execution ID, *LegExecID (1893)*.

Match Reporting	Derivatives	Cash	ExecutionReport (8)	User/TradeCapture-Report (UAE/AE)
Trade event on instrument level: public trade volume reporting.	✓	✓	TrdMatchID (880)	TrdMatchID (880)
Identifier for all allocations referring to the same instrument.	✓	✓		TradeID (1003), OrigTradeID (1126)
Private execution identifier in Order in a simple instrument.	✓	✓	SecondaryExecID (527)	SideTradeID (1506)
Private execution identifier for an order in a complex instrument. (only T7 Derivatives)	✓		LegExecID (1893)	SideTradeID (1506)
System Order ID generated by the T7 System.	✓	✓	OrderID (37)	OrderID (37)
Unique identifier of the order. The Client Order ID of the T7 Enhanced Trading Interface (ETI) is provided.	✓	✓	SecondaryOrderID (198)	SecondaryOrderID (198)

Note: For trade reversals a new *TradeID (1003)* is generated by the T7 trading system. The original trade identifier is delivered in field *OrigTradeID (1126)* and provides the link to the original trade.

### 3.10.7 Best Practices for Order Management

All order response information in the T7 FIX Gateway is sent out immediately after the order has been processed by the core matching process.

All order response information in the T7 FIX Gateway is preliminary; this includes *ExecutionReports (8)* sent out for persistent and non-persistent orders.

For these reasons, a participant application always needs to confirm the preliminary execution information with the corresponding legally binding *User/TradeCaptureReport (UAE/AE)*.

Please find detailed information regarding trade reconciliation in **chapter 3.10.6 Trade Reconciliation**.

*User/TradeCaptureReports (UAE/AE)* are not delivered via Trading FIX sessions. For the reception of the legally binding *User/TradeCaptureReports (UAE/AE)* a Back-office FIX session is required.

Back-office FIX sessions need to be ordered by the participants for its business units in the Eurex Member Section for Derivative Markets and in the Xetra Member Section for Cash Markets.



## 3.11 Cross Request

The Cross Request offers two facilities: **Cross Trade Announcement** and **Client Liquidity Improvement Process (CLIP)**. The *Cross Trade Announcement* is provided for both market types (T7 Derivatives and T7 Cash). The *Client Liquidity Improvement Process (CLIP)* is provided only for T7 Derivatives market.

The type of the Cross Request can be identified via *CrossRequestType (28771)*. The field *CrossRequestID (2672)* is the unique message identifier of a Cross Request.

### 3.11.1 Cross Trade Announcement

With the **Cross Trade Announcement** the participant can announce a Cross Trade by using the message *CrossRequest (UDS)* with *CrossRequestType (28771) = "1" (Cross Announcement)*. A Cross Trade is a trade where a participant trades against an own order in the order book. In a prearranged trade, orders from at least two participants are executed against each other as previously negotiated.

The Cross Request contains the security identification (product and instrument id combination) and the *OrderQty (38)*, which is mandatory for regulatory reasons.

A trader sends the T7 FIX Gateway message *CrossRequest (UDS)* which is published via the T7 Market Data Interface (MDI) to all other participants, to alert them of the intention to trade with an own order or pre-arranged trade.

Cross and pre-arranged trades may not knowingly be entered into the T7 trading system by a participant, unless the participant precedes the cross or pre-arranged trade with a cross request.

### 3.11.2 Client Liquidity Improvement Process (CLIP) (T7 Derivatives)

The **Client Liquidity Improvement Process (CLIP)** enhances the ability of brokers to execute a client order by using the message *CrossRequest (UDS)* with *CrossRequestType (28771) = "2" (Liquidity Improvement Cross)*.

With a CLIP request the broker can execute a client order against another broker (**bilateral** CLIP request) or against himself (**unilateral** CLIP request), under the consideration of potential price advantages for client order in matches against the central order book.

A CLIP request can be entered by using the message *CrossRequest (UDS)* with *CrossRequestTransType (28772) = "0" (New)*.

A **bilateral** CLIP request is entered via two separate one-sided *CrossRequest (UDS)* messages, one for the client and one for the broker order, identified by different values of the field *InputSource (979)*.

A **unilateral** CLIP request is entered via a unique two-sided *CrossRequest (UDS)* message. The two sides contain the information about the client and the broker order, identified respectively by the content of the field *InputSource (979)*.

A CLIP request can be deleted by using the message *CrossRequest (UDS)* with *CrossRequestTransType (28772) = "1" (Cancel)*.

In case of an execution an *ExecutionReport (8)* with *MatchType (574)* = "13" (*Liquidity Improvement Cross*) will be sent. The different scenarios related to orders resulting from CLIP entries are described by different values of the field *ExecRestatementReason (378)* in the *ExecutionReport (8)*:

Scenario	ExecRestatementReason (378)
Execution	340 = CLIP execution after improvement period
Cancellation due to start of closing auction	122 = Instrument State Change
Cancellation after exposure time	343 = CLIP request canceled by arrangement time out
Cancellation	344 = CLIP cancellation

After the successful validation of the CLIP request information (client and broker sides), all market participants are informed about an imminent execution of a client flow and have the opportunity of submitting orders or quotes during a defined price improvement period.

After the conclusion of the price improvement period the execution process will be initiated, which includes the conversion of the client CLIP and broker CLIP sides into orders and the execution of the client order according to the general matching rules. This ensures that the client order will be matched at the agreed price level or even better, depending on the market situation in the central order book after the price improvement period.

Orders resulting from CLIP requests are processed internally as lean orders. For this reason there is no Drop Copy information via FIX Back-office sessions for CLIP entries, executions and cancellations.

## 3.12 Quote Request Functionality

The Quote Request Functionality can be used by a trader to request Public and Private Quotes for a specified instrument. In both cases the message *QuoteRequest (R)* will be used. The Private Quote functionality is only supported in T7 Boerse Frankfurt (Boerse Frankfurt and Boerse Frankfurt Zertifikate).

The field *PrivateQuote (1171)* in the message *QuoteRequest (R)* is used to distinguish between requests for public and for private quotes. If this field is missing, a *QuoteRequest (R)* message will be processed as a request for a public quote.

### 3.12.1 Request for Public Quotes

For **T7 Derivatives** all requests for public quotes are published via the market data interface to all other participants.

For **T7 Cash** traders can choose to publish requests for public quotes to all market participants via the market data interfaces, to market makers and designated sponsors only via the trading interfaces, or a combination thereof.

Every *QuoteRequest (R)* message contains the security identification (see details in **chapter 3.4 Security Identification**). *Side (54)* and *OrderQty (38)* are optional attributes.

A *QuoteRequest (R)* message might be rejected with an error message indicating a previous request for quote has already recently been sent.

A *QuoteRequest (R)* message is validated against the available quantities at the best price and the corresponding bid/ask spread in the market.

Summary of the different scenarios (for more details see **chapter 6.9.5 Quote Request Functionality - Message Flows**):

Scenario	Description
Successful Public Quote Request	The customer will receive a <i>Mass/QuoteAcknowledgement (b)</i> message with <i>QuoteStatus (297) = 0 (Accepted)</i>
Rejected Public Quote Request	The customer will receive a <i>User/QuoteRequestReject (UAG/AG)</i> message.
Pending Response for a Public Quote Request	In some situations the T7 FIX-Gateway will generate pending responses via the message <i>Mass/QuoteAcknowledgement (b)</i> with <i>QuoteStatus (297) = 10 (Pending)</i> . See details in <b>3.8 Pending Responses "Request Status Unknown"</b> .

### 3.12.2 Request for Private Quotes (T7 Cash - T7 Boerse Frankfurt)

With the Private Quote Request the customer is requesting a private quote from the instrument's Specialist. The quote from the Specialist is distributed privately only to the customer that sent the request. The response must be sent by the Specialist within a certain time limit (depending on configuration in T7 Backend), otherwise the quote request is rejected by the T7 System and deleted.

Summary of the different scenarios (for more details see **chapter 6.9.5 Quote Request Functionality - Message Flows**):

Scenario	Description
Successful Private Quote Request	<p>The customer will receive a <i>Quote (S)</i> message with a unique quote-identifier in the field <i>QuoteID (117)</i>.</p> <p>The customer can send an especially marked <i>NewOrderSingle (D)</i> with a reference to the quote in the field <i>QuoteID (117)</i> to request the execution of a trade for the Private Quote.</p> <p>If the Specialist does not execute the order with a <i>QuoteID (117)</i> within a dedicated time frame, the order is deleted automatically by the T7 System. In this case the customer will receive a delete <i>ExecutionReport (8)</i> with <i>ExecRestatementReason (378) = 316 (Quote Request Solution Order Expiry)</i>.</p> <p>If the Specialist executes the order, the customer will receive a fill <i>ExecutionReport (8)</i> with a reference to the quote-id in the fields <i>RefOrderID (1080)</i> and <i>RefOrderIDSource (1081)</i>.</p>
Rejected Private Quote Request	The customer will receive a <i>User/QuoteRequestReject (UAG/AG)</i> message.
Pending Response for a Private Quote Request	<p>In some situations the T7 FIX-Gateway will generate pending responses via the message <i>Mass/QuoteAcknowledgement (b)</i> with <i>QuoteStatus (297) = 10 (Pending)</i>.</p> <p>See details in <b>3.8 Pending Responses "Request Status Unknown"</b>.</p>

### 3.13 Pre-Trade Risk Limits (T7 Derivatives)

The *UserPartyRiskLimitsRequest (UCL)* is used to inquire pre-trade risk limits. These limits can be defined for on-book or off-book trading on product, exchange and user risk group level.

The requested pre-trade risk limits will be communicated via *UserPartyRiskLimitsReport (UCM)*.

For more information see **chapter 6.10.1 User Party Risk Limits Request**.

### 3.14 Risk Control Event Notifications

The FIX Gateway supports the dissemination of Risk control event notifications on both the Trading and Back-office sessions.

The following notifications are available:

Risk Control Event Notification	Derivatives	Cash
Stop Button Event	✓	✓
Limit Breach Event	✓	
Legal Notification	✓	

### 3.15 Mass Deletion Request

The *UserOrderMassActionRequest (UCA)* will allow deletion of multiple orders. Orders may be filtered by Product identifier (Symbol) or Product identifier (Symbol) and Security identifier (SecurityID).

**Note:** The *ProductComplex (1227)* will not be allowed on this request as no filtering by instrument type will be supported. It is not possible - for example - to restrict a mass cancellation operation to "Standard Option Strategies".

The user may delete orders owned by a different trader. In this case the owning trader of the orders to be deleted must be provided in the party <target executing trader>.

Users may delete only part of their orders for one instrument by entering the additional filter criteria side and price. For the buy side the orders will be deleted starting from the highest price until the price specified in the filter, for the sell side starting from the lowest price.

The request will be answered by one or more *UserOrderMassActionResponse (UCAR)* messages having *MassActionResponse (1375)* set to "2" (*Completed*), if successful.

A rejected request will be answered by a *UserOrderMassActionResponse (UCAR)* message having *MassActionResponse (1375)* set to "0" (*Rejected*) and providing an error code/explaining text in *ReturnCode (25023)* / *ReturnCodeText (25025)* respectively.

Additional information in the response message *UserOrderMassActionResponse (UCAR)* for requests processed successfully:

- Orders that couldn't be canceled due to an incompatible instrument state are provided with their Exchange Order ID (*NotAffectedOrderID (1371)*) and with their FIX Client Order ID (*NotAffOrigClOrdID (1372)*) in the component <NotAffectedOrdersGrp>.
- For T7 Cash persistent orders that were canceled are provided with their Exchange Order ID (*AffectedOrderID (535)*) and with their FIX Client Order ID (*AffectedOrigClOrdID (1824)*) in the component <AffectedOrdersGrp>.
- The number of entries in the components <AffectedOrdersGrp> and <NotAffectedOrdersGrp> is limited. For this reason the response to a Mass Cancellation Request can be split into several *UserOrderMassActionResponse (UCAR)* messages. The message *UserOrderMassActionResponse (UCAR)* contains the field *ULastFragment (30893)* to indicate if the message is the last response message related to a Mass Cancellation Request (*ULastFragment (30893) = Y (Last message)*) or if additional messages will follow (*ULastFragment (30893) = N (Not last message)*).

### 3.16 Session Details List

The *SessionDetailsList (U6)* message provides the list of ETI sessions of the own business unit for a specific exchange. This message will be delivered for T7 Cash and Derivatives only via Back-office sessions.

*SessionDetailsList (U6)* will be sent after the establishment of the connection to the T7 trading system, which is indicated by a *TradingSessionStatus (h)* message with *TradSesEvent (1368) = 203 (Message processing resumed)*.

Each ETI session will be categorized into different types identified by the field *SessionMode (28730)*.

The information contained in the *SessionDetailsList (U6)* message can be used to identify the source of the *User/TradeCaptureReport (UAE/AE)* and *ExecutionReport (8)* messages provided via FIX Back-office sessions based on the content of the party fields *<trc session id>* and *<session id>*.

In case a FIX session is configured for several XMICs (e.g. XETR + XVIE) the message *SessionDetailsList (U6)* will be generated for each XMIC.

There will be no possibility for the customer to deactivate the reception of this message.

### 3.17 Drop Copy for Order Information (Business Unit Level)

Drop copy functionality for standard (not lean) orders of a business unit of the current business day is provided as an optional feature of the Back-office FIX session.

When the client chooses the drop copy feature for a Back-office FIX session in the Member Section, the order-information of the current business day for standard (not lean) orders of the business unit is provided on a stream basis:

- After a Back-office session logon, the transmission of the already existing active standard orders for the current business day can be requested via *ResendRequest (2)*.
- Newly generated messages for standard (not lean) orders on the back end will automatically be transmitted via the Back-office FIX session.
- All drop copy information for standard (not lean) orders will be sent via FIX messages (*ExecutionReport (8)*, *UserOrderMassActionReport (UBZ)*).

**Note:** Messages for orders entered via the T7 FIX Gateway will provide the *ClOrdID (11)* in the *ExecutionReport (8)* message of the Drop Copy functionality for standard (not lean) orders. *OrigClOrdID (41)* will not be provided.

Orders entered via High Frequency ETI Sessions will not be provided.

For orders immediately triggered after being entered or modified the value of the stop price is not available. The *ExecutionReports (8)* with *ExecType (150) = 0 (New)* and *5 (Replaced)* will contain in this case *StopPx (99) = -1*.

For iceberg orders immediately filled or partially filled after being entered or modified the original value of the display quantity is not available. The *ExecutionReports (8)* with *ExecType (150) = 0 (New)* and *5 (Replaced)* will contain in this case *DisplayQty (1138) = -1*.

## 3.18 Regulatory Requirements - MiFID II Functionality

Following chapters summarize the T7 FIX Gateway implementation to support the MiFID II requirements.

### 3.18.1 Short Code Solution

The concept of the “Short Codes” will be used to allow customers to encode reporting information into numeric codes.

The relevant messages will contain only the Short Codes (not all data required for reporting purposes).

The link between the Short Codes and the corresponding reporting information will be provided by the customers separately, not via the T7 FIX Gateway.

### 3.18.2 Audit Trail and ALGO Flags

The implementation of the MiFID II requirements is based on the concept of the “Short Codes”.

With MiFID II more information shall be available for supervisory authorities such as BaFin in Germany.

Additionally the algorithmic nature of the orders and quotes involving equities has to be reported according to MiFID regulations.

For both purposes specific fields are defined in different message structures.

#### 3.18.2.1 Client Identifier

The Client Identifier (Client ID) identifies the client of the trading member. Its content is encoded by members on request entry using either the short code to identify the person or the numeric identifier of algorithm (some values are reserved by FIX) and can be de-coded for reporting purposes to:

- <algo id> = algorithm identifier
- <short code> = LEI (Legal Entity Identifier)
- <short code> = National ID
- 0 = “NONE” (no client order)
- 1 = “AGGR” (aggregated order)
- 2 = “PNAL” (allocation to client still pending)

The Client ID is mandatory for agent orders.



### 3.18.2.2 Execution Identifier

The field *Executing Trader* contains the short code to identify the person or the numeric identifier of algorithm within the member or participant of the trading venue who is responsible for execution of the transaction resulting from the user.

FIX has reserved the short code "3" = "CLIENT" for the field Executing Trader whenever the client actually instructed the trader.

If a FIX request does not contain the information about the Execution Identifier (i.e. no Executing Trader and Executing Trader Qualifier are provided) it means that the execution decision was taken within the member firm and that the decision maker is the trader submitting the order.

The field *Executing Trader Qualifier* indicates the nature of the value provided in the field Executing Trader. Note: the field Executing Trader Qualifier can be used without a corresponding Executing Trader.

### 3.18.2.3 Investment Identifier

The field *Investment Decision Maker* contains the short code to identify the person or the numeric identifier of algorithm within the member or participant of the trading venue who is responsible for the investment decision.

The field *Investment Decision Maker Qualifier* indicates the nature of the value provided in the field Investment Decision Maker. Note: the field Investment Decision Maker Qualifier can be used without a corresponding Investment Decision Maker.

### 3.18.3 Market Making

The Liquidity Provision Flag can be used by market makers to flag their orders entered under the market making scheme agreement.

The Liquidity Provision Flag is optional for all account types. It is available to all members and to all instruments.

The flag can be set using the component `<OrderAttributeGrp>`. For details see [6.13.19 <OrderAttributeGrp>](#).

### 3.18.4 Trading Venue Transaction Identification Code (TVTIC)

The Trading Venue Transaction Identification Code (TVTIC) is an individual transaction identifier code for each transaction resulting from a full or partial execution.

The TVTIC will be delivered in the component `<RegulatoryTradeIDGrp>` contained in *User/ TradeCaptureReport (UAE/AE)* for on-book and off-book trades via Back-office session.

For more information see [6.11 Application Messages: Trade Capture](#) and [6.11.1 Trade Capture via Back-Office Session](#).

### 3.18.5 Direct Market Access (DMA) Identification

Order related requests (T7 Cash, T7 Derivatives) and TES Approve requests (T7 Cash) contain a flag that allows customers to identify their requests as Direct Market Access (DMA) transactions.

Trade notifications resulting of entries identified as Direct Market Access (DMA) transactions will include also the Direct Market Access (DMA) identifier.

Following field will be used for the Direct Market Access (DMA) identification: *OrderOrigination (1724) = 5 (Direct market access)*

### 3.19 Xetra/Eurex EnLight - Selective RFQ Platforms

The Xetra and Eurex EnLight platforms allow banks and brokers to selectively contact market makers with requests for quotes in order to find a trading counterparty. This allows the negotiation of off-book transactions electronically using the T7 infrastructure.

#### **Xetra EnLight**

After the negotiation with a particular counterparty or several ones, the resulting deal is directly sent to the clearing and settlement systems without any further interaction from the participants, hence providing straight-through-processing (STP) via the T7 system.

#### **Eurex EnLight**

The resulting deals are automatically transmitted to the Eurex T7 Entry Service (TES) for exchange trade confirmation and post-trade processing.

The message flows for the negotiation of Xetra/Eurex EnLight transactions are not supported via the FIX interface, but the trade confirmations related to Xetra/Eurex EnLight transactions will be delivered via FIX Back-office sessions. These will be *User/TradeCaptureReport (UAE/AE)* messages with *TrdType (828) = 1006 (Xetra/Eurex EnLight triggered trade)* and a link to the corresponding Xetra/Eurex EnLight deals in the field *NegotiationID (28758)* and in the component *<SRQSRelatedTradeIDGrp>*.

## 3.20 Continuous Auction Specialist Model (T7 Cash - T7 Boerse Frankfurt)

The trading model Continuous Auction with Specialist is used for instruments traded on T7 Boerse Frankfurt (Boerse Frankfurt and Boerse Frankfurt Zertifikate AG).

For each instrument traded in the Continuous Auction Specialist Model there is a Specialist responsible of maintaining the order book and triggering the price determinations.

The Specialist is able to enter, modify and delete orders on-behalf of other Business Units via other interfaces (not FIX), i.e. T7 GUI or Enhanced Trading Interface (ETI).

The Specialist can freeze and unfreeze the order book, which is required mainly for the price determination. Order requests sent by the customers in the freeze phase are queued by the system and processed when the order book is unfrozen. A specific handling is required for these scenarios, referred to as locked stock scenarios.

It is not intended to describe here all details about the functionality related to the trading model Continuous Auction with Specialist. Only some of the main features available via the FIX interface, which differ significantly from the functionality offered for the other T7 Cash markets, will be summarized in the next chapters.

### 3.20.1 Quote Request Solution (Private Quotes)

See [chapter 3.12.2 Request for Private Quotes \(T7 Cash - T7 Boerse Frankfurt\)](#)

### 3.20.2 Order Maintenance from Specialist on Behalf of other Business Units

The Specialist is able to enter, modify and delete orders on-behalf of other Business Units via other interfaces (not FIX), i.e. T7 GUI or Enhanced Trading Interface (ETI).

The *ExecutionReport (8)* messages include the information about the entering firm and entering trader of the corresponding order transaction in the parties <entering firm> and <entering trader>. The content of these parties can be used for the identification of orders entered, modified or deleted by the Specialist on-behalf of other Business Units.

### 3.20.3 Locked Stock Scenarios

In the Specialist model, order requests entered during the freeze phase (locked stock) are queued until the order book is unfrozen.

Requests received in this phase are confirmed preliminarily with a pending response. The final status of the request will depend on the actions performed by the specialist during the locked stock.

Examples:

- Enter request for new order is received during locked stock. When the order book is unfrozen, the order entry is executed.
- Modify request (e.g. Price change) for existing order is received during locked stock. If the order is fully filled in locked stock, the order modification will not be executed.

For requests entered in locked stock via a **FIX Trading Session**, there will be always a preliminary pending response and, after the order book is unlocked, a final response with the final result (accepted or rejected) of the processing of the pending request.

The information about the pending requests will be also sent via **FIX Back-office Sessions**. In this case, if the order reaches a final status (cancelled, filled), is triggered or is restated (e.g. due to a matcher failover) before the execution of some of the pending transactions, there will be no final message for each of the pending requests. The *ExecutionReport (8)* containing the information about the final order status (cancelled, filled) will implicitly finish (discard) the open pending transactions. In case of an order restatement, the *ExecutionReport (8)* will contain the information about the current status of the order, including the result of pending transactions executed successfully, but for which no final message has been generated.

All *ExecutionReport (8)* and *OrderCancelReject (9)* messages related to the status after locked stock will contain the component `<OrderEventGrp>`, which will include the information about the final status in the field *OrderEventType (1796)*.

### Locked Stock Scenarios - Identification Criteria

Following table summarizes the identification criteria for the different locked stock scenarios:

Scenario	Identification Criteria	Trading Session	Back-office Session
Submission of an order in locked stock	ExecutionReport (8) OrdStatus (39) = A (Pending New) ExecType (150) = A (Pending New) ExecRestatementReason (378) = 138 (Pending New)	✓	✓
Final confirmation of an order entered in locked stock	ExecutionReport (8) OrdStatus (39) = 0 (New) ExecType (150) = 0 (New) ExecRestatementReason (378) = 141 (Pending New Applied) OrderEventType (1796) = 101 (Status after locked stock - Pending request executed)	✓	✓
Modification of an order in locked stock	ExecutionReport (8) OrdStatus (39) = E (Pending Replace) ExecType (150) = E (Pending Replace) ExecRestatementReason (378) = 139 (Pending Replace)	✓	✓
Final confirmation of an order modification in locked stock	ExecutionReport (8) OrdStatus (39) = 0 (New), 1 (Partially filled) or 2 (Filled) ExecType (150) = 5 (Replaced) ExecRestatementReason (378) = 142 (Pending Replace Applied) OrderEventType (1796) = 101 (Status after locked stock - Pending request executed)	✓	✓
Final rejection of an order modification in locked stock	OrderCancelReject (9) OrdStatus (39) = 8 (Rejected) OrderEventType (1796) = 102 (Status after locked stock - Pending request rejected)	✓	

<i>... continued ...</i>			
Scenario	Identification Criteria	Trading Session	Back-office Session
Cancellation of an order in locked stock	ExecutionReport (8) OrdStatus (39) = 6 (Pending Cancel) ExecType (150) = 6 (Pending Cancel) ExecRestatementReason (378) = 197 (Order cancellation pending)	✓	✓
Final confirmation of an order cancellation in locked stock	ExecutionReport (8) OrdStatus (39) = 4 (Canceled) ExecType (150) = 4 (Canceled) ExecRestatementReason (378) = 199 (Pending Cancellation Executed) OrderEventType (1796) = 101 (Status after locked stock - Pending request executed)	✓	✓
Final rejection of an order cancellation in locked stock	OrderCancelReject (9) OrdStatus (39) = 8 (Rejected) OrderEventType (1796) = 102 (Status after locked stock - Pending request rejected)	✓	
Trigger of an order - Pending requests in locked stock discarded	ExecutionReport (8) OrdStatus (39) = 0 (New) ExecType (150) = L (Triggered by system) OrderEventType (1796) = 100 (Status after locked stock - Pending requests discarded)		✓
Cancellation of an order - Pending requests in locked stock discarded	ExecutionReport (8) OrdStatus (39) = 4 (Canceled) ExecType (150) = 4 (Canceled) OrderEventType (1796) = 100 (Status after locked stock - Pending requests discarded)		✓

*... continued ...*

Scenario	Identification Criteria	Trading Session	Back-office Session
Full execution of an order - Pending requests in locked stock discarded	ExecutionReport (8)  OrdStatus (39) = 2 (Filled)  ExecType (150) = 2 (Filled) - FIX 4.2 / F (Trade) - FIX 4.4  OrderEventType (1796) = 100 (Status after locked stock - Pending requests discarded)		✓

### 3.21 Issuer State Change Request (T7 Cash)

The issuer state change request allows the issuer of an instrument to send knockout and soldout requests directly into the Trading System using the FIX request message *SecurityStatusDefinitionRequest (U27)*.

The result of the processing of an issuer state change request will be reported to the issuer via the response message *SecurityStatus (f)*.

### 3.22 Strategy Creation (T7 Derivatives)

The creation of a strategy will be supported only for T7 Derivatives.

The *SecurityDefinitionRequest (c)* message can be used to request the creation of a specified complex instrument on Eurex.

The product identifier (*Symbol (55)*), and the signature  $\langle \text{InstrmtLegGrp} \rangle$ , which provides the description of the legs, their ratios and side, are mandatory attributes of the request.

The (*SecuritySubType (762)*) tag must be present in case of a futures spread, option combination or strategy definition.

Only after a specific complex instrument has been requested and created, is it possible to enter orders for this instrument. The successful creation of a complex instrument, or the rejection, is confirmed by the *SecurityDefinition (d)* message. When a new strategy is requested, the instrument identifier (*SecurityID (48)*) and the signature of the complex instrument are returned.

Complex instrument definitions created by users are always temporary and are deleted during end of day processing if their order book is empty.

**Note:** The signature which is returned by the T7 may differ from the signature which was sent in the *SecurityDefinitionRequest (c)*, e.g. in order to match a pre-defined strategy template.

### 3.23 Variance Futures (T7 Derivatives)

Participants enter, modify and delete orders in variance futures using the same messages and fields as for other simple instruments in T7 trading system (New Order Single, Order Cancel/Replace Request, Order Cancel Request). The only difference for variance futures is that the entered *Price (44)* is understood as Volatility and the entered quantity (*OrderQty (38)*) is understood as Vega Notional.

An Execution Report is published as usual.

Once traded, T7 provides a preliminary Trade Capture Report (*TradeReportType (856) is 1 = Alleged*) that includes also a preliminary calculated clearing price (*ClearingTradePrice (1596)*) and calculated clearing quantity (*ClearingTradeQty (28736)*).

Once the final conversion parameters are approved at the end of the trading day, a final Trade Capture Report (*TradeReportType (856) 5 = No/Was (Replaced)*) is published that provides the final calculated clearing price and clearing quantity.



### 3.24 Total Return Futures (T7 Derivatives)

Participants enter, modify and delete orders in total return futures using the same messages and fields as for other simple instruments in T7 trading system (New Order Single, Order Cancel/Replace Request, Order Cancel Request).

An Execution Report is published as usual.

Once traded, T7 provides a preliminary Trade Capture Report (*TradeReportType (856) is 1 = Alleged*) that includes also a preliminary calculated clearing price (*ClearingTradePrice (1596)*) and calculated clearing quantity (*ClearingTradeQty (28736)*).

At the end of the trading day a final Trade Capture Report (*TradeReportType (856) 5 = No/Was (Replaced)*) is published that provides the final calculated clearing price and clearing quantity.

### 3.25 Decaying Futures (T7 Derivatives)

With the Decaying Futures functionality, a trade in one futures product is automatically converted into equivalent trades in a related product.

Trades on Decaying products executed on year, season or quarter basis are split into subsequent months.

On-exchange decaying trades are reported in T7 only on the decaying instrument basis.

## 4 Connectivity and Session Parameters

### 4.1 Session Identification and Authentication

#### 4.1.1 Session Identification and Logon Parameters

For each FIX session, a unique identifier, the *SenderCompID* (49) and a *Password* (554) is assigned by T7 on registration. A participant may have multiple FIX sessions (connections to the FIX Gateway). For each business unit and market type (Derivatives and Cash) a separate FIX session is required.

For security reasons a *Password* (554) must be specified on the *Logon* (A) message. The initial password assigned by T7 for each FIX session should be changed during the first logon by specifying *NewPassword* (925) in the *Logon* (A) message.

When changing the password, the following password validation rules have to be applied:

- Minimum password length 8
- Minimum required alphanumeric characters 1
- Minimum required uppercase characters 1
- Minimum required lowercase characters 1
- Minimum required special (not alphanumeric) characters 1

In exceptional circumstances, a password may need to be reset. Participants are able to perform a password reset via the Member Section.

All messages sent to the FIX Gateway should contain the assigned unique identifier of the FIX session in the field *SenderCompID* (49) and market type identification in the *TargetCompID* (56) field:

- FIX Sessions for T7 Derivatives: *TargetCompID* (56) = "EUREX"
- FIX Sessions for T7 Cash (all XMICs except T7 Boerse Frankfurt): *TargetCompID* (56) = "XETRA"
- FIX Sessions for T7 Boerse Frankfurt: *TargetCompID* (56) = "XFRA"

All messages sent by the FIX Gateway to the client will contain the market type identification ("EUREX" / "XETRA" / "XFRA") in the *SenderCompID* (49) field and the assigned unique identifier of the FIX session in the *TargetCompID* (56) field.

The FIX Gateway has a two-step logon procedure, with a *Logon* (A) message (Session Logon) followed by one or multiple *User Request* (UBE/BE) messages (Trader Logons) at an application level.

#### 4.1.2 Network Authentication

The FIX Gateway will validate the subnet from where the FIX session is initiated during session logon. The FIX session logon (*Logon* (A) message) will be rejected by the FIX Gateway if the subnet cannot be authenticated. Participants are allowed to initiate/resume their FIX sessions from alternate locations, e.g., a backup site or disaster recovery location, T7 permits the setup of up to four IP subnet addresses for FIX session IDs via the Member Section.

### 4.1.3 Session Logon

The *Logon (A)* message authenticates a FIX session and establishes a connection to the FIX Gateway. This message must be the first one sent by the client. The FIX Gateway will validate the *SenderCompID (49)* and *Password (554)*. A successful logon will initiate a FIX session.

The T7 FIX Gateway does not support encryption. *EncryptMethod (98)* must therefore be set to "0" (*None/other*).

As an additional safeguard measure, the *TestMessageIndicator (464)* is used to indicate whether a FIX session to be initiated will be used for Simulation or Production purposes. The FIX Gateway will reject a *Logon (A)* message in the event that the *TestMessageIndicator (464)* value does not match the target environment.

In order to enhance operational support and error analysis on both the session and application level, information about the client's FIX engine (*FIXEngineName (1600)*, *FIXEngineVersion (1601)*, *FIXEngineVendor (1602)*) as well as the used FIX application (*ApplicationSystemName (1603)*, *ApplicationSystemVersion (1604)*, *ApplicationSystemVendor (1605)*) must be provided by the client in the *Logon (A)* message. For more details, please refer to the detailed description of the *Logon (A)* message in **chapter 6.4.1 Session Logon**.

Note: The *Logon (A)* message is not used to log on and authenticate a trader on the T7 trading system.

### 4.1.4 Trader Logon

The *User Request (UBE/BE)* message identifies and authenticates a qualified trader establishing access to the T7 trading system. FIX sessions may be shared by several traders, with the exception of Back-office FIX sessions. Back-office FIX sessions do not require a trader logon.

#### Trading Session

The participant must provide the corresponding T7 User ID of the trader in the *Username (553)* field, and the corresponding password in the *Password (554)* field.

A successful trader logon will grant the trader access to the T7 trading system.

A trader logon requires an active connection to the T7 trading system (indicated by a *TradingSessionStatus (h)* message with *TradSesEvent (1368) = 203 (Message processing resumed)* sent previously by the FIX Gateway). Order related messages will only be accepted by the trading system if a trader is logged on successfully. Otherwise these messages will be rejected (e.g. "User not logged in" in the message *ExecutionReport (8)*) and have to be sent again by the customer using a new *MsgSeqNum (34)* and a new *ClOrdID (11)*. It is strongly recommended that order related messages should only be sent if a previous trader logon was positively confirmed.

#### Back-office Session

Back-office FIX sessions do not require a trader logon. For the reception of data an active connection to the T7 trading system (indicated by a *TradingSessionStatus (h)* message with *TradSesEvent (1368) = 203 (Message processing resumed)* sent previously by the FIX Gateway) is required.

#### 4.1.5 IP Addresses and Ports

The FIX connection between a member's infrastructure and the T7 FIX Gateway service is established via a TCP/IP connection. The service comprises of primary and secondary gateways, operated in the T7 Simulation and Production environments. The respective gateways will use distinct target IP addresses and port numbers.

For each FIX session, two individual IP addresses and port numbers are assigned and communicated by T7. Primary IP address and port is for default usage. Secondary combination is reserved for emergency cases (e.g. line outage).

The participant is free to define its own source addresses as long as they match one of the IP subnet addresses entered during the registration of the FIX session (see **chapter 4.1.2 Network Authentication**).

## 4.2 Failover

The T7 FIX Gateway service features a redundant setup of all components to provide a high level of availability and fault tolerance, and to facilitate a client's implementation of failover in network- and application level failure scenarios. Its setup offers connectivity to both FIX Gateways and thus provides a client's application with the possibility to select which FIX Gateway it will connect to.

A FIX session may be initiated via all available connections, but every session may only be instantiated once. Each TCP/IP connection may only support one session instance.

Both participant ports on the primary and on the secondary FIX Gateway are open. Every FIX session may only be logged in once via one of the connections. Per default only the primary FIX Gateway is connected to the market back end. Therefore the first FIX session logon to the secondary FIX Gateway may take some seconds.

In case of a customer failover the T7 ETI session will be disconnected and non-persistent orders will be deleted.

### 4.2.1 Network Failover

The minimal network configuration that enables a network failover comprises two connections via dedicated leased line and/or via the Internet. Each line is unchangeably assigned to one FIX Gateway, one to the primary, the other to the backup gateway.

After a successful FIX logon to the secondary FIX Gateway, the port of the primary FIX Gateway connection will remain open, but any further logon attempts to the primary FIX Gateway connection will lead to a disconnect of this session.

### 4.2.2 Application Failover

In the event of a FIX Gateway failure, active FIX sessions connected to this gateway will be disconnected and the corresponding port will be closed. There will be no automatic FIX session failover in case of a FIX Gateway failure.

### 4.2.3 Best Practice

In all failover scenarios described above, participants may resume a FIX session for the same *Sender-CompID (49)* via connection to the secondary FIX Gateway. Participants should therefore implement a failover mechanism in their application, in order to be able to establish a FIX session over the alternative connection.

