



# **FIX Recommended Practices - Bilateral and Tri-Party Repos RFQ and Trade**

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## Table of Contents

<b>DISCLAIMER</b> .....	<b>2</b>
<b>DOCUMENT HISTORY</b> .....	<b>4</b>
<b>1 INTRODUCTION</b> .....	<b>6</b>
<b>2 SCOPE</b> .....	<b>7</b>
2.1 Out of scope .....	7
<b>3 REPO TERMINOLOGY</b> .....	<b>8</b>
3.1 Repo product identification .....	8
3.2 Collateral identification .....	8
3.3 Repo term details .....	8
3.4 Direction .....	8
3.5 Cash quantity and Haircut .....	8
3.6 Rate and price convention.....	9
<b>4 TRI-PARTY REPO</b> .....	<b>10</b>
4.1 Product identification .....	10
4.2 Tri-party agent.....	10
<b>5 FIX MESSAGE WORKFLOWS</b> .....	<b>11</b>
5.1 RFQ, Quote, and Execution Report.....	11
5.2 Repo life-cycle events.....	14
5.2.1 Repo Rollover .....	14
5.2.2 Open repo amendments.....	14
5.3 Trade Recap .....	22
<b>6 MESSAGE FORMATS</b> .....	<b>23</b>
6.1 Pre-Trade and Trade.....	23
6.1.1 QuoteRequest(35=R).....	23
6.1.2 Quote(35=S).....	31
6.1.3 QuoteResponse(35=AJ).....	38
6.1.4 QuoteStatusReport(35=AI) .....	46
6.1.5 ExecutionReport(35=8) .....	54
6.2 Trade Recap .....	63
6.2.1 TradeCaptureReport(35=AE) .....	63
6.2.2 TradeCaptureReportAck(35=AR).....	73
<b>7 APPENDICES</b> .....	<b>77</b>

## Document History

Revision	Date	Author/Editor	Revision Comments
0.1	03/25/2019	Charu Mittal Brook Path Partners, for GTC	Created Bilateral Flow for Repo trading, post-trade processing and collateral management. Added message structures for relevant FIX messages.
0.2	06/24/2019	Charu Mittal Brook Path Partners, for GTC	Updated flow based on feedback provided by FIX Repo WG
0.3	09/24/2019	Charu Mittal BrookPath Partners, for GTC	Added functionality for Rollover and Increase/decrease repo open term.
0.4	10/06/2019	Charu Mittal BrookPath Partners, for GTC	Updated based on Repo WG feedback
0.5	10/22/2019	Charu Mittal BrookPath Partners, for GTC	Updated section 'Life-cycle events' based on Repo WG feedback.
0.6	02/27/2020	Charu Mittal BrookPath Partners, for GTC	Added a workflow diagram for repricing an open repo. Added two flow diagrams and QuoteStatusReport message for early termination. Also, added values to support early termination. Added two new fields in UnderlyingInstrument to specify more information of collateral security. Cleaned up Appendix.
0.7	03/30/2020	Charu Mittal BrookPath Partners, for GTC	Updated early termination workflows based on Repo WG feedback. Removed RegulatoryTradeIDGrp from Quote, QuoteResponse and QuoteStatusReport messages. Adjusted alignment of new fields based on FIX Gap Analysis document.
0.8	Apr. 22, 2020	Charu Mittal BrookPath Partners, for	Updated based on GTC feedback.

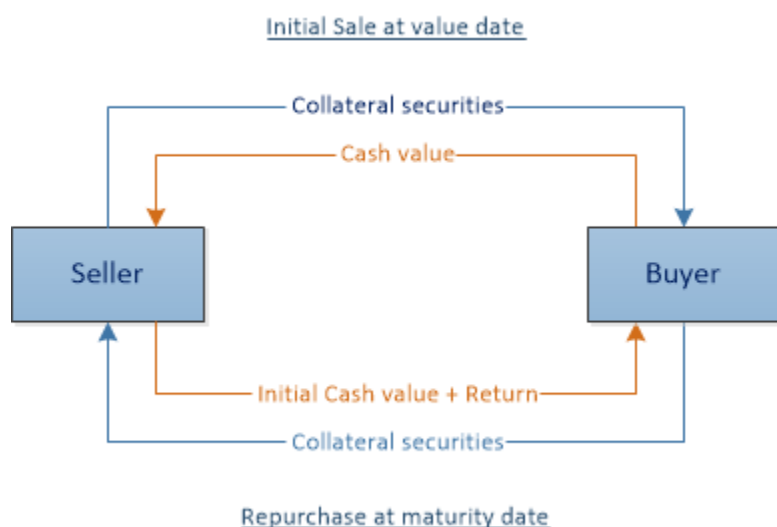
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		GTC	
0.9	July 20, 2020	Charu Mittal BrookPath Partners, for GTC	Updated based on feedback received and public review comments. Added workflow for Rerate. Added a new value for TradeContinuation(1937)=32 (Rerate). Replaced 'tbd' with standard values in message tables and workflow diagrams. Added support for Tri-party repos.
1.0	September 10, 2020	Dean Kauffman Brook Path Partners, for GTC	Replaced the use of MarginRatio(898) with Stipulation HAIRCUT and added a footnote to the narrative as to how they are related but different.

# 1 Introduction

The purpose of this document is to define industry practices for common usage of FIX protocol for Request for Quote (RFQ), Quote, and trade messages for repurchase agreements (repos) in a bilateral setting.

A repurchase agreement (REPO) is an agreement where one party sells assets to another in exchange of cash and commits to repurchase the same or similar assets at a specified return on a later date. A repo seller is identified as the party lending out the security and borrowing cash whereas a repo buyer is the counterparty which receives collateral and lends out cash.



The simplest form of a repo trade is a bilateral trade which typically includes two parties: One initiating the request (Initiator) and other responding to the request (Respondent). The two parties directly exchange cash and the securities used as collateral. The Bilateral repo trading flow can also include a trading platform between the two parties facilitating the trade. This document will only address the workflows between an initiator and a respondent.

## **2 Scope**

This document includes the FIX recommended practices for Request for Quote and trade workflows for repurchase agreements in a bilateral setting.

### **2.1 *Out of scope***

Post-trade flows including allocation, confirmation and collateral management will be covered in a separate recommended practices document. Clearing and settlement workflows are outside the scope of this document with the exception of dataflow required for these phases.

## 3 Repo Terminology

A Repo transaction comprises of details like cash consideration, collateral type, collateral security details, repo term details, and an agreed upon repo rate (fixed vs floating). The following describes how repo concepts are expressed in FIX:

### 3.1 Repo product identification

A repo transaction and the type of collateral is identified using the following fields in the Instrument component within a FIX message:

Product(460)=Financing

SecurityType(167)=REPO

SecuritySubType(762)=General or Specific collateral

### 3.2 Collateral identification

Collateral for repo transactions can be identified using the UnderlyingInstrument component within the message. The recommended fields to use depend on how the repo transaction is being collateralized.

For repo transactions collateralized with specific collateral security(-ies), each collateral security is identified as a separate instance of the UnderlyingInstrument component using fields UnderlyingSecurityID(309) and UnderlyingSecurityIDSource(305). Conditionally required field UnderlyingSymbol(311) is specified as "[N/A]" (without quote marks).

For repo transactions collateralized with a general collateral basket, UnderlyingSymbol(311) is used to identify the basket name. UnderlyingSecurityType(310) describes the type of the collateral basket with other details in UnderlyingStipulations component.

For examples related to collateral mapping over FIX, please refer to Appendix section.

### 3.3 Repo term details

Repo agreement details are published using AgreementDesc(913), AgreementID(914), and AgreementDate(915). Repo term details are specified using a combination of TerminationType(788), StartDate(916), and EndDate(917).

### 3.4 Direction

The transaction's direction, buy or sell, is specified in the Side(54) field. A "buy" (54=1) order from the initiator indicates that the initiator is providing cash and "buying" or receiving the collateral from the respondent. A "sell" (54=2) order from the initiator would be the opposite.

### 3.5 Cash quantity and Haircut

In QuoteRequest(35=R), Quote(35=S), and QuoteResponse(35=AJ) messages, cash quantity is specified in OrderQty(38). Once the trade is finalized, cash quantity is specified in StartCash(921) and



EndCash(922) in ExecutionReport(35=8), TradeCaptureReport(35=AE), and subsequent post-trade messages. The currency the cash is denominated in is identified in Currency(15) field.

Haircut for the repo transaction is specified using StipulationValue(234) with StipulationType(233)=HAIRCUT, fields found in Stipulations component<sup>1</sup>. Haircut for an individual collateral security is specified in UnderlyingStipValue(889) with UnderlyingStipType(888)=HAIRCUT, fields found in UnderlyingStipulations component.