If a connection or a session logon fails or is not responded to immediately, a second attempt should only be made after a few seconds (30 seconds recommended).

Note: A failover will not cause a reset of sequence numbers on the FIX Gateway side, neither is a reset of sequence numbers required in the participant's application. After re-establishment of the FIX session via the alternative connection, the regular retransmission process of missed messages starts.

### 4.3 Message Throttling and Queuing

All messages will be processed by the FIX engine on the exchange side. Nevertheless participants should not send more than 50 application messages (production environment) per second, trading market and FIX session in order to prevent the T7 FIX Gateway from queuing. In case of exceeding a rate of 50 messages per second, the FIX Gateway may queue the affected messages internally and forward them subsequently to the back end, maintaining the maximum back end throttle rate.

The general session parameter `MaxOrderRequestQueueTimeout` allows a client to define the maximum time period in milliseconds a single FIX message should be held in the FIX Gateway's intermediate buffer in case the throttle limit is exceeded, before it is rejected.

Default is a maximum value, which means that all requests will be queued until they can be routed to the trading system.

Session parameters can be maintained within the Member Section.

### 4.4 Mass Cancellation on Disconnect

The FIX Gateway does not cancel orders in the event of a FIX session disconnection.

Please note: in case of a customer failover the T7 ETI session will be disconnected and non-persistent orders will be deleted. For more details, please refer to **chapter 4.2 Failover**.

### 4.5 Backward Compatibility

Backward compatibility on the T7 FIX Gateway is feasible if all of the following applies to a legacy client connecting to a T7 FIX Gateway with a newer version:

- existing request-messages did not change or the changes affect only optional fields
- the FIX Engine on the customer side is capable of dropping/logging unknown new messages, unknown new fields and unknown new valid values on both session and application levels
- new functionality is not used by customers

Under this definition, the FIX interface for T7 Release 10.0 is backward compatible with the FIX interface for T7 9.1 for FIX Trading sessions of the version FIX 4.4.

FIX Backoffice sessions are not offered anymore. For the FIX Trading sessions, only the version FIX 4.4 is supported.

## 5 Session Layer

The T7 FIX Gateway uses session level messages as specified by the FIX 4.4 Specification with T7 specific extensions as described in this document.

Details regarding the layouts of the administrative messages can be found in **chapter 6.4 Administrative Messages**.

### 5.1 Logon

The *Logon (A)* message is the first message the participant needs to send after the TCP connection has been established. No encryption is supported by the FIX Gateway.

As the first message for the day the participant should send a *Logon (A)* message with sequence number 1.

A FIX session is identified by the field *SenderCompID (49)* and *TargetCompID (56)* in the message header.

*SenderCompID (49)*, *Password (554)* and *BeginString (8)* are validated during the session logon. If validation fails, the FIX Gateway will send a *Logout (5)* message specifying the reason for the rejection followed by the termination of the TCP connection.

Note: If validation during session logon has failed, the sequence number will not be reset.

In the event of an intra-day restart the *Logon (A)* response message may provide a sequence number higher than expected by the participant. This would indicate that messages were missed. The participant should send a *ResendRequest (2)* message to trigger retransmission of the missed messages (please refer to **chapter 5.5 Resend Request** for more details).

Logon requests with *ResetSeqNumFlag (141)* set to “Y” will trigger a reset of sequence numbers at the participant side only. The FIX Gateway’s sequence numbering will remain unchanged. Thus the customer is able to access all messages disseminated by the FIX Gateway including the transmission of all active orders at start of the business day.

Note: If a FIX session is successfully logged on subsequent *Logon (A)* messages will be discarded.

### 5.2 Sequence Number

All FIX messages are identified by a unique sequence number. The FIX Gateway will process messages in sequence per tradeable instrument.

Sequence numbers are reset by the FIX Gateway during down time after the end of each trading day. The same behaviour is expected for the FIX engine on the client side.

Sequence numbers sent by the client which are behind sequence expected will trigger a logout and TCP connection drop by the FIX Gateway.

Sequence numbers ahead of sequence will trigger a message recovery by the FIX Gateway via the *ResendRequest (2)* message.

### 5.3 Heartbeat

The *HeartBtInt (108)* has to be specified by the participant during the FIX session logon.

A *Heartbeat (0)* message should be sent by the participant if no other message has been processed during the defined *HeartBtInt (108)* interval.

## 5.4 Test Request

A *TestRequest* (1) message should be sent if no in-sequence message has been received for more than the heartbeat interval. If no in-sequence message is received after that for more than the heartbeat interval, the TCP connection should be dropped.

## 5.5 Resend Request

A *ResendRequest* (2) message initiates the retransmission of missed messages and can be used if a sequence number gap has been detected. A *ResendRequest* (2) message needs to be processed even if it is ahead of sequence.

The *PossDupFlag* (43) field set to “Y” in the Message Header of a FIX message indicates that a FIX engine is repeating transmission of already sent content (including *MsgSeqNum* (34)). In this case a new value is set in the field *SendingTime* (52) and the sending time of the original message is delivered in field *OrigSendingTime* (122).

The T7 FIX Gateway supports open or closed sequence range in a *ResendRequest* (2) message (an open range is indicated by sequence number zero as the *EndSeqNo* (16)).

**Note:** No Gap Fill messages should be sent by the participant during the resend series for application messages. Application messages should always be re-transmitted since the T7 FIX Gateway requires all missed application messages for the purpose of reconciliation with the T7 trading system.

## 5.6 Reject

Session level rejects are used by the T7 FIX Gateway to indicate violations of the session protocol, missing fields or invalid values.

## 5.7 Sequence Reset

Two types of *SequenceReset* (4) messages are supported: Gap Fill mode and Reset mode.

### 5.7.1 Gap Fill Mode

This type of *SequenceReset* (4) message is the response to a *ResendRequest* (2) message.

Gap Fill mode is indicated by *GapFillFlag* (123) field = “Y”.

All gap fill messages should have *PossDupFlag* (43) = “Y” in the Message Header.

**Note:** Gap Fill mode should only be used by the participant for administrative messages (see [chapter 5.5 Resend Request](#)).

### 5.7.2 Reset Mode

The Reset Mode of the *SequenceReset* (4) message may be used by the participant in emergency scenarios where all means of automatic recovery are lost (e.g. in case of an unrecoverable application failure).

Reset Mode is indicated if *GapFillFlag* (123) = “N” or if the field is omitted.

After the Reset Mode has been triggered, the *TestRequest* (1) message should be used by the participant to verify that the requested reset has been accepted by the FIX Gateway.



## 5.8 Logout

The *Logout (5)* message is used by the participant to gracefully close the FIX session. Messages need to be processed normally by the participant until the FIX Gateway sends the logout confirmation.

The T7 FIX Gateway will send a *TradingSessionStatus (h)* message when all messages for a FIX session have been processed. The FIX Gateway will subsequently log out the FIX session.

**Note:** The FIX Gateway will also send a *Logout (5)* message if validation fails for a FIX session logon. The reason for the rejection is specified in *SessionStatus (1409)*. The *Logout (5)* message is followed by a drop of the TCP connection.

## 5.9 Possible Resend

### 5.9.1 Messages from Client

The FIX Gateway has no specific functionality for FIX messages from client with *PossResend (97) = "Y"*. Order requests with *PossResend (97) = "Y"*:

- Requests will be rejected if the *ClOrdID (11)* contained in the message has been processed before.
- Requests will be processed if the *ClOrdID (11)* in the request message has not been processed before.

Other requests with *PossResend (97) = "Y"*:

- No special processing, FIX requests will be processed as usual, independently of the value of the field *PossResend (97)*.

### 5.9.2 Messages to Client

The FIX Gateway will set *PossResend (97) = "Y"* to indicate that a message sent to the client may contain information that has been sent under another sequence number.

If the customer receives a message from FIX Gateway containing *PossResend (97) = "Y"*, the customer must check if the information contained in the message has been received in a previous message and has been already processed. If this is the case the customer should discard the message to avoid the processing of duplicate data.

This is especially relevant for messages containing trading information (order and trade messages). For these messages the FIX Gateway will deliver fields that can be used for the identification of duplicate messages without checking the whole content of the FIX messages.

Relevant messages and fields to be used for the identification of duplicate messages:

Message content	FIX Message	FIX field with unique identifier	Derivatives	Cash
Order information	ExecutionReport (8)	ExecID (17)	✓	✓
Trade notifications via FIX Back-office sessions	User/TradeCaptureReport (UAE/AE)	TradeReportID (571)	✓	✓

## 5.10 Recovery

When a participant reconnects after a FIX session disconnection during the same business day, two different scenarios can be identified as a reason for the outage: namely outage on the client side and outage on T7 FIX Gateway side.

### 5.10.1 Outage on the Client Side

- After resuming the FIX session, the participant may have missed some messages from the FIX Gateway. In this case, the sequence number of the next message received from the FIX Gateway will be ahead of the last *MsgSeqNum* (34) stored on the participant side.
- The participant should send a *ResendRequest* (2) message in order to trigger all missed messages during the outage.
- The FIX Gateway will return all potentially missed messages with *PossDupFlag* (43) = "Y" to indicate that a message may have been previously transmitted with the same *MsgSeqNum* (34).

Note: Mass cancellation service on disconnect is not supported by the T7 FIX Gateway. All open orders remain in the order book during an outage including non-persistent orders.

### 5.10.2 Outage on T7 FIX Gateway Side

In the unlikely event that the disconnection was due to an outage on the T7 side, the participant should consider the following recovery mechanisms:

- After reconnection of the FIX session, the FIX Gateway may receive a sequence number higher than the one expected and sends a *ResendRequest* (2) message to the participant.
- The participant should resend all potentially missed messages with *PossDupFlag* (43) = "Y", to indicate that a message may have been previously transmitted with the same *MsgSeqNum* (34). The FIX Gateway will send responses to already processed messages with *PossResend* (97) = "Y". After a forced failover pending order messages might be rejected. These messages can be submitted again by the participant using a new *MsgSeqNum* (34) and a new *ClOrdID* (11).

Note: No Gap Fill messages should be sent by the participant during the resend series for application messages. Application messages should always be re-transmitted since the T7 FIX Gateway requires all missed application messages for the purpose of reconciliation with the T7 trading system.

If a participant sends Gap Fill messages during the resend series for application messages the related orders might not be accessible any more via the FIX Gateway and related order specific information will not be forwarded to the FIX session. This also holds true in case of *Logon* (A) message with *ResetSeqNumFlag* (141) = "Y".

## 6 Message Formats

This chapter provides an overview of supported message types and details on the administrative, technical and application messages used by the T7 FIX interface.

The structure of the header and trailer as well as details on the components used in application messages are provided.

### 6.1 Overview of supported Message Types

#### 6.1.1 Administrative Messages

Message	Type	Derivatives	Cash	Description
Heartbeat	0	✓	✓	The Heartbeat message may be used by the client and the FIX Gateway to monitor the status of the communication link during periods of inactivity.
Test Request	1	✓	✓	The Test Request message is used to trigger a heartbeat message from the opposing application.
Resend Request	2	✓	✓	The Resend Request is used by the client and the FIX Gateway to initiate the retransmission of messages in a recovery scenario.
Reject	3	✓	✓	The Reject message is used by the FIX Gateway when a message is received but cannot be properly processed due to a session-level rule violation.
Sequence Reset	4	✓	✓	The Sequence Reset message has two modes: Gap Fill mode is used in response to a Resend Request when one or more messages must be skipped over. Reset mode specifies an arbitrarily higher new sequence number after an unrecoverable application failure.
Logout	5	✓	✓	The Logout message initiates or confirms the termination of a FIX session. It is also used by the FIX Gateway to reject the FIX session logon.
Logon	A	✓	✓	The Logon message allows the client to connect to the FIX Gateway. It is also used by the FIX Gateway to confirm the logon.
Business Messages Reject	j	✓	✓	The Business Message Reject message indicates that an application message has been rejected.

### 6.1.2 Application Messages: Order Management

Message	Type	Derivatives	Cash	Description
New Order Single	D	✓	✓	The New Order Single message is used by the client to submit an order for single leg securities.
User New Order Multileg	UAB	✓		The User New Order Multileg message is provided to submit orders for securities that are made up of multiple securities, known as "legs". Only for FIX 4.2.
New Order Multileg	AB	✓		The New Order Multileg message is provided to submit orders for securities that are made up of multiple securities, known as "legs". Only for FIX 4.4.
Order Cancel Request	F	✓	✓	The Order Cancel Request is used to delete an existing order.
Order Cancel/Replace Request	G	✓	✓	The Order Cancel/Replace Request is used to modify an existing order.
User Multileg Order Cancel/Replace Request	UAC	✓		The User Multileg Order Cancel/Replace request is used to modify a multileg order (previously submitted using the User New Order Multileg message). Only for FIX 4.2.
Multileg Order Cancel/Replace Request	AC	✓		The Multileg Order Cancel/Replace request is used to modify a multileg order (previously submitted using the New Order Multileg message). Only for FIX 4.4.
Execution Report	8	✓	✓	The Execution Report message is used to: <ul style="list-style-type: none"> <li>– confirm the receipt of an order</li> <li>– confirm changes to an existing order</li> <li>– transmit all active orders</li> <li>– relay fill information</li> <li>– reject orders</li> </ul>
Order Cancel Reject	9	✓	✓	The Order Cancel Reject message indicates that an Order Cancel Request, Order Cancel/Replace Request or Multileg Order Cancel/Replace Request has been rejected.
User Order Mass Action Request	UCA	✓	✓	User Order Mass Action Request is used for deletion of multiple orders.
User Order Mass Action Response	UCAR	✓	✓	User Order Mass Action Response is used as a response to a UserOrderMassActionRequest (UCA).
User Order Mass Action Report	UBZ	✓	✓	This message informs about unsolicited mass cancellation events.

### 6.1.3 Application Messages: Security Status Definition Request

Message	Type	Derivatives	Cash	Description
Security Status Definition Request	U27		✓	The Security Status Definition Request is used to send knockout and soldout requests (T7 Boerse Frankfurt)
Security Status	f		✓	The Security Status is used as the application level response to a Security Status Definition Request (T7 Boerse Frankfurt)

### 6.1.4 Application Messages: Strategy Creation

Message	Type	Derivatives	Cash	Description
Security Definition Request	c	✓		The Security Definition Request message is used to create a strategy on Eurex.
Security Definition	d	✓		The Security Definition message is used to accept or reject the security defined in a Security Definition message.

### 6.1.5 Application Messages: Party Risk Limits

Message	Type	Derivatives	Cash	Description
User Party Risk Limits Request	UCL	✓		The UserPartyRiskLimitsRequest (UCL) is used to inquire pre-trade risk limits. These limits can be defined for on-book or off-book trading on product, exchange and user risk group level.
User Party Risk Limits Report	UCM	✓		The User Party Risk Limits Report message is used as the application level response to a User Party Risk Limits Request.

### 6.1.6 Application Messages: Cross Request

Message	Type	Derivatives	Cash	Description
Cross Request	UDS	✓	✓	Cross Request is used for the publication of Cross Trade Announcements and, for T7 Derivatives, also for the Client Liquidity Improvement Process (CLIP).
Cross Request Acknowledgement	UDT	✓	✓	Cross Request Acknowledgement is used as the application level response to a Cross Request.

### 6.1.7 Application Messages: Quote Request Functionality

Message	Type	Derivatives	Cash	Description
Quote Request	R	✓	✓	The Quote Request message is used to request public quotes from market makers (T7 Cash, T7 Derivatives) and private quotes from specialists (T7 Cash). This message is commonly referred to as a Request For Quote (RFQ).
Mass/Quote Acknowledgement	b	✓	✓	Mass/Quote Acknowledgement is used as the application level response to a Quote Request for a public quote. The message is also used to send pending responses for Quote Requests for public and private quotes.
Quote	S		✓	The Quote message is used as the response to a Quote Request for a private quote.
User Quote Request Reject	UAG	✓	✓	The User Quote Request Reject message is used to reject a Quote Request. Only for FIX 4.2.
Quote Request Reject	AG	✓	✓	The Quote Request Reject message is used to reject a Quote Request. Only for FIX 4.4.

### 6.1.8 Application Messages: Trade Capture

Message	Type	Derivatives	Cash	Description
User Trade Capture Report	UAE	✓	✓	The User Trade Capture Report message is used to report trades and trade reversals via FIX Back-office sessions. Additionally, for T7 Cash the message is also used for the TES (T7 Entry Service) message flows (TES requests and broadcasts). Only for FIX 4.2.
Trade Capture Report	AE	✓	✓	The Trade Capture Report message is used to report trades and trade reversals via FIX Back-office sessions. Additionally, for T7 Cash the message is also used for the TES (T7 Entry Service) message flows (TES requests and broadcasts). Only for FIX 4.4.
User Trade Capture Report Ack	UAR		✓	The User Trade Capture Report Ack message is used as a response to a User Trade Capture Report (UAE) sent by the customer for a TES trade. Only for FIX 4.2.
Trade Capture Report Ack	AR		✓	The Trade Capture Report Ack message is used as a response to a Trade Capture Report (AE) sent by the customer for a TES trade. Only for FIX 4.4.

### 6.1.9 Application Messages: Other

Message	Type	Derivatives	Cash	Description
User User Request	UBE	✓	✓	Each trader needs to logon/logoff to/from T7 system via the User User Request message. Only for FIX 4.2.
User Request	BE	✓	✓	Each trader needs to logon/logoff to/from T7 system via the User Request message. Only for FIX 4.4.
User User Response	UBF	✓	✓	The User User Response message is used to confirm or reject the trader logon/logoff. Only for FIX 4.2.
User Response	BF	✓	✓	The User Response message is used to confirm or reject the trader logon/logoff. Only for FIX 4.4.
User Notification	UCB	✓	✓	The User Notification message is used to: - send information of an unsolicited trader logoff - send information of legal notifications
Trading Session Status	h	✓	✓	The Trading Session Status message informs about session related events.

... continued ...

Message	Type	Derivatives	Cash	Description
Session Details List	U6	✓	✓	The Session Details List message provides a list of ETI sessions of the own business unit. This message will be sent after the establishment of the connection to the T7 trading system.
User Party Risk Limits Update Report	UCR	✓		User Party Risk Limits Update Report. This message communicates risk control events related to the Advanced Risk Protection functionality of T7 in case of a risk limit breach or release.
User Party Entitlements Update Report	UCZ	✓	✓	User Party Entitlements Update Report. This message communicates risk control events related to the manual stop or release of trading functionality. Events will be generated on the Clearing back end and passed to the user by the T7 back end.
User Party Action Report	UDI	✓	✓	User Party Action Report. This message communicates risk control events of type halt-trading and re-instate. Events will be entered via the T7 Admin GUI.



## 6.2 Explanation of the Message Formats

The tables in the next chapters describe the formats of the different components and messages used in T7 FIX Gateway.

- Column headers:** “**R**”: will indicate the generic usage of tags and components with respect to the requirements of the T7 FIX interface.
- “**D**”: is the abbreviation for Derivatives. It will describe the usage of tags and components for Derivatives.
- “**C**”: is the abbreviation for Cash Market. It will describe the usage of tags and components for Cash.
- Content:** The content of the columns “**R**”, “**D**” and “**C**” will indicate if a tag or component is mandatory (“Y”), optional (“N”), conditionally mandatory (“C”) or not used (shaded cell) within the structure concerned.
- “**R**” describes the generic usage in the T7 FIX interface and contains a summary of the content of “**D**” and “**C**”. Example: “**D**” = “Y” and “**C**” = “N” -> “**R**” = “N”.
- “**Description**” will contain specific description, format, valid values and further explanatory remarks of a FIX field. Valid values are included in a table. This table has the additional columns “**D**” and “**C**”. A checkmark (✓) identifies that the valid value is used for the specific system (Derivatives (“**D**”) or/and Cash Market (“**C**”).

The following FIX elements are denoted as follows:

- **FIX messages:** message name (Message Type)
- **FIX fields:** field name (FIX tag)
- **FIX components:** <component block name>
- **FIX repeating groups:** <repeating group name>
- **Occurrences in FIX repeating groups:** <repeating group occurrence name>

Field formats are described with the standard FIX notation (e.g. Int, String, Boolean, Price, etc.).

For some fields additional information is added to describe length and format restrictions related to the T7 FIX Gateway and the T7 Backend implementation. Those are not FIX data type definitions but more conventions of writing and valid only for this document.

For example:

- *String (128)* means that the tag's value will be a string with a maximum length of 128.
- *Int (10)* means that the tag's value may have up to 10 significant digits (after leading zeroes have been removed).
- *Price (11.8)* means that tag's value is a price with up to 11 significant digits before the decimal point and at most 8 decimal places.
- *Qty (15.4)* means that tag's value is a quantity with up to 15 significant digits before the decimal point and at most 4 decimal places.

## 6.3 Message Header and Trailer

### 6.3.1 Message Header

Tag	Field Name	R	D	C	Description												
8	BeginString	Y	Y	Y	String Identifies beginning of new message and protocol version. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX.4.4</td> <td>Version 4.4</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>FIX.4.2</td> <td>Version 4.2</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX.4.4	Version 4.4	✓	✓	FIX.4.2	Version 4.2	✓	✓
Value	Description	D	C														
FIX.4.4	Version 4.4	✓	✓														
FIX.4.2	Version 4.2	✓	✓														
9	BodyLength	Y	Y	Y	Length Message length, in bytes, forward to the CheckSum field.												
35	MsgType	Y	Y	Y	String Defines the message type. Always third field in message. Always unencrypted.  <u>Note:</u> A 'U' as the first character in the MsgType field (i.e. U, U2, etc) indicates that the message format is privately defined between the sender and receiver.  The valid values for the supported message types are defined in <b>chapter 6.1 Overview of Supported Message Types</b> .												
34	MsgSeqNum	Y	Y	Y	SeqNum Message sequence number.												
43	PossDupFlag	N	N	N	Boolean Indicates possible retransmission of message with this sequence number. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Original transmission</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Possible duplicate</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Original transmission	✓	✓	Y	Possible duplicate	✓	✓
Value	Description	D	C														
N	Original transmission	✓	✓														
Y	Possible duplicate	✓	✓														
49	SenderCompID	Y	Y	Y	String Assigned identifier of the party sending the message. Will be "EUREX", "XETRA" or "XFRA" in messages sent to the client.												
52	SendingTime	Y	Y	Y	UTC Timestamp Time of message transmission. This field will be ignored by the FIX Gateway.												
56	TargetCompID	Y	Y	Y	String Assigned identifier of the party receiving the message. Will be "EUREX", "XETRA" or "XFRA" in messages sent by the client.												

... continued ...

Tag	Field Name	R	D	C	Description												
97	PossResend	N	N	N	<p>Boolean Indicates that message may contain information that has been sent under another sequence number.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Original transmission</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Possible Resend</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Original transmission	✓	✓	Y	Possible Resend	✓	✓
Value	Description	D	C														
N	Original transmission	✓	✓														
Y	Possible Resend	✓	✓														
122	OrigSendingTime	N	C	C	<p>UTC timestamp The FIX Gateway ignores the OrigSendingTime (122) in all message types. Required if PossDupFlag (43) = "Y".</p>												
369	LastMsgSeqNumProcessed	N	N	N	<p>SeqNum The last MsgSeqNum (34) value received by the FIX engine and processed by downstream application, such as trading engine or order routing system. Can be specified on every message sent. Useful for detecting a backlog with a counterparty.</p>												

### 6.3.2 Message Trailer

Tag	Field Name	R	D	C	Description
10	Checksum	Y	Y	Y	<p>String Three byte, simple checksum.</p>

## 6.4 Administrative Messages

### 6.4.1 Session Logon

The Logon message allows the client to connect to the FIX Gateway. It is also used by the FIX Gateway to confirm the logon.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'A' = Logon												
<Message Body>																	
98	EncryptMethod	Y	Y	Y	Int Method of encryption. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None/other</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	None/other	✓	✓				
Value	Description	D	C														
0	None/other	✓	✓														
108	HeartBtInt	Y	Y	Y	Int Heartbeat interval in seconds. The heartbeat interval must be greater than zero.												
141	ResetSeqNumFlag	N	N	N	Boolean Logon requests with ResetSeqNumFlag (141) set to Y will trigger a reset of sequence numbers at the participant side only. The sequence numbering for the messages generated from FIX Gateway will remain unchanged. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>No</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Yes, reset sequence numbers</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	No	✓	✓	Y	Yes, reset sequence numbers	✓	✓
Value	Description	D	C														
N	No	✓	✓														
Y	Yes, reset sequence numbers	✓	✓														
383	MaxMessageSize	N	N	N	Length Maximum number of bytes supported for a single message. This field will be ignored by the FIX Gateway.												
464	TestMessageIndicator	N	N	N	Boolean Indicates that this FIX session will be sending and receiving "test" vs. "production" messages. This field is required in the messages sent to the FIX Gateway. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>False (Production)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>True (Simulation)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	False (Production)	✓	✓	Y	True (Simulation)	✓	✓
Value	Description	D	C														
N	False (Production)	✓	✓														
Y	True (Simulation)	✓	✓														
554	Password	N	N	N	String Password. This field is required in the messages sent to the FIX Gateway.												

... continued ...

Tag	Field Name	R	D	C	Description
789	NextExpectedMsgSeqNum	N	N	N	SeqNum Next expected MsgSeqNum value to be received. This field will be ignored by the FIX Gateway.
925	NewPassword	N	N	N	String New Password.
1408	DefaultCstmApplVerID	N	N	N	String (30) Most recent version number of the T7 FIX Gateway interface.
1600	FIXEngineName	N	N	N	String (30) Provides the name of the infrastructure component being used for session level communication. Normally this would be the FIX Engine or FIX Gateway product name. This field is required in the messages sent to the FIX Gateway.
1601	FIXEngineVersion	N	N	N	String (30) Provides the version of the infrastructure component. It will not be returned in the logon response. This field is required in the messages sent to the FIX Gateway.
1602	FIXEngineVendor	N	N	N	String (30) Provides the name of the vendor providing the infrastructure component. It will not be returned in the logon response. This field is required in the messages sent to the FIX Gateway.
1603	ApplicationSystemName	N	N	N	String (30) Provides the name of the application system being used to generate FIX application messages. This will normally be a trading system, OMS, or EMS. It will not be returned in the logon response. This field is required in the messages sent to the FIX Gateway.
1604	ApplicationSystemVersion	N	N	N	String (30) Provides the version of the application system being used to initiate FIX application messages. It will not be returned in the logon response. This field is required in the messages sent to the FIX Gateway.
1605	ApplicationSystemVendor	N	N	N	String (30) Provides the vendor of the application system. It will not be returned in the logon response. This field is required in the messages sent to the FIX Gateway.

&lt;Standard Trailer&gt;

## 6.4.2 Session Logout

The Logout message initiates or confirms the termination of a FIX session. It is also used by the FIX Gateway to reject the FIX session logon.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'5' = Logout												
<Message Body>																	
58	Text	N	N	N	String (128) Message text.												
1409	SessionStatus	N	N	N	Int (1) Session status.												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Session logout complete</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Invalid user name or password</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	Session logout complete	✓	✓	5	Invalid user name or password	✓	✓
Value	Description	D	C														
4	Session logout complete	✓	✓														
5	Invalid user name or password	✓	✓														
<Standard Trailer>																	

## 6.4.3 Heartbeat

The Heartbeat message may be used by the client and the FIX Gateway to monitor the status of the communication link during periods of inactivity.

Tag	Field Name	R	D	C	Description
<Standard Header>					
35	MsgType	Y	Y	Y	'0' = Heartbeat
<Message Body>					
112	TestReqID	N	C	C	String Identifier included in Test Request message; required in the Heartbeat message if the heartbeat is a response to a Test Request.
<Standard Trailer>					

#### 6.4.4 Test Request

The Test Request message is used to trigger a heartbeat message from the opposing application.

Tag	Field Name	R	D	C	Description
<Standard Header>					
35	MsgType	Y	Y	Y	'1' = Test Request
<Message Body>					
112	TestReqID	Y	Y	Y	String Identifier included in Test Request message; required in the Heartbeat message if the heartbeat is a response to a Test Request.
<Standard Trailer>					

#### 6.4.5 Resend Request

The Resend Request is used by the client and the FIX Gateway to initiate the retransmission of messages in a recovery scenario.

Tag	Field Name	R	D	C	Description
<Standard Header>					
35	MsgType	Y	Y	Y	'2' = Resend Request
<Message Body>					
7	BeginSeqNo	Y	Y	Y	SeqNum Message sequence number of first message in range to be resent.
16	EndSeqNo	Y	Y	Y	Seqnum Message sequence number of last message in range to be resent.
<Standard Trailer>					

### 6.4.6 Business Message Reject

The Business Message Reject message indicates that an application message has been rejected.

Tag	Field Name	R	D	C	Description																												
<Standard Header>																																	
35	MsgType	Y	Y	Y	'j' = Business Message Reject																												
<Message Body>																																	
45	RefSeqNum	Y	Y	Y	SeqNum Reference message sequence number.																												
58	Text	N	N	N	String (128) Error text.																												
372	RefMsgType	Y	Y	Y	String The MsgType (35) of the FIX message being referenced.																												
379	BusinessRejectRefID	N	N	N	String (20) Reference to the ClOrdID (11) of the client's request-message that was rejected. The field will be populated for responses to the order requests.																												
380	BusinessRejectReason	Y	Y	Y	Int (1) Code to identify reason for a Business Message Reject message. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Other</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Unknown ID</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Unsupported message type</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Application not available</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Conditionally required field missing</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Not authorized</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Other	✓	✓	1	Unknown ID	✓	✓	3	Unsupported message type	✓	✓	4	Application not available	✓	✓	5	Conditionally required field missing	✓	✓	6	Not authorized	✓	✓
Value	Description	D	C																														
0	Other	✓	✓																														
1	Unknown ID	✓	✓																														
3	Unsupported message type	✓	✓																														
4	Application not available	✓	✓																														
5	Conditionally required field missing	✓	✓																														
6	Not authorized	✓	✓																														
25023	ReturnCode	Y	Y	Y	Int (10) Unique error or event identification number.																												
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓																				
Value	Description	D	C																														
FIX GATEWAY	Fix Gateway	✓	✓																														
<Standard Trailer>																																	



### 6.4.7 Reject

The Reject message is used by the FIX Gateway when a message is received but cannot be properly processed due to a session-level rule violation.

Tag	Field Name	R	D	C	Description								
<Standard Header>													
35	MsgType	Y	Y	Y	'3' = Reject								
<Message Body>													
45	RefSeqNum	Y	Y	Y	SeqNum Reference message sequence number.								
58	Text	N	N	N	String (128) Error text.								
371	RefTagID	N	N	N	Int The tag number of the FIX field being referenced.								
372	RefMsgType	Y	Y	Y	String The MsgType (35) of the FIX message being referenced.								
373	SessionRejectReason	N	N	N	Int (2) Code to identify reason for a session-level Reject message.  The valid values are defined in <b>chapter 6.4.7.1 SessionRejectReason (373): List of Valid Values.</b>								
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.								
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓
Value	Description	D	C										
FIX GATEWAY	Fix Gateway	✓	✓										
<Standard Trailer>													

**6.4.7.1 SessionRejectReason (373): List of Valid Values**

Value	Description	Derivatives	Cash
0	Invalid tag number	✓	✓
1	Required tag missing	✓	✓
2	Tag not defined for this message type	✓	✓
3	Undefined tag	✓	✓
4	Tag specified without value	✓	✓
5	Value is incorrect for this tag	✓	✓
6	Incorrect data format for value	✓	✓
7	Decryption problem	✓	✓
8	Signature problem	✓	✓
9	CompID Problem	✓	✓
10	Sending time accuracy problem	✓	✓
11	Invalid msgtype	✓	✓
12	XML Validation Error	✓	✓
13	Tag appears more than once	✓	✓
14	Tag specified out of required order	✓	✓
15	Repeating group fields out of order	✓	✓
16	Incorrect NumInGroup count for repeating group	✓	✓
17	Non data value includes field delimiter	✓	✓
18	Invalid/Unsupported Application Version	✓	✓
99	Other	✓	✓

### 6.4.8 Sequence Reset

The Sequence Reset message has two modes: Gap Fill mode is used in response to a Resend Request when one or more messages must be skipped over. Reset mode specifies an arbitrarily higher new sequence number after an uncoverable application failure.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'4' = Sequence Reset												
<Message Body>																	
36	NewSeqNo	Y	Y	Y	SeqNum New sequence number.												
123	GapFillFlag	N	N	N	Boolean Indicates that the Sequence Reset message is replacing administrative or application messages which will not be resent.												
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Sequence Reset, Ignore Msg Seq Num</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Gap Fill Message, Msg Seq Num Field Valid</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>						Value	Description	D	C	N	Sequence Reset, Ignore Msg Seq Num	✓	✓	Y	Gap Fill Message, Msg Seq Num Field Valid	✓	✓
Value	Description	D	C														
N	Sequence Reset, Ignore Msg Seq Num	✓	✓														
Y	Gap Fill Message, Msg Seq Num Field Valid	✓	✓														
<Standard Trailer>																	

## 6.5 Application Messages: Order Management

### 6.5.1 New Order Single

The New Order Single message is used by the client to submit an order for single leg securities.

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	'D' = New Order Single Request
<b>&lt;Message Body&gt;</b>					
<b>&lt;Parties&gt;</b>		Y	Y	Y	Party Information.
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<b>&lt;beneficiary&gt;</b>		N	N		KRX Beneficiary Account.
<b>&lt;client id&gt;</b>		N	N	N	Client Identifier (short code). The Client ID is mandatory for an agent account.
<b>&lt;entering trader&gt;</b>		Y	Y	Y	Entering User ID.
<b>&lt;location ID&gt;</b>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<b>&lt;order origination firm&gt;</b>		N	N		KRX Member ID.
<b>&lt;position account&gt;</b>		N	N		Flexible account identifier.
<b>&lt;takeup firm&gt;</b>		N	N		Take-up trading firm information.
<b>&lt;execution identifier&gt;</b>		N	N	N	Execution identifier.
<b>&lt;investment identifier&gt;</b>		N	N	N	Investment identifier.
<b>end &lt;Parties&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.
<b>&lt;TrdgSesGrp&gt;</b>		N	N	N	The Trading Session Group is used to identify an order for a special trading phase.
<b>&lt;PegInstructions&gt;</b>		N		C	Peg instructions for a trailing stop order.
<b>&lt;MtchgInst&gt;</b>		N	N	N	Matching Instructions for using the Self Match Prevention functionality.
<b>&lt;DisplayInstruction&gt;</b>		N		C	Display instruction is used for Iceberg Order and Volume Discovery Order.
<b>&lt;OrderAttributeGrp&gt;</b>		N	N	N	Order Attribute Group.
2593	NoOrderAttributes	Y	Y	Y	NumInGroup Number of order attributes.
<b>&lt;liquidity provision activity order&gt;</b>		N	N	N	Liquidity provision activity order.
<b>&lt;risk reduction order&gt;</b>		N	N		Risk reduction order.
<b>end &lt;OrderAttributeGrp&gt;</b>					

... continued ...