### **3.6 Rate and price convention**

The repurchase rate of a repo transaction is an agreed upon rate between two trading parties and could be fixed or floating rate based on a spread to a published index.

In QuoteRequest(35=R) and QuoteResponse (35=AJ) messages, the Initiator can specify the targeted or countered repo rate in Price(44). Dealers provided quote (can be two-sided) is specified in BidPx(132) or OfferPx(133) in Quote(S) message.

Once the trade is finalized, LastPx(31) and AvgPx(6) in ExecutionReport(35=8) and TradeCaptureReport(35=AE) will reflect the settled repo rate.

PriceType(423) in all FIX messages will specify if the rate is a fixed rate, i.e. 24 (Interest rate), or floating rate, i.e. 6 (Spread). In case of a spread, the interest rate index is specified in SpreadOrBenchmarkCurveData component.

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<sup>1</sup> There are multiple ways of expressing haircut in the industry: A haircut of 2% can also be expressed as a collateral value (sometimes called "financial haircut") of 98% – StipulationValue(234)=98, StipulationType(233)=COLLVAL – or as a margin ratio of 102% MarginRatio=102. Our recommended practice is the method shown in the narrative above and in the associated mapping tables.

## 4 Tri-party Repo

Tri-party repo is a repo contract where the two trading parties choose to outsource the post-trade processing i.e. collateral selection, settlement, and lifecycle management of the repo contract to a third-party.

Tri-party repos are also known as GC (General Collateral) repo since the collateral selection is performed by an external agent.

### 4.1 *Product identification*

A GC repo is identified using following fields in a FIX message:

```
Instrument/  
SecurityType(167)=REPO  
SecuritySubType(762)=General
```

The collateral basket is identified in UnderlyingInstrument component with UnderlyingSecurityType(310)=COLLBSKT (Collateral basket). If ISIN of the collateral basket is known, it can be specified in UnderlyingSecurityID(309) with UnderlyingSecurityIDSource(305)=4 (ISIN).

### 4.2 *Tri-party agent*

The third-party agent is identified using Parties component in a FIX message:

```
Parties/  
PartyID(448)=<Party identifier>  
PartyIDSource(447)=B (BIC) or D (Proprietary Code) or N (LEI)  
PartyRole(452)=30 (Agent)  
PartyRoleQualifier(2376)=28 (Tri-party)
```

Custodian, if different from the tri-party agent, can also be specified using Parties component:

```
Parties/  
PartyID(448)=<Party identifier>  
PartyIDSource(447)=B (BIC) or D (Proprietary Code) or N (LEI)  
PartyRole(452)=28 (Custodian)
```

## 5 FIX Message Workflows

### 5.1 RFQ, Quote, and Execution Report

Request for Quote process for a repo transaction is dictated by the initiator's motivation to do the trade which could be cash-driven (lend or borrow cash) or security-driven (lend or borrow security(-ies)).

Below table describes the characteristics, corresponding RFQs parameters, and subsequent negotiating points for the two types of repo transactions.

**Table 1: Cash-driven vs Security-driven repo**

Repo	
General Collateral (cash driven)	Specials (security driven)
<p><u>Characteristics:</u></p> <ul style="list-style-type: none"> <li>• Motivation is to borrow or lend cash</li> <li>• Collateral requirement is 'General' as defined by the buyer and could be a range of similar quality issues.</li> <li>• Quoted as repo rate, paid as interest on cash to the buyer.</li> <li>• The maturity could be open or term</li> <li>• Possible collateral substitution.</li> </ul>	<p><u>Characteristics:</u></p> <ul style="list-style-type: none"> <li>• Motivation is to seek a specific security</li> <li>• Collateral requirement is a specific security to be used as collateral</li> <li>• Quoted as repo rate, paid as interest on cash to the buyer, usually below the GC repo rate.</li> <li>• The maturity could be open or term</li> <li>• No collateral substitution.</li> </ul>
<p><u>RFQ parameters:</u></p> <ul style="list-style-type: none"> <li>• Buy/Sell</li> <li>• Cash Currency and amount</li> <li>• General collateral details</li> <li>• Repo term details</li> </ul>	<p><u>RFQ parameters:</u></p> <ul style="list-style-type: none"> <li>• Buy/Sell</li> <li>• Security - ISIN or CUSIP</li> <li>• Nominal collateral amount</li> <li>• Repo Term details</li> </ul>
<p><u>Negotiated parameters:</u></p> <ul style="list-style-type: none"> <li>• Repo rate - fixed or floating</li> <li>• Collateral securities</li> <li>• Collateral value</li> <li>• Haircut</li> </ul>	<p><u>Negotiated parameters:</u></p> <ul style="list-style-type: none"> <li>• Repo rate - fixed or floating</li> <li>• Cash amount (purchase price)</li> <li>• Haircut</li> </ul>

A repo trading dialog typically starts with an interested party initiating a bid/offer request using QuoteRequest(35=R) message. If interested, the respondent will reply back with a Quote(35=S) message. The initiator then can either end the dialog, hit/lift the quote, or counter the quote using QuoteResponse(35=AJ) message. A 'hit/lift' response indicates that the initiator agrees with the quoted

terms and wants to complete the trade. The respondent then can either counter with another Quote(35=S) message or finalize the trade using ExecutionReport(35=8) message.

Figures 1 and 2 below illustrates this basic flow for a cash and security driven RFQ, showing some of the key fields for each of the FIX messages used.