Tag	Field Name	R	D	C	Description																				
<ValueChecksGrp>		Y	Y	Y	The Value Checks Group can be used for price, notional value and quantity validation.																				
1868	NoValueChecks	Y	Y	Y	NumInGroup Number of value check entries.																				
<price check>		Y	Y	Y	Price validation.																				
<notional value check>		Y	Y	Y	Notional value validation.																				
<quantity check>		N		Y	Quantity validation.																				
end <ValueChecksGrp>																									
1	Account	N	N		String (2) Account.																				
11	ClOrdID	Y	Y	Y	String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).																				
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).																				
18	ExecInst	N	N	C	Multiple Value String Instructions for order management; all orders need to be defined as either persistent or non-persistent. An order may additionally be defined as a Book or Cancel Order. <u>Note:</u> in case of OrdType (40) = "P" a value of "a" must be supplied. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>a</td> <td>Trailing Stop Peg</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Participate don't initiate (Book or cancel)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓	✓	Q	Cancel on trading system failure (non-persistent)	✓	✓	a	Trailing Stop Peg		✓	6	Participate don't initiate (Book or cancel)	✓	✓
Value	Description	D	C																						
H	Reinstate on trading system failure (persistent)	✓	✓																						
Q	Cancel on trading system failure (non-persistent)	✓	✓																						
a	Trailing Stop Peg		✓																						
6	Participate don't initiate (Book or cancel)	✓	✓																						

... continued ...

Tag	Field Name	R	D	C	Description																								
21	HandInst	Y	Y	Y	Char Instructions for order management. Only in FIX 4.2. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Automated execution order, private, no Broker intervention</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Automated execution order, private, no Broker intervention	✓	✓																
Value	Description	D	C																										
1	Automated execution order, private, no Broker intervention	✓	✓																										
38	OrderQty	Y	Y	Y	Qty (15.4) Total Order Quantity.																								
40	OrdType	Y	Y	Y	Char Order type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Market</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Limit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Stop</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Stop limit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>P</td> <td>Pegged</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Market	✓	✓	2	Limit	✓	✓	3	Stop	✓	✓	4	Stop limit	✓	✓	P	Pegged		✓
Value	Description	D	C																										
1	Market	✓	✓																										
2	Limit	✓	✓																										
3	Stop	✓	✓																										
4	Stop limit	✓	✓																										
P	Pegged		✓																										
44	Price	N	C	C	Price (11.8) Limit price. Required if OrdType (40) is Limit (2) or Stop Limit (4).																								
54	Side	Y	Y	Y	Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓												
Value	Description	D	C																										
1	Buy	✓	✓																										
2	Sell	✓	✓																										
58	Text	N	N	N	String (12) First free-format text field for trader-specific or customer-related comments.  <u>For T7 Derivatives:</u> Should not be used in conjunction with KRX Member and KRX Beneficiary Account.																								

... continued ...

Tag	Field Name	R	D	C	Description																												
59	TimeInForce	N	N	N	Char Execution and trading restriction parameters. Will be defaulted to "0" (Day) if missing. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Day</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Good till Cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Immediate or Cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Fill or Kill</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Good till Crossing</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Good till Date</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Day	✓	✓	1	Good till Cancel	✓	✓	3	Immediate or Cancel	✓	✓	4	Fill or Kill		✓	5	Good till Crossing		✓	6	Good till Date	✓	✓
Value	Description	D	C																														
0	Day	✓	✓																														
1	Good till Cancel	✓	✓																														
3	Immediate or Cancel	✓	✓																														
4	Fill or Kill		✓																														
5	Good till Crossing		✓																														
6	Good till Date	✓	✓																														
60	TransactTime	Y	Y	Y	UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway.																												
77	PositionEffect	N	Y		Char Field is used for Derivatives position management purposes and indicates whether the order is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓																	
Value	Description	D	C																														
O	Open	✓																															
C	Close	✓																															
99	StopPx	N	C	C	Price (11.8) Stop Price. Required for Stop Market, Stop Limit and Trailing Stop Orders.																												
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																												
117	QuoteID	N		N	Int (20) Unique identifier for quote. This field has to be set to request execution of a trade for a particular private quote request.																												
432	ExpireDate	N	C	C	LocalMktDate Date of order expiry. Required if TimeInForce (59) = 6 (Good till Date).																												

... continued ...

Tag	Field Name	R	D	C	Description																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
W	Desk	✓																															
Y	Electronic	✓																															
C	Vendor-provided Platform billed by Executing Broker	✓																															
G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓																															
H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
1100	TriggerType	N	C	C	Char Defines when the trigger will hit, i.e. the action specified by the trigger instructions will come into effect. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Price movement</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	Price movement	✓	✓																				
Value	Description	D	C																														
4	Price movement	✓	✓																														
1102	TriggerPrice	N	C	C	Price (11.8) The price at which the trigger should hit.																												
1724	OrderOrigination	N	N	N	Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓	✓																				
Value	Description	D	C																														
5	Direct market access	✓	✓																														
1815	TradingCapacity	Y	Y	Y	Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Riskless Principal</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓	✓	5	Principal (Proprietary)	✓	✓	6	Market Maker	✓	✓	9	Riskless Principal		✓								
Value	Description	D	C																														
1	Customer (Agency)	✓	✓																														
5	Principal (Proprietary)	✓	✓																														
6	Market Maker	✓	✓																														
9	Riskless Principal		✓																														
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).																												



... continued ...

Tag	Field Name	R	D	C	Description												
25008	FreeText2	N	N	N	String (12) Second free-format text field for trader-specific or customer-related comments.												
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.												
25107	FreeText4	N		N	String (16) Free-format text field for trader-specific or customer related comments.												
25125	VolumeDiscoveryPrice	N		C	Price Indicates the second limit price of a volume discovery order.												
30625	TradeAtCloseOptIn	N		N	Boolean Indicates whether this order is eligible for Trade at Close match. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not eligible for Trade at Close match</td> <td></td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Eligible for Trade at Close match</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Not eligible for Trade at Close match		✓	Y	Eligible for Trade at Close match		✓
Value	Description	D	C														
N	Not eligible for Trade at Close match		✓														
Y	Eligible for Trade at Close match		✓														

&lt;Standard Trailer&gt;

## 6.5.2 New Order Multileg

The New Order Multileg message is provided to submit orders for securities that are made up of multiple securities, known as "legs".

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y		'UAB' / 'AB' = User / New Order Multileg
<b>&lt;Message Body&gt;</b>					
<b>&lt;Parties&gt;</b>		Y	Y		Party Information.
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<b>&lt;beneficiary&gt;</b>		N	N		KRX Beneficiary Account.
<b>&lt;client id&gt;</b>		N	N		Client Identifier (short code). The Client ID is mandatory for an agent account.
<b>&lt;entering trader&gt;</b>		Y	Y		Entering User ID.
<b>&lt;execution identifier&gt;</b>		N	N		Execution identifier.
<b>&lt;investment identifier&gt;</b>		N	N		Investment identifier.
<b>&lt;location ID&gt;</b>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<b>&lt;order origination firm&gt;</b>		N	N		KRX Member ID.
<b>&lt;position account&gt;</b>		N	N		Flexible account identifier.
<b>&lt;takeup firm&gt;</b>		N	N		Take-up trading firm information.
<b>end &lt;Parties&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y	Y		Security identification.
<b>&lt;LegOrdGrp&gt;</b>		Y	Y		The group of leg is used to specify clearing attributes for the legs of a Multileg Order.
<b>&lt;MtchgInst&gt;</b>		N	N		Matching Instructions for using the Self Match Prevention functionality.
<b>&lt;OrderAttributeGrp&gt;</b>		N	N		Order Attribute Group.
2593	NoOrderAttributes	Y	Y		NumInGroup Number of order attributes.
<b>&lt;liquidity provision activity order&gt;</b>		N	N		Liquidity provision activity order.
<b>&lt;risk reduction order&gt;</b>		N	N		Risk reduction order.
<b>end &lt;OrderAttributeGrp&gt;</b>					
<b>&lt;ValueChecksGrp&gt;</b>		Y	Y		The Value Checks Group can be used for price, notional value and quantity validation.
1868	NoValueChecks	Y	Y		NumInGroup Number of value check entries.

... continued ...

Tag	Field Name	R	D	C	Description																
<price check>		Y	Y		Price validation.																
<notional value check>		Y	Y		Notional value validation.																
end <ValueChecksGrp>																					
11	ClOrdID	Y	Y		String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).																
18	ExecInst	N	N		Multiple Value String Instructions for order management; all orders need to be defined as either persistent or non-persistent. An order may additionally be defined as a Book or Cancel Order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td></td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Participate don't initiate (Book or cancel)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓		Q	Cancel on trading system failure (non-persistent)	✓		6	Participate don't initiate (Book or cancel)	✓	
Value	Description	D	C																		
H	Reinstate on trading system failure (persistent)	✓																			
Q	Cancel on trading system failure (non-persistent)	✓																			
6	Participate don't initiate (Book or cancel)	✓																			
38	OrderQty	Y	Y		Qty (15.4) Total Order Quantity.																
40	OrdType	Y	Y		Char Order type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Limit</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	2	Limit	✓									
Value	Description	D	C																		
2	Limit	✓																			
44	Price	Y	Y		Price (11.8) Limit price.																
54	Side	Y	Y		Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓		2	Sell	✓					
Value	Description	D	C																		
1	Buy	✓																			
2	Sell	✓																			
58	Text	N	N		String (12) First free-format text field for trader-specific or customer-related comments.  For T7 Derivatives: Should not be used in conjunction with KRX Member and KRX Beneficiary Account.																

... continued ...

Tag	Field Name	R	D	C	Description																												
59	TimeInForce	N	N		Char Execution and trading restriction parameters. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Day</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Good till Cancel</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Immediate or Cancel</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Good till Date</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Day	✓		1	Good till Cancel	✓		3	Immediate or Cancel	✓		6	Good till Date	✓									
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1	Good till Cancel	✓																															
3	Immediate or Cancel	✓																															
6	Good till Date	✓																															
60	TransactTime	Y	Y		UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway.																												
100	ExDestination	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.																												
432	ExpireDate	N	C		LocalMktDate Date of order expiry. Required if TimeInForce (59) = 6 (Good till Date).																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
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W	Desk	✓																															
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D	Other, including Other-provided Screen	✓																															
1724	OrderOrigination	N	N		Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓																					
Value	Description	D	C																														
5	Direct market access	✓																															

... continued ...

Tag	Field Name	R	D	C	Description																
1815	TradingCapacity	Y	Y		Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓		5	Principal (Proprietary)	✓		6	Market Maker	✓	
Value	Description	D	C																		
1	Customer (Agency)	✓																			
5	Principal (Proprietary)	✓																			
6	Market Maker	✓																			
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).																
25008	FreeText2	N	N		String (12) Second free-format text field for trader-specific or customer-related comments.																
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.																
<Standard Trailer>																					

### 6.5.3 Order Cancel Request

The Order Cancel Request is used to delete an existing order.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'F' = Order Cancel Request												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Parties&gt;</b>		Y	Y	Y	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<b>&lt;entering trader&gt;</b>		Y	Y	Y	Entering User ID.												
<b>&lt;execution identifier&gt;</b>		N	N	N	Execution identifier.												
<b>&lt;investment identifier&gt;</b>		N	N	N	Investment identifier.												
<b>end &lt;Parties&gt;</b>																	
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.												
11	ClOrdID	Y	Y	Y	String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).												
37	OrderID	N	N	N	Int (20) Exchange Order ID generated by the T7 System. Will be ignored by the FIX Gateway.												
38	OrderQty	Y	Y	Y	Qty (15.4) Total Order Quantity. Will be validated and then ignored.												
41	OrigClOrdID	Y	Y	Y	String (20) ClOrdID (11) of the last successfully processed task (request) referring to the specific order; used for client order ID chaining.												
54	Side	Y	Y	Y	Char Side of order. Will be validated and then ignored.												
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>						Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														
60	TransactTime	Y	Y	Y	UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway. Will be validated and then ignored.												
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.												

... continued ...

Tag	Field Name	R	D	C	Description								
1724	OrderOrigination	N	N	N	Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓	✓
Value	Description	D	C										
5	Direct market access	✓	✓										
30015	UCurrency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).								
<Standard Trailer>													

### 6.5.4 Order Cancel/Replace Request

The Order Cancel/Replace Request is used to modify an existing order.

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	'G' = Order Cancel/Replace Request
<b>&lt;Message Body&gt;</b>					
<b>&lt;Parties&gt;</b>		Y	Y	Y	Party Information.
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<b>&lt;beneficiary&gt;</b>		N	N		KRX Beneficiary Account.
<b>&lt;client id&gt;</b>		N	N	N	Client Identifier (short code). The Client ID is mandatory for an agent account.
<b>&lt;entering trader&gt;</b>		Y	Y	Y	Entering User ID.
<b>&lt;execution identifier&gt;</b>		N	N	N	Execution identifier.
<b>&lt;investment identifier&gt;</b>		N	N	N	Investment identifier.
<b>&lt;location ID&gt;</b>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<b>&lt;order origination firm&gt;</b>		N	N		KRX Member ID.
<b>&lt;position account&gt;</b>		N	N		Flexible account identifier.
<b>&lt;takeup firm&gt;</b>		N	N		Take-up trading firm information.
<b>end &lt;Parties&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.
<b>&lt;TrdgSesGrp&gt;</b>		N	N	N	The Trading Session Group is used to identify an order for a special trading phase.
<b>&lt;PegInstructions&gt;</b>		N		C	Peg instructions for a trailing stop order.
<b>&lt;MtchgInst&gt;</b>		N	N	N	Matching Instructions for using the Self Match Prevention functionality.
<b>&lt;DisplayInstruction&gt;</b>		N		C	Display instruction is used for Iceberg Order and Volume Discovery Order.
<b>&lt;OrderAttributeGrp&gt;</b>		N	N	N	Order Attribute Group.
2593	NoOrderAttributes	Y	Y	Y	NumInGroup Number of order attributes.
<b>&lt;liquidity provision activity order&gt;</b>		N	N	N	Liquidity provision activity order.
<b>end &lt;OrderAttributeGrp&gt;</b>					
<b>&lt;ValueChecksGrp&gt;</b>		Y	Y	Y	The Value Checks Group can be used for price, notional value and quantity validation.



... continued ...

Tag	Field Name	R	D	C	Description																				
1868	NoValueChecks	Y	Y	Y	NumInGroup Number of value check entries.																				
	<price check>	Y	Y	Y	Price validation.																				
	<notional value check>	Y	Y	Y	Notional value validation.																				
	<quantity check>	N		Y	Quantity validation.																				
end <ValueChecksGrp>																									
1	Account	N	N		String (2) Account.																				
11	ClOrdID	Y	Y	Y	String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).																				
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).																				
18	ExecInst	N	N	C	Multiple Value String Instructions for order management; all orders need to be defined as either persistent or non-persistent. An order may additionally be defined as a Book or Cancel Order. <u>Note:</u> in case of OrdType (40) = "P" a value of "a" must be supplied. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>a</td> <td>Trailing Stop Peg</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Participate don't initiate (Book or cancel)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓	✓	Q	Cancel on trading system failure (non-persistent)	✓	✓	a	Trailing Stop Peg		✓	6	Participate don't initiate (Book or cancel)	✓	✓
Value	Description	D	C																						
H	Reinstate on trading system failure (persistent)	✓	✓																						
Q	Cancel on trading system failure (non-persistent)	✓	✓																						
a	Trailing Stop Peg		✓																						
6	Participate don't initiate (Book or cancel)	✓	✓																						
21	HandlInst	Y	Y	Y	Char Instructions for order management. Only in FIX 4.2. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Automated execution order, private, no Broker intervention</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Automated execution order, private, no Broker intervention	✓	✓												
Value	Description	D	C																						
1	Automated execution order, private, no Broker intervention	✓	✓																						

... continued ...

Tag	Field Name	R	D	C	Description																												
38	OrderQty	Y	Y	Y	Qty (15.4) Total Order Quantity.																												
40	OrdType	Y	Y	Y	Char Order type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Market</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Limit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Stop</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Stop limit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>P</td> <td>Pegged</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Market	✓	✓	2	Limit	✓	✓	3	Stop	✓	✓	4	Stop limit	✓	✓	P	Pegged		✓				
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2	Limit	✓	✓																														
3	Stop	✓	✓																														
4	Stop limit	✓	✓																														
P	Pegged		✓																														
41	OrigClOrdID	Y	Y	Y	String (20) ClOrdID (11) of the last successfully processed task (request) referring to the specific order; used for client order ID chaining.																												
44	Price	N	C	C	Price (11.8) Limit price. Required if OrdType (40) is Limit (2) or Stop Limit (4).																												
54	Side	Y	Y	Y	Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓																
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2	Sell	✓	✓																														
58	Text	N	N	N	String (12) First free-format text field for trader-specific or customer-related comments.  <u>For T7 Derivatives:</u> Should not be used in conjunction with KRX Member and KRX Beneficiary Account.																												
59	TimelnForce	N	N	N	Char Execution and trading restriction parameters. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Day</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Good till Cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Immediate or Cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Fill or Kill</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Good till Crossing</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Good till Date</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Day	✓	✓	1	Good till Cancel	✓	✓	3	Immediate or Cancel	✓	✓	4	Fill or Kill		✓	5	Good till Crossing		✓	6	Good till Date	✓	✓
Value	Description	D	C																														
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6	Good till Date	✓	✓																														

... continued ...

Tag	Field Name	R	D	C	Description																												
60	TransactTime	Y	Y	Y	UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway.																												
77	PositionEffect	N	N		Char Field is used for Derivatives position management purposes and indicates whether the order is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓																	
Value	Description	D	C																														
O	Open	✓																															
C	Close	✓																															
99	StopPx	N	C	C	Price (11.8) Stop Price. Required for Stop Market and Stop Limit Orders. Optional for Trailing Stop Orders.																												
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																												
432	ExpireDate	N	C	C	LocalMktDate Date of order expiry. Required if TimeInForce (59) = 6 (Good till Date).																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
W	Desk	✓																															
Y	Electronic	✓																															
C	Vendor-provided Platform billed by Executing Broker	✓																															
G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓																															
H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
1100	TriggerType	N	C	C	Char Defines when the trigger will hit, i.e. the action specified by the trigger instructions will come into effect. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Price movement</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	Price movement	✓	✓																				
Value	Description	D	C																														
4	Price movement	✓	✓																														

... continued ...

Tag	Field Name	R	D	C	Description																				
1102	TriggerPrice	N	C	C	Price (11.8) The price at which the trigger should hit.																				
1724	OrderOrigination	N	N	N	Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓	✓												
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5	Direct market access	✓	✓																						
1815	TradingCapacity	Y	Y	Y	Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Riskless Principal</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓	✓	5	Principal (Proprietary)	✓	✓	6	Market Maker	✓	✓	9	Riskless Principal		✓
Value	Description	D	C																						
1	Customer (Agency)	✓	✓																						
5	Principal (Proprietary)	✓	✓																						
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2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).																				
25008	FreeText2	N	N	N	String (12) Second free-format text field for trader-specific or customer-related comments.																				
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.																				
25107	FreeText4	N		N	String (16) Free-format text field for trader-specific or customer related comments.																				
25125	VolumeDiscoveryPrice	N		C	Price Indicates the second limit price of a volume discovery order.																				

&lt;Standard Trailer&gt;

### 6.5.5 Multileg Order Cancel/Replace Request

The Multileg Order Cancel/Replace Request is used to modify a multileg order (previously submitted using the New Order Multileg message).

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y		'UAC' / 'AC' = User / Multileg Order Cancel Replace
<b>&lt;Message Body&gt;</b>					
<b>&lt;Parties&gt;</b>		Y	Y		Party Information.
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<b>&lt;beneficiary&gt;</b>		N	N		KRX Beneficiary Account.
<b>&lt;client id&gt;</b>		N	N		Client Identifier (short code). The Client ID is mandatory for an agent account.
<b>&lt;entering trader&gt;</b>		Y	Y		Entering User ID.
<b>&lt;execution identifier&gt;</b>		N	N		Execution identifier.
<b>&lt;investment identifier&gt;</b>		N	N		Investment identifier.
<b>&lt;location ID&gt;</b>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<b>&lt;order origination firm&gt;</b>		N	N		KRX Member ID.
<b>&lt;position account&gt;</b>		N	N		Flexible account identifier.
<b>&lt;takeup firm&gt;</b>		N	N		Take-up trading firm information.
<b>end &lt;Parties&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y	Y		Security identification.
<b>&lt;LegOrdGrp&gt;</b>		Y	Y		The group of leg is used to specify clearing attributes for the legs of a Multileg Order.
<b>&lt;MtchgInst&gt;</b>		N	N		Matching Instructions for using the Self Match Prevention functionality.
<b>&lt;OrderAttributeGrp&gt;</b>		N	N		Order Attribute Group.
2593	NoOrderAttributes	Y	Y		NumInGroup Number of order attributes.
<b>&lt;liquidity provision activity order&gt;</b>		N	N		Liquidity provision activity order.
<b>end &lt;OrderAttributeGrp&gt;</b>					
<b>&lt;ValueChecksGrp&gt;</b>		Y	Y		The Value Checks Group can be used for price, notional value and quantity validation.
1868	NoValueChecks	Y	Y		NumInGroup Number of value check entries.
<b>&lt;price check&gt;</b>		Y	Y		Price validation.

... continued ...

Tag	Field Name	R	D	C	Description																
<notional value check>		Y	Y		Notional value validation.																
end <ValueChecksGrp>																					
11	ClOrdID	Y	Y		String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).																
18	ExecInst	N	N		Multiple Value String Instructions for order management; all orders need to be defined as either persistent or non-persistent. An order may additionally be defined as a Book or Cancel Order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td></td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Participate don't initiate (Book or cancel)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓		Q	Cancel on trading system failure (non-persistent)	✓		6	Participate don't initiate (Book or cancel)	✓	
Value	Description	D	C																		
H	Reinstate on trading system failure (persistent)	✓																			
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6	Participate don't initiate (Book or cancel)	✓																			
38	OrderQty	Y	Y		Qty (15.4) Total Order Quantity.																
40	OrdType	Y	Y		Char Order type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Limit</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	2	Limit	✓									
Value	Description	D	C																		
2	Limit	✓																			
41	OrigClOrdID	Y	Y		String (20) ClOrdID (11) of the last successfully processed task (request) referring to the specific order; used for client order ID chaining.																
44	Price	Y	Y		Price (11.8) Limit price.																
54	Side	Y	Y		Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓		2	Sell	✓					
Value	Description	D	C																		
1	Buy	✓																			
2	Sell	✓																			
58	Text	N	N		String (12) First free-format text field for trader-specific or customer-related comments.  <u>For T7 Derivatives:</u> Should not be used in conjunction with KRX Member and KRX Beneficiary Account.																

... continued ...

Tag	Field Name	R	D	C	Description																												
59	TimeInForce	N	N		Char Execution and trading restriction parameters. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Day</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Good till Cancel</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Immediate or Cancel</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Good till Date</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Day	✓		1	Good till Cancel	✓		3	Immediate or Cancel	✓		6	Good till Date	✓									
Value	Description	D	C																														
0	Day	✓																															
1	Good till Cancel	✓																															
3	Immediate or Cancel	✓																															
6	Good till Date	✓																															
60	TransactTime	Y	Y		UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway.																												
100	ExDestination	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.																												
432	ExpireDate	N	C		LocalMktDate Date of order expiry. Required if TimeInForce (59) = 6 (Good till Date).																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
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H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
1724	OrderOrigination	N	N		Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓																					
Value	Description	D	C																														
5	Direct market access	✓																															

... continued ...

Tag	Field Name	R	D	C	Description																
1815	TradingCapacity	Y	Y		Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓		5	Principal (Proprietary)	✓		6	Market Maker	✓	
Value	Description	D	C																		
1	Customer (Agency)	✓																			
5	Principal (Proprietary)	✓																			
6	Market Maker	✓																			
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).																
25008	FreeText2	N	N		String (12) Second free-format text field for trader-specific or customer-related comments.																
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.																
<Standard Trailer>																					



### 6.5.6 Execution Report

The Execution Report message is used to confirm the receipt of an order, confirm changes to an existing order, transmit all active orders, relay fill information, reject orders.

If a field not supported for the market type (Derivatives, Cash) is entered in the FIX Request, the field will be sent back in the reject Execution Report. This means that reject Execution Reports can contain fields documented as not supported for the specific market type.

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	'8' = Execution Report
<b>&lt;Message Body&gt;</b>					
<b>&lt;Parties&gt;</b>		N	N	N	Party Information.
453	NoPartyIDs	N	N	N	NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<b>&lt;beneficiary&gt;</b>		N	N		KRX Beneficiary Account.
<b>&lt;entering firm&gt;</b>		N	N	N	Entering Entity ID. 1 = Participant 2 = Market Supervision
<b>&lt;entering trader&gt;</b>		N	N	N	Entering User ID.
<b>&lt;executing trader&gt;</b>		N	N	N	Trader identification.
<b>&lt;executing unit&gt;</b>		N	N	N	Executing unit information.
<b>&lt;location ID&gt;</b>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<b>&lt;order origination firm&gt;</b>		N	N		KRX Member ID.
<b>&lt;position account&gt;</b>		N	N		Flexible account identifier.
<b>&lt;session ID&gt;</b>		N	N	N	Executing session; information provided in messages sent via Back-office session (Drop Copy service).
<b>&lt;takeup firm&gt;</b>		N	N		Take-up trading firm information.
<b>end &lt;Parties&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.
<b>&lt;InstrmtLegExecGrp&gt;</b>		N	C		The Executed Order Leg Group contains the fill information for each leg of a Multileg Order.
<b>&lt;DisplayInstruction&gt;</b>		N		C	Display instruction is used for Iceberg Order and Volume Discovery Order.
<b>&lt;OrderEventGrp&gt;</b>		N		N	Information about the final status of transactions entered initially in locked stock (T7 Boerse Frankfurt).
<b>&lt;PegInstructions&gt;</b>		N		C	Peg instructions for a trailing stop order.
<b>&lt;MtchgInst&gt;</b>		N	N	N	Matching Instructions for using the Self Match Prevention functionality.

... continued ...

Tag	Field Name	R	D	C	Description																				
1	Account	N	N		String (2) Account.																				
6	AvgPx	Y	Y	Y	Price (11.8) Average Price information is not calculated; value of zero will be returned.																				
11	ClOrdID	N	N	N	String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).																				
14	CumQty	Y	Y	Y	Qty (15.4) Cumulated executed quantity of an order.																				
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.																				
17	ExecID	Y	Y	Y	String (80) Unique ID of the Execution Report message within the context of business day and session. Will be generated by the FIX Gateway. The field provides a unique identifier and can be used for the identification of duplicate order messages.																				
18	ExecInst	N	N	N	Multiple Value String Instructions for order management; all orders need to be defined as either persistent or non-persistent. An order may additionally be defined as a Book or Cancel Order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>a</td> <td>Trailing Stop Peg</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Participate don't initiate (Book or cancel)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓	✓	Q	Cancel on trading system failure (non-persistent)	✓	✓	a	Trailing Stop Peg		✓	6	Participate don't initiate (Book or cancel)	✓	✓
Value	Description	D	C																						
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Q	Cancel on trading system failure (non-persistent)	✓	✓																						
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6	Participate don't initiate (Book or cancel)	✓	✓																						
20	ExecTransType	Y	Y	Y	Char Identifies transaction type. Only in FIX 4.2. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>New</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	New	✓	✓												
Value	Description	D	C																						
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... continued ...

Tag	Field Name	R	D	C	Description																																								
21	HandInst	N	N	N	Char Instructions for order management. Only in FIX 4.2. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Automated execution order, private, no Broker intervention</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Automated execution order, private, no Broker intervention	✓	✓																																
Value	Description	D	C																																										
1	Automated execution order, private, no Broker intervention	✓	✓																																										
31	LastPx	N	N	N	Price (11.8) Price of this fill.																																								
32	LastQty	N	N	N	Qty (15.4) Quantity executed in this fill.																																								
37	OrderID	Y	Y	Y	String Exchange Order ID generated by the T7 System (Int (20)) or "[N/A]".																																								
38	OrderQty	Y	Y	Y	Qty (15.4) Total Order Quantity.																																								
39	OrdStatus	Y	Y	Y	Char Conveys the current status of an order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>New</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Partially filled</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Filled</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Canceled</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Pending cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>8</td> <td>Rejected</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Suspended</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>A</td> <td>Pending new</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>E</td> <td>Pending replace</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	New	✓	✓	1	Partially filled	✓	✓	2	Filled	✓	✓	4	Canceled	✓	✓	6	Pending cancel	✓	✓	8	Rejected	✓	✓	9	Suspended	✓	✓	A	Pending new	✓	✓	E	Pending replace	✓	✓
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Value	Description	D	C																																										
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P	Pegged		✓																																										

... continued ...

Tag	Field Name	R	D	C	Description																												
41	OrigClOrdID	N	N	N	String (20) ClOrdID (11) of the last successfully processed task (request) referring to the specific order; used for client order ID chaining. Will not be delivered for drop copy for orders.																												
44	Price	N	C	C	Price (11.8) Limit price. Required if OrdType (40) is Limit (2) or Stop Limit (4).																												
54	Side	Y	Y	Y	Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓																
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77	PositionEffect	N	N		Char Field is used for Derivatives position management purposes and indicates whether the order is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓																	
Value	Description	D	C																														
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99	StopPx	N	C	C	Price (11.8) Stop Price. Required for Stop Market and Stop Limit Orders. Optional for Trailing Stop Orders.																												
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																												

... continued ...

Tag	Field Name	R	D	C	Description																																																								
150	ExecType	Y	Y	Y	<p>Char</p> <p>The reason why this message was generated.</p> <p>- ExecType (150) = "1" (Partial fill) and "2" (Fill) are defined only in FIX 4.2.</p> <p>- ExecType (150) = "F" (Trade) is defined only in FIX 4.4.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>New</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Partial fill</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Fill</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Canceled</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Replace</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Pending cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>8</td> <td>Rejected</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Suspended</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>A</td> <td>Pending new</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>D</td> <td>Restated</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>E</td> <td>Pending replace</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>F</td> <td>Trade</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>L</td> <td>Triggered by system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	New	✓	✓	1	Partial fill	✓	✓	2	Fill	✓	✓	4	Canceled	✓	✓	5	Replace	✓	✓	6	Pending cancel	✓	✓	8	Rejected	✓	✓	9	Suspended	✓	✓	A	Pending new	✓	✓	D	Restated	✓	✓	E	Pending replace	✓	✓	F	Trade	✓	✓	L	Triggered by system	✓	✓
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6	Pending cancel	✓	✓																																																										
8	Rejected	✓	✓																																																										
9	Suspended	✓	✓																																																										
A	Pending new	✓	✓																																																										
D	Restated	✓	✓																																																										
E	Pending replace	✓	✓																																																										
F	Trade	✓	✓																																																										
L	Triggered by system	✓	✓																																																										
151	LeavesQty	Y	Y	Y	<p>Qty (15.4)</p> <p>Remaining quantity of an order.</p> <p>If the order has been executed partially this field contains the non-executed quantity. A remaining size of 0 indicates that the order is fully matched or no longer active.</p>																																																								
198	SecondaryOrderID	N	N	N	<p>Int (20)</p> <p>Unique identifier of the order.</p> <p>The Client Order ID of the T7 Enhanced Trading Interface (ETI) is provided.</p>																																																								
336	TradingSessionID	N	N	N	<p>String (1)</p> <p>Identifier for trading session.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Day</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Day	✓	✓																																																
Value	Description	D	C																																																										
1	Day	✓	✓																																																										
378	ExecRestatementReason	N	N	N	<p>Int (3)</p> <p>Code to further qualify the field ExecType (150) of the ExecutionReport (8) message.</p> <p>The valid values are defined in <b>chapter 6.5.6.1 ExecRestatementReason (378): List of Valid Values.</b></p>																																																								

... continued ...

Tag	Field Name	R	D	C	Description																																
432	ExpireDate	N	C	C	LocalMktDate Date of order expiry. Required if TimeInForce (59) = 6 (Good till Date).																																
527	SecondaryExecID	N	N	N	Int (10) Private identifier of an order match event, which can be reconciled with the field SideTradeID (1506) in the User/TradeCaptureReport (UAE/AE).																																
574	MatchType	N	N	N	String (2) The point in the matching process at which this trade was matched. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Auto Match Incoming</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Cross Auction</td> <td></td> <td>✓</td> </tr> <tr> <td>7</td> <td>Call Auction</td> <td></td> <td>✓</td> </tr> <tr> <td>11</td> <td>Auto Match Resting</td> <td></td> <td>✓</td> </tr> <tr> <td>12</td> <td>Auto Match at Midpoint (VDO)</td> <td></td> <td>✓</td> </tr> <tr> <td>13</td> <td>Liquidity Improvement Cross</td> <td>✓</td> <td></td> </tr> <tr> <td>14</td> <td>Continuous Auction</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	Auto Match Incoming		✓	5	Cross Auction		✓	7	Call Auction		✓	11	Auto Match Resting		✓	12	Auto Match at Midpoint (VDO)		✓	13	Liquidity Improvement Cross	✓		14	Continuous Auction		✓
Value	Description	D	C																																		
4	Auto Match Incoming		✓																																		
5	Cross Auction		✓																																		
7	Call Auction		✓																																		
11	Auto Match Resting		✓																																		
12	Auto Match at Midpoint (VDO)		✓																																		
13	Liquidity Improvement Cross	✓																																			
14	Continuous Auction		✓																																		
625	TradingSessionSubID	N	C	C	String (3) This field marks orders for a special trading phase. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Opening auction</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Closing auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Scheduled intraday auction only</td> <td></td> <td>✓</td> </tr> <tr> <td>8</td> <td>Auction only</td> <td></td> <td>✓</td> </tr> <tr> <td>105</td> <td>Special auction</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Opening auction		✓	4	Closing auction	✓	✓	6	Scheduled intraday auction only		✓	8	Auction only		✓	105	Special auction		✓								
Value	Description	D	C																																		
2	Opening auction		✓																																		
4	Closing auction	✓	✓																																		
6	Scheduled intraday auction only		✓																																		
8	Auction only		✓																																		
105	Special auction		✓																																		

... continued ...

Tag	Field Name	R	D	C	Description																												
851	LastLiquidityInd	N	C	N	<p>Int (1) Indicates whether the order added or removed liquidity. Required only for Execution Reports generated for fills.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Add Liquidity</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Removed Liquidity</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Auction (neither passive nor aggressive, includes VDO matching at midpoint)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Triggered Stop Order</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Triggered One-cancels-the-other Order</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>7</td> <td>Triggered Market Order</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Add Liquidity	✓	✓	2	Removed Liquidity	✓	✓	4	Auction (neither passive nor aggressive, includes VDO matching at midpoint)	✓	✓	5	Triggered Stop Order	✓	✓	6	Triggered One-cancels-the-other Order	✓	✓	7	Triggered Market Order	✓	✓
Value	Description	D	C																														
1	Add Liquidity	✓	✓																														
2	Removed Liquidity	✓	✓																														
4	Auction (neither passive nor aggressive, includes VDO matching at midpoint)	✓	✓																														
5	Triggered Stop Order	✓	✓																														
6	Triggered One-cancels-the-other Order	✓	✓																														
7	Triggered Market Order	✓	✓																														
880	TrdMatchID	N	N	N	<p>Int (10) Unique identifier for each price level (match step) of a match event (used for public trade reporting).</p>																												
1080	RefOrderID	N		N	<p>Int (20) Reference to a private quote. This field will be always delivered together with the field RefOrderIDSource (1081).</p>																												
1081	RefOrderIDSource	N		N	<p>Char Identifier related to the value delivered in the field RefOrderID (1080). Required if the ExecutionReport (8) contains a reference to a private quote (field RefOrderID (1080)).</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>QuoteID (117)</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	QuoteID (117)		✓																				
Value	Description	D	C																														
5	QuoteID (117)		✓																														

... continued ...