Figure 1: Cash-driven repo RFQ workflow

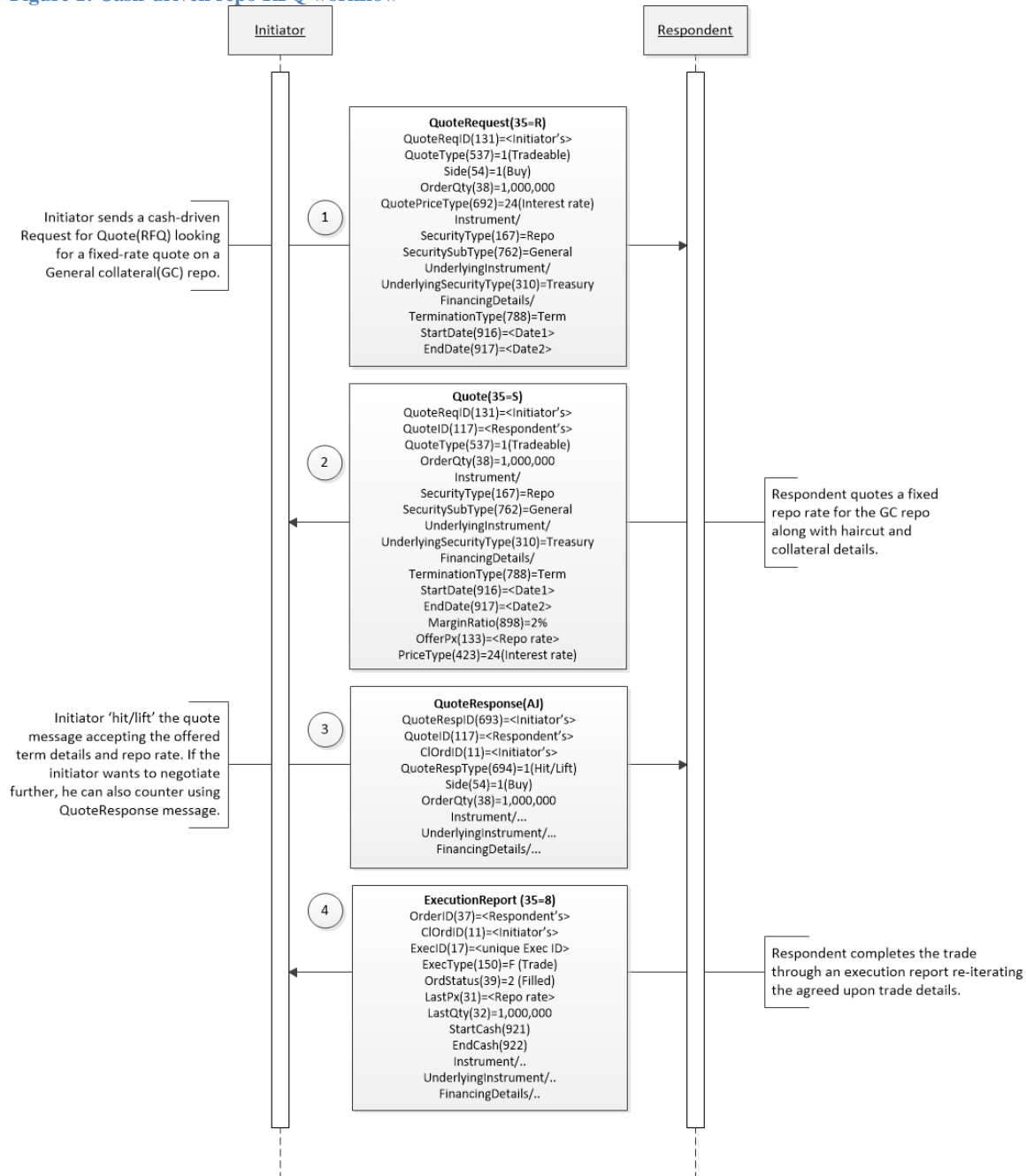
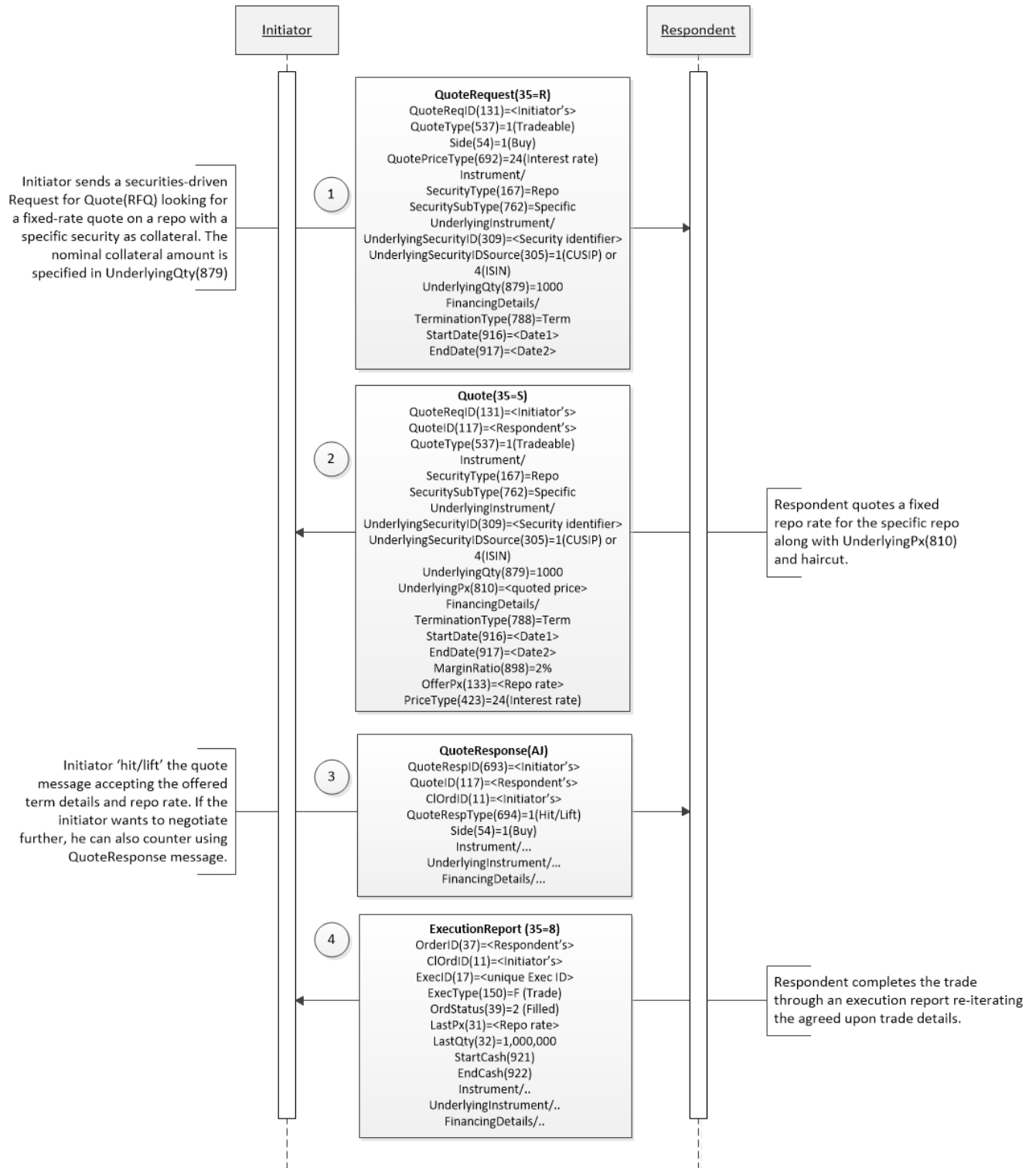


Figure 2: Securities-driven repo RFQ workflow



## 5.2 Repo life-cycle events

### 5.2.1 Repo Rollover

A repo rollover is a lifecycle event where an existing repo trade is rolled over by one trading party into a new deal with the same counterparty. Initiator of the rollover request sends an RFQ to the respondent seeking a repo rate for the new deal referencing the original repo trade.

The QuoteRequest(35=R) message will contain following fields to indicate the request is for a rollover trade:

- Rollover request - Identified using TrdType(828)= 66 (Roll trade)
- Trade details - Details of trade being rolled over are specified through Stipulations component:
  - Reference to rolling trade:  
StipulationType(233)=REFTRADE  
StipulationValue(234)=<UTI of rolling trade>
  - Principal of rolling trade:  
StipulationType(233)=REFPRIN  
StipulationValue(234)=<Principal amount>
  - Interest of rolling trade:  
StipulationType(233)=REFINT  
StipulationValue(234)=<Accrued interest>
  - Interest payoff at the time of rolling trade:  
StipulationType(233)=PAYOFF  
StipulationValue(234)=<Payoff value>
- Term details - Start and end date of the new trade:
  - StartDate(916)=<End date of trade being rolled over>
  - EndDate(917)=<New date>

The new trade details may vary from the old one depending on how the accrued interest of the existing repo trade is settled.

### 5.2.2 Open repo amendments

An open repo can be amended or terminated anytime during the life of the agreement by either party involved.

#### 5.2.2.1 Increase/Decrease open repo terms

Terms of an open repo trade can be amended by either of two trading parties, buyer or seller, through QuoteRequest(35=R) message. Once initiated, the negotiation dialogue can lead to a new repo rate for the repo trade including change in other contractual details.

The existing trade being amended is identified by following fields in the QuoteRequest(35=R) message:

- Trade identifier - Existing trade can be identified in ClOrdID(11) Or if Unique Trade Identifier (UTI) is known, in RegulatoryTradeIDGrp component.

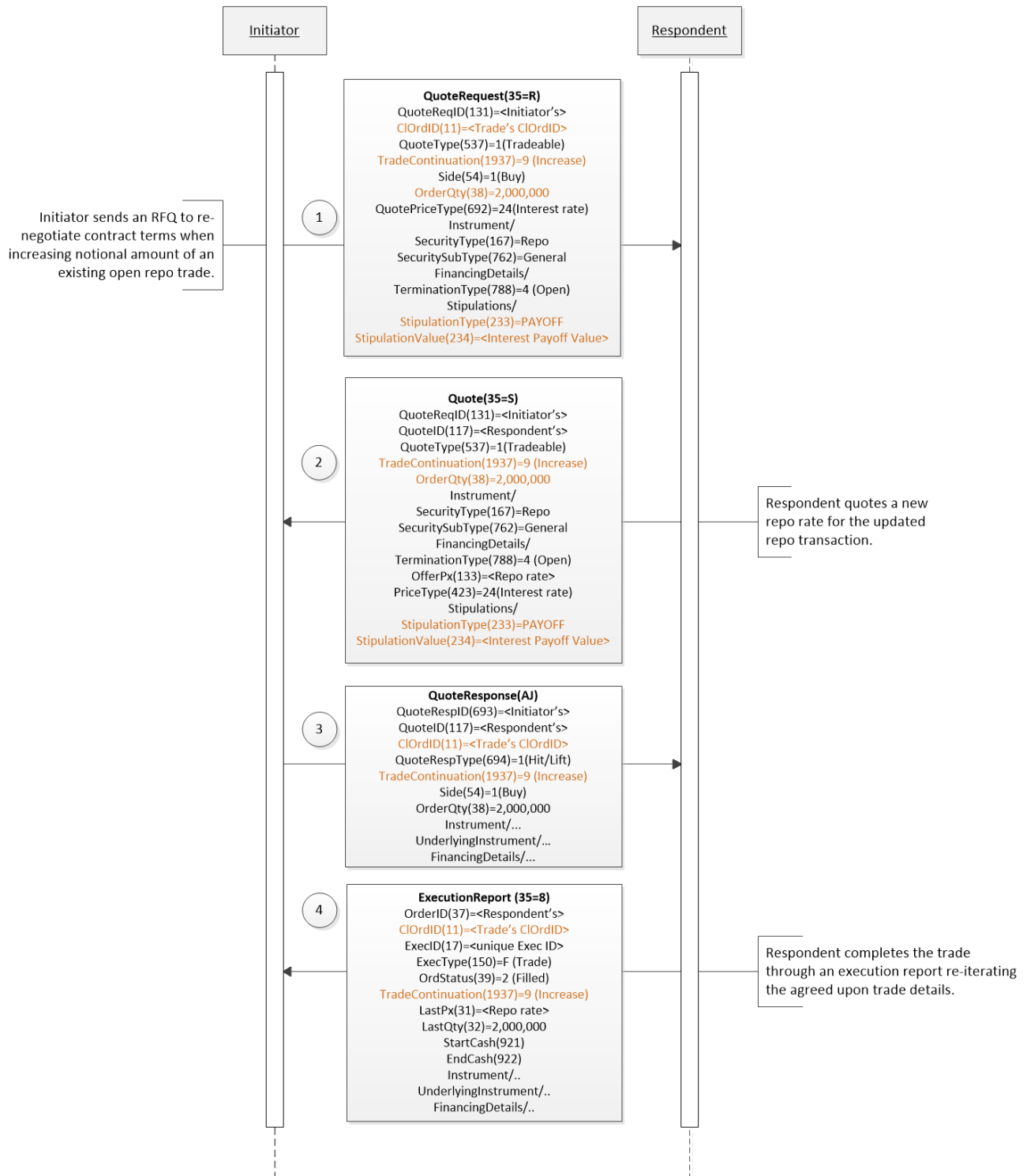
NoRegulatoryTradeIDs(1907)=1  
RegulatoryTradeID(1903)=<UTI of the existing trade>  
RegulatoryTradeIDSource(1905)=<Source of UTI`>  
RegulatoryTradeIDType(1906)=0 (Current)

**Note:** The subsequent messages will refer to QuoteReqID(131) in order to identify the trade being amended.

- Type of amendment - Based on mutual agreement between the counterparties, following values of TradeContinuation(1937) can be used depending on the type of amendment.
  - 3 (Partial trade unwind) - Used to decrease notional amount of an existing repo trade.
  - 8 (Amendment) - Used to change contract terms of an existing repo trade.
  - 9 (Increase) - Used to increase notional amount of an existing repo trade.
- Interest payoff - Accrued interest at the time of amendment can be specified using Stipulations component:
  - Interest payoff at the time of amending an existing trade:  
StipulationType(233)=PAYOFF  
StipulationValue(234)=<Payoff value>

Figure 3 below illustrates basic flow of an open repo amendment, showing some of the key fields for each of the FIX messages used.

Figure 3: Amendment of an open repo

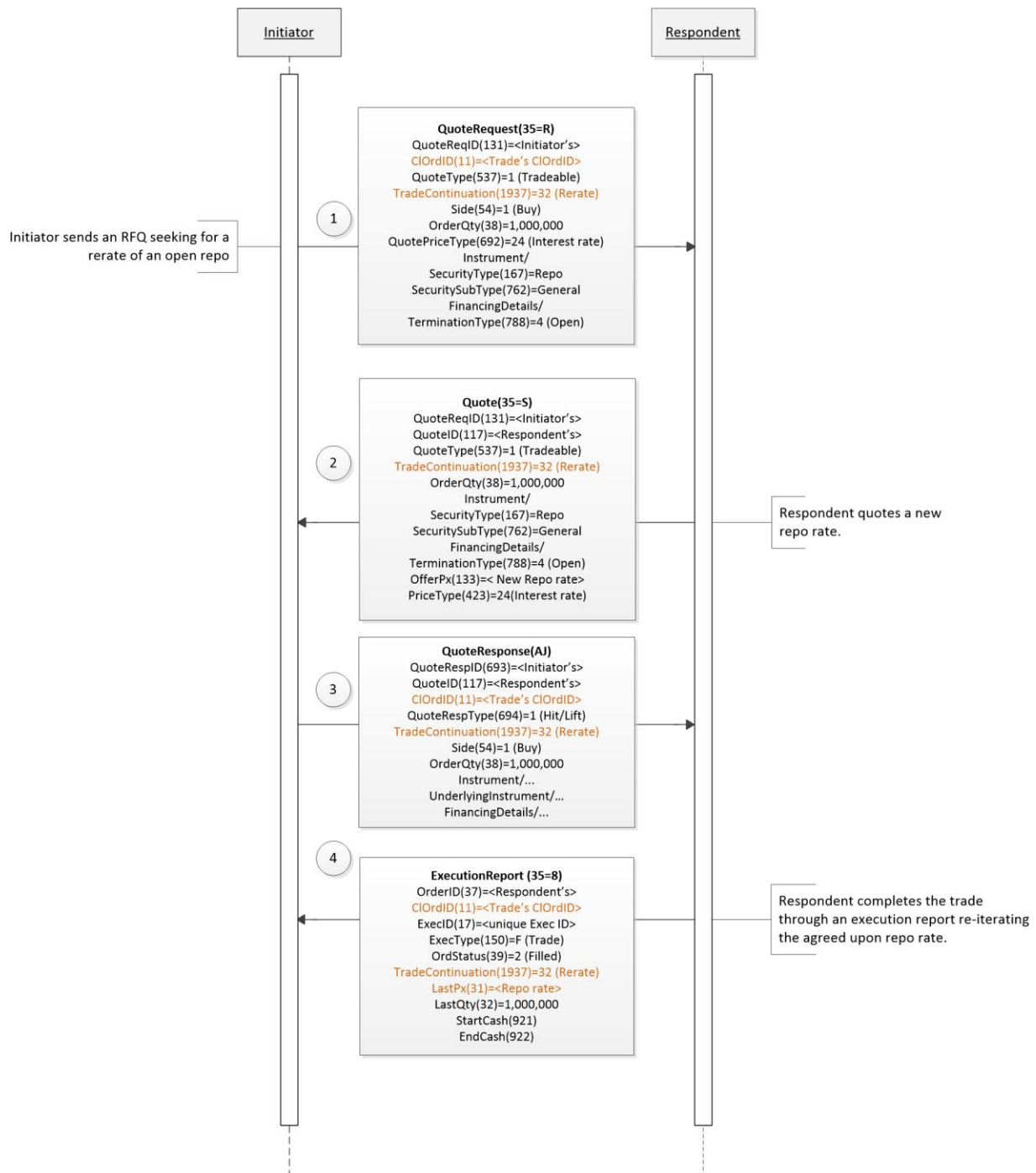




### 5.2.2.2 Rerate

Move in market conditions can lead to parties requesting a re-rate of an existing open repo contract. A re-rate is to renegotiate and adjust the repo rate based on market conditions. An interested party can initiate the request using QuoteRequest(35=R) message with TradeContinuation(1937)=32 (Rerate).