Tag	Field Name	R	D	C	Description																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
W	Desk	✓																															
Y	Electronic	✓																															
C	Vendor-provided Platform billed by Executing Broker	✓																															
G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓																															
H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
1100	TriggerType	N	C	C	Char Defines when the trigger will hit, i.e. the action specified by the trigger instructions will come into effect. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Price movement</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	Price movement	✓	✓																				
Value	Description	D	C																														
4	Price movement	✓	✓																														
1102	TriggerPrice	N	C	C	Price (11.8) The price at which the trigger should hit.																												
1815	TradingCapacity	N	N	N	Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Issuer/Liquidity Provider</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Riskless Principal</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓	✓	3	Issuer/Liquidity Provider		✓	5	Principal (Proprietary)	✓	✓	6	Market Maker	✓	✓	9	Riskless Principal		✓				
Value	Description	D	C																														
1	Customer (Agency)	✓	✓																														
3	Issuer/Liquidity Provider		✓																														
5	Principal (Proprietary)	✓	✓																														
6	Market Maker	✓	✓																														
9	Riskless Principal		✓																														
1823	Triggered	N	N	N	Int (1) Indicates if an order has been previously triggered. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not triggered (Default)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Triggered</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Not triggered (Default)	✓	✓	1	Triggered	✓	✓																
Value	Description	D	C																														
0	Not triggered (Default)	✓	✓																														
1	Triggered	✓	✓																														



... continued ...

Tag	Field Name	R	D	C	Description												
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).												
2523	CrossedIndicator	N	N	N	Int (1) Indicator will be delivered in case of deletion or modification due to Self Match Prevention. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cross rejected</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Cross rejected	✓	✓				
Value	Description	D	C														
1	Cross rejected	✓	✓														
25008	FreeText2	N	N	N	String (12) Second free-format text field for trader-specific or customer-related comments.												
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.												
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.												
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway	✓	✓														
TRADING SYSTEM	Trading system	✓	✓														
25025	ReturnCodeText	N	N	N	String (2000) Text explaining the return code.												
25107	FreeText4	N		N	String (16) Free-format text field for trader-specific or customer related comments.												
25108	OrderIDSfx	N		N	Int (10) Order identification suffix generated by the T7 system. An increase of the peak or overall quantity leads to a new timestamp, losing time priority and the assignment of a new order id suffix, whereas a reduction maintains the original timestamp and order id suffix.												
25125	VolumeDiscoveryPrice	N		C	Price Indicates the second limit price of a volume discovery order.												

... continued ...

Tag	Field Name	R	D	C	Description												
30060	UTransactTime	N	N	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
30625	TradeAtCloseOptIn	N		N	Boolean Indicates whether this order is eligible for Trade at Close match.												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not eligible for Trade at Close match</td> <td></td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Eligible for Trade at Close match</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Not eligible for Trade at Close match		✓	Y	Eligible for Trade at Close match		✓
Value	Description	D	C														
N	Not eligible for Trade at Close match		✓														
Y	Eligible for Trade at Close match		✓														

&lt;Standard Trailer&gt;

**6.5.6.1 ExecRestatementReason (378): List of Valid Values**

Value	Description	Derivatives	Cash
0	GT corporate action		✓
1	GT renewal / restatement (no corporate action, order book restatement)	✓	✓
8	Exchange Option		✓
100	Unknown Order State	✓	✓
101	Order Added	✓	✓
102	Order Replaced	✓	✓
103	Order Canceled	✓	✓
105	Immediate or Cancel Order Canceled	✓	✓
107	FOK Order canceled		✓
108	Book Order executed	✓	✓
114	Order has been changed to IOC	✓	✓
122	Instrument State Change	✓	✓
135	Market Order Triggered	✓	
138	Pending New		✓
139	Pending Replace		✓
141	Pending New Applied		✓
142	Pending Replace Applied		✓
146	End of Day Processing		✓
148	Order Expiration Intraday		✓
149	Closing Auction Only Order Activated	✓	✓
150	Closing Auction Only Order Inactivated	✓	✓
151	OAO Order activated		✓
152	OAO Order inactivated		✓
153	AAO Order activated		✓
154	AAO Order inactivated		✓
155	Order Refreshed		✓
159	Intraday Auction Order has been activated		✓
160	Intraday Auction Order has been inactivated		✓
164	One-cancels-the-other Order Triggered	✓	✓
172	Stop Order Triggered	✓	✓
181	Ownership Changed	✓	✓
197	Order Cancellation Pending	✓	✓

... continued ...

Value	Description	Derivatives	Cash
199	Pending Cancellation Executed	✓	✓
212	Book Or Cancel Order Canceled	✓	✓
213	Trailing Stop Update		✓
237	Exceeds maximum quantity		✓
238	Invalid Limit Price		✓
241	User does not exist		✓
242	Session does not exist		✓
243	Invalid Stop Price		✓
245	Instrument does not exist		✓
246	Business Unit Risk Event		✓
261	Panic Cancel	✓	✓
292	Dividend Payment		✓
294	Last Trading Day		✓
295	Trading Parameter Change		✓
296	Currency Change		✓
297	Product Assignment Change / Special Event		✓
298	Reference Price Change		✓
300	Tick Rule Change		✓
302	Market Order Uncrossing	✓	
316	Quote Request Solution Order Expiry		✓
340	CLIP execution after improvement period	✓	
343	CLIP request canceled by arrangement time out	✓	
344	CLIP cancellation	✓	

### 6.5.7 Order Cancel Reject

The Order Cancel Reject message indicates that an Order Cancel Request, Order Cancel/Replace Request or Multileg Order Cancel/Replace Request has been rejected.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'9' = Order Cancel Reject												
<Message Body>																	
<OrderEventGrp>		N		N	Information about the final status of transactions entered initially in locked stock (T7 Boerse Frankfurt).												
11	ClOrdID	Y	Y	Y	String (20) Unique customer defined order request identifier (20 characters or less, ASCII range 32 - 126).												
37	OrderID	Y	Y	Y	String Exchange Order ID generated by the T7 System (Int (20)) or OrderID (37) from FIX request.												
39	OrdStatus	Y	Y	Y	Char Conveys the current status of an order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>Rejected</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	8	Rejected	✓	✓				
Value	Description	D	C														
8	Rejected	✓	✓														
41	OrigClOrdID	Y	Y	Y	String (20) ClOrdID (11) of the last successfully processed task (request) referring to the specific order; used for client order ID chaining.												
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.												
102	CxlRejReason	Y	Y	Y	Int (2) Code to identify reason for cancel rejection. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Too late to cancel</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>99</td> <td>Other</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Too late to cancel	✓	✓	99	Other	✓	✓
Value	Description	D	C														
0	Too late to cancel	✓	✓														
99	Other	✓	✓														
434	CxlRejResponseTo	Y	Y	Y	Char Identifies the type of request that a Cancel Reject is in response to. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Order Cancel Request</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Order Cancel/Replace Request</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Order Cancel Request	✓	✓	2	Order Cancel/Replace Request	✓	✓
Value	Description	D	C														
1	Order Cancel Request	✓	✓														
2	Order Cancel/Replace Request	✓	✓														
25023	ReturnCode	Y	Y	Y	Int (10) Unique error or event identification number.												

... continued ...

Tag	Field Name	R	D	C	Description												
25024	ReturnCodeSource	Y	Y	Y	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway	✓	✓														
TRADING SYSTEM	Trading system	✓	✓														
25025	ReturnCodeText	Y	Y	Y	String (2000) Text explaining the return code.												
30060	UTransactTime	N	N	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
<Standard Trailer>																	

### 6.5.8 Order Mass Action Report

This message informs about unsolicited mass cancellation events.

For more details, please refer to [chapter 3.9.15 Mass Cancellation Notification](#).

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'UBZ' = User order mass action report												
<Message Body>																	
<Parties>		N	N	N	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<entering firm>		N	N	N	Entering Entity ID. 1 = Participant 2 = Market Supervision												
<entering trader>		N	N	N	Entering User ID.												
<executing trader>		N	N	N	Trader identification.												
<session ID>		N	N	N	Executing session; information provided in messages sent via Back-office session (Drop Copy service).												
end <Parties>																	
<Instrument>		Y	Y	Y	Security identification.												
<NotAffectedOrdersGrp>		N	N	N	The group of not affected orders informs about orders in status "pending delete" due to a mass cancellation event. These are orders that couldn't be canceled due to an incompatible instrument state.												
<AffectedOrdersGrp>		N		N	The group of affected orders informs about persistent orders that were deleted due to a mass cancellation event.												
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.												
44	Price	N	N	N	Price (11.8) Limit price.												
54	Side	N	N	N	Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														
1301	MarketID	N	N	N	Exchange Market Identifier Code of the trading market according to ISO 10383.												

... continued ...

Tag	Field Name	R	D	C	Description																																																																																				
1369	MassActionReportID	Y	Y	Y	Int (20) Transaction timestamp.																																																																																				
28721	MassActionReason	Y	Y	Y	Int Reason for mass cancellation. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No special reason</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Stop Trading</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Emergency</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Market Maker Protection</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Session loss</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>7</td> <td>Duplicate Session Login</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>8</td> <td>Clearing Risk Control</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>100</td> <td>Internal connection loss</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>105</td> <td>Product State Halt</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>106</td> <td>Product State Holiday</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>107</td> <td>Instrument Suspension</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>109</td> <td>Strategy Cancellation</td> <td>✓</td> <td></td> </tr> <tr> <td>110</td> <td>Circuit Breaker (Volatility Interrupt)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>111</td> <td>Product temporarily not tradeable</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>113</td> <td>Instrument Stopped</td> <td></td> <td>✓</td> </tr> <tr> <td>115</td> <td>Instrument knock out</td> <td></td> <td>✓</td> </tr> <tr> <td>116</td> <td>Instrument sold out</td> <td></td> <td>✓</td> </tr> <tr> <td>117</td> <td>Member has been disabled</td> <td>✓</td> <td></td> </tr> <tr> <td>118</td> <td>Instrument knock out has been reverted</td> <td></td> <td>✓</td> </tr> <tr> <td>119</td> <td>Automatic deletion of Quotes</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	No special reason	✓	✓	1	Stop Trading	✓	✓	2	Emergency	✓	✓	3	Market Maker Protection	✓		6	Session loss	✓	✓	7	Duplicate Session Login	✓	✓	8	Clearing Risk Control	✓	✓	100	Internal connection loss	✓	✓	105	Product State Halt	✓	✓	106	Product State Holiday	✓	✓	107	Instrument Suspension	✓	✓	109	Strategy Cancellation	✓		110	Circuit Breaker (Volatility Interrupt)	✓	✓	111	Product temporarily not tradeable	✓	✓	113	Instrument Stopped		✓	115	Instrument knock out		✓	116	Instrument sold out		✓	117	Member has been disabled	✓		118	Instrument knock out has been reverted		✓	119	Automatic deletion of Quotes		✓
Value	Description	D	C																																																																																						
0	No special reason	✓	✓																																																																																						
1	Stop Trading	✓	✓																																																																																						
2	Emergency	✓	✓																																																																																						
3	Market Maker Protection	✓																																																																																							
6	Session loss	✓	✓																																																																																						
7	Duplicate Session Login	✓	✓																																																																																						
8	Clearing Risk Control	✓	✓																																																																																						
100	Internal connection loss	✓	✓																																																																																						
105	Product State Halt	✓	✓																																																																																						
106	Product State Holiday	✓	✓																																																																																						
107	Instrument Suspension	✓	✓																																																																																						
109	Strategy Cancellation	✓																																																																																							
110	Circuit Breaker (Volatility Interrupt)	✓	✓																																																																																						
111	Product temporarily not tradeable	✓	✓																																																																																						
113	Instrument Stopped		✓																																																																																						
115	Instrument knock out		✓																																																																																						
116	Instrument sold out		✓																																																																																						
117	Member has been disabled	✓																																																																																							
118	Instrument knock out has been reverted		✓																																																																																						
119	Automatic deletion of Quotes		✓																																																																																						
30018	UExeclnst	N	N	N	Multiple Value String Cancellation scope for orders. Quotes are always canceled by mass cancellation events. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Reinstate on trading system failure (persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Q</td> <td>Cancel on trading system failure (non-persistent)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>H Q</td> <td>Persistent and non-persistent orders</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	H	Reinstate on trading system failure (persistent)	✓	✓	Q	Cancel on trading system failure (non-persistent)	✓	✓	H Q	Persistent and non-persistent orders	✓	✓																																																																				
Value	Description	D	C																																																																																						
H	Reinstate on trading system failure (persistent)	✓	✓																																																																																						
Q	Cancel on trading system failure (non-persistent)	✓	✓																																																																																						
H Q	Persistent and non-persistent orders	✓	✓																																																																																						



... continued ...

Tag	Field Name	R	D	C	Description												
30893	ULastFragment	Y	Y	Y	Boolean Indicates whether this message is the last in a sequence of messages. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not last message</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Last message</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Not last message	✓	✓	Y	Last message	✓	✓
Value	Description	D	C														
N	Not last message	✓	✓														
Y	Last message	✓	✓														

&lt;Standard Trailer&gt;

### 6.5.9 Order Mass Action Request

The UserOrderMassActionRequest (UCA) will allow the deletion of multiple orders based on different filter criteria. For more details, please refer to [chapter 3.15 Mass Deletion Request](#).

Tag	Field Name	R	D	C	Description
<Standard Header>					
35	MsgType	Y	Y	Y	'UCA' = User order mass action request
<Message Body>					
<Parties>		Y	Y	Y	Party Information.
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).
<entering trader>		Y	Y	Y	Entering User ID.
<execution identifier>		N	N	N	Execution identifier.
<investment identifier>		N	N	N	Investment identifier.
end <Parties>					
<TargetParties>		N	N	N	Target party information.
1461	NoTargetPartyIDs	Y	Y	Y	NumInGroup Identifies the number of target parties identified in a mass action. Only in FIX 4.4.
<target executing trader>		N	N	N	Target executing trader information.
end <TargetParties>					
<Instrument>		Y	Y	Y	Security identification.
11	ClOrdID	Y	Y	Y	String ClOrdID handling will be completely within the responsibility of the customer. The FGW will simply echo back the content.
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).
44	Price	N	N	N	Price (11.8) Limit price.

... continued ...

Tag	Field Name	R	D	C	Description												
54	Side	N	N	N	Char Side of order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														
60	TransactTime	Y	Y	Y	UTC Timestamp Transaction time. This field will be ignored in all messages sent to the FIX Gateway.												
1373	MassActionType	Y	Y	Y	Int (1) Specifies the type of action requested. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Cancel orders</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	3	Cancel orders	✓	✓				
Value	Description	D	C														
3	Cancel orders	✓	✓														
1374	MassActionScope	Y	Y	Y	Int (1) Specifies scope of Order Mass Action Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>All orders for a security</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>All orders for a market segment (or multiple segments)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	All orders for a security	✓	✓	9	All orders for a market segment (or multiple segments)	✓	✓
Value	Description	D	C														
1	All orders for a security	✓	✓														
9	All orders for a market segment (or multiple segments)	✓	✓														
1724	OrderOrigination	N	N	N	Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓	✓				
Value	Description	D	C														
5	Direct market access	✓	✓														
30100	UExDestination	Y	Y	Y	Exchange Market Identifier code of the trading market according to ISO 10383.												

&lt;Standard Trailer&gt;

### 6.5.10 Order Mass Action Response

Response to a UserOrderMassActionRequest (UCA).

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'UCAR' = User order mass action response												
<Message Body>																	
<Parties>		N	N	N	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<entering trader>		N	N	N	Entering User ID.												
end <Parties>																	
<TargetParties>		N	N	N	Target party information.												
1461	NoTargetPartyIDs	Y	Y	Y	NumInGroup Identifies the number of target parties identified in a mass action. Only in FIX 4.4.												
<target executing trader>		N	N	N	Target executing trader information.												
end <TargetParties>																	
<Instrument>		Y	Y	Y	Security identification.												
<NotAffectedOrdersGrp>		N	N	N	The group of not affected orders informs about orders in status "pending delete" due to a mass cancellation event. These are orders that couldn't be canceled due to an incompatible instrument state.												
<AffectedOrdersGrp>		N		N	The group of affected orders informs about persistent orders that were deleted due to a mass cancellation event.												
11	ClOrdID	N	N	N	String Unique customer defined order request identifier.												
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  Will be copied from the request.												
44	Price	N	N	N	Price (11.8) Limit price.												
54	Side	N	N	N	Char Side.												
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>						Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														

... continued ...

Tag	Field Name	R	D	C	Description												
1369	MassActionReportID	Y	Y	Y	Int (20) Transaction timestamp.												
1373	MassActionType	Y	Y	Y	Int (1) Specifies the type of action requested. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Cancel orders</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	3	Cancel orders	✓	✓				
Value	Description	D	C														
3	Cancel orders	✓	✓														
1374	MassActionScope	Y	Y	Y	Int (1) Specifies scope of Order Mass Action Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>All orders for a security</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>All orders for a market segment (or multiple segments)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	All orders for a security	✓	✓	9	All orders for a market segment (or multiple segments)	✓	✓
Value	Description	D	C														
1	All orders for a security	✓	✓														
9	All orders for a market segment (or multiple segments)	✓	✓														
1375	MassActionResponse	Y	Y	Y	Int (1) Specifies the action taken by counterparty order management system as a result of the action type indicated in MassActionType of the Order Mass Action Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Rejected</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Completed</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Rejected	✓	✓	2	Completed	✓	✓
Value	Description	D	C														
0	Rejected	✓	✓														
2	Completed	✓	✓														
1376	MassActionRejectReason	N	N	N	Int (2) Reason Order Mass Action Request was rejected. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>99</td> <td>Other</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	99	Other	✓	✓				
Value	Description	D	C														
99	Other	✓	✓														
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.												
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	TRADING SYSTEM	Trading system	✓	✓				
Value	Description	D	C														
TRADING SYSTEM	Trading system	✓	✓														
25025	ReturnCodeText	N	N	N	String (2000) Text explaining the return code.												
30100	UExDestination	N	N	N	Exchange Market Identifier code of the trading market according to ISO 10383.												

... continued ...

Tag	Field Name	R	D	C	Description												
30893	ULastFragment	Y	Y	Y	Boolean Indicates whether this message is the last in a sequence of messages. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not last message</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Last message</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Not last message	✓	✓	Y	Last message	✓	✓
Value	Description	D	C														
N	Not last message	✓	✓														
Y	Last message	✓	✓														

&lt;Standard Trailer&gt;

## 6.6 Application Messages: Issuer State Change Request

### 6.6.1 Security Status Definition Request

The Security Status Definition Request is used to send knockout and soldout requests (T7 Boerse Frankfurt).

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y		Y	'U27' = Security Status Definition Request												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Parties&gt;</b>		Y		Y	Party Information.												
453	NoPartyIDs	Y		Y	NumInGroup Number of parties in the party component block.												
<b>&lt;entering trader&gt;</b>		Y		Y	Entering User ID.												
end <Parties>																	
<b>&lt;Instrument&gt;</b>		Y		Y	Security identification.												
<b>&lt;EvtGrp&gt;</b>		N		N	The EvtGrp is used to specify straightforward events associated with the instrument.												
864	NoEvents	Y		Y	NumInGrp Number of repeating EventType entries. Only one entry allowed.												
865	EventType	Y		Y	Int (3) Code to represent the type of event. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>Redemption</td> <td></td> <td>✓</td> </tr> <tr> <td>100</td> <td>Delisting</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	26	Redemption		✓	100	Delisting		✓
Value	Description	D	C														
26	Redemption		✓														
100	Delisting		✓														
866	EventDate	N		N	LocalMktDate Date of event in YYYYMMDD format.												
867	EventPx	N		N	Price (11.8) Price of issue at event.												
end <EvtGrp>																	
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).												
60	TransactTime	N		N	UTC Timestamp Transaction time.												

... continued ...

Tag	Field Name	R	D	C	Description																
320	SecurityReqID	Y		Y	String Unique ID of a Security Status Definition Request.																
965	SecurityStatus	N		N	Int (2) Current state of the Instrument. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Knocked out</td> <td></td> <td>✓</td> </tr> <tr> <td>7</td> <td>Knocked out revoked</td> <td></td> <td>✓</td> </tr> <tr> <td>12</td> <td>Knocked out and suspended</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	6	Knocked out		✓	7	Knocked out revoked		✓	12	Knocked out and suspended		✓
Value	Description	D	C																		
6	Knocked out		✓																		
7	Knocked out revoked		✓																		
12	Knocked out and suspended		✓																		
1301	MarketID	Y		Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																
25155	SoldOutIndicator	N		N	Int (1) Sold out indicator. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Revert sold out</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Sold out</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Revert sold out		✓	1	Sold out		✓				
Value	Description	D	C																		
0	Revert sold out		✓																		
1	Sold out		✓																		

<Standard Trailer>



## 6.6.2 Security Status

The Security Status message is used as the application level response to a Security Status Definition Request (T7 Boerse Frankfurt).

Tag	Field Name	R	D	C	Description																
<Standard Header>																					
35	MsgType	Y		Y	'f' = Security Status																
<Message Body>																					
320	SecurityReqID	Y		Y	String Unique ID of a Security Status Definition Request. Will be copied from the request.																
1301	MarketID	Y		Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																
1511	RequestResult	Y		Y	Int (1) Result of a request as identified by the appropriate request ID field. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Valid request</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Invalid request</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Data temporarily unavaible</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Valid request		✓	1	Invalid request		✓	4	Data temporarily unavaible		✓
Value	Description	D	C																		
0	Valid request		✓																		
1	Invalid request		✓																		
4	Data temporarily unavaible		✓																		
25023	ReturnCode	N		N	Int (10) Unique error or event identification number.																
25024	ReturnCodeSource	N		N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATE- WAY</td> <td>Fix Gateway</td> <td></td> <td>✓</td> </tr> <tr> <td>TRADIN SYS- TEM</td> <td>Trading system</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATE- WAY	Fix Gateway		✓	TRADIN SYS- TEM	Trading system		✓				
Value	Description	D	C																		
FIX GATE- WAY	Fix Gateway		✓																		
TRADIN SYS- TEM	Trading system		✓																		
25025	ReturnCodeText	N		N	String (2000) Text explaining the return code.																
28781	SecurityStatusReportID	N		N	Int (20) Transaction timestamp.																
<Standard Trailer>																					

## 6.7 Application Messages: Strategy Creation

### 6.7.1 Security Definition Request

The Security Definition Request message is used to create a strategy on T7.

Tag	Field Name	R	D	C	Description								
<b>&lt;Standard Header&gt;</b>													
35	MsgType	Y	Y		'c' = Security Definition Request								
<b>&lt;Message Body&gt;</b>													
<b>&lt;Parties&gt;</b>		Y	Y		Party Information.								
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block (used only in FIX 4.4).								
<b>&lt;entering trader&gt;</b>		Y	Y		Entering User ID.								
<b>end &lt;Parties&gt;</b>													
<b>&lt;Instrument&gt;</b>		Y	Y		Security identification.								
<b>&lt;InstrmtLegGrp&gt;</b>		Y	Y		The group of instrument leg is used for the creation of a Eurex strategy.								
320	SecurityReqID	Y	Y		String Unique ID of a Security Definition Request.								
321	SecurityRequestType	Y	Y		Int (1) Type of security definition request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Request Security identity for the specifications provided</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Request Security identity for the specifications provided	✓	
Value	Description	D	C										
1	Request Security identity for the specifications provided	✓											
1301	MarketID	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.								
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).								
<b>&lt;Standard Trailer&gt;</b>													

## 6.7.2 Security Definition Response

The Security Definition message is used to accept or reject the security defined in a Security Definition message.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y		'd' = Security Definition												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Parties&gt;</b>		Y	Y		Party Information.												
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<b>&lt;entering trader&gt;</b>		Y	Y		Entering User ID.												
<b>end &lt;Parties&gt;</b>																	
<b>&lt;Instrument&gt;</b>		Y	Y		Security identification.												
<b>&lt;InstrmtLegGrp&gt;</b>		Y	Y		The group of instrument leg is used for the creation of a Eurex strategy.												
<b>&lt;MarketSegmentGrp&gt;</b>		Y	Y		The group of market segment provides security definition for the market segment that the security participates in.												
58	Text	N	N		String (2000) Error text.												
320	SecurityReqID	Y	Y		String Unique ID of a Security Definition Request.												
322	SecurityResponseID	Y	Y		String (20) Identifier for the security definition message.												
323	SecurityResponseType	Y	Y		String (1) Type of security definition message response. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Accept security proposal with revisions as indicated in the message</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Reject security proposal</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	2	Accept security proposal with revisions as indicated in the message	✓		5	Reject security proposal	✓	
Value	Description	D	C														
2	Accept security proposal with revisions as indicated in the message	✓															
5	Reject security proposal	✓															
1607	SecurityRejectReason	N	N		Int Identifies the reason a security definition request is being rejected.												
25024	ReturnCodeSource	N	N		String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>TRADING-SYSTEM</td> <td>Trading system</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	TRADING-SYSTEM	Trading system	✓					
Value	Description	D	C														
TRADING-SYSTEM	Trading system	✓															

*... continued ...*

Tag	Field Name	R	D	C	Description
28614	NumberOfSecurities	Y	Y		Int (10) Number of strategies that have been created per session, product and business day.
30100	UExDestination	Y	Y		Exchange Market Identifier code of the trading market according to ISO 10383.

&lt;Standard Trailer&gt;

## 6.8 Application Messages: Cross Request

### 6.8.1 Cross Request

The Cross Request message is used for the publication of Cross Trade Announcements and, for T7 Derivatives, also for the Client Liquidity Improvement Process (CLIP).

A Cross Trade Announcement is used to announce a Cross Trade to the market if a trader intends to trade with himself via order book by sending a buy and a sell order for the same instrument. It is also used for prearranged trades between two traders, where the trade should be reproduced via matching the orders in the order book.

The Client Liquidity Improvement Process (CLIP) is used by brokers to execute a client order against another broker (bilateral) or against himself (unilateral), under the consideration of potential price advantages for client order in matches against the central order book.

For more details to the usage of the fields see chapter **6.8.1.1 Cross Request - Usage of the Fields**.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'UDS' = Cross Request												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;RootParties&gt;</b>		Y	Y	Y	Root Party Information.												
1116	NoRootPartyIDs	Y	Y	Y	NumInGroup Number of root parties involved.												
<b>&lt;root entering trader&gt;</b>		Y	Y	Y	Entering User ID.												
<b>end &lt;RootParties&gt;</b>																	
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.												
<b>&lt;CrossRequestSideGrp&gt;</b>		N	N		Cross Request Side Group. Mandatory for CLIP request (CrossRequestType (28771) = "2" (Liquidity Improvement Cross)). Not allowed for Cross Trade Announcement Requests (CrossRequestType (28771) = "1" (Cross Announcement)).												
552	NoSides	Y	Y		NumInGroup 1 (One Side) / 2 (Both Sides) CLIP Enter Requests (CrossRequestTransType (28772) = "0" (New)): the value "1" (One Side) will be used for bilateral, the value "2" (Both Sides) for unilateral CLIP Requests. CLIP Cancel Requests (CrossRequestTransType (28772) = "1" (Cancel)): only the value "1" (One Side) is allowed.												
54	Side	Y	Y		Char Side of order.												
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>						Value	Description	D	C	1	Buy	✓		2	Sell	✓	
Value	Description	D	C														
1	Buy	✓															
2	Sell	✓															

... continued ...

Tag	Field Name	R	D	C	Description																
979	InputSource	N	N		Int (1) Role on / for a message. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Client Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Proprietary Broker</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Client Broker	✓		2	Proprietary Broker	✓					
Value	Description	D	C																		
1	Client Broker	✓																			
2	Proprietary Broker	✓																			
37	OrderID	N	N		Int (20) Exchange Order ID generated by the T7 System. Not allowed for CLIP Enter Requests (CrossRequest-TransType (28772) = "0" (New)). Mandatory for CLIP Cancel Requests (CrossRequest-TransType (28772) = "1" (Cancel)).																
1815	TradingCapacity	N	N		Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓		5	Principal (Proprietary)	✓		6	Market Maker	✓	
Value	Description	D	C																		
1	Customer (Agency)	✓																			
5	Principal (Proprietary)	✓																			
6	Market Maker	✓																			
77	PositionEffect	N	N		Char Field is used for Derivatives position management purposes and indicates whether the order is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓					
Value	Description	D	C																		
O	Open	✓																			
C	Close	✓																			
1	Account	N	N		String (2) Account.																
58	Text	N	N		String (12) First free-format text field for trader-specific or customer-related comments.  Should not be used in conjunction with KRX Member and KRX Beneficiary Account.																

... continued ...

Tag	Field Name	R	D	C	Description																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
W	Desk	✓																															
Y	Electronic	✓																															
C	Vendor-provided Platform billed by Executing Broker	✓																															
G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓																															
H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
28774	SideComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).																												
25008	FreeText2	N	N		String (12) Second free-format text field for trader-specific or customer-related comments.																												
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.																												
28773	MaximumPrice	N	N		Price (11.8) Maximum Price. Only allowed if InputSource (979) = "2" (Proprietary Broker).																												
<Parties>		N	N		Party Information.																												
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block.																												
<uds contra firm>		N	N		The identifier of the member counterparty institution. Only allowed and mandatory for bilateral CLIP request.																												
<uds contra trader>		N	N		The identifier of the trader counterparty. Only allowed and mandatory for bilateral CLIP request.																												
<uds order origination firm>		N	N		KRX Member ID.																												
<uds beneficiary>		N	N		KRX Beneficiary Account.																												

... continued ...

Tag	Field Name	R	D	C	Description
<uds client id>		N	N		Client Identifier (short code). The Client ID is mandatory for an agent account.
<uds takeup firm>		N	N		Take-up trading firm information.
<uds position account>		N	N		Flexible account identifier.
<uds location ID>		N	N		Location ID information. Origin country code to identify the region from which the transaction originates.
<uds investment identifier>		N	N		Investment identifier.
<uds execution identifier>		N	N		Execution identifier.
end <Parties>					
<OrderAttributeGrp>		N	N		Order Attribute Group.
2593	NoOrderAttributes	Y	Y		NumInGroup Number of order attributes.
<liquidity provision activity order>		Y	Y		Liquidity provision activity order.
end <OrderAttributeGrp>					
<LegOrdGrp>		N	N		The group of leg is used to specify clearing attributes for the legs of a Multileg Order.
end <CrossRequestSideGrp>					
<DisclosureInstructionGrp>		N	N		The Disclosure Instruction Group is used to indicate if different attributes of a CLIP request should be disclosed.
1812	NoDisclosureInstructions	Y	Y		NumInGrp Number of disclosure instructions.
<side disclosure instruction>		N	N		Instruction to show side.
<price disclosure instruction>		N	N		Instruction to show price.
<quantity disclosure instruction>		N	N		Instruction to show total quantity.
end <DisclosureInstructionGrp>					
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).
38	OrderQty	N	N	Y	Qty (15.4) Total Order Quantity.



... continued ...

Tag	Field Name	R	D	C	Description												
44	Price	N	N		Price (11.8) Limit price.												
548	CrossID	N	N		Int (10) User defined CLIP arrangement ID.												
1301	MarketID	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.												
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).												
2672	CrossRequestID	Y	Y	Y	String Unique identifier for cross request. Uniqueness will be completely within the user's responsibility. If CrossRequestType (28771) = "2" (Liquidity Improvement Cross) the content must be numeric with a length up to 11.												
28771	CrossRequestType	Y	Y	Y	Int (1) Identifies the type of the Cross Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cross Announcement</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Liquidity Improvement Cross</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Cross Announcement	✓	✓	2	Liquidity Improvement Cross	✓	
Value	Description	D	C														
1	Cross Announcement	✓	✓														
2	Liquidity Improvement Cross	✓															
28772	CrossRequestTransType	N	N		Int (1) Identifies the type of the Cross Request. Field is used only for CLIP and is mandatory. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>New</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Cancel</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	New	✓		1	Cancel	✓	
Value	Description	D	C														
0	New	✓															
1	Cancel	✓															

&lt;Standard Trailer&gt;

### 6.8.1.1 Cross Request - Usage of the Fields

Following table shows the different usages of the fields contained in the message CrossRequest (UDS).

Tag	Field Name	Derivatives: Enter CLIP	Derivatives: Delete CLIP	Derivatives: Enter Cross Trade An- nouncement	Cash: Enter Cross Trade An- nouncement
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	Y
<b>&lt;Message Body&gt;</b>					
<b>&lt;Begin RootParties&gt;</b>		Y	Y	Y	Y
1116	NoRootPartyIDs	Y	Y	Y	Y
<b>&lt;root entering trader&gt;</b>		Y	Y	Y	Y
<b>&lt;End RootParties&gt;</b>					
<b>&lt;Begin Instrument&gt;</b>		Y	Y	Y	Y
55	Symbol	Y	Y	Y	Y
48	SecurityID	Y	Y	Y	Y
22	SecurityIDSource	Y	Y	Y	Y
<b>&lt;End Instrument&gt;</b>					
<b>&lt;Begin CrossRequestSideGrp&gt;</b>		Y	Y		
552	NoSides	Y ("1" or "2")	Y ("1")		
54	Side	Y	Y		
979	InputSource	Y			
37	OrderID		Y		
1815	TradingCapacity	Y			
77	PositionEffect	N			
1	Account	N			
58	Text	N			
1031	CustOrderHandlingInst	N			
28774	SideComplianceText	N			
25008	FreeText2	N			
25009	FreeText3	N			
28773	MaximumPrice	N			
<b>&lt;Begin Parties&gt;</b>		N	N		
453	NoPartyIDs	Y	Y		
<b>&lt;uds contra firm&gt;</b>		N			
<b>&lt;uds contra trader&gt;</b>		N			

... continued ...

Tag	Field Name	Derivatives: Enter CLIP	Derivatives: Delete CLIP	Derivatives: Enter Cross Trade An- nouncement	Cash: Enter Cross Trade An- nouncement
	<uds order origination firm>	N			
	<uds beneficiary>	N			
	<uds client id>	N			
	<uds takeup firm>	N			
	<uds position account>	N			
	<uds location ID>	N			
	<uds investment identifier>	N	N		
	<uds execution identifier>	N	N		
<End Parties>					
	<Begin OrderAttributeGrp>	N			
2593	NoOrderAttributes	Y			
	<liquidity provision activity order>	N			
<End OrderAttributeGrp>					
	<LegOrdGrp>	N			
<End CrossRequestSideGrp>					
	<Begin DisclosureInstructionGrp>	N			
1812	NoDisclosureInstructions	Y			
	<side disclosure instruction>	N			
	<price disclosure instruction>	N			
	<quantity disclosure instruction>	N			
<End DisclosureInstructionGrp>					
15	Currency				N
38	OrderQty	Y		Y	Y
44	Price	Y			
548	CrossID	N			
1301	MarketID	Y	Y	Y	Y
2404	ComplianceText			N	
2672	CrossRequestID	Y	Y	Y	Y
28771	CrossRequestType	Y ("2")	Y ("2")	Y ("1")	Y ("1")
28772	CrossRequestTransType	Y ("0")	Y ("1")		
<Standard Trailer>					

## 6.8.2 Cross Request Acknowledgement

Cross Request Acknowledgment is used as the application level response to a Cross Request.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'UDT' = Cross Request Acknowledge												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.												
<b>&lt;CrossRequestSideGrp&gt;</b>		N	N		Cross Request Side Group. Will be set only for positiv CLIP responses.												
552	NoSides	Y	Y		NumInGroup Number of trade sides.												
54	Side	Y	Y		Char Side. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓		2	Sell	✓	
Value	Description	D	C														
1	Buy	✓															
2	Sell	✓															
979	InputSource	Y	Y		Int (1) Role on / for a message. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Client Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Proprietary Broker</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Client Broker	✓		2	Proprietary Broker	✓	
Value	Description	D	C														
1	Client Broker	✓															
2	Proprietary Broker	✓															
37	OrderID	Y	Y		Int (20) Exchange Order ID generated by the T7 System.												
<b>end &lt;CrossRequestSideGrp&gt;</b>																	
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.												
1301	MarketID	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.												
2672	CrossRequestID	Y	Y	Y	String Unique identifier for cross request. Uniqueness will be completely within the user's responsibility. Will be copied from the request.												
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.												