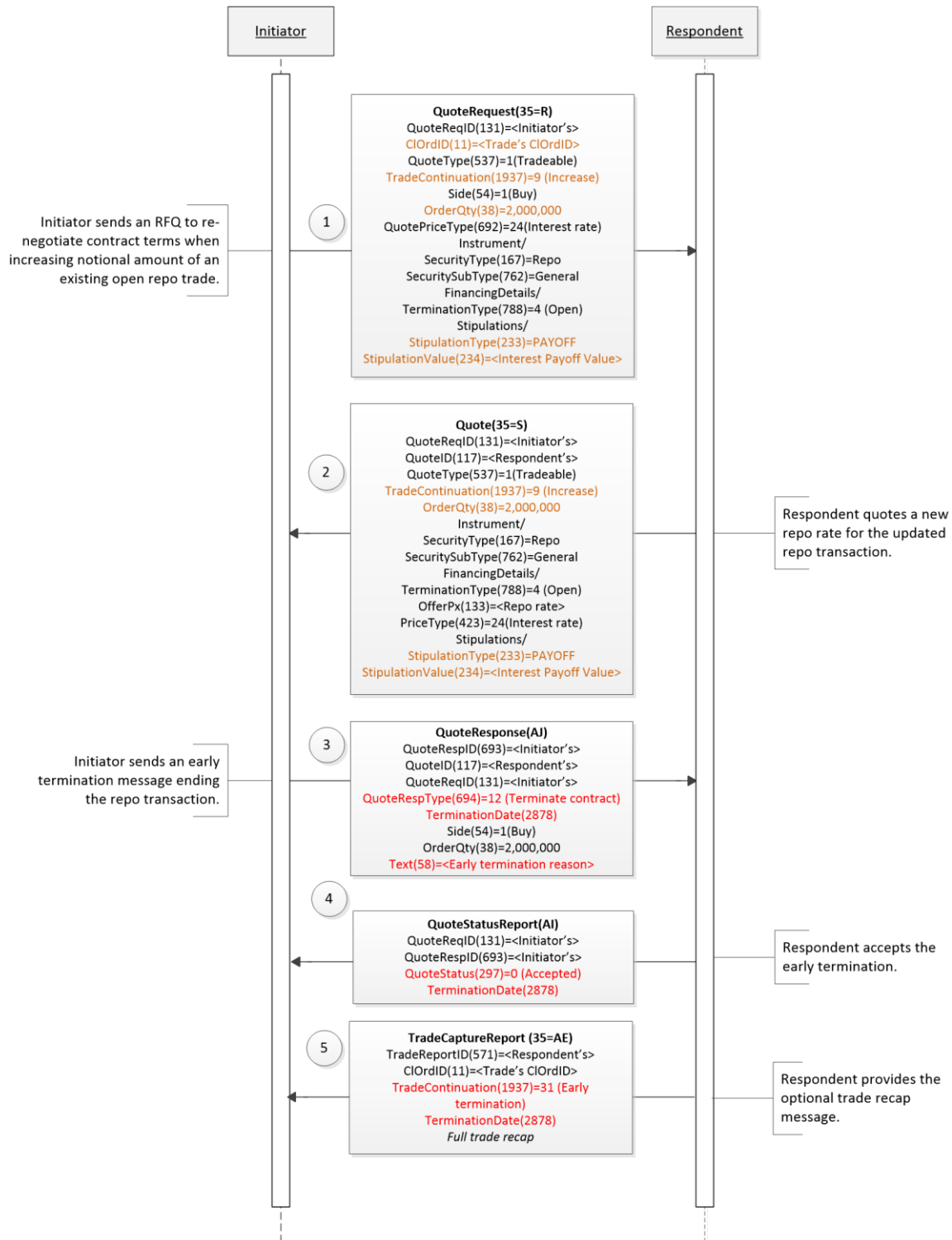
Figure 4: Rerate of an open repo



### 5.2.2.3 Early Termination

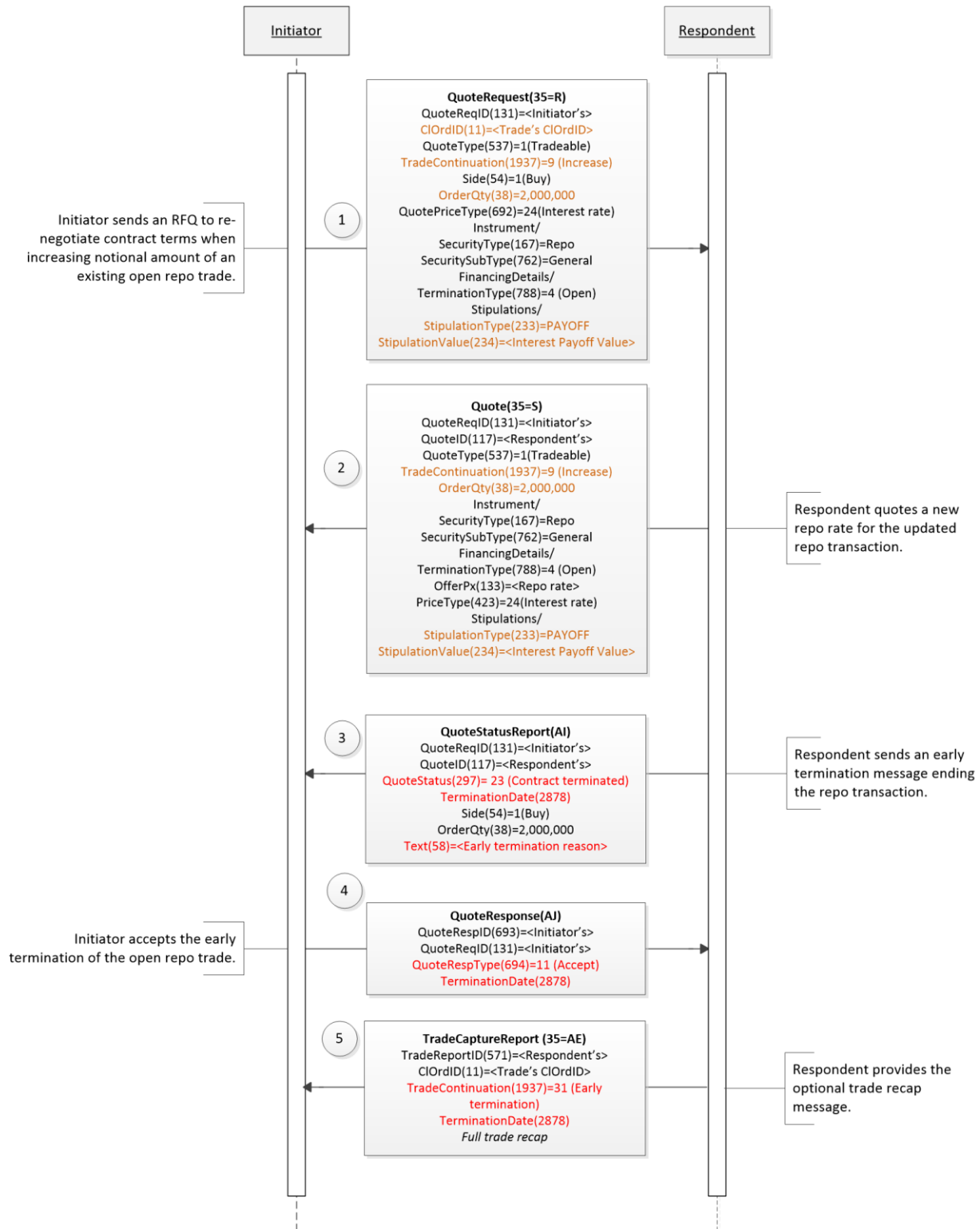
Either of the trading parties can request for an early termination of the original open repo trade during the repricing. If the initiator of the RFQ chooses to terminate the contract early, the initiator can send a QuoteResponse(35=AJ) message with QuoteRespType(694)=12 (Terminate contract) and TerminationDate(2878). The reason for termination is specified in Text(58). The Repo WG suggests respondent to acknowledge the early termination notification using QuoteStatusReport(35=AI) message with QuoteStatus(297)=0 (Accepted). Once the trade is terminated, trade details can be provided optionally using TradeCaptureReport(35=AE) message.

Figure 5: Open repo terminated early by RFQ initiator



In case of a respondent terminating the contract, respondent can send QuoteStatusReport(35=AI) message with QuoteStatus(297)=23 (Contract terminated) and TerminationDate(2878). Initiator should acknowledge the early termination notification using QuoteResponse(35=AI) message using QuoteRespType(694)=11 (Accept). Once the trade is terminated, trade details can be provided optionally using TradeCaptureReport(35=AE) message.

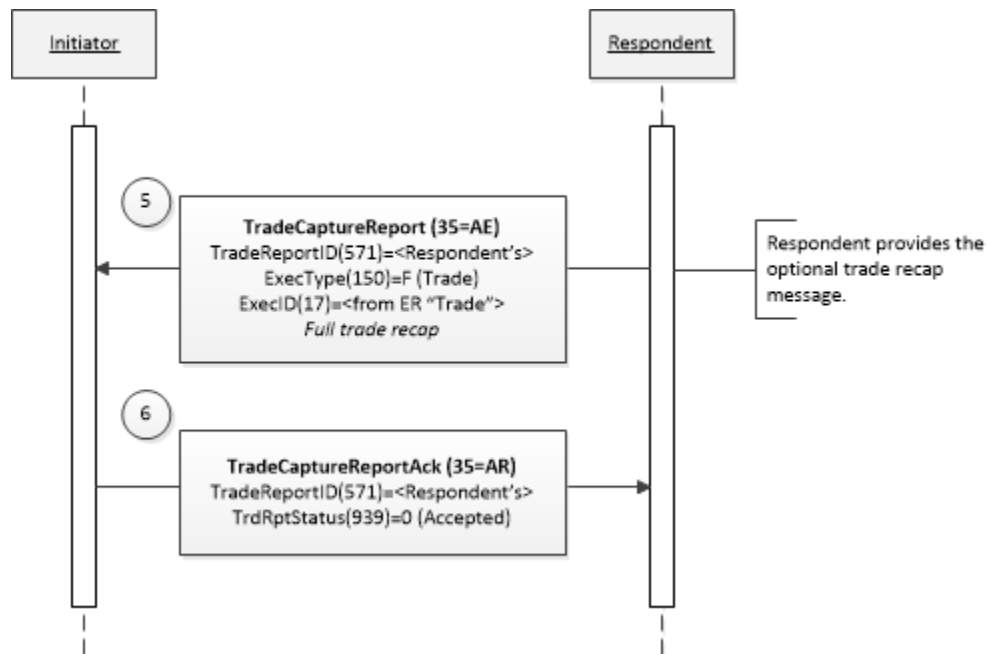
Figure 6: Open repo terminated early by Respondent



### 5.3 Trade Recap

The TradeCaptureReport(35=AE) can be used by the respondent to recap final trade terms and any post-trade calculations. In a bilateral setting, this is an optional workflow.

Figure 7: Repo trade recap



## 6 Message Formats

This section details the various FIX message types discussed in this recommended practices document along with specific fields within the message and how fields should be used in the context of bilateral repo transactions.

### 6.1 Pre-Trade and Trade

#### 6.1.1 QuoteRequest(35=R)

The QuoteRequest(35=R) message is used by the initiator to request a bid or offer from the counterparty given certain trade parameters and stipulations.

Table 2: QuoteRequest(35=R)

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
<StandardHeader> component			Y	MsgType = R
QuoteReqID	131	String	Y	Uniquely assigned for each request.
ClOrdID	11	String	N	Unique identifier for order as assigned by the initiator. Also used to specify existing trade's ClOrdID in case of an amendment.
start <QuotReqGrp> component			Y	
NoRelatedSym	146	NumInGroup	Y	Number of related symbols (instruments) in the request.
→ start <Instrument> component			Y	
→ Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
→ Product	460	int	N	High-level security classification code. Supported values: 13 = Financing
→ SecurityType	167	String	N	Indicates type of security. Supported values: REPO = Repurchase Agreement
→ SecuritySubType	762	String	N	Further identifies type of security. Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
→ CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ). Supported values: 0 = 1/1 1 = 30/360 (30U/360)

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360 14 = Act/365L 15 = NL365 16 = NL360
→ SecurityDesc	107	String	N	An optional textual description for the security.
start <EvtGrp> component			N	
NoEvents	864	NumInGroup	N	
→ EventType	865	int	N	Type of event. Conditionally required when NoEvents > 0. Supported values: 1 = Put 2 = Call
→ EventDate	866	LocalMkDate	N	Date of the event. Conditionally required when NoEvents > 0. Format YYYYMMDD.
→ EventTimePeriod	1826	int	N	Time unit multiplier for the event. If present EventTimeUnit must also appear and EventDate and EventTime may be omitted.
→ EventTimeUnit	1827	String	N	Time unit associated with the event. If present EventTimePeriod must also appear and EventDate and EventTime may be omitted. Supported values: D = Day H = Hour Min = Minute Mo = Month S = Second Wk = Week Yr = Year
end <EvtGrp> component				
→ end <Instrument> component				
→ start <FinancingDetails> component			N	
→ AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal



<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
→ AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
→ AgreementDate	915	LocalMktDate	N	A reference to the date the underlying agreement was executed.
→ TerminationType	788	int	N	Type of financing termination. Supported values: 1 = Overnight 2 = Term 3 = Flexible 4 = Open
→ StartDate	916	LocalMktDate	N	Start date of a financing deal, i.e. the date the buyer pays the seller cash and takes control of the collateral.
→ EndDate	917	LocalMktDate	N	End date of a financing deal, i.e. the date the seller reimburses the buyer and takes back control of the collateral.
→ DeliveryType	919	int	N	Identifies type of settlement Supported values: 0 = "Versus Payment" Deliver (if sell) or Receive (if buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free 2 = Tri-Party 3 = Hold in Custody
→ end <FinancingDetails> component				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral securities if specified.
→ start <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified. Supported values: 1 = CUSIP 4 = ISIN
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309) Supported values:

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral. Supported values: CORP = Corporate Bond COLLBSKT = Collateral Basket CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon FRN = US Corporate Floating Rate Note MMKT = Money Market PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest of collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				HAIRCUT = valuation discount of the security RATING = Credit rating for the collateral
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash 8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic 9 = Common 10 = Preferred 12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government 21 = Agency 22 = Corporate 24 = Money market 41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
→ QuoteType	537	int	N	Type of quote being requested from counterparty. Supported values: 0 = Indicative 1 = Tradeable (firm) 3 = Counter (tradeable)
→ Side	54	char	N	Side of quote. Will always be from the initiator's perspective. Supported values: 1 = Buy 2 = Sell
→ start <OrderQtyData> component			N	

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
→ OrderQty	38	Qty	N	Cash quantity for the repo agreement. Not required for Securities-driven repo. The nominal collateral amount is specified in UnderlyingQty(879).
→ end <OrderQtyData> component				
→ Currency	15	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38). Absence of this field is interpreted as the default for the security.
→ start <Stipulations> component			N	Trade stipulations.
→ NoStipulations	232	NumInGroup	N	
→→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values: HAIRCUT = Collateral value reduction in percent. MININOTICE = Minimum notice period MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICEFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)
→→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2 value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc.

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
→ end <Stipulations> component				
→ Account	1	String	N	Can be used to specify initiator's trade account.
→ TrdType	828	int	N	Type of trade. Used when rolling over an existing repo trade. Supported values: 66 = Roll trade
→ start <RegulatoryTradeIDGrp> component			N	Specifies UTI (unique trade identifier) of the trade being modified.
→ NoRegulatoryTradeIDs	1907	NumInGroup	N	
→→ RegulatoryTradeID	1903	String	N	Required if NoRegulatoryTradeIDs(1907) > 0. Trade identifier required by government regulators or other regulatory organizations for regulatory reporting purposes.
→→ RegulatoryTradeIDSource	1905	String	N	Identifies the reporting entity that originated the value in RegulatoryTradeID(1903). The reporting entity identifier may be assigned by a regulator.
→→ RegulatoryTradeIDType	1906	int	N	Position of ID in trade hierarchy. Supported values: 0 = Current - The default if not specified. 1 = Previous - The previous trade's identifier when reporting a cleared trade or novation of a previous trade. 5 = Trading venue transaction identifier
→ end <RegulatoryTradeIDGrp> component				
→ QuotePriceType	692	int	N	Code to represent price type requested in Quote. Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
→ ValidUntilTime	62	UTCTimestamp	N	Indicates expiration time of indication message.
→ ExpireTime	126	UTCTimestamp	N	The time when the entire trade negotiation dialog will time-out.
→ ResponseTime	1914	UTCTimestamp	N	The time by which a meaningful response should arrive back from the request recipient.
→ TransactTime	60	UTCTimestamp	N	Time transaction was entered.
→ start <SpreadOrBenchmarkCurveData> component			N	Specifies the benchmark for a floating rate repo.
→ BenchmarkCurveName	221	String	N	Indicates benchmark index. Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
→ BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
→ BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
→ BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value.  Supported values: 1 = CUSIP 4 = ISIN
→ end <SpreadOrBenchmarkCurveData> component				
→ PriceType	423	int	N	Price type for the repo rate identified in Price(44)  Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
→ Price	44	Price	N	Quoted or targeted repo rate.
→ start <Parties> component			N	
→ NoPartyIDs	453	NumInGroup	N	
→→ PartyID	448	String	N	Party identifier/code.
→→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448).  Supported values: B = BIC D = Proprietary / custom code N = Legal Entity Identifier - ISO 17442 LEI
→→ PartyRole	452	int	N	Identifies the type or role of the party.  Supported values: 3 = Client ID 11 = Order origination trader 13 = Order origination firm 28 = Custodian 30 = Agent 90 = Settlement Firm
→→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452).  Supported values: 28 = Tri-party
→ end <Parties> component				
→ TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade.

<QuoteRequest> - MsgType(35)=R				
Name	Tag	FIX Data Type	Req'd	Description
				Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 32 = Rerate
→ TradeContinuationText	2374	String	N	Free form text to specify additional information.
<i>end &lt;QuotReqGrp&gt; component</i>				
Text	58	String	N	Free form text to counterparty.
<StandardTrailer> component			Y	

### 6.1.2 Quote(35=S)

The Quote(35=S) message is used as response to a QuoteRequest(35=R) message providing the bid or offer price as requested by the initiator.