... continued ...

Tag	Field Name	R	D	C	Description																
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓				
Value	Description	D	C																		
FIX GATEWAY	Fix Gateway	✓	✓																		
TRADING SYSTEM	Trading system	✓	✓																		
25025	ReturnCodeText	N	N	N	String (2000) Text explaining the return code.																
25101	CrossReqAckStatus	Y	Y	Y	Int Identifies the status of the Cross Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Accepted</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Rejected</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Received, not yet processed</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Accepted	✓	✓	1	Rejected	✓	✓	2	Received, not yet processed	✓	✓
Value	Description	D	C																		
0	Accepted	✓	✓																		
1	Rejected	✓	✓																		
2	Received, not yet processed	✓	✓																		
28771	CrossRequestType	Y	Y	Y	Int (1) Identifies the type of the Cross Request. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cross Announcement</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Liquidity Improvement Cross</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Cross Announcement	✓	✓	2	Liquidity Improvement Cross	✓					
Value	Description	D	C																		
1	Cross Announcement	✓	✓																		
2	Liquidity Improvement Cross	✓																			
28772	CrossRequestTransType	N	N		Int (1) Identifies the type of the Cross Request. Field is used only for CLIP and is mandatory. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>New</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Cancel</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	New	✓		1	Cancel	✓					
Value	Description	D	C																		
0	New	✓																			
1	Cancel	✓																			
30060	UTransactTime	N	N	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).																

&lt;Standard Trailer&gt;

## 6.9 Application Messages: Quote Request Functionality

### 6.9.1 Quote Request

The Quote Request message is used to request public quotes from market makers (T7 Cash, T7 Derivatives) and private quotes from specialists (T7 Cash). This message is commonly referred to as a Request For Quote (RFQ).

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'R' = Quote Request												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;QuoteReqGrp&gt;</b>		Y	Y	Y	The group of quote request provides details of the quote request. Only one occurrence.												
131	QuoteReqID	Y	Y	Y	String Unique identifier of a quote request message.  For requests for private quotes (PrivateQuote (1171) = Y (Private Quote)), the content of the field must fit into the format Int (8). For requests for public quotes, uniqueness will not be validated and will be completely within the user's responsibility.												
1171	PrivateQuote	N	N	N	Boolean Used to indicate whether the message is sent to request a public or a private quote. If the field is not set, the quote request will be processed as a request for a public quote (default setting). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Private Quote</td> <td></td> <td>✓</td> </tr> <tr> <td>N</td> <td>Public Quote</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	Y	Private Quote		✓	N	Public Quote	✓	✓
Value	Description	D	C														
Y	Private Quote		✓														
N	Public Quote	✓	✓														
2404	ComplianceText	N	N		String (20) This field is used to provide additional compliance information (according to respective rules and regs, circulars and/or bilateral coordination between participant and Trading Surveillance).												
25139	RFQRequesterDisclosure-Instruction	N		N	Int (1) Instruction to disclose the business unit name of the requester of a public quote.  Required in requests for public quotes. Not allowed in requests for private quotes. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Yes</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	No		✓	1	Yes		✓
Value	Description	D	C														
0	No		✓														
1	Yes		✓														

... continued ...

Tag	Field Name	R	D	C	Description																								
28761	RFQPublishIndicator	N		N	<p>Int (1) Recipients of the request for a public quote.</p> <p>Required in requests for public quotes. Not allowed in requests for private quotes.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Market Data</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Designated Sponsor</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Market Data and Designated Sponsor</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Market Maker and Designated Sponsor</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Market Data, Market Maker and Designated Sponsor</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Market Data		✓	2	Designated Sponsor		✓	3	Market Data and Designated Sponsor		✓	4	Market Maker and Designated Sponsor		✓	5	Market Data, Market Maker and Designated Sponsor		✓
Value	Description	D	C																										
1	Market Data		✓																										
2	Designated Sponsor		✓																										
3	Market Data and Designated Sponsor		✓																										
4	Market Maker and Designated Sponsor		✓																										
5	Market Data, Market Maker and Designated Sponsor		✓																										
30100	UExDestination	Y	Y	Y	<p>Exchange Market Identifier code of the trading market according to ISO 10383.</p>																								
<Standard Trailer>																													

## 6.9.2 Mass Quote Acknowledgement

The Mass Quote Acknowledgement is used as the application level response to a Quote Request.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'b' = Mass Quote Acknowledgement												
<Message Body>																	
58	Text	N	N	N	String (2000) Error text.												
131	QuoteReqID	Y	Y	Y	String Unique identifier of a quote request message. Will be copied from the request.												
297	QuoteStatus	Y	Y	Y	Int (2) Identifies the status of the quote acknowledgement. <b>Note:</b> in FIX 4.2 the name of this field is <b>QuoteAck-Status</b> .												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Accepted</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>10</td> <td>Pending</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Accepted	✓	✓	10	Pending	✓	✓
Value	Description	D	C														
0	Accepted	✓	✓														
10	Pending	✓	✓														
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.												
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code.												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway	✓	✓														
TRADING SYSTEM	Trading system	✓	✓														
30060	UTransactTime	N	N	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
30100	UExDestination	N	N	N	Exchange Market Identifier code of the trading market according to ISO 10383.												
<Standard Trailer>																	



### 6.9.3 Quote

The Quote message is used as the response to a private Quote Request.

Tag	Field Name	R	D	C	Description
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y		Y	'S' = Quote
<b>&lt;Message Body&gt;</b>					
<b>&lt;Instrument&gt;</b>		Y		Y	Security identification.
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.
100	ExDestination	N		N	Exchange Market Identifier Code of the trading market according to ISO 10383.
117	QuoteID	Y		Y	Int (20) Unique identifier of a private quote.
131	QuoteReqID	Y		Y	String Unique identifier of a quote request message. Will be copied from the request.
132	BidPx	N		N	Price (11.8) Buy price of a quote.
133	OfferPx	N		N	Price (11.8) Sell price of a quote.
134	BidSize	N		N	Qty (15.4) Quantity on a buy side of a quote.
135	OfferSize	N		N	Qty (15.4) Quantity on sell side of a quote.
<b>&lt;Standard Trailer&gt;</b>					

### 6.9.4 Quote Request Reject

The Quote Request Reject message is used to reject a Quote Request.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'UAG' / 'AG' = User / Quote Request Reject												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;QuotReqRjctGrp&gt;</b>		Y	Y	Y	Instrument data from the related quote request.												
146	NoRelatedSym	Y	Y	Y	NumInGroup Specifies the number of repeating symbols specified. Only one occurrence.												
<b>&lt;Instrument&gt;</b>		Y	Y	Y	Security identification.												
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.												
<b>end &lt;QuotReqRjctGrp&gt;</b>																	
58	Text	Y	Y	Y	String (128) Error text.												
131	QuoteReqID	Y	Y	Y	String Unique identifier of a quote request message. Will be copied from the request.												
658	QuoteRequestReject-Reason	Y	Y	Y	Int (10) Contains the reason of a quote rejection as an error number.												
25024	ReturnCodeSource	Y	Y	Y	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway	✓	✓														
TRADING SYSTEM	Trading system	✓	✓														
30100	UEXDestination	N	N	N	Exchange Market Identifier code of the trading market according to ISO 10383.												
<b>&lt;Standard Trailer&gt;</b>																	

## 6.9.5 Quote Request Functionality - Message Flows

### 6.9.5.1 Public and Private Quotes - Common Message Flows

Quote Request rejected

No.	Message	Customer	FIX Gateway
1	<b>QuoteRequest (R)</b> QuoteReqID (131)	⇒ Trading Session	
2	<b>QuoteRequestReject (AG/UAG)</b> QuoteReqID (131) Text (58) QuoteRequestRejectReason (658) ReturnCodeSource (25024)		⇐ Trading Session

Pending Response to a Quote Request

No.	Message	Customer	FIX Gateway
1	<b>QuoteRequest (R)</b> QuoteReqID (131)	⇒ Trading Session	
2	<b>Mass/QuoteAcknowledgement (b)</b> QuoteReqID (131) QuoteStatus (297) = 10 (Pending)		⇐ Trading Session

### 6.9.5.2 Successful Public Quote Request - Message Flow

Successful Public Quote Request

No.	Message	Customer	FIX Gateway
1	<b>QuoteRequest (R)</b> PrivateQuote (1171) = N / not set QuoteReqID (131)	⇒ Trading Session	
2	<b>Mass/QuoteAcknowledgement (b)</b> QuoteReqID (131) QuoteStatus (297) = 0 (Accepted)		⇐ Trading Session

### 6.9.5.3 Successful Private Quote Request - Message Flow (T7 Cash - T7 Boerse Frankfurt)

#### Quote Request Processing, Order Entry and Order Execution

The table below summarizes the message flow for the request of a private quote, the delivery of a private quote by the Specialist and the execution of an order related to the private quote.

No.	Message	Customer	FIX Gateway	Specialist
1	<b>QuoteRequest (R)</b> PrivateQuote (1171) = Y QuoteReqID (131)	⇒ Trading Session	⇒	
2	<b>Quote(S)</b> QuoteReqID (131) QuoteID (117)		⇐ Trading Session	⇐
3	<b>NewOrderSingle (D)</b> QuoteID (117)	⇒ Trading Session	⇒	
4	<b>ExecutionReport (8) - Order Entry</b> ExecType (150) = 0 (New) RefOrderID (1080) = QuoteID RefOrderIDSource (1081) = 5 (QuoteID (117))		⇐ Trading Session	
5	<b>ExecutionReport (8) - Order Execution</b> ExecType (150) = 2 (Fill) - FIX 4.2 / F (Trade) - FIX 4.4 RefOrderID (1080) = QuoteID RefOrderIDSource (1081) = 5 (QuoteID (117))		⇐ Trading Session	⇐
6	<b>User/TradeCaptureReport (UAE/AE) - Trade Notification</b> TrdType (828) = 0 (Regular Trade (on-book))		⇐ Back-office Session	

### Interruption of the Quote Request Message Flow

Please note that the table in the previous page is only one of the possible message flows, in which all steps from the quote request to the order execution are performed. But this message flow can be interrupted in different steps.

Following table summarizes the situations in which the flow can be interrupted and the messages sent to the customer in each case:

Scenario	Message to the Client
Outstanding quote request response from T7 Backend	Mass/QuoteAcknowledgement (b) QuoteStatus (297) = 10 (Pending)
Quote request rejected from T7 FIX Gateway	QuoteRequestReject (AG/UAG) BusinessMessageReject (j) Reject (3)
Quote request rejected from T7 Backend	QuoteRequestReject (AG/UAG)
Quote request rejected from specialist	QuoteRequestReject (AG/UAG)
No quote from specialist within defined timeout	QuoteRequestReject (AG/UAG)
Private quote expiration / No order entry from client with QuoteID (117) within defined timeout after provision of a private quote from specialist	-
Order entered with a reference to a private quote deleted by the client via an OrderCancelRequest (F) before execution	ExecutionReport (8) ExecType (150) = 4 (Cancelled)
No execution of order entered with a reference to a private quote	ExecutionReport (8) ExecType (150) = 4 (Cancelled) ExecRestatementReason (378) = 316 (Quote Request Solution Order Expiry)

## 6.10 Application Messages: Party Risk Limits

### 6.10.1 User Party Risk Limits Request

The User Party Risk Limits Request is used to inquire pre-trade risk limits. These limits can be defined for on-book or off-book trading on product, exchange and user risk group level.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y		'UCL' = User Party Risk Limits Request												
<Message Body>																	
<Parties>		Y	Y		Party Information.												
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block.												
<entering trader>		Y	Y		Entering User ID.												
<executing unit>		N	N		Executing unit information.												
end <Parties>																	
1300	MarketSegmentID	Y	Y		Int (10) Product identifier.												
1301	MarketID	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.												
1533	RiskLimitPlatform	Y	Y		Int (1) The area to which risk limit is applicable. Scope of Pre-Trade risk limits. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On-Book</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Off-Book (TES)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	On-Book	✓		1	Off-Book (TES)	✓	
Value	Description	D	C														
0	On-Book	✓															
1	Off-Book (TES)	✓															
1666	RiskLimitRequestID	Y	Y		String Unique identifier for the User Party Risk Limits Request.												
28775	RiskLimitGroup	N	N		String (3) User Pre-Trade risk group.												
<Standard Trailer>																	

## 6.10.2 User Party Risk Limits Report

The User Party Risk Limits Report message is used as the application level response to a User Party Risk Limits Request.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y		'UCM' = User Party Risk Limits Report												
<Message Body>																	
<PartyRiskLimitsGrp>		N	N		Specifies the risk limits for the party. Mandatory if RequestResult (1511) = "0" (Valid request).												
1677	NoPartyRiskLimits	Y	Y		NumInGroup Number of party risk limits.												
<PartyDetailGrp>		Y	Y		Contains details for a party, including related parties and alternative party identifiers.												
1671	NoPartyDetails	Y	Y		NumInGroup Number of party details. Value is always set to "1".												
1691	PartyDetailID	Y	Y		String (5) The identification of the party.												
1692	PartyDetailIDSource	Y	Y		Char Source of the identifier of the PartyDetailID (1691) specified. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	D	Proprietary custom code	✓					
Value	Description	D	C														
D	Proprietary custom code	✓															
1693	PartyDetailRole	Y	Y		Int (2) Identifies the type or role of PartyDetailID (1691) specified. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>Executing unit</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	59	Executing unit	✓					
Value	Description	D	C														
59	Executing unit	✓															
1672	PartyDetailStatus	Y	Y		Int (1) Indicates the status of the party identified with PartyDetailID (1691). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Active</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Suspended</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Active	✓		1	Suspended	✓	
Value	Description	D	C														
0	Active	✓															
1	Suspended	✓															
end <PartyDetailGrp>																	
<RiskLimitsGrp>		N	N		Repeating group of risk limits.												
1669	NoRiskLimits	Y	Y		NumInGroup Number of risk limits for different instrument scopes. Value is always set to "1".												

... continued ...

Tag	Field Name	R	D	C	Description																
<RiskLimitTypesGrp>		Y	Y		Repeating group of risk limit types and values.																
1529	NoRiskLimitTypes	Y	Y		NumInGroup Number of risk limits with associated warning levels. Values in range "1" to "64" are possible.																
1530	RiskLimitType	Y	Y		Int (1) Specifies the type of risk limit. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Long Limit</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Short Limit</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	4	Long Limit	✓		5	Short Limit	✓					
Value	Description	D	C																		
4	Long Limit	✓																			
5	Short Limit	✓																			
1533	RiskLimitPlatform	Y	Y		Int (1) The area to which risk limit is applicable. Scope of Pre-Trade risk limits. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>On-Book</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Off-Book (TES)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	On-Book	✓		1	Off-Book (TES)	✓					
Value	Description	D	C																		
0	On-Book	✓																			
1	Off-Book (TES)	✓																			
28776	RiskLimitRequestingParty-Role	Y	Y		Int (2) Requesting party role for a pre-trade risk limit. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Clearing firm</td> <td>✓</td> <td></td> </tr> <tr> <td>22</td> <td>Exchange</td> <td>✓</td> <td></td> </tr> <tr> <td>59</td> <td>Executing unit</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	4	Clearing firm	✓		22	Exchange	✓		59	Executing unit	✓	
Value	Description	D	C																		
4	Clearing firm	✓																			
22	Exchange	✓																			
59	Executing unit	✓																			
28778	RiskLimitViolationIndicator	Y	Y		Int (1) Indicator for a pre-trade risk limit violation. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Yes</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	No	✓		1	Yes	✓					
Value	Description	D	C																		
0	No	✓																			
1	Yes	✓																			
28775	RiskLimitGroup	N	N		String (3) User Pre-Trade risk group.																
28777	RiskLimitQty	N	N		Qty (15.4) Risk limit quantity.																
28779	RiskLimitOpenQty	N	N		Qty (15.4) Open quantity for orders or TES trades.																
28780	RiskLimitNetPositionQty	N	N		Qty (15.4) Net position quantity for a requested pre-trade risk limit scope.																
end <RiskLimitTypesGrp>																					
end <RiskLimitsGrp>																					



... continued ...

Tag	Field Name	R	D	C	Description																
end <PartyRiskLimitsGrp>																					
1300	MarketSegmentID	Y	Y		Int (10) Product identifier.																
1301	MarketID	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.																
1328	RejectText	N	N		String (2000) Identifies the reason for rejection.																
1511	RequestResult	Y	Y		Int (1) Result of a request as identified by the appropriate request ID field. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Valid request</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Invalid request</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Data temporarily unavaiable</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Valid request	✓	✓	1	Invalid request	✓	✓	4	Data temporarily unavaiable	✓	✓
Value	Description	D	C																		
0	Valid request	✓	✓																		
1	Invalid request	✓	✓																		
4	Data temporarily unavaiable	✓	✓																		
1666	RiskLimitRequestID	Y	Y		String Unique identifier for the User Party Risk Limits Request. Will be copied from the request.																
1667	RiskLimitReportID	Y	Y		Int (20) Numeric identifier for the User Party Risk Limits Report. In case of a reject and pending field will be set to "[N/A]".																
25023	ReturnCode	N	N		Int (10) Unique error or event identification number.																
25024	ReturnCodeSource	N	N		String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td></td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓		TRADING SYSTEM	Trading system	✓					
Value	Description	D	C																		
FIX GATEWAY	Fix Gateway	✓																			
TRADING SYSTEM	Trading system	✓																			
<Standard Trailer>																					

## 6.11 Application Messages: Trade Capture

The Trade Capture Report message is used to report trades and trade reversals via FIX Back-office sessions. Additionally, for T7 Cash the message is also used for the TES (T7 Entry Service) message flows (TES requests and broadcasts).

Tag	Field Name	R	D	C	Description								
<Standard Header>													
35	MsgType	Y	Y	Y	'UAE' / 'AE' = User / Trade Capture Report								
<Message Body>													
<Instrument>		Y	Y	Y	Security identification.								
<RegulatoryTradeIDGrp>		N	N	N	The RegulatoryTradeIDGrp is used to deliver the Trading venue transaction identifier (TVTIC) for regulatory reporting purposes.								
1907	NoRegulatoryTradeIDs	Y	Y	Y	NumInGroup Number of regulatory IDs in the repeating group. Only one occurrence.								
1903	RegulatoryTradeID	Y	Y	Y	String Trading Venue Transaction Identifier (TVTIC).								
1906	RegulatoryTradeIDType	Y	Y	Y	Int (1) Specifies the type of trade identifier provided in RegulatoryTradeID (1903). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Trading venue transaction identifier (TVTIC)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Trading venue transaction identifier (TVTIC)	✓	✓
Value	Description	D	C										
5	Trading venue transaction identifier (TVTIC)	✓	✓										
end <RegulatoryTradeIDGrp>													
<SRQSRelatedTradeIDGrp>		N	N	N	The SRQSRelatedTradeIDGrp is used to deliver the link to the trade identifiers of a Xetra/Eurex EnLight negotiation event.								
25174	NoSRQSRelatedTradeIDs	Y	Y	Y	NumInGroup Number of SRQSRelatedTradeIDs.								
25152	SRQSRelatedTradeID	Y	Y	Y	Int (10) Trade identifier of a Xetra/Eurex EnLight negotiation event.								
end <SRQSRelatedTradeIDGrp>													
<RootParties>		N	N	N	Root Party Information.								
1116	NoRootPartyIDs	Y	Y	Y	NumInGroup Number of root parties involved.								
<root entering trader>		N		N	Entering User ID.								
<root executing trader>		N		N	Executing trader information.								
<root executing firm>		N		N	Executing firm information.								
<root execution venue>		N	N	N	Execution venue (segment MIC).								
end <RootParties>													

... continued ...

Tag	Field Name	R	D	C	Description												
<ValueChecksGrp>		N		N	The Value Checks Group can be used for price, notional value and quantity validation.												
1868	NoValueChecks	Y		Y	NumInGroup Number of value check entries.												
<notional value check>		N		N	Notional value validation.												
<quantity check>		N		N	Quantity validation.												
end <ValueChecksGrp>																	
<TrdCapRptSideGrp>		Y	Y	Y	Side-specific information items of a Trade Capture Report message.												
552	NoSides	Y	Y	Y	NumInGroup Number of trade sides.												
<side1>		Y	Y	Y	Side 1 information.												
54	Side	Y	Y	Y	Char Side of trade. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														
1009	SideLastQty	N	N		Qty (15.4) Fill quantity for the original Eurex strategy.												
1005	SideTradeReportID	N		N	Int (10) Unique identifier for each side of a trade (with or without a central counterparty).												
1506	SideTradeID	N	Y	N	Int (10) Private trade identifier of an order or quote match event.												
<Parties>		N	Y	N	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block. Some of the parties are delivered as separate fields outside of the party component block.												
<tcr clearing firm>		N	Y	N	Clearing member identification.												
<tcr clearing organization>		N	Y		Clearing House Short Name.												
<tcr executing trader>		N	Y	N	Executing trader information.												
<tcr executing firm>		N	Y	N	Executing firm information.												
<tcr executing unit>		N	Y	N	Executing unit information.												
<tcr executing firm kvno>		N		N	Executing firm information (Kassenverein number).												
<tcr session ID>		N	N	N	Session ID.												
<tcr order origination firm>		N	N		KRX Member ID.												

... continued ...

Tag	Field Name	R	D	C	Description												
<tcr beneficiary>		N	N		KRX Beneficiary Account.												
<tcr position account>		N	N		Flexible account identifier.												
<tcr takeup firm>		N	N		Take-up trading firm information.												
<tcr settlement location>		N		N	Settlement location information. The valid values are defined in <b>chapter 6.11.1.1 Settlement Location: List of Valid Values.</b>												
<tcr settlement account>		N		N	Settlement Account.												
<tcr settlement firm>		N		N	Settlement Firm.												
<tcr client id>		N	N	N	Client Identifier (short code). The Client ID is mandatory in requests for an agent account.												
<tcr entering trader>		N		N	Entering User.												
<tcr entering firm>		N		N	Entering Entity ID.												
<tcr investment identifier>		N	N	N	Investment identifier.												
<tcr execution identifier>		N	N	N	Execution identifier.												
<tcr clearing unit>		N	Y	N	Party ID Clearing Unit.												
<tcr settlement unit>		N		N	Party ID Settlement Unit.												
end <Parties>																	
1	Account	N	N	N	String (2) Account.												
<ClrInstGrp>		N		N	The ClrInstGrp contains the information, whether a non-CCP trade is internalised or aggregated.												
576	NoClearingInstructions	Y		Y	NumInGroup Number of clearing instructions. Only one entry.												
577	ClearingInstruction	Y		Y	Int (2) Indicator to specify if a non-CCP trade is internalised or aggregated. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Bilateral netting only (aggregation)</td> <td></td> <td>✓</td> </tr> <tr> <td>13</td> <td>Self clearing (internalisation)</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Bilateral netting only (aggregation)		✓	13	Self clearing (internalisation)		✓
Value	Description	D	C														
2	Bilateral netting only (aggregation)		✓														
13	Self clearing (internalisation)		✓														
end <ClrInstGrp>																	
157	NumDaysInterest	N		N	Int (10) Number of Days of Interest for convertible bonds and fixed income. Value may be negative.												
159	AccruedInterestAmt	N		N	Amt (11.8) Amount of Accrued Interest for convertible bonds and fixed income.												

... continued ...

Tag	Field Name	R	D	C	Description												
119	SettlCurrAmt	N		N	Amt (11.8) Total amount due expressed in settlement currency.												
155	SettlCurrFxRate	N		N	Float (11.8) Foreign exchange rate used to compute SettlCurrAmt (119) from Currency (15) to SettlCurrency (120). The exchange rate as a multiplicative factor, converting the settlement amount given in instrument currency into the settlement amount given in settlement currency. The multiplicative factor is calculated as settlement currency exchange rate to Euro divided by instrument currency exchange rate to Euro.												
77	PositionEffect	N	N		Char Field is used for Derivatives position management purposes and indicates whether the order is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓	
Value	Description	D	C														
O	Open	✓															
C	Close	✓															
58	Text	N	N	N	String (12) First free-format text field for trader-specific or customer-related comments.												
<TrdAllocGrp>		N		N	Trade Allocation Group.												
78	NoAllocs	Y		Y	NumInGroup Number of allocations.												
79	AllocAccount	Y		Y	String (5) Sub-account mnemonic. Always set to "[N/A]".												
467	IndividualAllocID	N		N	Int (20) Unique identifier for a TES trade side.												
<NestedParties2>		N		N	Nested Party Information.												
756	NoNested2PartyIDs	Y		Y	NumInGroup Number of parties involved.												
<nested executing trader>		N		N	Owning user name.												
<nested executing firm>		N		N	Owning business unit name.												
end <NestedParties2>																	
80	AllocQty	N		N	Qty (15.4) Quantity of the particular trade side in the TES trade.												

... continued ...

Tag	Field Name	R	D	C	Description																				
1840	TradeAllocStatus	N		N	Int (1) Status of an allocation in a TES trade. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Pending</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Approved</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Canceled</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Auto Approved</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Pending		✓	1	Approved		✓	3	Canceled		✓	4	Auto Approved		✓
Value	Description	D	C																						
0	Pending		✓																						
1	Approved		✓																						
3	Canceled		✓																						
4	Auto Approved		✓																						
25180	TESEnrichmentRuleID	N		N	Int (10) TES Enrichment Rule ID.																				
25181	AutoApprovalRuleID	N		N	Int (10) Auto Approval Rule ID.																				
25183	TradeAllocStatusInformation	N		N	String (2000) Reason for erroneous Auto Approval processing.																				
end <TrdAllocGrp>																									
1072	SideGrossTradeAmt	N		N	Amt (11.8) The gross trade amount for this side of the trade.																				
1115	OrderCategory	N	N	N	Char Indicates if the trade notification results from an order or quote. Field is used only for on-book trades. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Order</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Quote</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Order	✓	✓	2	Quote	✓	✓								
Value	Description	D	C																						
1	Order	✓	✓																						
2	Quote	✓	✓																						
1444	SideLiquidityInd	N	N	N	Int (1) Indicates whether the order added or removed liquidity. Field is used only for on-book trades. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Added Liquidity (passive)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Removed Liquidity (aggressive)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Auction (neither passive nor aggressive, includes VDO matching at midpoint)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Added Liquidity (passive)	✓	✓	2	Removed Liquidity (aggressive)	✓	✓	4	Auction (neither passive nor aggressive, includes VDO matching at midpoint)	✓	✓				
Value	Description	D	C																						
1	Added Liquidity (passive)	✓	✓																						
2	Removed Liquidity (aggressive)	✓	✓																						
4	Auction (neither passive nor aggressive, includes VDO matching at midpoint)	✓	✓																						
1851	StrategyLinkID	N	C		Int (10) Identifier that links all trades resulting from a match event of a strategy order.																				

... continued ...

Tag	Field Name	R	D	C	Description												
37	OrderID	N	N	N	Int (20) Exchange Order ID generated by the T7 System. Will not be delivered for trade reversals. Field is used only for on-book trades.												
198	SecondaryOrderID	N	N	N	Int (20) Unique identifier of the order. The Client Order ID of the T7 Enhanced Trading Interface (ETI) is provided. Field is used only for on-book trades.												
40	OrdType	N	N	N	Char Order type. Field is used only for on-book trades. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Market</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Limit</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Market	✓	✓	2	Limit	✓	✓
Value	Description	D	C														
1	Market	✓	✓														
2	Limit	✓	✓														
44	Price	N	N	N	Price (11.8) Limit price. Field is used only for on-book trades.												
151	LeavesQty	N	N	N	Qty (15.4) Remaining quantity of an order. If the order has been executed partially this field contains the non-executed quantity. A remaining size of 0 indicates that the order is fully matched or no longer active. Field is used only for on-book trades.												
14	CumQty	N	N	N	Qty (15.4) Total quantity (e.g. number of shares) filled. Field is used only for on-book trades.												
<OrderAttributeGrp>		N	N	N	Order Attribute Group.												
2593	NoOrderAttributes	Y	Y	Y	NumInGroup Number of order attributes.												
<liquidity provision activity order>		N	N	N	Liquidity provision activity order.												
<risk reduction order>		N	N	N	Risk reduction order.												
end <OrderAttributeGrp>																	
483	TransBkdTime	N		N	UTC Timestamp 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 back end.												

... continued ...

Tag	Field Name	R	D	C	Description																												
1031	CustOrderHandlingInst	N	N		Char Rate identifier in accordance with the FIA guidelines. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>Desk</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Electronic</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Vendor-provided Platform billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>G</td> <td>Sponsored Access via Exchange API or FIX provided by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>H</td> <td>Premium Algorithmic Trading Provider billed by Executing Broker</td> <td>✓</td> <td></td> </tr> <tr> <td>D</td> <td>Other, including Other-provided Screen</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	W	Desk	✓		Y	Electronic	✓		C	Vendor-provided Platform billed by Executing Broker	✓		G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓		H	Premium Algorithmic Trading Provider billed by Executing Broker	✓		D	Other, including Other-provided Screen	✓	
Value	Description	D	C																														
W	Desk	✓																															
Y	Electronic	✓																															
C	Vendor-provided Platform billed by Executing Broker	✓																															
G	Sponsored Access via Exchange API or FIX provided by Executing Broker	✓																															
H	Premium Algorithmic Trading Provider billed by Executing Broker	✓																															
D	Other, including Other-provided Screen	✓																															
25008	FreeText2	N	N	N	String (12) Second free-format text field for trader-specific or customer-related comments.																												
25009	FreeText3	N	N		String (12) Third free-format text field for trader-specific or customer-related comments.																												
25107	FreeText4	N		N	String (16) Free-format text field for trader-specific or customer related comments.																												
25108	OrderIDSfx	N		N	Int (10) Order identification suffix generated by the T7 system. An increase of the peak or overall quantity leads to a new timestamp, losing time priority and the assignment of a new order id suffix, whereas a reduction maintains the original timestamp and order id suffix. Field is used only for on-book trades.																												
28585	SideLastPx	N	N		Price (11.8) Fill price for the original Eurex strategy. Only provided in case of a multileg instrument.																												
<side2>		N		N	Side 2: counterparty information.																												
54	Side	N		N	Char Counterparty side. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy		✓	2	Sell		✓																
Value	Description	D	C																														
1	Buy		✓																														
2	Sell		✓																														
<Parties>		N		N	Party Information.																												



... continued ...

Tag	Field Name	R	D	C	Description
453	NoPartyIDs	Y		Y	NumInGroup Number of parties in the party component block. Some of the parties are delivered as separate fields outside of the party component block.
	<tcr executing firm>	N		N	Executing firm information.
	<tcr executing unit>	N		N	Executing unit information.
	<tcr executing firm kvno>	N		N	Executing firm information (Kassenverein number).
	<tcr specialist firm>	N		N	Information about the firm of the specialist (T7 Boerse Frankfurt).
	<tcr specialist trader>	N		N	Information about the specialist trader (T7 Boerse Frankfurt).
	<tcr settlement location>	N		N	Settlement location information.  The valid values are defined in <b>chapter 6.11.1.1 Settlement Location: List of Valid Values.</b>
	<tcr settlement account>	N		N	Settlement Account.
	<tcr settlement firm>	N		N	Settlement Firm.
	<tcr settlement unit>	N		N	Party ID Settlement Unit.
end <Parties>					
	<TrdAllocGrp>	N		N	Trade Allocation Group.
78	NoAllocs	Y		Y	NumInGroup Number of allocations.
79	AllocAccount	Y		Y	String (5) Sub-account mnemonic. Always set to "[N/A]".
467	IndividualAllocID	N		N	Int (20) Unique identifier for a TES trade side.
	<NestedParties2>	N		N	Nested Party Information.
756	NoNested2PartyIDs	Y		Y	NumInGroup Number of parties involved.
	<nested executing trader>	N		N	Owning user name.
	<nested executing firm>	N		N	Owning business unit name.
end <NestedParties2>					
80	AllocQty	N		N	Qty (15.4) Quantity of the particular trade side in the TES trade.

... continued ...

Tag	Field Name	R	D	C	Description																				
1840	TradeAllocStatus	N		N	Int (1) Status of an allocation in a TES trade. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Pending</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Approved</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Canceled</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Auto Approved</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Pending		✓	1	Approved		✓	3	Canceled		✓	4	Auto Approved		✓
Value	Description	D	C																						
0	Pending		✓																						
1	Approved		✓																						
3	Canceled		✓																						
4	Auto Approved		✓																						
25180	TESEnrichmentRuleID	N		N	Int (10) TES Enrichment Rule ID.																				
25181	AutoApprovalRuleID	N		N	Int (10) Auto Approval Rule ID.																				
25183	TradeAllocStatusInformation	N		N	String (2000) Reason for erroneous Auto Approval processing.																				
end <TrdAllocGrp>																									
end <TrdCapRptSideGrp>																									
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.																				
30	LastMkt	Y	Y	Y	Exchange Operating MIC. Market Identifier Code of the trading market according to ISO 10383.																				
31	LastPx	N	Y	N	Price (11.8) Price of this fill.																				
32	LastQty	N	Y	N	Qty (15.4) Quantity executed in this fill.																				
64	SettlDate	N		N	LocalMktDate Specific date of trade settlement (SettlementDate) in YYYYMMDD format.																				
75	TradeDate	N	Y	N	LocalMktDate Business date.																				
120	SettlCurrency	N		N	Currency Settlement Currency.																				

... continued ...

Tag	Field Name	R	D	C	Description																								
285	DeleteReason	N		N	<p>Int (3) Reason for deletion.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>Deletion via the TES Delete Request</td> <td></td> <td>✓</td> </tr> <tr> <td>101</td> <td>Automatic deletion due to TES Activity State</td> <td></td> <td>✓</td> </tr> <tr> <td>102</td> <td>Automatic deletion due to instrument expiration</td> <td></td> <td>✓</td> </tr> <tr> <td>103</td> <td>Deletion caused by Clearing / Risk stop</td> <td></td> <td>✓</td> </tr> <tr> <td>104</td> <td>Deletion caused by Trading stop</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	100	Deletion via the TES Delete Request		✓	101	Automatic deletion due to TES Activity State		✓	102	Automatic deletion due to instrument expiration		✓	103	Deletion caused by Clearing / Risk stop		✓	104	Deletion caused by Trading stop		✓
Value	Description	D	C																										
100	Deletion via the TES Delete Request		✓																										
101	Automatic deletion due to TES Activity State		✓																										
102	Automatic deletion due to instrument expiration		✓																										
103	Deletion caused by Clearing / Risk stop		✓																										
104	Deletion caused by Trading stop		✓																										
442	MultiLegReportingType	N	N		<p>Char This field indicates if the Trade Capture Report results from a single leg or multileg order.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Single Leg</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Individual leg of a multileg security</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Single Leg	✓		2	Individual leg of a multileg security	✓													
Value	Description	D	C																										
1	Single Leg	✓																											
2	Individual leg of a multileg security	✓																											
570	PreviouslyReported	Y	Y	Y	<p>Boolean Indicates if the Trade Capture Report was previously reported to the counterparty. In messages to client only "N" (Not reported to counterparty) will be set. In messages from client, the field must contain one of the defined valid values but its content is not used for the processing.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not reported to counterparty</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Y</td> <td>Previously reported to counterparty</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	N	Not reported to counterparty	✓	✓	Y	Previously reported to counterparty		✓												
Value	Description	D	C																										
N	Not reported to counterparty	✓	✓																										
Y	Previously reported to counterparty		✓																										
571	TradeReportID	Y	Y	Y	<p>String (80) Unique identifier of the Trade Capture Report. In messages sent via FIX Back-office sessions, the field provides a unique trade identifier and can be used for the identification of duplicate trade confirmation messages. For TES requests entered via FIX Trading sessions the field is limited to a maximum length of 20.</p>																								

... continued ...