Table 3: Quote(35=S)

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardHeader> component			Y	MsgType = S
QuoteReqID	131	String	N	Conditionally required when responding to a QuoteRequest(35=R) message. Echoes QuoteReqID(131) of the original QuoteRequest(35=R) static throughout negotiation for all messages in the request.
QuoteID	117	String	Y	Unique identifier for quote assigned by the respondent.
QuoteType	537	int	N	Type of quote. Supported values: 0 = Indicative 1 = Tradeable 3 = Counter - Tradeable
TrdType	828	int	N	Type of trade. Used when rolling over an existing repo trade. Supported values: 66 = Roll trade
start <Parties> component			N	
NoPartyIDs	453	NumInGroup	N	
→ PartyID	448	String	N	Party identifier/code.
→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: B = BIC

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				D = Proprietary / custom code N = Legal Entity Identifier - ISO 17442 LEI
→ PartyRole	452	int	N	Identifies the type or role of the party.  Supported values: 1 = Executing Firm 12 = Executing Trader 28 = Custodian 30 = Agent 90 = Settlement Firm
→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452).  Supported values: 28 = Tri-party
<i>end &lt;Parties&gt; component</i>				
start <Instrument> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code.  Supported values: 13 = Financing
SecurityType	167	String	N	Indicates type of security.  Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security.  Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ).  Supported values: 0 = 1/1 1 = 30/360 (30U/360) 2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360



<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				14 = Act/365L 15 = NL365 16 = NL360
SecurityDesc	107	String	N	An optional textual description for the security.
start <EvtGrp> component			N	
NoEvents	864	NumInGroup	N	
→ EventType	865	int	N	Type of event. Conditionally required when NoEvents > 0. Supported values: 1 = Put 2 = Call
→ EventDate	866	LocalMkDate	N	Date of the event. Conditionally required when NoEvents > 0. Format YYYYMMDD.
→ EventTimePeriod	1826	int	N	Time unit multiplier for the event. If present EventTimeUnit must also appear and EventDate and EventTime may be omitted.
→ EventTimeUnit	1827	String	N	Time unit associated with the event. If present EventTimePeriod must also appear and EventDate and EventTime may be omitted. Supported values: D = Day H = Hour Min = Minute Mo = Month S = Second Wk = Week Yr = Year
<i>end &lt;EvtGrp&gt; component</i>				
<i>end &lt;Instrument&gt; component</i>				
start <FinancingDetails> component			N	
AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal
AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
AgreementDate	915	LocalMkDate	N	A reference to the date the underlying agreement was executed.
TerminationType	788	int	N	Type of financing termination. Supported values: 1 = Overnight 2 = Term 3 = Flexible

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				4 = Open
StartDate	916	LocalMktDate	N	Start date of a financing deal.
EndDate	917	LocalMktDate	N	End date of a financing deal.
DeliveryType	919	int	N	Identifies type of settlement Supported values: 0 = "Versus Payment" Deliver (if sell) or Receive (if buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free 2 = Tri-Party 3 = Hold in Custody
<i>end &lt;FinancingDetails&gt; component</i>				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral securities being specified.
→ <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified. Supported values: 1 = CUSIP 4 = ISIN
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309) Supported values: 1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral. Supported values: CORP = Corporate Bond COLLBSKT = Collateral Basket

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon FRN = US Corporate Floating Rate Note MMKT = Money Market PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest for collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage HAIRCUT = valuation discount of the security RATING = Credit rating for the collateral
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic 9 = Common 10 = Preferred 12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government 21 = Agency 22 = Corporate 24 = Money market 41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
end <UndInstrmtGrp> component				
Side	54	char	Y	Side of quote. Supported values: 1 = Buy 2 = Sell
start <OrderQtyData> component			N	
OrderQty	38	Qty	N	Cash quantity for the repo agreement. Not required for Securities-driven repo. The nominal collateral amount is specified in UnderlyingQty(879).
end <OrderQtyData> component				
Currency	15	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38). Absence of this field is interpreted as the default for the security.
SettlCurrency	120	Currency	N	ISO Currency code of the settlement currency.
start <Stipulations> component			N	Trade stipulations.
NoStipulations	232	NumInGroup	N	
→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values:

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
				HAIRCUT = Collateral value reduction in percent. MININOTICE = Minimum notice period MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)
→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2 value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc. For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
<i>end &lt;Stipulations&gt; component</i>				
BidPx	132	Price	N	Either BidPx(132) or OfferPx(133) or both should be specified.
OfferPx	133	Price	N	Either BidPx(132) or OfferPx(133) or both should be specified.
ExposureDuration	1629	int	N	Conditionally required if QuoteType(537)=1 (Tradeable) or 3 (Counter)
ExposureDurationUnit	1916	int	N	Time unit in which the ExposureDuration(1629) is expressed. Supported values: 0 = Seconds (default if not specified)

<Quote> - MsgType(35)=S				
Name	Tag	FIX Data Type	Rq'd	Description
TransactTime	60	UTCTimest amp	N	Time when quote was generated.
PriceType	423	int	N	Conditionally required when BidPx(132) and/or OfferPx(133) are specified.  Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
start <SpreadOrBenchmarkCurveData> component			N	Specifies benchmark for floating rate repo.
BenchmarkCurveName	221	String	N	Indicates benchmark index.  Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value.  Supported values: 1 = CUSIP 4 = ISIN
<i>end &lt;SpreadOrBenchmarkCurveData&gt; component</i>				
TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade.  Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 32 = Rerate
TradeContinuationText	2374	String	N	Free form text to specify additional information.
Text	58	String	N	Free form text from the counterparty.
<StandardTrailer> component			Y	

### 6.1.3 QuoteResponse(35=AJ)

The QuoteResponse(35=AJ) message is used by the initiator to respond to the Quote(35=S) message. The initiator can either end the negotiation, or hit/lift the quote, or counter the quote.

Table 4: QuoteResponse(35=AJ)

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardHeader> component			Y	MsgType = AJ
QuoteRespID	693	String	Y	Message reference of the QuoteResponse.
QuoteID	117	String	N	Conditionally required when responding to a Quote(35=S) or when sending "hit/lift" for a posted offering or quote.
QuoteReqID	131	String	N	Conditionally required when the trading dialog was initiated with an inquiry. Echoes QuoteReqID(131) of the original QuoteRequest(35=R).
QuoteRespType	694	int	Y	Identifies the type of QuoteResponse(35=AJ). Supported values: 1 = Hit/Lift 2 = Counter 3 = Expired 11 = Accept - Used in response to acknowledge an action communicated by the counterparty 12 = Terminate contract - Used to terminate an existing contract.
ClOrdID	11	String	N	Unique ID as assigned by the Initiator. Required when QuoteRespType(694) = 1 (Hit/Lift) or 2 (Counter quote)
TrdType	828	int	N	Type of trade. Used when rolling over an existing repo trade. Supported values: 66 = Roll trade
start <Parties> component			N	
NoPartyIDs	453	NumInGroup	N	
→ PartyID	448	String	N	Party identifier/code.
→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: B = BIC D = Proprietary / custom code N = Legal Entity Identifier - ISO 17442 LEI
→ PartyRole	452	int	N	Identifies the type or role of the party. Supported values: 3 = Client ID 11 = Order origination trader 13 = Order origination firm 28 = Custodian 30 = Agent 90 = Settlement Firm
→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452). Supported values: 28 = Tri-party

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
<i>end &lt;Parties&gt; component</i>				
start <Instrument> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code. Supported values: 13 = Financing - May be used for repurchase agreement
SecurityType	167	String	N	Indicates type of security. Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security. Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ). Supported values: 0 = 1/1 1 = 30/360 (30U/360) 2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360 14 = Act/365L 15 = NL365 16 = NL360
SecurityDesc	107	String	N	An optional textual description for the security.
start <EvtGrp> component			N	
NoEvents	864	NumInGroup	N	
→ EventType	865	int	N	Type of event. Conditionally required when NoEvents > 0. Supported values: 1 = Put



<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
				2 = Call
→ EventDate	866	LocalMktDate	N	Date of the event. Conditionally required when NoEvents > 0. Format YYYYMMDD.
→ EventTimePeriod	1826	int	N	Time unit multiplier for the event. If present EventTimeUnit must also appear and EventDate and EventTime may be omitted.
→ EventTimeUnit	1827	String	N	Time unit associated with the event. If present EventTimePeriod must also appear and EventDate and EventTime may be omitted. Supported values: D = Day H = Hour Min = Minute Mo = Month S = Second Wk = Week Yr = Year
<i>end &lt;EvtGrp&gt; component</i>				
<i>end &lt;Instrument&gt; component</i>				
start <FinancingDetails> component			N	
AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal
AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
AgreementDate	915	LocalMktDate	N	A reference to the date the underlying agreement was executed.
TerminationType	788	int	N	Type of financing termination. Supported values: 1 = Overnight 2 = Term 3 = Flexible 4 = Open
StartDate	916	LocalMktDate	N	Start date of a financing deal, i.e. the date the buyer pays the seller cash and takes control of the collateral.
EndDate	917	LocalMktDate	N	End date of a financing deal, i.e. the date the seller reimburses the buyer and takes back control of the collateral.
DeliveryType	919	int	N	Identifies type of settlement Supported values: 0 = "Versus Payment" Deliver (if sell) or Receive (if buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
				2 = Tri-Party 3 = Hold in Custody
<i>end &lt;FinancingDetails&gt; component</i>				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral securities being specified.
→ start <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified.  Supported values: 1 = CUSIP 4 = ISIN 7 = ISO Country Code 8 = Exchange symbol S = Financial Instrument Global Identifier (FIGI) T = Legal entity identifier (LEI)
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309)  Supported values: 1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral.  Supported values: CORP = Corporate Bond COLLSKT = Collateral Basket CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon FRN = US Corporate Floating Rate Note MMKT = Money Market