Tag	Field Name	R	D	C	Description																																				
574	MatchType	N	N	N	<p>String (2) The point in the matching process at which this trade was matched. Field is used only for on-book trades. The value 3 (Confirmed Trade Report) represents trades entered by Market Supervision.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Confirmed Trade Report</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Auto Match Incoming</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Cross Auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>7</td> <td>Call Auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>11</td> <td>Auto Match Resting</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>12</td> <td>Auto Match at Midpoint (VDO)</td> <td></td> <td>✓</td> </tr> <tr> <td>13</td> <td>Liquidity Improvement Cross</td> <td>✓</td> <td></td> </tr> <tr> <td>14</td> <td>Continuous Auction</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	3	Confirmed Trade Report	✓	✓	4	Auto Match Incoming	✓	✓	5	Cross Auction	✓	✓	7	Call Auction	✓	✓	11	Auto Match Resting	✓	✓	12	Auto Match at Midpoint (VDO)		✓	13	Liquidity Improvement Cross	✓		14	Continuous Auction		✓
Value	Description	D	C																																						
3	Confirmed Trade Report	✓	✓																																						
4	Auto Match Incoming	✓	✓																																						
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12	Auto Match at Midpoint (VDO)		✓																																						
13	Liquidity Improvement Cross	✓																																							
14	Continuous Auction		✓																																						
700	ReversalIndicator	N	N		<p>Boolean Reversal Indicator.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>No reversal</td> <td>✓</td> <td></td> </tr> <tr> <td>Y</td> <td>Reversal</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	N	No reversal	✓		Y	Reversal	✓																									
Value	Description	D	C																																						
N	No reversal	✓																																							
Y	Reversal	✓																																							
748	TotNumTradeReports	N	C		<p>Int (10) Number of leg executions of the original strategy order.</p>																																				

... continued ...

Tag	Field Name	R	D	C	Description																																																				
828	TrdType	Y	Y	Y	<p>Int (4) Identifier of the trade type. "0" (Regular Trade (on-book)) is used to identify an on-book trade.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Regular Trade (on-book)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Block Trade</td> <td>✓</td> <td></td> </tr> <tr> <td>12</td> <td>Exchange for Swap (EFS)</td> <td>✓</td> <td></td> </tr> <tr> <td>50</td> <td>Portfolio Compression Trade</td> <td>✓</td> <td></td> </tr> <tr> <td>54</td> <td>OTC</td> <td></td> <td>✓</td> </tr> <tr> <td>1000</td> <td>Vola Trade</td> <td>✓</td> <td></td> </tr> <tr> <td>1001</td> <td>Exchange for physical (EFP) Fin trade</td> <td>✓</td> <td></td> </tr> <tr> <td>1002</td> <td>Exchange for physical (EFP) Index Future trade</td> <td>✓</td> <td></td> </tr> <tr> <td>1004</td> <td>Trade at market</td> <td>✓</td> <td></td> </tr> <tr> <td>1005</td> <td>Large in scale</td> <td></td> <td>✓</td> </tr> <tr> <td>1006</td> <td>Xetra/Eurex EnLight triggered trade</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1007</td> <td>QTPIP Block Trade</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Regular Trade (on-book)	✓	✓	1	Block Trade	✓		12	Exchange for Swap (EFS)	✓		50	Portfolio Compression Trade	✓		54	OTC		✓	1000	Vola Trade	✓		1001	Exchange for physical (EFP) Fin trade	✓		1002	Exchange for physical (EFP) Index Future trade	✓		1004	Trade at market	✓		1005	Large in scale		✓	1006	Xetra/Eurex EnLight triggered trade	✓	✓	1007	QTPIP Block Trade	✓	
Value	Description	D	C																																																						
0	Regular Trade (on-book)	✓	✓																																																						
1	Block Trade	✓																																																							
12	Exchange for Swap (EFS)	✓																																																							
50	Portfolio Compression Trade	✓																																																							
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1001	Exchange for physical (EFP) Fin trade	✓																																																							
1002	Exchange for physical (EFP) Index Future trade	✓																																																							
1004	Trade at market	✓																																																							
1005	Large in scale		✓																																																						
1006	Xetra/Eurex EnLight triggered trade	✓	✓																																																						
1007	QTPIP Block Trade	✓																																																							
830	TransferReason	N	Y	N	<p>Int (1) Identifies the role for which the trade notification is received.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Owner</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Clearer</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Owner	✓	✓	2	Clearer	✓	✓																																								
Value	Description	D	C																																																						
1	Owner	✓	✓																																																						
2	Clearer	✓	✓																																																						
856	TradeReportType	Y	Y	Y	<p>Int (1) Identifies the type of the Trade Capture Report.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Submit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Alleged</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Accept</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>No/Was (Replaced)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Trade Report Cancel</td> <td></td> <td>✓</td> </tr> <tr> <td>7</td> <td>(Locked-In) Trade Break</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>11</td> <td>Alleged New</td> <td></td> <td>✓</td> </tr> <tr> <td>13</td> <td>Alleged No/Was</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Submit	✓	✓	1	Alleged	✓		2	Accept		✓	5	No/Was (Replaced)	✓	✓	6	Trade Report Cancel		✓	7	(Locked-In) Trade Break	✓	✓	11	Alleged New		✓	13	Alleged No/Was		✓																
Value	Description	D	C																																																						
0	Submit	✓	✓																																																						
1	Alleged	✓																																																							
2	Accept		✓																																																						
5	No/Was (Replaced)	✓	✓																																																						
6	Trade Report Cancel		✓																																																						
7	(Locked-In) Trade Break	✓	✓																																																						
11	Alleged New		✓																																																						
13	Alleged No/Was		✓																																																						

... continued ...

Tag	Field Name	R	D	C	Description																																								
880	TrdMatchID	N	N	N	Int (10) Unique identifier for each price level (match step) of a match event (used for public trade reporting). Field is used only for on-book trades.																																								
1003	TradeID	N	Y	N	Int (10) Uniquely identifies all order leg allocations referring to the same matching event, simple instrument and price.																																								
1011	MessageEventSource	N	Y	N	String (3) Receiver of a message. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>On-Book Trade Notification</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>201</td> <td>TES Trade Notification</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>202</td> <td>TES Broadcast to Initiator - Approve Pending</td> <td></td> <td>✓</td> </tr> <tr> <td>203</td> <td>TES Broadcast to Initiator - Approve Finished</td> <td></td> <td>✓</td> </tr> <tr> <td>204</td> <td>TES Broadcast to Initiator - Canceled</td> <td></td> <td>✓</td> </tr> <tr> <td>205</td> <td>TES Broadcast to Approver - Approve Pending</td> <td></td> <td>✓</td> </tr> <tr> <td>206</td> <td>TES Broadcast to Approver - Approved</td> <td></td> <td>✓</td> </tr> <tr> <td>207</td> <td>TES Broadcast to Approver - Executed</td> <td></td> <td>✓</td> </tr> <tr> <td>208</td> <td>TES Broadcast to Approver - Canceled</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	200	On-Book Trade Notification	✓	✓	201	TES Trade Notification	✓	✓	202	TES Broadcast to Initiator - Approve Pending		✓	203	TES Broadcast to Initiator - Approve Finished		✓	204	TES Broadcast to Initiator - Canceled		✓	205	TES Broadcast to Approver - Approve Pending		✓	206	TES Broadcast to Approver - Approved		✓	207	TES Broadcast to Approver - Executed		✓	208	TES Broadcast to Approver - Canceled		✓
Value	Description	D	C																																										
200	On-Book Trade Notification	✓	✓																																										
201	TES Trade Notification	✓	✓																																										
202	TES Broadcast to Initiator - Approve Pending		✓																																										
203	TES Broadcast to Initiator - Approve Finished		✓																																										
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205	TES Broadcast to Approver - Approve Pending		✓																																										
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207	TES Broadcast to Approver - Executed		✓																																										
208	TES Broadcast to Approver - Canceled		✓																																										
1126	OrigTradeID	N	N	N	Int (10) In case of a trade reversal this field provides the original trade identifier.																																								
1390	TradePublishIndicator	N	N	N	Int (1) Indicates if a trade should be or has been published via a market publication service. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Deferred Publication</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Published</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Deferred Publication	✓	✓	3	Published	✓	✓																												
Value	Description	D	C																																										
2	Deferred Publication	✓	✓																																										
3	Published	✓	✓																																										
1596	ClearingTradePrice	N	N		Price (11.8) Clearing price.																																								
1649	RelatedSymbol	N	C		Int (10) Product identifier of the original Eurex strategy.																																								
1650	RelatedSecurityID	N	C		Int (20) Instrument identifier of the original Eurex strategy.																																								

... continued ...

Tag	Field Name	R	D	C	Description																								
1724	OrderOrigination	N	N	N	Int (1) Direct market access identifier. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Direct market access</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	5	Direct market access	✓	✓																
Value	Description	D	C																										
5	Direct market access	✓	✓																										
1815	TradingCapacity	N	Y	N	Int (1) This field designates the role in which the trader is acting. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Customer (Agency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Issuer/Liquidity Provider</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Principal (Proprietary)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Market Maker</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>9</td> <td>Riskless Principal</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Customer (Agency)	✓	✓	3	Issuer/Liquidity Provider		✓	5	Principal (Proprietary)	✓	✓	6	Market Maker	✓	✓	9	Riskless Principal		✓
Value	Description	D	C																										
1	Customer (Agency)	✓	✓																										
3	Issuer/Liquidity Provider		✓																										
5	Principal (Proprietary)	✓	✓																										
6	Market Maker	✓	✓																										
9	Riskless Principal		✓																										
2489	PackageID	N	N	N	Int (10) Identifier for a TES trade.																								
2490	TradeNumber	N		N	Int (10) Execution Counter. Number of Trade Capture Reports belonging to the same price level (match step) of a match event. Field is used only for on-book trades.																								
25161	BasketTrdMatchID	N	N		Int (20) Basket ID assigned by the T7 system. The field will be populated for TES trades that are part of a basket.																								
25162	BasketSideTradeReportID	N	N		String (20) Individual Basket ID assigned by the approver of a basket. The field will be set for TES trades that are part of a basket if the field was populated when the basket was approved.																								
25182	BasketPartyContraFirm	N	N		String (20) Counterparty information for TES trades that are part of a basket.																								
25191	CompressionID	N	N		Int (20) TES Trade Compression ID.																								
28583	TradeReportText	N		N	String (20) First free-format text field for trader-specific or customer related comments.																								

... continued ...

Tag	Field Name	R	D	C	Description																																				
28586	OrderSide	N	N		Char Side of the order in the original Eurex strategy. Field is used only for on-book trades. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓		2	Sell	✓																									
Value	Description	D	C																																						
1	Buy	✓																																							
2	Sell	✓																																							
28587	RelatedProductComplex	N	N		Int (1) Instrument type of the original Eurex strategy. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Standard Option Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Non-standard Option Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>4</td> <td>Volatility Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Futures Spread</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Inter Product Spread</td> <td>✓</td> <td></td> </tr> <tr> <td>7</td> <td>Standard Future Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>8</td> <td>Pack and Bundle</td> <td>✓</td> <td></td> </tr> <tr> <td>9</td> <td>Strip</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	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	✓	
Value	Description	D	C																																						
2	Standard Option Strategy	✓																																							
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7	Standard Future Strategy	✓																																							
8	Pack and Bundle	✓																																							
9	Strip	✓																																							
28610	MatchSubType	N	N	N	Int (1) Indicates the call auction type the trade originates from. Field is used only for on-book trades. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Opening auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Closing auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Intraday auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Circuit breaker auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5</td> <td>Trade at Close</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Outside BBO (CLIP matching outside BBO)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Opening auction	✓	✓	2	Closing auction	✓	✓	3	Intraday auction	✓	✓	4	Circuit breaker auction	✓	✓	5	Trade at Close		✓	6	Outside BBO (CLIP matching outside BBO)	✓									
Value	Description	D	C																																						
1	Opening auction	✓	✓																																						
2	Closing auction	✓	✓																																						
3	Intraday auction	✓	✓																																						
4	Circuit breaker auction	✓	✓																																						
5	Trade at Close		✓																																						
6	Outside BBO (CLIP matching outside BBO)	✓																																							
28736	ClearingTradeQty	N	N		Qty (15.4) Quantity used for clearing.																																				



... continued ...

Tag	Field Name	R	D	C	Description												
28750	MultilegPriceModel	N	N		Int (1) Price decomposition method for legs of a complex instrument. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Standard (leg level prices provided by system)</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>User defined (leg level prices provided by user)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Standard (leg level prices provided by system)	✓		1	User defined (leg level prices provided by user)	✓	
Value	Description	D	C														
0	Standard (leg level prices provided by system)	✓															
1	User defined (leg level prices provided by user)	✓															
28758	NegotiationID	N	N	N	Int (10) ID of a Xetra/Eurex EnLight negotiation.												
28899	BasketProfileID	N	N		Int (10) Basket Profile ID.												
30017	TESExecID	N		N	Int (10) System transaction identifier for a T7 Entry Service transaction.												
30060	UTransactTime	N	Y	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
<Standard Trailer>																	

### 6.11.1 Trade Capture via Back-Office Session

Via the Back-office session the T7 Derivatives and T7 Cash trading participants can receive on-book and off-book trade confirmations.

The following table shows relevant fields contained in the message *User/TradeCaptureReport (UAE/AE)*. These fields are used in the *User/TradeCaptureReport (UAE/AE)* via Back-office session.

Tag	Field Name	Cash off-book	Cash on-book	Derivatives off-book	Derivatives on-book
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	Y
<b>&lt;Message Body&gt;</b>					
<b>&lt;Begin Instrument&gt;</b>		Y	Y	Y	Y
55	Symbol	Y	Y	Y	Y
48	SecurityID	Y	Y	Y	Y
22	SecurityIDSource	Y	Y	Y	Y
1227	ProductComplex			N	N
<b>&lt;Begin SecAltIDGrp&gt;</b>		Y	Y		
454	NoSecurityAltID	Y	Y		
455	SecurityAltID	Y	Y		
456	SecurityAltIDSource	Y	Y		
<b>&lt;End SecAltIDGrp&gt;</b>					
223	CouponRate	N	N		
28890	DeliveryType	Y	Y		
28896	LastCouponDeviationIndicator	N	N		
28897	RefinancingEligibilityIndicator	N	N		
<b>&lt;End Instrument&gt;</b>					
<b>&lt;Begin RegulatoryTradeIDGrp&gt;</b>		N	N	N	N
1907	NoRegulatoryTradeIDs	Y	Y	Y	Y
1903	RegulatoryTradeID	Y	Y	Y	Y
1906	RegulatoryTradeIDType	Y	Y	Y	Y
<b>&lt;End RegulatoryTradeIDGrp&gt;</b>					
<b>&lt;Begin SRQSRelatedTradeIDGrp&gt;</b>		N		N	
25174	NoSRQSRelatedTradeIDs	Y		Y	
25152	SRQSRelatedTradeID	Y		Y	
<b>&lt;End SRQSRelatedTradeIDGrp&gt;</b>					
<b>&lt;Begin RootParties&gt;</b>		N	N	N	N
1116	NoRootPartyIDs	Y	Y	Y	Y

... continued ...					
Tag	Field Name	Cash off-book	Cash on-book	Derivatives off-book	Derivatives on-book
<root execution venue>		Y	Y	Y	Y
<End RootParties>					
<Begin TrdCapRptSideGrp>		Y	Y	Y	Y
552	NoSides	Y ("2")	Y ("2")	Y ("1")	Y ("1")
<Begin side1>		Y	Y	Y	Y
54	Side	Y	Y	Y	Y
1009	SideLastQty			N	N
1005	SideTradeReportID	Y	Y		
1506	SideTradeID	Y	Y	Y	Y
<Begin Parties>		Y	Y	Y	Y
453	NoPartyIDs	Y	Y	Y	Y
<tcr clearing firm>		Y	Y	Y	Y
<tcr clearing organization>				Y	Y
<tcr executing trader>		Y	Y	Y	Y
<tcr executing firm>		Y	Y	Y	Y
<tcr executing unit>		Y	Y	Y	Y
<tcr executing firm kvno>		Y	Y		
<tcr session ID>		N	N	N	N
<tcr order origination firm>				N	N
<tcr beneficiary>				N	N
<tcr position account>				N	N
<tcr takeup firm>				N	N
<tcr settlement location>		Y	Y		
<tcr settlement account>		Y	Y		
<tcr settlement firm>		Y	Y		
<tcr client id>		N	N	N	N
<tcr investment identifier>		N	N	N	N
<tcr execution identifier>		N	N	N	N
<tcr clearing unit>		Y	Y	Y	Y
<tcr settlement unit>		Y	Y		
<End Parties>					
1	Account	N	N	N	N
<Begin ClrInstGrp>		N	N		

... continued ...					
Tag	Field Name	Cash off-book	Cash on-book	Derivatives off-book	Derivatives on-book
576	NoClearingInstructions	Y	Y		
577	ClearingInstruction	Y	Y		
<End ClrInstGrp>					
157	NumDaysInterest	N	N		
159	AccruedInterestAmt	N	N		
119	SettlCurrAmt	Y	Y		
155	SettlCurrFxRate	N	N		
77	PositionEffect			N	N
58	Text	N	N	N	N
1072	SideGrossTradeAmt	N	N		
1115	OrderCategory		N		N
1444	SideLiquidityInd		N		N
1851	StrategyLinkID			C	C
37	OrderID		N		N
198	SecondaryOrderID		N		N
40	OrdType		N		N
44	Price		N		N
151	LeavesQty		N		N
14	CumQty		N		N
<Begin OrderAttributeGrp>		N	N	N	N
2593	NoOrderAttributes	Y	Y	Y	Y
<liquidity provision activity order>		N	N	N	N
<risk reduction order>		N	N	N	N
<End OrderAttributeGrp>					
1031	CustOrderHandlingInst			N	N
25008	FreeText2	N	N	N	N
25009	FreeText3			N	N
25107	FreeText4	N	N		
25108	OrderIDSfx		N		
28585	SideLastPx			N	N
<End side1>					
<Begin side2>		Y	Y		
54	Side	Y	Y		

... continued ...

Tag	Field Name	Cash off-book	Cash on-book	Derivatives off-book	Derivatives on-book
<Begin Parties>		Y	Y		
453	NoPartyIDs	Y	Y		
<tcr executing firm>		N	N		
<tcr executing unit>		N	N		
<tcr executing firm kvno>		Y	Y		
<tcr specialist firm>			N		
<tcr specialist trader>			N		
<tcr settlement location>		Y	Y		
<tcr settlement account>		Y	Y		
<tcr settlement firm>		N	N		
<tcr settlement unit>		N	N		
<End Parties>					
<End side2>					
<End TrdCapRptSideGrp>					
15	Currency	Y	Y		
30	LastMkt	Y	Y	Y	Y
31	LastPx	Y	Y	Y	Y
32	LastQty	Y	Y	Y	Y
64	SettlDate	Y	Y		
75	TradeDate	Y	Y	Y	Y
120	SettlCurrency	Y	Y		
442	MultiLegReportingType			N	N
570	PreviouslyReported	Y	Y	Y	Y
571	TradeReportID	Y	Y	Y	Y
574	MatchType		N		N
700	ReversalIndicator			N	
748	TotNumTradeReports			C	C
828	TrdType	Y	Y	Y	Y
830	TransferReason	Y	Y	Y	Y
856	TradeReportType	Y	Y	Y	Y
880	TrdMatchID		Y		Y
1003	TradeID	Y	Y	Y	Y
1011	MessageEventSource	Y ("201")	Y ("200")	Y ("201")	Y ("200")

... continued ...

Tag	Field Name	Cash off-book	Cash on-book	Derivatives off-book	Derivatives on-book
1126	OrigTradeID	N	N	N	N
1390	TradePublishIndicator	N		N	
1596	ClearingTradePrice			N	N
1649	RelatedSymbol			C	C
1650	RelatedSecurityID			C	C
1724	OrderOrigination	N	N	N	N
1815	TradingCapacity	N	Y	N	Y
2489	PackageID	Y		Y	
2490	TradeNumber		N		
25161	BasketTrdMatchID			N	
25162	BasketSideTradeReportID			N	
25182	BasketPartyContraFirm			N	
25191	CompressionID			N	
28586	OrderSide				N
28587	RelatedProductComplex			N	N
28610	MatchSubType		N		N
28736	ClearingTradeQty			N	N
28750	MultilegPriceModel			N	
28758	NegotiationID	N		N	
28899	BasketProfileID			N	
30060	UTransactTime	Y	Y	Y	Y

&lt;Standard Trailer&gt;

**6.11.1.1 Settlement Location: List of Valid Values**

Value	Description	Derivatives	Cash
APK	Euroclear Finland		✓
CBF	Clearstream Banking Frankfurt		✓
CBL	Clearstream Banking Luxembourg		✓
CCO	Euroclear UK and Ireland		✓
CIK	Euroclear Belgium		✓
EOC	Euroclear Bank		✓
HEL	HELEX Greece		✓
IBC	Iberclear Spain		✓
INT	Interbolsa Portugal		✓
KDP	KDPW Poland		✓
MOT	Monte Titoli Italy		✓
NEC	Euroclear Netherlands		✓
OEB	OeKB Austria		✓
SIC	Euroclear France		✓
SIS	Sega Intersettle		✓
VPC	Euroclear Sweden		✓
VPD	VP Denmark		✓
VPS	VPS Norway		✓

## 6.11.2 Trade Capture via Trading Session (T7 Cash)

The *User/TradeCaptureReport (UAE/AE)* via Trading session can be used to enter a TES trade.

### 6.11.2.1 TES Requests

This chapter shows a table with relevant fields used in *User/TradeCaptureReport (UAE/AE)* for a TES request. The special usage of the fields depends on the type of the TES request, identified by different values of the field TradeReportType (856).

Tag	Field Name	Enter	Modify	Delete	Approve
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	Y
<b>&lt;Message Body&gt;</b>					
<b>&lt;Begin Instrument&gt;</b>		Y	Y	Y	Y
55	Symbol	Y	Y	Y	Y
48	SecurityID	Y	Y	Y	Y
22	SecurityIDSource	Y	Y	Y	Y
<b>&lt;End Instrument&gt;</b>					
<b>&lt;Begin RootParties&gt;</b>		Y	Y	Y	Y
1116	NoRootPartyIDs	Y	Y	Y	Y
<b>&lt;root entering trader&gt;</b>		Y	Y	Y	Y
<b>&lt;End RootParties&gt;</b>					
<b>&lt;Begin ValueChecksGrp&gt;</b>					Y
1868	NoValueChecks				Y
<b>&lt;notional value check&gt;</b>					Y
<b>&lt;quantity check&gt;</b>					Y
<b>&lt;End ValueChecksGrp&gt;</b>					
<b>&lt;Begin TrdCapRptSideGrp&gt;</b>		Y	Y	Y	Y
552	NoSides	Y ("2")	Y ("2")	Y ("2")	Y ("1")
<b>&lt;Begin side1&gt;</b>		Y	Y	Y	Y
54	Side	Y	Y	Y	Y
<b>&lt;Begin Parties&gt;</b>					
453	NoPartyIDs				Y
<b>&lt;tcr client id&gt;</b>					N
<b>&lt;tcr investment identifier&gt;</b>					N
<b>&lt;tcr execution identifier&gt;</b>					N
<b>&lt;End Parties&gt;</b>					
155	SettlCurrFxRate	N			



... continued ...

Tag	Field Name	Enter	Modify	Delete	Approve
58	Text				N
<Begin TrdAllocGrp>		Y	Y		Y
78	NoAllocs	Y	Y		Y ("1")
79	AllocAccount	Y	Y		Y
467	IndividualAllocID		N		Y
25180	TESEnrichmentRuleID	N	N		
<Begin NestedParties2>		Y	Y		Y
756	NoNested2PartyIDs	Y	Y		Y
<nested executing trader>		Y	Y		Y
<nested executing firm>		Y	Y		Y
<End NestedParties2>					
80	AllocQty	Y	Y		Y
<End TrdAllocGrp>					
<Begin OrderAttributeGrp>					Y
2593	NoOrderAttributes				Y
<liquidity provision activity order>					Y
<End OrderAttributeGrp>					
483	TransBkdTime	N	N		
25008	FreeText2				N
25107	FreeText4				N
<End side1>					
<Begin side2>		Y	Y	Y	
54	Side	Y	Y	Y	
<Begin TrdAllocGrp>		Y	Y		
78	NoAllocs	Y	Y		
79	AllocAccount	Y	Y		
467	IndividualAllocID		N		
<Begin NestedParties2>		Y	Y		
756	NoNested2PartyIDs	Y	Y		
<nested executing trader>		Y	Y		
<nested executing firm>		Y	Y		
<End NestedParties2>					
80	AllocQty	Y	Y		

... continued ...

Tag	Field Name	Enter	Modify	Delete	Approve
<End TrdAllocGrp>					
<End side2>					
<End TrdCapRptSideGrp>					
15	Currency	N	N	N	N
30	LastMkt	Y	Y	Y	Y
31	LastPx	Y	Y		
64	SettlDate	N	N		
570	PreviouslyReported	Y	Y	Y	Y
571	TradeReportID	Y	Y	Y	Y
828	TrdType	Y	Y	Y	Y
856	TradeReportType	Y ("0")	Y ("5")	Y ("6")	Y ("2")
1724	OrderOrigination				N
1815	TradingCapacity				Y
2489	PackageID		Y	Y	Y
28583	TradeReportText	N	N		
30017	TESExecID		Y	Y	Y
<Standard Trailer>					

### 6.11.2.2 Trade Capture Report Ack

This message is a response to a User/TradeCaptureReport (UAE/AE) sent by the customer for a TES trade.

Tag	Field Name	R	D	C	Description																				
<Standard Header>																									
35	MsgType	Y		Y	'UAR' / 'AR' = User / Trade Capture Report Ack																				
<Message Body>																									
<Instrument>		Y		Y	Security identification.																				
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  Will be copied from the FIX request or from the instrument data if the FIX request does not contain the currency but the ISIN was used in the FIX request.																				
30	LastMkt	Y		Y	Exchange Operating MIC. Market Identifier Code of the trading market according to ISO 10383.																				
150	ExecType	Y		Y	Char The reason why this message was generated. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Trade</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	F	Trade		✓												
Value	Description	D	C																						
F	Trade		✓																						
571	TradeReportID	Y		Y	String (80) Unique identifier of the Trade Capture Report.																				
751	TradeReportRejectReason	N		N	Int (10) Error code. Identifies the reason a Trade Capture Report was rejected.																				
856	TradeReportType	Y		Y	Int (1) Identifies the type of the Trade Capture Report. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Submit</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Accept</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>No/Was (Replaced)</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Trade Report Cancel</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Submit		✓	2	Accept		✓	5	No/Was (Replaced)		✓	6	Trade Report Cancel		✓
Value	Description	D	C																						
0	Submit		✓																						
2	Accept		✓																						
5	No/Was (Replaced)		✓																						
6	Trade Report Cancel		✓																						
939	TrdRptStatus	Y		Y	Int (1) Identifies the status of the Trade Capture Report. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Accepted</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Rejected</td> <td></td> <td>✓</td> </tr> <tr> <td>8</td> <td>Pending verification</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Accepted		✓	1	Rejected		✓	8	Pending verification		✓				
Value	Description	D	C																						
0	Accepted		✓																						
1	Rejected		✓																						
8	Pending verification		✓																						

... continued ...

Tag	Field Name	R	D	C	Description												
1328	RejectText	N		N	String (2000) Identifies the reason for rejection.												
25024	ReturnCodeSource	N		N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td></td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway		✓	TRADING SYSTEM	Trading system		✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway		✓														
TRADING SYSTEM	Trading system		✓														
30017	TESExecID	N		N	Int (10) System transaction identifier for a T7 Entry Service transaction.												
<b>&lt;Standard Trailer&gt;</b>																	

### 6.11.2.3 TES Broadcasts

The following table shows the relevant fields contained in the *User/TradeCaptureReport (UAE/AE)* used for TES broadcasts. The special usage of the fields depends on the type of the TES broadcast.

Tag	Field Name	Enter / Modify Broadcast	Delete Broadcast	Approve Broadcast	Execution Broadcast
<b>&lt;Standard Header&gt;</b>					
35	MsgType	Y	Y	Y	Y
<b>&lt;Message Body&gt;</b>					
<b>&lt;Begin Instrument&gt;</b>		Y	Y	Y	Y
55	Symbol	Y	Y	Y	Y
48	SecurityID	Y	Y (“[N/A]”)	Y	Y (“[N/A]”)
22	SecurityIDSource	Y	Y	Y	Y
<b>&lt;Begin SecAltIDGrp&gt;</b>		Y		Y	
454	NoSecurityAltID	Y		Y	
455	SecurityAltID	Y		Y	
456	SecurityAltIDSource	Y		Y	
<b>&lt;End SecAltIDGrp&gt;</b>					
<b>&lt;End Instrument&gt;</b>					
<b>&lt;Begin RootParties&gt;</b>		Y		N	
1116	NoRootPartyIDs	Y		Y	
<b>&lt;root executing trader&gt;</b>		Y		N	
<b>&lt;root executing firm&gt;</b>		Y		N	
<b>&lt;End RootParties&gt;</b>					
<b>&lt;Begin ValueChecksGrp&gt;</b>				N	
1868	NoValueChecks			Y	
<b>&lt;notional value check&gt;</b>				N	
<b>&lt;quantity check&gt;</b>				N	
<b>&lt;End ValueChecksGrp&gt;</b>					
<b>&lt;Begin TrdCapRptSideGrp&gt;</b>		Y	Y	Y	Y
552	NoSides	Y (“2”)	Y (“2”)	Y (“1”)	Y (“1”)
<b>&lt;Begin side1&gt;</b>		Y	Y	Y	Y
54	Side	Y	Y (“1”)	Y	Y
<b>&lt;Begin Parties&gt;</b>				Y	
453	NoPartyIDs			Y	
<b>&lt;tr entering trader&gt;</b>				Y	

... continued ...

Tag	Field Name	Enter / Modify Broadcast	Delete Broadcast	Approve Broadcast	Execution Broadcast
<tr entering firm>				Y	
<End Parties>					
155	SettlCurrFxRate	N		N	
58	Text			N	
<Begin TrdAllocGrp>		Y		Y	Y
78	NoAllocs	Y		Y ("1")	Y ("1")
79	AllocAccount	Y		Y	Y
467	IndividualAllocID	Y		Y	Y
25180	TESEnrichmentRuleID	N		N	
25181	AutoApprovalRuleID	N		N	
25183	TradeAllocStatusInformation	N			
<Begin NestedParties2>		Y		Y	
756	NoNested2PartyIDs	Y		Y	
<nested executing trader>		Y		Y	
<nested executing firm>		Y		Y	
<End NestedParties2>					
80	AllocQty	Y		Y	
1840	TradeAllocStatus	Y		Y	
<End TrdAllocGrp>					
483	TransBkdTime	N		Y	
25008	FreeText2			N	
25107	FreeText4			N	
<End side1>					
<Begin side2>		Y	Y		
54	Side	Y	Y ("2")		
<Begin TrdAllocGrp>		Y			
78	NoAllocs	Y			
79	AllocAccount	Y			
467	IndividualAllocID	Y			
<Begin NestedParties2>		Y			
756	NoNested2PartyIDs	Y			
<nested executing trader>		Y			

... continued ...

Tag	Field Name	Enter / Modify Broadcast	Delete Broadcast	Approve Broadcast	Execution Broadcast
<nested executing firm>		Y			
<End NestedParties2>					
80	AllocQty	Y			
1840	TradeAllocStatus	Y			
<End TrdAllocGrp>					
<End side2>					
<End TrdCapRptSideGrp>					
15	Currency	Y		Y	
30	LastMkt	Y	Y	Y	Y
31	LastPx	Y		Y	
64	SettlDate	N		N	
285	DeleteReason		Y		
570	PreviouslyReported	Y	Y	Y	Y
571	TradeReportID	Y	Y	Y	Y
828	TrdType	Y	Y	Y	Y
856	TradeReportType	Y	Y ("6")	Y ("2")	Y ("2")
1011	MessageEventSource	Y ("202") ("203") ("205") ("208")	Y ("204") ("208")	Y ("206")	Y ("207")
1815	TradingCapacity			Y	
2489	PackageID	Y	Y	Y	Y
28583	TradeReportText	N			
30017	TESExecID	Y	Y	Y	Y
30060	UTransactTime	Y	Y	Y	Y
<Standard Trailer>					

### 6.11.2.4 TES Message Flows

This chapter contains the message flows and functional description for the TES functionality (TES trade entry, TES trade approval, TES modification, TES deletion, TES execution and TES trade broadcast).

An example will be given for a successful TES trade including the information about the involved FIX messages and key fields. It is not intended to document all possible situations but more to give an example.

#### User Groups

A TES trade is always a bilateral trade, which means one buyer against one seller.

Two user groups are involved to a TES trade:

**Initiator**, the user who initiates the TES trade. The Initiator is able to enter, modify and delete a TES trade. A TES trade contains two trade sides. Each trade side contains one allocation for one Approver.

**Approver**, buyer and seller participating to the TES trade (Approver 1 / Approver 2).

#### TES Trade Entry

The TES workflow starts with the TES trade entry by the Initiator.

No.	Message	Initiator	FIX Gateway	Approver 1/ Approver 2
1	<b>User/TradeCaptureReport (UAE/AE) (Request)</b> TradeReportType (856) = 0 (Submit) TradeReportID (571)	⇒ Trading Session		
2	<b>User/TradeCaptureReportAck (UAR/AR)</b> TradeReportType (856) = 0 (Submit) TrdRptStatus (939) = 0 (Accepted) TradeReportID (571) TESExecID (30017)		⇐ Trading Session	
3	<b>User/TradeCaptureReport (UAE/AE) (Broadcast)</b> TradeReportType (856) = 0 (Submit) TradeAllocStatus (1840) = 0 (Pending) MessageEventSource (1011) = 202 (TES Broadcast to Initiator - Approve Pending) TradeReportID (571) IndividualAllocID (467) [per allocation] PackageID (2489) TESExecID (30017)		⇐ Trading Session	
4	<b>User/TradeCaptureReport (UAE/AE) (Broadcast)</b> → to Approver 1 and Approver 2 TradeReportType (856) = 11 (Alleged New) TradeAllocStatus (1840) = 0 (Pending) MessageEventSource (1011) = 205 (TES Broadcast to Approver - Approve Pending) TradeReportID (571) IndividualAllocID (467) PackageID (2489) TESExecID (30017)		⇒ Trading Session	



**TES Trade Approval**

Using the TES Approve request, the Approver completes his own clearing information and approves its TES trade side. Once a side is approved the status of that side is set to approved (*TradeAllocStatus (1840) = 2 (Approved)*) with *MessageEventSource (1011) = 205 (TES Broadcast to Initiator - Approve Pending)*.

The approval can be done independently by each Approver. There is no check on the sequence of approval.

No.	Message	Initiator	FIX Gateway	Approver 1/ Approver 2
5	<b>User/TradeCaptureReport (UAE/AE) (Request)</b> → from Approver 1 and Approver 2 <hr/> TradeReportType (856) = 2 (Accept) TradeReportID (571) IndividualAllocID (467) PackageID (2489) TESExecID (30017)			← Trading Session
6	<b>User/TradeCaptureAck (UAR/AR)</b> → to Approver 1 and Approver 2 <hr/> TradeReportType (856) = 0 (Submit) TrdRptStatus (939) = 0 (Accepted) TradeReportID (571) TESExecID (30017)		⇒ Trading Session	
7	<b>User/TradeCaptureReport (UAE/AE) (Broadcast)</b> → to Approver 1 and Approver 2 <hr/> TradeReportType (856) = 2 (Accept) TradeAllocStatus (1840) = 2 (Approved) MessageEventSource (1011) = 206 (TES Broadcast to Approver - Approved) TradeReportID (571) IndividualAllocID (467) PackageID (2489) TESExecID (30017)		⇒ Trading Session	

... continued ...

No.	Message	Initiator	FIX Gateway	Approver 1/ Approver 2
8	<p><b>User/TradeCaptureReport (UAE/AE) (Broadcast)</b>  → two messages will be sent to Initiator</p> <hr/> <p>→ first message: after Approver 1 approved  TradeReportType (856) = 0 (Submit)  TradeAllocStatus (1840) = 2 (Approved)  MessageEventSource (1011) = 205 (TES Broadcast to Initiator - Approve Pending)  TradeReportID (571)  IndividualAllocID (467)  PackageID (2489)  TESExecID (30017)</p> <hr/> <p>→ second message: after Approver 2 approved  TradeReportType (856) = 0 (Submit)  TradeAllocStatus (1840) = 2 (Approved)  MessageEventSource (1011) = 203 (TES Broadcast to Initiator - Approve Finished)  TradeReportID (571)  IndividualAllocID (467)  PackageID (2489)  TESExecID (30017)</p>		←= Trading Session	

### Execution and Trade Broadcast

When the last remaining side is approved by the corresponding Approver the status of the TES trade will change to executed and an Execution Broadcast with *MessageEventSource (1011) = 207 (TES Broadcast to Approver - Executed)* will be sent to each Approver.

After an Execution Broadcast a Trade Broadcast with *MessageEventSource (1011) = 201 (TES Trade Notification)* will be sent to each Approver.

No.	Message	Initiator	FIX Gateway	Approver 1/ Approver 2
9	<b>User/TradeCaptureReport (UAE/AE) (Execution Broadcast)</b> → to Approver 1 and Approver 2 <hr/> TradeReportType (856) = 2 (Accept) MessageEventSource (1011) = 207 (TES Broadcast to Approver - Executed) IndividualAllocID (467) TradeReportID (571) PackageID (2489) TESExecID (30017)		⇒ Trading Session	
10	<b>User/TradeCaptureReport (UAE/AE) (Trade Broadcast)</b> → to Approver 1 and Approver 2 <hr/> TradeReportType (856) = 0 (Submit) MessageEventSource (1011) = 201 (TES Trade Notification) TradeReportID (571) TradeID (1003) SideTradeID (1506) PackageID (2489)		⇒ Back-office Session	

### TES Trade Modification

The Initiator can modify the TES trade details as long as the trade status has not been changed to executed (*MessageEventSource (1011) = 207 (TES Broadcast to Approver - Executed)*).

All TES trade attributes including price, quantity and TES sides can be modified except the traded instrument and the related references.

Modification of any TES attributes is treated like a new TES trade entry. As a result the TES entry time as well as the side approval time is reset and the status of all sides is changed to pending (*TradeAllocStatus (1840) = 0 (Pending)*).

Each Approver is notified about the modification even if he has already approved his side. During TES trade modification all attributes are validated again as it is done for the TES trade entry. It is possible to remove existing Approvers and add new Approvers as part of TES trade modification.

### TES Trade Deletion

A pending TES trade can only be deleted by the Initiator. As long as there is at least one pending side of a TES trade it is allowed to delete the TES trade.

## 6.12 Application Messages: Other

### 6.12.1 User Request

Each trader needs to logon/logoff to/from T7 via the User Request message.

Tag	Field Name	R	D	C	Description												
<Standard Header>																	
35	MsgType	Y	Y	Y	'UBE' / 'BE' = User / User Request												
<Message Body>																	
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.												
553	Username	Y	Y	Y	Int (10) User ID.												
554	Password	N	C	C	String (32) Password. This field is required in messages with User-RequestType (924) = 1 (Log on User).												
923	UserRequestID	Y	Y	Y	String Unique identifier for a User Request.												
924	UserRequestType	Y	Y	Y	Int (1) Indicates the action required by a User Request Message.												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Log on user</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Log off user</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Log on user	✓	✓	2	Log off user	✓	✓
Value	Description	D	C														
1	Log on user	✓	✓														
2	Log off user	✓	✓														
<Standard Trailer>																	

## 6.12.2 User Response

The User Response message is used to confirm or reject the trader logon/logoff.

Tag	Field Name	R	D	C	Description																
<b>&lt;Standard Header&gt;</b>																					
35	MsgType	Y	Y	Y	'UBF' / 'BF' = User / User Response																
<b>&lt;Message Body&gt;</b>																					
100	ExDestination	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																
553	Username	Y	Y	Y	Int (10) User ID.																
923	UserRequestID	Y	Y	Y	String Unique identifier for a User Request.																
926	UserStatus	Y	Y	Y	Int (2) Indicates the status of a user. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Logged in</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Not logged in</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Other/Unknown</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Logged in	✓	✓	2	Not logged in	✓	✓	6	Other/Unknown	✓	✓
Value	Description	D	C																		
1	Logged in	✓	✓																		
2	Not logged in	✓	✓																		
6	Other/Unknown	✓	✓																		
927	UserStatusText	N	N	N	String (2000) A text description associated with a user status.																
25023	ReturnCode	N	N	N	Int (10) Unique error or event identification number.																
25024	ReturnCodeSource	N	N	N	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>TRADING SYS- TEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	TRADING SYS- TEM	Trading system	✓	✓								
Value	Description	D	C																		
TRADING SYS- TEM	Trading system	✓	✓																		
<b>&lt;Standard Trailer&gt;</b>																					

### 6.12.3 User Notification

The User Notification message is used to send information of an unsolicited trader logoff or send information of legal notifications.

Tag	Field Name	R	D	C	Description																												
<b>&lt;Standard Header&gt;</b>																																	
35	MsgType	Y	Y	Y	'UCB' = User notification																												
<b>&lt;Message Body&gt;</b>																																	
<b>&lt;UsernameGrp&gt;</b>		N	N	N	List of users to which the notification is directed.																												
809	NoUsernames	Y	Y	Y	NumInGrp Number of usernames. Exactly one occurrence																												
553	Username	Y	Y	Y	Int (10) User ID.																												
end <b>&lt;UsernameGrp&gt;</b>																																	
58	Text	N	N	N	String (2000) Message text.																												
926	UserStatus	Y	Y	Y	Int (2) Indicates the status of a user. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Not logged in</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Other/Unknown</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>7</td> <td>Forced user logout by exchange</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>8</td> <td>Session shutdown warning</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>10</td> <td>User stopped</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>11</td> <td>User released</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Not logged in	✓	✓	6	Other/Unknown	✓	✓	7	Forced user logout by exchange	✓	✓	8	Session shutdown warning	✓	✓	10	User stopped	✓	✓	11	User released	✓	✓
Value	Description	D	C																														
2	Not logged in	✓	✓																														
6	Other/Unknown	✓	✓																														
7	Forced user logout by exchange	✓	✓																														
8	Session shutdown warning	✓	✓																														
10	User stopped	✓	✓																														
11	User released	✓	✓																														
30100	UExDestination	N	N	N	Exchange Market Identifier code of the trading market according to ISO 10383.																												
<b>&lt;Standard Trailer&gt;</b>																																	

### 6.12.4 Trading Session Status

The Trading Session Status message informs about session related events.

Tag	Field Name	R	D	C	Description																																
<b>&lt;Standard Header&gt;</b>																																					
35	MsgType	Y	Y	Y	'h' = Trading session status																																
<b>&lt;Message Body&gt;</b>																																					
58	Text	N	N	N	String (128) Message text.																																
336	TradingSessionID	Y	Y	Y	String (1) Identifier for trading session. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Day</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Day	✓	✓																								
Value	Description	D	C																																		
1	Day	✓	✓																																		
340	TradSesStatus	Y	Y	Y	Int (1) State of the trading session. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Unknown</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Open</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Closed</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Unknown	✓	✓	2	Open	✓	✓	3	Closed	✓	✓																
Value	Description	D	C																																		
0	Unknown	✓	✓																																		
2	Open	✓	✓																																		
3	Closed	✓	✓																																		
1300	MarketSegmentID	N	N	N	Int (10) Product identifier.																																
1301	MarketID	N	N	N	Exchange Market Identifier Code of the trading market according to ISO 10383.																																
1368	TradSesEvent	Y	Y	Y	Int (3) Trading session event type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>102</td> <td>Market reset</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>103</td> <td>End of restatement</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>105</td> <td>Service resumed</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>200</td> <td>No more messages for this trading venue</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>201</td> <td>Message transmission ended</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>202</td> <td>Message processing suspended</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>203</td> <td>Message processing resumed</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	102	Market reset	✓	✓	103	End of restatement	✓	✓	105	Service resumed	✓	✓	200	No more messages for this trading venue	✓	✓	201	Message transmission ended	✓	✓	202	Message processing suspended	✓	✓	203	Message processing resumed	✓	✓
Value	Description	D	C																																		
102	Market reset	✓	✓																																		
103	End of restatement	✓	✓																																		
105	Service resumed	✓	✓																																		
200	No more messages for this trading venue	✓	✓																																		
201	Message transmission ended	✓	✓																																		
202	Message processing suspended	✓	✓																																		
203	Message processing resumed	✓	✓																																		

... continued ...

Tag	Field Name	R	D	C	Description												
25024	ReturnCodeSource	Y	Y	Y	String (20) Originating system component providing the return code. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>FIX GATEWAY</td> <td>Fix Gateway</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TRADING SYSTEM</td> <td>Trading system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	FIX GATEWAY	Fix Gateway	✓	✓	TRADING SYSTEM	Trading system	✓	✓
Value	Description	D	C														
FIX GATEWAY	Fix Gateway	✓	✓														
TRADING SYSTEM	Trading system	✓	✓														
30060	UTransactTime	N	N	N	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
30075	UTradeDate	N	N	N	LocalMktDate Date of trading session in YYYYMMDD format.												
<Standard Trailer>																	



### 6.12.5 Session Details List

The SessionDetailsList (U6) message provides a list of ETI sessions of the own business unit. For more details, please refer to [chapter 3.16 Session Details List](#).

Tag	Field Name	R	D	C	Description																
<Standard Header>																					
35	MsgType	Y	Y	Y	'U6' = Session Details List																
<Message Body>																					
60	TransactTime	Y	Y	Y	UTC Timestamp Transaction time. Will be set by the FIX Gateway for the identification of the message.																
1301	MarketID	Y	Y	Y	Exchange Market Identifier Code of the trading market according to ISO 10383.																
<SessionGrp>		Y	Y	Y	Session Group.																
28734	NoSessions	Y	Y	Y	NumInGroup Number of sessions.																
28766	GatewaySessionID	Y	Y	Y	Int (10) Identifier of an ETI Session (ETI SessionID).																
28767	SecondarySessionID	N	N	N	String (30) FIX session CompID. Used only for ETI Sessions associated to a FIX session (SessionSubMode (28735) = "1" (FIX Trading Session)).																
28730	SessionMode	Y	Y	Y	Int (1) Session type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HF (High Frequency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>LF (Low Frequency)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>GUI</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	HF (High Frequency)	✓	✓	2	LF (Low Frequency)	✓	✓	3	GUI	✓	✓
Value	Description	D	C																		
1	HF (High Frequency)	✓	✓																		
2	LF (Low Frequency)	✓	✓																		
3	GUI	✓	✓																		
28735	SessionSubMode	N	N	N	Int (1) Session subtype. Used only for Low Frequency Sessions (SessionMode (28730) = "2" (LF (Low Frequency))). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Regular Trading Session</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>FIX Trading Session</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Regular Back Office Session</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Regular Trading Session	✓	✓	1	FIX Trading Session	✓	✓	2	Regular Back Office Session	✓	✓
Value	Description	D	C																		
0	Regular Trading Session	✓	✓																		
1	FIX Trading Session	✓	✓																		
2	Regular Back Office Session	✓	✓																		
end <SessionGrp>																					
<Standard Trailer>																					

### 6.12.6 Party Risk Limits Update Report

User Party Risk Limits Update Report. This message communicates risk control events related to the Advanced Risk Protection functionality of T7 in case of a risk limit breach or release.

Tag	Field Name	R	D	C	Description																
<Standard Header>																					
35	MsgType	Y	Y		'UCR' = User Party Risk Limits Update Report																
<Message Body>																					
<Parties>		Y	Y		Party Information.																
453	NoPartyIDs	Y	Y		NumInGroup Number of parties in the party component block (used only in FIX 4.4).																
<clearing firm>		N	N		Clearing member identification.																
<entering firm>		Y	Y		Entering Entity ID. 1 = Participant 2 = Market Supervision																
<executing system>		Y	Y		Executing system information (2 = T7 Trading System).																
<executing unit>		Y	Y		Executing unit information.																
end <Parties>																					
75	TradeDate	Y	Y		LocalMktDate Business date.																
1301	MarketID	N	N		Exchange Market Identifier Code of the trading market according to ISO 10383.																
1324	ListUpdateAction	Y	Y		Char Invocation or release of a control event. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add (Invocation)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>D</td> <td>Delete (Release)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	A	Add (Invocation)	✓	✓	D	Delete (Release)	✓	✓				
Value	Description	D	C																		
A	Add (Invocation)	✓	✓																		
D	Delete (Release)	✓	✓																		
1767	RiskLimitAction	N	N		Int (1) Risk protection action. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Queue inbound</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Reject</td> <td>✓</td> <td></td> </tr> <tr> <td>4</td> <td>Warning</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Queue inbound	✓		2	Reject	✓		4	Warning	✓	
Value	Description	D	C																		
0	Queue inbound	✓																			
2	Reject	✓																			
4	Warning	✓																			
30060	UTransactTime	Y	Y		Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).																
<Standard Trailer>																					

### 6.12.7 Party Entitlements Update Report

User Party Entitlements Update Report. This message communicates risk control events related to the manual stop or release of trading functionality. Events will be generated on the Clearing back end and passed to the user by the T7 back end.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'UCZ' = User Party Entitlements Update Report												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Parties&gt;</b>		Y	Y	Y	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<b>&lt;clearing firm&gt;</b>		N	N	N	Clearing member identification.												
<b>&lt;entering firm&gt;</b>		Y	Y	Y	Entering Entity ID. 1 = Participant 2 = Market Supervision												
<b>&lt;executing system&gt;</b>		Y	Y	Y	Executing system information (2 = T7 Trading System).												
<b>&lt;executing unit&gt;</b>		Y	Y	Y	Executing unit information.												
<b>end &lt;Parties&gt;</b>																	
75	TradeDate	Y	Y	Y	LocalMktDate Business date.												
1301	MarketID	N	N	N	Exchange Market Identifier Code of the trading market according to ISO 10383.												
1324	ListUpdateAction	Y	Y	Y	Char Invocation or release of a control event. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add (Invocation)</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>D</td> <td>Delete (Release)</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	A	Add (Invocation)	✓	✓	D	Delete (Release)	✓	✓
Value	Description	D	C														
A	Add (Invocation)	✓	✓														
D	Delete (Release)	✓	✓														
1672	PartyDetailStatus	Y	Y	Y	Int (1) Member status. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Active</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Suspended</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Active	✓	✓	1	Suspended	✓	✓
Value	Description	D	C														
0	Active	✓	✓														
1	Suspended	✓	✓														
30060	UTransactTime	Y	Y	Y	Int (20) Transaction timestamp which provides date and time in UTC, represented as nanoseconds past the UNIX epoch (00:00:00 UTC on 1 January 1970).												
<b>&lt;Standard Trailer&gt;</b>																	

### 6.12.8 Party Action Report

User Party Action Report. This message communicates risk control events of type halt-trading and re-instate. Events will be entered via the T7 Admin GUI.

Tag	Field Name	R	D	C	Description												
<b>&lt;Standard Header&gt;</b>																	
35	MsgType	Y	Y	Y	'UDI' = User Party Action Report												
<b>&lt;Message Body&gt;</b>																	
<b>&lt;Parties&gt;</b>		Y	Y	Y	Party Information.												
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block (used only in FIX 4.4).												
<b>&lt;executing unit&gt;</b>		Y	Y	Y	Executing unit information.												
<b>&lt;executing trader&gt;</b>		N	N	N	Trader identification.												
<b>end &lt;Parties&gt;</b>																	
<b>&lt;RequestingParties&gt;</b>		Y	Y	Y	Requesting Parties Information.												
1657	NoRequestingPartyIDs	Y	Y	Y	NumInGrp Number of requesting party identifiers. Only in FIX 4.4.												
<b>&lt;requesting executing trader&gt;</b>		N	N	N	Requesting executing trader information.												
<b>&lt;requesting executing system&gt;</b>		N	N	N	Source of request (2 = T7 Trading System).												
<b>&lt;requesting entering firm&gt;</b>		Y	Y	Y	Entering Entity ID. 1 = Participant 2 = Market Supervision												
<b>end &lt;RequestingParties&gt;</b>																	
60	TransactTime	N	N	N	UTC Timestamp Transaction time.												
75	TradeDate	N	N	N	LocalMktDate Business date.												
1301	MarketID	N	N	N	Exchange Market Identifier Code of the trading market according to ISO 10383.												
2329	PartyActionType	Y	Y	Y	Int (1) Party Action Type. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Halt Trading</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Reinstate</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Halt Trading	✓	✓	2	Reinstate	✓	✓
Value	Description	D	C														
1	Halt Trading	✓	✓														
2	Reinstate	✓	✓														
2331	PartyActionReportID	Y	Y	Y	String (30) Unique-ID.												

... continued ...

Tag	Field Name	R	D	C	Description								
2332	PartyActionResponse	Y	Y	Y	Int (1) Constant value 1 ("Completed").								
					<table border="1"><thead><tr><th>Value</th><th>Description</th><th>D</th><th>C</th></tr></thead><tbody><tr><td>1</td><td>Completed</td><td>✓</td><td>✓</td></tr></tbody></table>	Value	Description	D	C	1	Completed	✓	✓
Value	Description	D	C										
1	Completed	✓	✓										

<Standard Trailer>

## 6.13 Components

### 6.13.1 <Instrument>

The <Instrument> component block comprises all fields required for security identification. For messages operating on product level - like the Order Mass Action Request - only Symbol(55) will be necessary, whereas messages operating on instrument level will also need SecurityID(48) and SecurityIDSource(22).

Tag	Field Name	R	D	C	Description												
<Instrument>																	
55	Symbol	Y	Y	Y	String (10) Unique identifier for a T7 product.  <u>T7 Cash</u> : If the ISIN is used as instrument identifier in the FIX request (SecurityIDSource (22) = "4" (ISIN)), the product identifier is allowed but not required. If no product identifier is provided Symbol (55) must contain "[N/A]".												
48	SecurityID	N	N	N	String (20) Instrument identifier. Required for order messages. Use "[N/A]" for SecurityDefinitionRequests (c). Field will not be set for messages operating on product level.												
22	SecurityIDSource	N	N	N	String (1) Identifies class or source of the SecurityID (48) value. Required if SecurityID (48) is specified. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>ISIN</td> <td></td> <td>✓</td> </tr> <tr> <td>M</td> <td>Marketplace-assigned identifier</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	4	ISIN		✓	M	Marketplace-assigned identifier	✓	✓
Value	Description	D	C														
4	ISIN		✓														
M	Marketplace-assigned identifier	✓	✓														

... continued ...

Tag	Field Name	R	D	C	Description																																												
1227	ProductComplex	N	N		<p>Int (2) This field qualifies an instrument type on T7 Derivatives. Must be set to "1" in case of a single leg instrument. Will not be allowed in the requests UserOrderMassActionRequest (UCA) and CrossRequest (UDS).</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Simple Instrument</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Standard Option Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Non-standard Option Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>4</td> <td>Volatility Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>5</td> <td>Futures Spread</td> <td>✓</td> <td></td> </tr> <tr> <td>6</td> <td>Inter Product Spread</td> <td>✓</td> <td></td> </tr> <tr> <td>7</td> <td>Standard Future Strategy</td> <td>✓</td> <td></td> </tr> <tr> <td>8</td> <td>Pack and Bundle</td> <td>✓</td> <td></td> </tr> <tr> <td>9</td> <td>Strip</td> <td>✓</td> <td></td> </tr> <tr> <td>10</td> <td>Flexible Simple Instrument (used only for TES trades)</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	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 (used only for TES trades)	✓	
Value	Description	D	C																																														
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 (used only for TES trades)	✓																																															
167	SecurityType	N	N		<p>String (4) Indicates the type of security.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>MLEG</td> <td>Multileg Instrument</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	MLEG	Multileg Instrument	✓																																					
Value	Description	D	C																																														
MLEG	Multileg Instrument	✓																																															
762	SecuritySubType	N	N		<p>Int (10) Strategy type. Please refer to functional product and instrument files on the Eurex website <a href="http://www.eurexchange.com">www.eurexchange.com</a>. Usage is restricted to SecurityDefinitionRequest (c) and SecurityDefinition (d) messages. Field must be present in case of a futures spread, option combination or strategy.</p>																																												
454	NoSecurityAltID	N		N	<p>NumInGroup Number of SecurityAltID (455) entries.</p>																																												
455	SecurityAltID	N		N	<p>Int (20) Alternative instrument identifier (numeric identifier).</p>																																												
456	SecurityAltIDSource	N		N	<p>String (1) Identifies class or source of the SecurityAltID (455) value. Required if SecurityAltID (455) is specified.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>M</td> <td>Marketplace-assigned identifier</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	M	Marketplace-assigned identifier		✓																																				
Value	Description	D	C																																														
M	Marketplace-assigned identifier		✓																																														

... continued ...

Tag	Field Name	R	D	C	Description																																
223	CouponRate	N		N	Percentage (12.7) The rate of interest that, when multiplied by the principal, par value, or face value of a bond, provides the currency amount of the periodic interest payment. The coupon is always cited, along with maturity, in any quotation of a bond's price.																																
28890	DeliveryType	N		N	Int (1) Identifies type of settlement. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Auslandskassenverein (AKV)</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Girosammelverwahrung (GS)</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Streifbandverwahrung (STR)</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Wertpapierrechnung (WPR)</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Non-collective safe custody securities to be settled via T2S (AKT)</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Auslandskassenverein (AKV)		✓	2	Girosammelverwahrung (GS)		✓	3	Streifbandverwahrung (STR)		✓	4	Wertpapierrechnung (WPR)		✓	5	Non-collective safe custody securities to be settled via T2S (AKT)		✓								
Value	Description	D	C																																		
1	Auslandskassenverein (AKV)		✓																																		
2	Girosammelverwahrung (GS)		✓																																		
3	Streifbandverwahrung (STR)		✓																																		
4	Wertpapierrechnung (WPR)		✓																																		
5	Non-collective safe custody securities to be settled via T2S (AKT)		✓																																		
28896	LastCouponDeviation-Indicator	N		N	Int (1) Last coupon deviation indicator. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Short period</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Long period</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Only one coupon</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Short - two interest payments due</td> <td></td> <td>✓</td> </tr> <tr> <td>5</td> <td>Long - two interest payments due</td> <td></td> <td>✓</td> </tr> <tr> <td>6</td> <td>Perpetual</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	None		✓	1	Short period		✓	2	Long period		✓	3	Only one coupon		✓	4	Short - two interest payments due		✓	5	Long - two interest payments due		✓	6	Perpetual		✓
Value	Description	D	C																																		
0	None		✓																																		
1	Short period		✓																																		
2	Long period		✓																																		
3	Only one coupon		✓																																		
4	Short - two interest payments due		✓																																		
5	Long - two interest payments due		✓																																		
6	Perpetual		✓																																		
28897	RefinancingEligibility-Indicator	N		N	Int (1) Ability of a security to be accepted for refinancing. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No</td> <td></td> <td>✓</td> </tr> <tr> <td>1</td> <td>Yes</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	No		✓	1	Yes		✓																				
Value	Description	D	C																																		
0	No		✓																																		
1	Yes		✓																																		

end <Instrument>



**6.13.2 <TrdgSesGrp>**

The Trading Session Group is used to identify an order for a special trading phase.

Tag	Field Name	R	D	C	Description																								
<TrdgSesGrp>																													
386	NoTradingSessions	Y	Y	Y	NumInGrp Number of TradingSessionIDs (336) in repeating group.																								
336	TradingSessionID	Y	Y	Y	String (1) Identifier for trading session. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Day</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Day	✓	✓																
Value	Description	D	C																										
1	Day	✓	✓																										
625	TradingSessionSubID	Y	Y	Y	String (3) This field marks orders for a special trading phase. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Opening auction</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Closing auction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>6</td> <td>Scheduled intraday auction only</td> <td></td> <td>✓</td> </tr> <tr> <td>8</td> <td>Auction only</td> <td></td> <td>✓</td> </tr> <tr> <td>105</td> <td>Special auction</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Opening auction		✓	4	Closing auction	✓	✓	6	Scheduled intraday auction only		✓	8	Auction only		✓	105	Special auction		✓
Value	Description	D	C																										
2	Opening auction		✓																										
4	Closing auction	✓	✓																										
6	Scheduled intraday auction only		✓																										
8	Auction only		✓																										
105	Special auction		✓																										
end <TrdgSesGrp>																													

**6.13.3 <MtchgInst>**

Matching Instructions for using the Self Match Prevention functionality.

Tag	Field Name	R	D	C	Description								
<MtchgInst>													
1624	NoMatchInst	Y	Y	Y	NumInGrp Number of Instructions. Only one occurrence.								
1625	MatchInst	Y	Y	Y	Int (1) Matching Instruction for the order. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Do not match</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	2	Do not match	✓	✓
Value	Description	D	C										
2	Do not match	✓	✓										
28744	MatchInstCrossID	Y	Y	Y	Int (10) Numeric identifier. Contains the Self Match Prevention ID.								
end <MtchgInst>													

**6.13.4 <NotAffectedOrdersGrp>**

The group of Not Affected Orders informs about orders in status “pending delete” due to a mass cancellation event. These are orders that couldn’t be canceled due to an incompatible instrument state.

Tag	Field Name	R	D	C	Description
<NotAffectedOrdersGrp>					
1370	NoNotAffectedOrders	Y	Y	Y	NumInGroup Number of not affected orders in the repeating group of order ids. Values in the range 1 to 500 are possible.
1372	NotAffOrigClOrdID	Y	Y	Y	String (20) FIX Client Order ID of an order whose cancellation is pending.
1371	NotAffectedOrderID	Y	Y	Y	Int (20) Exchange Order ID of an order whose cancellation is pending.
end <NotAffectedOrdersGrp>					

**6.13.5 <AffectedOrdersGrp>**

The group of Affected Orders informs about persistent orders that were deleted due to a mass cancellation event.

Tag	Field Name	R	D	C	Description
<AffectedOrdersGrp>					
534	NoAffectedOrders	Y		Y	NumInGroup Number of affected orders in the repeating group of order ids. Values in the range 1 to 500 are possible.
1824	AffectedOrigClOrdID	Y		Y	String (20) FIX Client Order ID of a persistent order deleted due to a mass cancellation.
535	AffectedOrderID	Y		Y	Int (20) Exchange Order ID of a persistent order deleted due to a mass cancellation.
end <AffectedOrdersGrp>					

**6.13.6 <QuoteReqGrp>**

The Quote Request Group provides details of the quote request.

Tag	Field Name	R	D	C	Description												
<QuoteReqGrp>																	
146	NoRelatedSym	Y	Y	Y	NumInGroup Specifies the number of repeating symbols specified. Only one occurrence.												
<Instrument>																	
54	Side	N	N	N	Char Side. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓	✓	2	Sell	✓	✓
Value	Description	D	C														
1	Buy	✓	✓														
2	Sell	✓	✓														
38	OrderQty	N	N	N	Qty (15.4) Total Order Quantity.												
15	Currency	N		N	Currency Currency used for price. The combination of an ISIN with a defined currency will identify uniquely an instrument.  The currency is required if SecurityIDSource (22) = 4 (ISIN) for ISINs traded in more than one currency. For such ISINs, if the field is missing, the value EUR (Euro) will be assumed. Field will be ignored if SecurityIDSource (22) = M (Marketplace assigned identifier).												
<Parties>																	
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block.												
<entering trader>																	
		Y	Y	Y	Entering User ID.												
end <Parties>																	
end <QuoteReqGrp>																	

### 6.13.7 <Parties>

The <Parties> component block comprises all parties participating in a transaction.

#### **Trade messages:**

For *User/TradeCaptureReport (UAE/AE)* messages the same structure will be used for both FIX version, FIX 4.2 and FIX 4.4.

Some of the parties will be delivered as occurrences of the parties repeating group, for other parties separate fields will be defined. Details are documented in **chapter 6.13.7.3 Trade Capture Report: Party Information**.

#### **Cross Request:**

For *CrossRequest (UDS)* messages the same structure will be used for both FIX versions, FIX 4.2 and FIX 4.4.

The parties will be delivered as occurrences of the parties repeating group. Details are documented in **chapter 6.13.7.4 Cross Request: Party Information**.

#### **Security Status Definition Request:**

For *SecurityStatusDefinitionRequest (U27)* messages the same structure will be used for both FIX versions, FIX 4.2 and FIX 4.4.

The parties will be delivered as occurrences of the parties repeating group.

#### **User Party Risk Limits Request:**

For *UserPartyRiskLimitsRequest (UCL)* messages the same structure will be used for both FIX versions, FIX 4.2 and FIX 4.4.

The parties will be delivered as occurrences of the parties repeating group.

#### **Order management and other application messages:**

For each party a separate occurrence of the repeating group will be set up for FIX 4.4.

For FIX 4.2 a separate field will be defined for each party.

Details are documented in **chapter 6.13.7.2 Order Management and Other Messages: Party Information**.

### 6.13.7.1 Party Component Block

The following structure of the party component block is used for FIX 4.2 and 4.4 in the messages *User/TradeCaptureReport (UAE/AE)*, *CrossRequest (UDS)*, *UserPartyRiskLimitsRequest (UCL)* and *SecurityStatusDefinitionRequest (U27)*. For other messages the structure is used only for FIX 4.4.

Tag	Field Name	R	D	C	Description																
<Parties>																					
453	NoPartyIDs	Y	Y	Y	NumInGroup Number of parties in the party component block.																
448	PartyID	Y	Y	Y	String (35) Party identifier/code. See PartyIDSource (447) and PartyRole (452).																
447	PartyIDSource	Y	Y	Y	Char Identifies class or source of the PartyID (448) value. Required if PartyID is specified.																
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>H</td> <td>Kassenverein number</td> <td></td> <td>✓</td> </tr> <tr> <td>P</td> <td>Short code identifier</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>						Value	Description	D	C	D	Proprietary custom code	✓	✓	H	Kassenverein number		✓	P	Short code identifier	✓	✓
Value	Description	D	C																		
D	Proprietary custom code	✓	✓																		
H	Kassenverein number		✓																		
P	Short code identifier	✓	✓																		

... continued ...

Tag	Field Name	R	D	C	Description																																																																																												
452	PartyRole	Y	Y	Y	String (2) Party Role.																																																																																												
					<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Executing firm</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Client ID</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>Clearing firm</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>7</td> <td>Entering firm</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>10</td> <td>Settlement location</td> <td></td> <td>✓</td> </tr> <tr> <td>12</td> <td>Executing trader</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>13</td> <td>Order origination firm</td> <td>✓</td> <td></td> </tr> <tr> <td>16</td> <td>Executing system</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>17</td> <td>Contra firm</td> <td>✓</td> <td></td> </tr> <tr> <td>21</td> <td>Clearing organization</td> <td>✓</td> <td></td> </tr> <tr> <td>32</td> <td>Beneficiary</td> <td>✓</td> <td></td> </tr> <tr> <td>36</td> <td>Entering trader</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>37</td> <td>Contra trader</td> <td>✓</td> <td></td> </tr> <tr> <td>38</td> <td>Position account</td> <td>✓</td> <td></td> </tr> <tr> <td>55</td> <td>Session ID</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>59</td> <td>Executing unit</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>66</td> <td>Market Maker</td> <td></td> <td>✓</td> </tr> <tr> <td>75</td> <td>Location ID</td> <td>✓</td> <td></td> </tr> <tr> <td>90</td> <td>Settlement Firm</td> <td></td> <td>✓</td> </tr> <tr> <td>91</td> <td>Settlement Account</td> <td></td> <td>✓</td> </tr> <tr> <td>96</td> <td>Take-up (trading) firm</td> <td>✓</td> <td></td> </tr> <tr> <td>122</td> <td>Investment decision maker</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Executing firm	✓	✓	3	Client ID	✓	✓	4	Clearing firm	✓	✓	7	Entering firm	✓	✓	10	Settlement location		✓	12	Executing trader	✓	✓	13	Order origination firm	✓		16	Executing system	✓	✓	17	Contra firm	✓		21	Clearing organization	✓		32	Beneficiary	✓		36	Entering trader	✓	✓	37	Contra trader	✓		38	Position account	✓		55	Session ID	✓	✓	59	Executing unit	✓	✓	66	Market Maker		✓	75	Location ID	✓		90	Settlement Firm		✓	91	Settlement Account		✓	96	Take-up (trading) firm	✓		122	Investment decision maker	✓	✓
Value	Description	D	C																																																																																														
1	Executing firm	✓	✓																																																																																														
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10	Settlement location		✓																																																																																														
12	Executing trader	✓	✓																																																																																														
13	Order origination firm	✓																																																																																															
16	Executing system	✓	✓																																																																																														
17	Contra firm	✓																																																																																															
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36	Entering trader	✓	✓																																																																																														
37	Contra trader	✓																																																																																															
38	Position account	✓																																																																																															
55	Session ID	✓	✓																																																																																														
59	Executing unit	✓	✓																																																																																														
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96	Take-up (trading) firm	✓																																																																																															
122	Investment decision maker	✓	✓																																																																																														

... continued ...

Tag	Field Name	R	D	C	Description																
2376	PartyRoleQualifier	N	N	N	<p>Int (2) Indicates the nature of value submitted in the field PartyID (448).</p> <p>PartyRoleQualifier (2376) = 21 (Specialist) and 22 (Algorithm) are only possible together with PartyIDSource (447) = "D". PartyRoleQualifier (2376) = 24 (Natural person) is only possible together with PartyIDSource (447) = "P".</p> <p>PartyRoleQualifier (2376) = 21 (Specialist) is not allowed in request messages.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>Specialist</td> <td></td> <td>✓</td> </tr> <tr> <td>22</td> <td>Algorithm</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>24</td> <td>Natural person</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	21	Specialist		✓	22	Algorithm	✓	✓	24	Natural person	✓	✓
Value	Description	D	C																		
21	Specialist		✓																		
22	Algorithm	✓	✓																		
24	Natural person	✓	✓																		
802	NoPartySubIDs	N	N	N	<p>NumInGrp Number of PartySubIDs. Only one entry. Only in combination with PartyRole (452) = 7 (Entering firm), 12 (Executing trader) and 36 (Entering trader) possible.</p>																
523	PartySubID	N	C	C	<p>String (6) Firm or Trader Short Name, depending on the value of the field PartySubIDType (803).</p>																
803	PartySubIDType	N	C	C	<p>String (1) Type of PartySubID.</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Firm</td> <td></td> <td>✓</td> </tr> <tr> <td>2</td> <td>Person</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Firm		✓	2	Person	✓	✓				
Value	Description	D	C																		
1	Firm		✓																		
2	Person	✓	✓																		

end <Parties>

### 6.13.7.2 Order Management and Other Messages: Party Information

For each party a separate occurrence of the repeating group will be set up for FIX 4.4.

In FIX 4.2 a separate field will be defined for each party.

In FIX 4.4 the party identifier is delivered in the field *PartyRole* (452), the corresponding Party in the field *PartyID* (448).

Note: In FIX 4.4 the parties <execution identifier> and <investment identifier> require the field *PartyRoleQualifier* (2376) as additional identification criterion. Only for these parties it is possible to use the *PartyRoleQualifier* (2376) without setting a particular *PartyID* (448) (set *PartyID* (448) = “[N/A]”).

Party	Tag and Field for FIX 4.2	PartyRole (452) for FIX 4.4	PartyIDSource (447) for FIX 4.4
<client id>	- PartyIDClientID (20003)	3 = Client id	- P = Short code identifier
<clearing firm>	- ClearingFirm (439)	4 = Clearing firm	- D = Proprietary custom code
<entering firm>	- PartyIDEnteringFirm (20007) - PartyEnteringFirm (22007)	7 = Entering firm  Additionally (optional): PartySubID (523) with PartySubIDType (803) = 1 (Firm)	- D = Proprietary custom code
<executing trader>	- PartyIDExecutingTrader (20012)	12 = Executing trader	- D = Proprietary custom code
<execution identifier>	- ExecutingTrader (25123) - ExecutingTraderQualifier (25124)	12 = Executing trader	- D = Proprietary custom code (only in combination with <i>PartyRoleQualifier</i> (2376) = “22”) - P = Short code identifier (only in combination with <i>PartyRoleQualifier</i> (2376) = “24”)
<order origination firm>	- PartyIDOrder-OriginationFirm (20013)	13 = Order origination firm	- D = Proprietary custom code
<executing system>	- PartyIDExecutingSystem (20016)	16 = Executing system	- D = Proprietary custom code
<beneficiary>	- PartyIDBeneficiary (20032)	32 = Beneficiary	- D = Proprietary custom code
<entering trader>	- PartyIDEnteringTrader (20036) - PartyEnteringTrader (22036)	36 = Entering trader  Additionally (optional): PartySubID (523) with PartySubIDType (803) = 2 (Person)	- D = Proprietary custom code
<position account>	- PartyIDPositionAccount (20038)	38 = Position account	- D = Proprietary custom code
<session ID>	- PartyIDSessionID (20055)	55 = Session ID	- D = Proprietary custom code



... continued ...

Party	Tag and Field for FIX 4.2	PartyRole (452) for FIX 4.4	PartyIDSource (447) for FIX 4.4
<executing unit>	- PartyIDExecutingUnit (20059)	59 = Executing unit	- D = Proprietary custom code
<location ID>	- PartyIDLocationID (20075)	75 = Location ID	- D = Proprietary custom code
<takeup firm>	- PartyIDTakeUpTrading-Firm (20096)	96 = Take-up (trading) firm	- D = Proprietary custom code
<investment identifier>	- PartyIDInvestment-DecisionMaker (20122) - PartyIDInvestment-DecisionMakerQualifier (21222)	122 = Investment decision maker	- D = Proprietary custom code (only in combination with PartyRoleQualifier (2376) = "22") - P = Short code identifier (only in combination with PartyRoleQualifier (2376) = "24")

### 6.13.7.3 Trade Capture Report: Party Information

For *User/TradeCaptureReport (UAE/AE)* messages the same structure will be used for both FIX versions, FIX 4.2 and FIX 4.4.

The entries for the executing trader (*PartyRole (452) = 12 (Executing Trader)*) and the specialist trader (*PartyRole (452) = 66 (Market Maker)*) contain two parties:

- User ID: field *PartyID (448)*
- User Short Name: field *PartySubID (523)* with *PartySubIDType (803) = 2 (Person)*

Party	Party Field	PartyRole (452)	PartyIDSource (447)
<tcr executing firm>	PartyID (448)	1 = Executing firm	D = Proprietary custom code
<tcr executing firm kvno>	PartyID (448)	1 = Executing firm	H = Kassenverein number
<tcr specialist firm>	PartyID (448)	1 = Executing firm	D = Proprietary custom code (in combination with PartyRoleQualifier (2376) = "21")
<tcr client id>	PartyID (448)	3 = Client ID	D = Proprietary custom code
<tcr clearing firm>	PartyID (448)	4 = Clearing firm	D = Proprietary custom code
<tcr entering firm>	PartyID (448)	7 = Entering firm	D = Proprietary custom code
<tcr settlement location>	PartyID (448)	10 = Settlement location	D = Proprietary custom code
<tcr executing trader>	PartyID (448)  Additionally: Party-SubID (523) with PartySubIDType (803) = 2 (Person)	12 = Executing trader	D = Proprietary custom code
<tcr execution identifier>	PartyID (448)	12 = Executing trader	- D = Proprietary custom code (only in combination with PartyRoleQualifier (2376) = "22")  - P = Short code identifier (only in combination with PartyRoleQualifier (2376) = "24")
<tcr order origination firm>	PartyID (448)	13 = Order origination firm	D = Proprietary custom code
<tcr clearing organization>	PartyID (448)	21 = Clearing organization	D = Proprietary custom code
<tcr beneficiary>	PartyID (448)	32 = Beneficiary	D = Proprietary custom code
<tcr entering trader>	PartyID (448)	36 = Entering trader	D = Proprietary custom code

... continued ...

Party	Party Field	PartyRole (452)	PartyIDSource (447)
<tcr position account>	PartyID (448)	38 = Position account	D = Proprietary custom code
<tcr session ID>	PartyID (448)	55 = Session ID	D = Proprietary custom code
<tcr executing unit>	PartyID (448)	59 = Executing unit	D = Proprietary custom code
<tcr specialist trader>	PartyID (448)  Additionally: Party-SubID (523) with PartySubIDType (803) = 2 (Person)	66 = Market Maker	D = Proprietary custom code (in combination with PartyRoleQualifier (2376) = "21")
<tcr settlement firm>	PartyID (448)	90 = Settlement firm	D = Proprietary custom code
<tcr settlement account>	PartyID (448)	91 = Settlement account	D = Proprietary custom code
<tcr takeup firm>	PartyID (448)	96 = Take-up (trading) firm	D = Proprietary custom code
<tcr investment identifier>	PartyID (448)	122 = Investment decision maker	- D = Proprietary custom code (only in combination with PartyRoleQualifier (2376) = "22")  - P = Short code identifier (only in combination with PartyRoleQualifier (2376) = "24")
<tcr clearing unit>	PartyIDClearingUnit (25027)	-	-
<tcr settlement unit>	PartyIDSettlementUnit (25120)	-	-

### 6.13.7.4 Cross Request: Party Information

For *CrossRequest (UDS)* messages the same structure will be used for both FIX versions, FIX 4.2 and FIX 4.4.

Party	Party Field	PartyRole (452)	PartyIDSource (447)
<uds client id>	PartyID (448)	3 = Client ID	D = Proprietary custom code
<uds execution identifier>	PartyID (448)	12 = Executing trader	- D = Proprietary custom code (only in combination with PartyRoleQualifier (2376) = "22") - P = Short code identifier (only in combination with PartyRoleQualifier (2376) = "24")
<uds order origination firm>	PartyID (448)	13 = Order origination firm	D = Proprietary custom code
<uds contra firm>	PartyID (448)	17 = Contra firm	D = Proprietary custom code
<uds beneficiary>	PartyID (448)	32 = Beneficiary	D = Proprietary custom code
<uds contra trader>	PartyID (448)	37 = Contra trader	D = Proprietary custom code
<uds position account>	PartyID (448)	38 = Position account	D = Proprietary custom code
<uds location ID>	PartyID (448)	75 = Location ID	D = Proprietary custom code
<uds takeup firm>	PartyID (448)	96 = Take-up (trading) firm	D = Proprietary custom code
<uds investment identifier>	PartyID (448)	122 = Investment decision maker	- D = Proprietary custom code (only in combination with PartyRoleQualifier (2376) = "22") - P = Short code identifier (only in combination with PartyRoleQualifier (2376) = "24")

### 6.13.8 <RootParties>

The RootParty component block is used for FIX 4.2 and 4.4 in the User/TradeCaptureReport (UAE/AE) and Cross-Request (UDS) messages.

Tag	Field Name	R	D	C	Description																				
<RootParties>																									
1116	NoRootPartyIDs	Y	Y	Y	NumInGroup Number of root parties involved.																				
1117	RootPartyID	Y	Y	Y	String (10) Root party identifier.																				
1118	RootPartyIDSource	Y	Y	Y	Char Identifies class or source of the RootPartyID (1117) value. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>G</td> <td>Market identifier code</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	D	Proprietary custom code	✓	✓	G	Market identifier code	✓	✓								
Value	Description	D	C																						
D	Proprietary custom code	✓	✓																						
G	Market identifier code	✓	✓																						
1119	RootPartyRole	Y	Y	Y	String (2) Identifies the type role of the RootPartyID (1117) specified. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Executing firm</td> <td></td> <td>✓</td> </tr> <tr> <td>12</td> <td>Executing trader</td> <td></td> <td>✓</td> </tr> <tr> <td>36</td> <td>Entering trader</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>73</td> <td>Execution venue</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Executing firm		✓	12	Executing trader		✓	36	Entering trader	✓	✓	73	Execution venue	✓	✓
Value	Description	D	C																						
1	Executing firm		✓																						
12	Executing trader		✓																						
36	Entering trader	✓	✓																						
73	Execution venue	✓	✓																						
end <RootParties>																									

#### 6.13.8.1 Root Parties

A Root Party component block will be present in the FIX versions 4.2 and 4.4.

Root Party	RootPartyIDSource (1118)	RootPartyRole (1119)
<root executing firm>	D = Proprietary custom code	1 = Executing firm
<root executing trader>	D = Proprietary custom code	12 = Executing trader
<root entering trader>	D = Proprietary custom code	36 = Entering trader
<root execution venue>	G = Market identifier code	73 = Execution venue

### 6.13.9 <NestedParties2>

The NestedParty2 component block is used for FIX 4.2 and 4.4 in the component block <TrdCapRptSideGrp> of the User/TradeCaptureReport (UAE/AE) message.

Tag	Field Name	R	D	C	Description												
<NestedParties2>																	
756	NoNested2PartyIDs	Y		Y	NumInGroup Number of parties involved.												
757	Nested2PartyID	Y		Y	String (35) Party identifier/code.												
758	Nested2PartyIDSource	Y		Y	Char Identifies class or source of the Nested2PartyID (757) value. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	D	Proprietary custom code		✓				
Value	Description	D	C														
D	Proprietary custom code		✓														
759	Nested2PartyRole	Y		Y	String (2) Party Role. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Executing firm</td> <td></td> <td>✓</td> </tr> <tr> <td>12</td> <td>Executing trader</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Executing firm		✓	12	Executing trader		✓
Value	Description	D	C														
1	Executing firm		✓														
12	Executing trader		✓														
end <NestedParties2>																	

#### 6.13.9.1 NestedParty2 Roles

A NestedParty2 component block will be present in the FIX versions 4.2 and 4.4.

Party	Nested2PartyRole (759)
<nested executing firm>	1 = Executing firm
<nested executing trader>	12 = Executing trader

### 6.13.10 <TargetParties>

The Target Party component block implemented for sessions running version 4.4 cannot be set up for version 4.2 sessions.

#### 6.13.10.1 Target Party Component Block for FIX 4.4

Tag	Field Name	R	D	C	Description								
<TargetParties>													
1461	NoTargetPartyIDs	Y	Y	Y	NumInGroup Identifies the number of target parties identified in a mass action. Only in FIX 4.4.								
1462	TargetPartyID	Y	Y	Y	Int (10) PartyID value within an target party repeating group.								
1463	TargetPartyIDSource	Y	Y	Y	Char PartyIDSource value within an target party repeating group. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	D	Proprietary custom code	✓	✓
Value	Description	D	C										
D	Proprietary custom code	✓	✓										
1464	TargetPartyRole	Y	Y	Y	Int (2) PartyRole value within a target party repeating group. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>Executing trader</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	12	Executing trader	✓	✓
Value	Description	D	C										
12	Executing trader	✓	✓										
end <TargetParties>													

#### 6.13.10.2 Target Party Field for FIX 4.2 / Target Party Roles for FIX 4.4

A Target Party component block will not be present in the version 4.2. The party <target executing trader> will be mapped to tag 20612 *TargetPartyIDExecutingTrader*

Party	Tag and Field for FIX 4.2	TargetPartyRole (1464) for FIX 4.4
<target executing trader>	TargetPartyIDExecutingTrader (20612)	12 = Executing trader

### 6.13.11 <RequestingParties>

The Requesting Party component block implemented for sessions running version 4.4 cannot be set up for version 4.2 sessions.

#### 6.13.11.1 Requesting Party Component Block for FIX 4.4

A Requesting Party component block will not be present in the version 4.2. The parties will be mapped to single tags, which will solely carry the RequestingPartyID information

Tag	Field Name	R	D	C	Description																
<RequestingParties>																					
1657	NoRequestingPartyIDs	Y	Y	Y	NumInGrp Number of requesting party identifiers. Only in FIX 4.4.																
1658	RequestingPartyID	Y	Y	Y	Int (10) Party identifier for the requesting party.																
1659	RequestingPartyIDSource	Y	Y	Y	Char Identifies the source of the RequestingPartyID (1658) value. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Proprietary custom code</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	D	Proprietary custom code	✓	✓								
Value	Description	D	C																		
D	Proprietary custom code	✓	✓																		
1660	RequestingPartyRole	Y	Y	Y	Int (2) Identifies the type or role of the RequestingPartyID (1658) specified. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>Entering firm</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>12</td> <td>Executing trader</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>16</td> <td>Executing system</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	7	Entering firm	✓	✓	12	Executing trader	✓	✓	16	Executing system	✓	✓
Value	Description	D	C																		
7	Entering firm	✓	✓																		
12	Executing trader	✓	✓																		
16	Executing system	✓	✓																		
end <RequestingParties>																					

#### 6.13.11.2 Requesting Party Fields for FIX 4.2 / Requesting Party Roles for FIX 4.4

A Requesting Party component block will not be present in the version 4.2. The parties will be mapped to single tags, which will solely carry the RequestingPartyID information.

Party	Tag and Field for FIX 4.2	RequestingPartyRole (1660) for FIX 4.4
<requesting entering firm>	RequestingPartyIDEnteringFirm (20807)	7 = Entering firm
<requesting executing trader>	RequestingPartyIDExecutingTrader (20812)	12 = Executing trader
<requesting executing system>	RequestingPartyIDExecutingSystem (20816)	16 = Executing system



**6.13.12 <InstrmtLegGrp>**

The Instrument Leg Group is used for the creation of a Eurex strategy.

Tag	Field Name	R	D	C	Description												
<InstrmtLegGrp>																	
555	NoLegs	Y	Y		NumInGroup Number of InstrumentLeg repeating group instances.												
600	LegSymbol	Y	Y		String (10) Product identifier of the leg security (only applicable for underlying leg). Use "[N/A]" for option legs.												
602	LegSecurityID	Y	Y		Int (20) Instrument identifier of the leg security.												
609	LegSecurityType	Y	Y		Int (1) Indicates type of leg. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Multileg Instrument</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Underlying Leg</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Multileg Instrument	✓		2	Underlying Leg	✓	
Value	Description	D	C														
1	Multileg Instrument	✓															
2	Underlying Leg	✓															
623	LegRatioQty	Y	Y		Qty (10.0) The ratio of quantity for this individual leg relative to the entire multileg security.												
624	LegSide	Y	Y		Char The side of the individual leg of a strategy. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Buy</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Sell</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Buy	✓		2	Sell	✓	
Value	Description	D	C														
1	Buy	✓															
2	Sell	✓															
566	LegPrice	N	N		Price (11.8) Strategy leg underlying price (only applicable for underlying leg).												
end <InstrmtLegGrp>																	

**6.13.13 <InstrmtLegExecGrp>**

The Executed Order Leg Group contains the fill information for each leg of Multileg Order.

Tag	Field Name	R	D	C	Description																				
<InstrmtLegExecGrp>																									
555	NoLegs	Y	Y		NumInGroup Number of InstrumentLeg repeating group instances.																				
600	LegSymbol	Y	Y		String (10) Product identifier of the leg security (only applicable for underlying leg). Use "[N/A]" for option legs.																				
602	LegSecurityID	N	C		Int (20) Instrument identifier of the leg security.																				
2680	LegAccount	N	C		String Leg-specific account to book trades and keep positions on. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>A1 - A9</td> <td>Agent account one to nine</td> <td>✓</td> <td></td> </tr> <tr> <td>G1 and G2</td> <td>Give-up account one and two</td> <td>✓</td> <td></td> </tr> <tr> <td>M1 and M2</td> <td>Market Maker account one and two</td> <td>✓</td> <td></td> </tr> <tr> <td>P1 and P2</td> <td>Proprietary account one and two</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	A1 - A9	Agent account one to nine	✓		G1 and G2	Give-up account one and two	✓		M1 and M2	Market Maker account one and two	✓		P1 and P2	Proprietary account one and two	✓	
Value	Description	D	C																						
A1 - A9	Agent account one to nine	✓																							
G1 and G2	Give-up account one and two	✓																							
M1 and M2	Market Maker account one and two	✓																							
P1 and P2	Proprietary account one and two	✓																							
564	LegPositionEffect	N	C		Char Leg-specific field used for Derivatives position management purposes and indicates whether the leg is submitted to open or close a position.																				
637	LegLastPx	N	C		Price Price of this leg fill.																				
1418	LegLastQty	N	C		Qty Quantity executed in this leg fill.																				
1893	LegExecID	N	C		Int Private identifier of a leg match event, which can be reconciled with the field SideTradeID (1506) in the User/TradeCaptureReport (UAE/AE).																				
end <InstrmtLegExecGrp>																									

**6.13.14 <LegOrdGrp>**

The Order Leg Group is used to specify clearing attributes for the legs of a Multileg Order.

Tag	Field Name	R	D	C	Description																				
<LegOrdGrp>																									
555	NoLegs	Y	Y		NumInGroup Number of InstrumentLeg repeating group instances.																				
2680	LegAccount	Y	Y		String Leg-specific account to book trades and keep positions on. Use "[N/A]" for no account. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>A1 - A9</td> <td>Agent account one to nine</td> <td>✓</td> <td></td> </tr> <tr> <td>G1 and G2</td> <td>Give-up account one and two</td> <td>✓</td> <td></td> </tr> <tr> <td>M1 and M2</td> <td>Market Maker account one and two</td> <td>✓</td> <td></td> </tr> <tr> <td>P1 and P2</td> <td>Proprietary account one and two</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	A1 - A9	Agent account one to nine	✓		G1 and G2	Give-up account one and two	✓		M1 and M2	Market Maker account one and two	✓		P1 and P2	Proprietary account one and two	✓	
Value	Description	D	C																						
A1 - A9	Agent account one to nine	✓																							
G1 and G2	Give-up account one and two	✓																							
M1 and M2	Market Maker account one and two	✓																							
P1 and P2	Proprietary account one and two	✓																							
564	LegPositionEffect	Y	Y		Char Leg-specific field used for Derivatives position management purposes and indicates whether the leg is submitted to open or close a position. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Open</td> <td>✓</td> <td></td> </tr> <tr> <td>C</td> <td>Close</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	O	Open	✓		C	Close	✓									
Value	Description	D	C																						
O	Open	✓																							
C	Close	✓																							
end <LegOrdGrp>																									

**6.13.15 <MarketSegmentGrp>**

The Market Segment Group provides security definition for the market segment that the security participates in.

Tag	Field Name	R	D	C	Description												
<MarketSegmentGrp>																	
1310	NoMarketSegments	Y	Y		NumInGroup Number of Market Segments on which a security may trade.												
1301	MarketID	Y	Y		Exchange Market Identifier Code of the trading market according to ISO 10383.												
1148	LowLimitPrice	Y	Y		Price Allowable low limit price for the trading day. A key parameter in validating order price. Used as the lower band for validating order prices. Orders submitted with prices below the lower limit will be rejected												
1149	HighLimitPrice	Y	Y		Price Allowable high limit price for the trading day. A key parameter in validating order price. Used as the upper band for validating order prices. Orders submitted with prices above the upper limit will be rejected												
1144	ImpliedMarketIndicator	Y	Y		Int Indicates that an implied market should be created for either the legs of a multileg instrument (Implied-in) or for the multileg instrument based on the existence of the legs (Implied-out). Determination as to whether implied markets should be created is generally done at the level of the multileg instrument. Commonly used in listed derivatives. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not implied</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Both Implied-in and Implied-out</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Not implied	✓		3	Both Implied-in and Implied-out	✓	
Value	Description	D	C														
0	Not implied	✓															
3	Both Implied-in and Implied-out	✓															
1377	MultilegModel	Y	Y		Int Specifies if a strategy is temporarily (user-defined) or permanently (predefined) available. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Predefined Multileg Security</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>User-defined Multileg Security</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Predefined Multileg Security	✓		1	User-defined Multileg Security	✓	
Value	Description	D	C														
0	Predefined Multileg Security	✓															
1	User-defined Multileg Security	✓															
end <MarketSegmentGrp>																	

**6.13.16 <DisclosureInstructionGrp>**

The Disclosure Instruction Group is used to indicate if different attributes of a CLIP request should be disclosed.

Tag	Field Name	R	D	C	Description																
<DisclosureInstructionGrp>																					
1812	NoDisclosureInstructions	Y	Y		NumInGrp Number of disclosure instructions.																
1813	DisclosureType	Y	Y		Int Information subject to disclosure. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Volume</td> <td>✓</td> <td></td> </tr> <tr> <td>2</td> <td>Price</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Side</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	1	Volume	✓		2	Price	✓		3	Side	✓	
Value	Description	D	C																		
1	Volume	✓																			
2	Price	✓																			
3	Side	✓																			
1814	DisclosureInstruction	Y	Y		Int (1) The Disclosure Instruction Group is used to indicate if different attributes of a request should be disclosed. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No</td> <td>✓</td> <td></td> </tr> <tr> <td>1</td> <td>Yes</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	No	✓		1	Yes	✓					
Value	Description	D	C																		
0	No	✓																			
1	Yes	✓																			
end <DisclosureInstructionGrp>																					

**6.13.17 <DisplayInstruction>**

Display instruction is used for Iceberg Order and Volume Discovery Order.

Tag	Field Name	R	D	C	Description												
<DisplayInstruction>																	
1138	DisplayQty	N		Y	Qty (15.4) This field provides the display quantity. For iceberg order entry or modify with DisplayMethod (1084) = "1" (Initial) it specifies the quantity that should be visible to the market (peak). For requests with DisplayMethod (1084) = "3" (Random) the field specifies the initial quantity visible to the market (initial peak). On Execution Reports it contains the currently displayed quantity (remaining peak). If the remaining unexecuted quantity is smaller than the display quantity the remaining unexecuted quantity will be displayed.												
1084	DisplayMethod	N		Y	Char Defines if the value of the peak quantity after a refresh will be determined absolutely (using the initial value of the DisplayQty (1138)) or randomly (using a random value between DisplayLowQty (1085) and DisplayHighQty (1086)). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Initial</td> <td></td> <td>✓</td> </tr> <tr> <td>3</td> <td>Random</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Initial		✓	3	Random		✓
Value	Description	D	C														
1	Initial		✓														
3	Random		✓														
1085	DisplayLowQty	N		C	Qty (15.4) Defines the lower quantity limit to a randomized refresh of displayed quantity. DisplayLowQty must be less than or equal to DisplayHighQty (1086). Required if DisplayMethod (1084) = "3".												
1086	DisplayHighQty	N		C	Qty (15.4) Defines the upper quantity limit to a randomized refresh of displayed quantity. Required if DisplayMethod (1084) = "3".												
end <DisplayInstruction>																	

**6.13.18 <PegInstructions>**

Peg instructions for a Trailing Stop order.

Tag	Field Name	R	D	C	Description												
<PegInstructions>																	
211	PegOffsetValue	Y		Y	Price (11.8) Amount (signed) added to the peg for a pegged order in the context of the PegOffsetType (836).												
836	PegOffsetType	Y		Y	Int (1) Type of Peg Offset value. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Price</td> <td></td> <td>✓</td> </tr> <tr> <td>4</td> <td>Percentage</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	0	Price		✓	4	Percentage		✓
Value	Description	D	C														
0	Price		✓														
4	Percentage		✓														
end <PegInstructions>																	

**6.13.19 <OrderAttributeGrp>**

The group of Order Attribute is used to set the flags <liquidity provision activity order> and <risk reduction order>.

Tag	Field Name	R	D	C	Description												
<OrderAttributeGrp>																	
2593	NoOrderAttributes	Y	Y	Y	NumInGroup Number of order attributes.												
2594	OrderAttributeType	Y	Y	Y	Int Type of order attribute. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Liquidity Provision Activity Order</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Risk Reduction Order</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	2	Liquidity Provision Activity Order	✓	✓	3	Risk Reduction Order	✓	
Value	Description	D	C														
2	Liquidity Provision Activity Order	✓	✓														
3	Risk Reduction Order	✓															
2595	OrderAttributeValue	Y	Y	Y	String Value associated with the order attribute type specified in OrderAttributeType (2594). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Attribute is set.</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	Y	Attribute is set.	✓	✓				
Value	Description	D	C														
Y	Attribute is set.	✓	✓														
end <OrderAttributeGrp>																	

**6.13.20 <ValueChecksGrp>**

This component can be used for price, quantity and notional value validation.

Tag	Field Name	R	D	C	Description																
<ValueChecksGrp>																					
1868	NoValueChecks	Y	Y	Y	NumInGroup Number of value check entries.																
1869	ValueCheckType	Y	Y	Y	Int Type of value to be checked. <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Price check</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Notional value check</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3</td> <td>Quantity check</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	1	Price check	✓	✓	2	Notional value check	✓	✓	3	Quantity check		✓
Value	Description	D	C																		
1	Price check	✓	✓																		
2	Notional value check	✓	✓																		
3	Quantity check		✓																		
1870	ValueCheckAction	Y	Y	Y	Int Action to be taken for the ValueCheckType (1869).  <u>For T7 Derivatives:</u> ValueCheckAction (1870) = "2" (Best effort) is only possible, if ValueCheckType (1869) = "1" (Price check). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Do not check</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>1</td> <td>Check</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2</td> <td>Best effort</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Value	Description	D	C	0	Do not check	✓	✓	1	Check	✓	✓	2	Best effort	✓	
Value	Description	D	C																		
0	Do not check	✓	✓																		
1	Check	✓	✓																		
2	Best effort	✓																			
end <ValueChecksGrp>																					



### 6.13.20.1 Valid Values of <ValueChecksGrp>

The following table shows the possible combinations of the fields in the component <ValueChecksGrp>:

Value validity check	Derivatives	Cash	ValueCheckType (1869)	ValueCheck-Action (1870)	Additional Information
Price Reasonability Check	✓	✓	"1" (Price check)	"0" (Do not check) "1" (Check) "2" (Best effort)	ValueCheckAction (1870) = "2" (Best effort) is only allowed for T7 Derivatives.
Notional Value Check	✓	✓	"2" (Notional value check)	"0" (Do not check) "1" (Check)	-
Quantity Check		✓	"3" (Quantity check)	"0" (Do not check) "1" (Check)	Entry not allowed for T7 Derivatives. For T7 Derivatives the quantity validation will be always performed and cannot be deactivated.

**6.13.21 <OrderEventGrp>**

The Order Event Group is used to deliver information related to the status of pending transactions after Locked Stock (T7 Boerse Frankfurt)

Tag	Field Name	R	D	C	Description																
<OrderEventGrp>																					
1795	NoOrderEvents	Y		Y	NumInGroup Number of order events. Only one entry.																
1796	OrderEventType	Y		Y	Int (3) Information about the status of pending transactions after locked stock (T7 Boerse Frankfurt). <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> <th>D</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>Status after locked Stock - Pending requests discarded</td> <td></td> <td>✓</td> </tr> <tr> <td>101</td> <td>Status after locked Stock - Pending request executed</td> <td></td> <td>✓</td> </tr> <tr> <td>102</td> <td>Status after locked Stock - Pending request rejected</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Value	Description	D	C	100	Status after locked Stock - Pending requests discarded		✓	101	Status after locked Stock - Pending request executed		✓	102	Status after locked Stock - Pending request rejected		✓
Value	Description	D	C																		
100	Status after locked Stock - Pending requests discarded		✓																		
101	Status after locked Stock - Pending request executed		✓																		
102	Status after locked Stock - Pending request rejected		✓																		
end <OrderEventGrp>																					

## 6.14 Error Codes

### 6.14.1 Rejections - FIX Messages and Error Information

**Rejections on session level** (e.g. usage of undefined tags, mandatory tags missing) are sent via *Reject (3)* and *BusinessMessageReject (j)* messages. The reject reason is delivered in different fields:

Message	Reject reason	Possible values
Reject (3)	SessionRejectReason (373)	see chapter <b>6.4.7.1 Session-RejectReason (373): List of Valid Values</b>
BusinessMessageReject (j)	BusinessRejectReason (380)	see chapter <b>6.4.6 Business Message Reject</b>

**Rejections on application level** may be generated by the T7 FIX Gateway or by the T7 Backend. The information about the component that caused the rejection is delivered in the field *ReturnCodeSource (25024)*. Following values are possible: 'FIX GATEWAY', 'TRADING SYSTEM'.

The error information is delivered in different fields, depending on the FIX message:

Message	Error code	Error text
ExecutionReport (8)	ReturnCode (25023)	ReturnCodeText (25025)
OrderCancelReject (9)	ReturnCode (25023)	ReturnCodeText (25025)
UserOrderMassActionResponse (UCAR)	ReturnCode (25023)	ReturnCodeText (25025)
CrossRequestAck (UDT)	ReturnCode (25023)	ReturnCodeText (25025)
User/QuoteRequestReject (UAG/AG)	QuoteRequestRejectReason (658)	Text (58)
BusinessMessageReject (j)	ReturnCode (25023)	Text (58)
Reject (3)	ReturnCode (25023)	Text (58)
SecurityDefinition (d)	SecurityRejectReason (1607)	Text (58)
User/TradeCaptureReportAck (UAR/AR)	TradeReportRejectReason (751)	RejectText (1328)
SecurityStatus (f)	ReturnCode (25023)	ReturnCodeText (25025)
UserPartyRiskLimitsReport (UCM)	ReturnCode (25023)	RejectText (1328)
UserResponse (UBF/BF)	ReturnCode (25023)	UserStatusText (927)

### 6.14.2 Error Codes - Usage and special handling of some backend codes

In case of rejections, the error codes generated by the T7 FIX Gateway (i.e. with *ReturnCodeSource* (25024) = 'FIX GATEWAY') are used always for one specific reject reason.

But the T7 Backend uses some error codes to describe different rejections. In these cases a distinction of the different reject reasons is only possible checking the information contained in the error text.

Following error codes from T7 Backend are used in a generic way for different reject reasons:

Value	Description	Derivatives	Cash
99	Other	✓	✓
210	Validation Error	✓	✓

For following error codes from T7 Backend there is special handling in T7 FIX Gateway:

Value	Description	Derivatives	Cash
105	Error converting response or broadcast	✓	✓
200	Internal technical error	✓	✓

These error codes do not necessarily mean that the request has been rejected. The status of the request is unknown. If one of these codes is received from T7 Backend, the FIX Gateway generates a "Request Status Unknown" response (see details in **chapter 3.8 Pending Responses "Request Status Unknown"**)

### 6.14.3 Error Codes from T7 FIX Gateway

The following table documents all error codes set by the FIX Gateway (i.e. with *ReturnCodeSource* (25024) = 'FIX GATEWAY'), not only in case of rejections, but also for pending responses:

Value	Description
61271	System is running in connection-test mode - no processing
89114	Technical error occurred
89120	Actual length of tag exceeds maximum length
89121	Tag is not allowed for this message flow
89122	Tag is not allowed for this order type or field combination invalid
89123	Order not found in the FGW database
89125	Invalid combination of ExpireDate and TimeInForce
89135	ClOrdID already processed - PossResend not supported
89138	Tag contains an invalid value
89142	Tag is missing for this order type
89143	Tag is missing for this message flow
89144	No access for specified destination configured
89147	Invalid combination of the following tags:
89151	Could not process message
89152	Busy: Txn rejected. Try again
89153	Invalid Party Group
89154	Required tag missing
89159	Message Throttle Limit exceeded
89161	Invalid instrument group
89162	Order type invalid for multileg requests
89164	Tag is not allowed
89166	Invalid combination of MassActionScope and Instrument-Data
89171	Request status unknown - please check status in an alternative way
89172	Request after end of stream not allowed
89173	Request with PossDupFlag (43) = Y not processed
89174	Field ClOrdId not found
89175	ClOrdID is empty
89176	ClOrdID must consist only of printable characters
89177	ClOrdID is not unique
89178	ClOrdID exceeds maximum length
89179	No orders deleted (no hits)

... continued ...

Value	Description
89180	Pending request rejected
89508	Unexpected message from customer received
89889	Invalid instrument
90607	Invalid number format
90656	ISIN not found
90657	ISIN not traded in entered currency
90658	ISIN traded in more than one currency - currency required for identification
90660	Notional value check: entry missing in component ValueChecksGrp
90661	Notional value check: invalid value in component ValueChecksGrp
90662	Notional value check: only one entry allowed in component ValueChecksGrp
90663	Quantity check: entry missing in component ValueChecksGrp
90664	Quantity check: entry is not allowed in component ValueChecksGrp
90665	Quantity check: invalid value in component ValueChecksGrp
90666	Quantity check: only one entry allowed in component ValueChecksGrp
90667	Price check: entry missing in component ValueChecksGrp
90668	Price check: invalid value in component ValueChecksGrp
90669	Price check: only one entry allowed in component ValueChecksGrp
90670	Risk reduction: entry is not allowed in component OrderAttributeGrp
90671	Risk reduction: only one entry allowed in component OrderAttributeGrp
90672	Liquidity provision: only one entry allowed in component OrderAttributeGrp
90673	Invalid combination of party fields
90674	Duplicate Side in component TrdCapRptSideGrp
90675	Nested2Parties executing trader check: only one entry allowed
90676	Nested2Parties executing firm check: only one entry allowed
90814	Trading system not available

#### 6.14.4 Error Codes from T7 Backend

The tables below document the error codes set by the T7 Backend and forwarded by the FIX Gateway (i.e. with *ReturnCodeSource (25024) = 'TRADING SYSTEM'*).

This table contains error codes that can be generated during the regular processing:

Value	Description	Derivatives	Cash
99	Other	✓	✓
102	Service temporarily not available	✓	✓
103	Service not available	✓	✓
210	Validation Error	✓	✓
211	User already logged in	✓	✓
223	User entitlement data timeout	✓	✓
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)	✓	✓
10000	Order not found	✓	✓
10001	Price not reasonable	✓	✓
10006	Stop buy price not reasonable	✓	✓
10007	Stop sell price not reasonable	✓	✓
10008	GFD order is not executable on current business day	✓	✓
10009	BOC order rejected in state other than cont.		✓
10011	Order maintenance not allowed in current state	✓	✓
10012	Order not accepted in Volatility Freeze		✓

This table contains specific error codes that will be delivered only in the message *User/QuoteRequestReject (UAG/AG)* for rejections to requests for private quotes (T7 Boerse Frankfurt):

Value	Description	Derivatives	Cash
2	Exchange (Security) Closed		✓
100	Requested size too small		✓
101	Requested size too big		✓
102	No valid quote from issuer		✓
103	Sold out		✓
104	Trading restriction		✓
105	RequestForQuote request timed out		✓

This list documents error codes that can only occur in exceptional situations (caused technical problems, e.g. communication issues between the FIX Gateway and the T7 Backend):

Value	Description	Derivatives	Cash
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	✓	✓
100	Throttle limit exceeded	✓	✓
101	Stale request was not forwarded to T7	✓	✓
105	Error converting response or broadcast	✓	✓
200	Internal technical error	✓	✓
10002	Duplicate Order (CIOrdID)	✓	✓
10010	Create CI Throttle Exceeded	✓	