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
				PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest for collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage HAIRCUT = valuation discount of the security RATING = Credit rating for the collateral
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash 8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic 9 = Common 10 = Preferred

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
				12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government 21 = Agency 22 = Corporate 24 = Money market 41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
end <UndInstrmtGrp> component				
Side	54	char	N	Side of quote. Conditionally required when countering or hit/lift a quote. Supported values: 1 = Buy 2 = Sell
start <OrderQtyData> component			N	
OrderQty	38	Qty	N	Cash quantity for the repo agreement. Not required for Securities-driven repo. The nominal collateral amount is specified in UnderlyingQty(879).
end <OrderQtyData> component				
TerminationDate	2878	LocalMktDate	N	The date of a contract's early termination or other post-trade event when the event is prior to the contract natural or maturity not defined as part of the security's reference date or contractual terms/agreement.
Currency	15	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38). Absence of this field is interpreted as the default for the security.
start <Stipulations> component			N	Trade stipulations.
NoStipulations	232	NumInGroup	N	
→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values: HAIRCUT = Collateral value reduction in percent. MININOTICE = Minimum notice period

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
				MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICEFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)
→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2 value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc. For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
<i>end &lt;Stipulations&gt; component</i>				
Account	1	String	N	Optional initiator's trade account.
BidPx	132	Price	N	Quoted bid price/rate. Usage is relative to Side(54) = 2 (Sell).
OfferPx	133	Price	N	Quoted offer price/rate. Usage is relative to Side(54) = 1 (Buy).
ValidUntilTime	62	UTCTimest amp	N	The time when the QuoteResponse will expire.
TransactTime	60	UTCTimest amp	N	Timestamp when the business transaction represented by the message occurred.
Text	58	String	N	Free form text. Specifies reason for early termination when QuoteRespType(694)=12 (Terminate contract).

<QuoteResponse> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
Price	44	Price	N	Specifies quoted price for QuoteRespType(694)=1(Hit/Lift) and Initiator's counter price when QuoteRespType(694)=2(Counter).
PriceType	423	int	N	Indicates the price type of BidPx and OfferPx. Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
start <SpreadOrBenchmarkCurveData> component			N	Specifies benchmark for a floating rate repo.
BenchmarkCurveName	221	String	N	Indicates benchmark index. Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value. Supported values: 1 = CUSIP 4 = ISIN
<i>end &lt;SpreadOrBenchmarkCurveData&gt; component</i>				
TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade. Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 32 = Rerate
TradeContinuationText	2374	String	N	Free form text to specify additional information.
<StandardTrailer> component			Y	

### 6.1.4 QuoteStatusReport(35=AI)

The QuoteStatusReport(35=AI) message is used by the respondent as a response to a QuoteResponse(35=AJ) message. In a bilateral repo trade workflow, the message is used by the respondent to notify an early termination of an open repo trade.

<QuoteStatusReport> - MsgType(35)=AJ				
Name	Tag	FIX Data Type	Rq'd	Description
<b>&lt;StandardHeader&gt;</b> component			Y	MsgType = AJ
QuoteReqID	131	String	N	Conditionally required when the trading dialog was initiated with an inquiry. Echoes QuoteReqID(131) of the original QuoteRequest(35=R).
QuoteID	117	String	N	Contains the QuoteID(117) of a single Quote(MsgType=S).
QuoteRespID	693	String	N	Required when responding to a QuoteResponse(35=AJ) message.
<b>start &lt;Parties&gt;</b> component			N	
NoPartyIDs	453	NumInGroup	N	
→ PartyID	448	String	N	Party identifier/code.
→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: B = BIC D = Proprietary / custom code N = Legal Entity Identifier - ISO 17442 LEI
→ PartyRole	452	int	N	Identifies the type or role of the party. Supported values: 1 = Executing Firm 12 = Executing Trader 28 = Custodian 30 = Agent 90 = Settlement Firm
→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452). Supported values: 28 = Tri-party
<b>end &lt;Parties&gt;</b> component				
<b>start &lt;Instrument&gt;</b> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code. Supported values: 13 = Financing - May be used for repurchase agreement
SecurityType	167	String	N	Indicates type of security. Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security. Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for

<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				<p>elaborations (<a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a>).</p> <p>Supported values:</p> <p>0 = 1/1            1 = 30/360 (30U/360)            2 = 30/360 (SIA)            3 = 30/360M            4 = 30E/360            5 = 30E/360 ISDA            6 = Act/360            7 = Act/365 FIXED (Act/365F)            8 = Act/Act AFB            9 = Act/Act ICMA            10 = Act/Act ICMA Ultimo            11 = Act/Act ISDA            12 = BUS/252            13 = 30E+/360            14 = Act/365L            15 = NL365            16 = NL360</p>
SecurityDesc	107	String	N	An optional textual description for the security.
<i>end &lt;Instrument&gt; component</i>				
start <FinancingDetails> component			N	
AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal
AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
AgreementDate	915	LocalMktDate	N	A reference to the date the underlying agreement was executed.
TerminationType	788	int	N	<p>Type of financing termination.</p> <p>Supported values:</p> <p>1 = Overnight            2 = Term            3 = Flexible            4 = Open</p>
StartDate	916	LocalMktDate	N	Start date of a financing deal, i.e. the date the buyer pays the seller cash and takes control of the collateral.
EndDate	917	LocalMktDate	N	End date of a financing deal, i.e. the date the seller reimburses the buyer and takes back control of the collateral.
DeliveryType	919	int	N	<p>Identifies type of settlement</p> <p>Supported values:</p> <p>0 = "Versus Payment" Deliver (if sell) or Receive (if</p>



<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free 2 = Tri-Party 3 = Hold in Custody
<i>end &lt;FinancingDetails&gt; component</i>				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral securities being specified.
→ start <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified. Supported values: 1 = CUSIP 4 = ISIN 7 = ISO Country Code 8 = Exchange symbol S = Financial Instrument Global Identifier (FIGI) T = Legal entity identifier (LEI)
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309) Supported values: 1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral. Supported values: CORP = Corporate Bond COLLSKT = Collateral Basket CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon

<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				FRN = US Corporate Floating Rate Note MMKT = Money Market PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest for collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage HAIRCUT = valuation discount of the security RATING = Credit rating for the collateral
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash 8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic

<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				9 = Common 10 = Preferred 12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government 21 = Agency 22 = Corporate 24 = Money market 41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
end <UndInstrmtGrp> component				
Side	54	char	N	Side of quote. Conditionally required when countering or hit/lift a quote. Supported values: 1 = Buy 2 = Sell
start <OrderQtyData> component			N	
OrderQty	38	Qty	N	Cash quantity for the repo agreement. Not required for Securities-driven repo. The nominal collateral amount is specified in UnderlyingQty(879).
end <OrderQtyData> component				
TerminationDate	2878	LocalMktDate	N	The date of a contract's early termination or other post-trade event when the event is prior to the contract natural or maturity not defined as part of the security's reference date or contractual terms/agreement.
Currency	15	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38). Absence of this field is interpreted as the default for the security.
start <Stipulations> component			N	Trade stipulations.
NoStipulations	232	NumInGroup	N	
→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values:

<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				HAIRCUT = Collateral value reduction in percent. MININOTICE = Minimum notice period MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)
→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2 value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc. For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
<i>end &lt;Stipulations&gt; component</i>				
Account	1	String	N	Optional initiator's trade account.
Price	44	Price	N	Specifies quoted price for QuoteRespType(694)=1(Hit/Lift) and Initiator's counter price when QuoteRespType(694)=2(Counter).
PriceType	423	int	N	Indicates the price type of BidPx and OfferPx. Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
start <SpreadOrBenchmarkCurveData> component			N	Specifies benchmark for a floating rate repo.
BenchmarkCurveName	221	String	N	Indicates benchmark index.

<QuoteStatusReport> - MsgType(35)=AI				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value.  Supported values: 1 = CUSIP 4 = ISIN
<i>end &lt;SpreadOrBenchmarkCurveData&gt; component</i>				
BidPx	132	Price	N	Quoted bid price/rate. Usage is relative to Side(54) = 2 (Sell).
OfferPx	133	Price	N	Quoted offer price/rate. Usage is relative to Side(54) = 1 (Buy).
TransactTime	60	UTCTimest amp	N	Timestamp when the business transaction represented by the message occurred.
QuoteStatus	297	int	N	Identifies the status of the quote acknowledgement.  Supported values: 0 = Accepted - Used for acknowledging early termination notification. 23 = Contract terminated - Used when terminating an existing contract.
TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade.  Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 32 = Rerate
TradeContinuationText	2374	String	N	Free form text to specify additional information.
Text	58	String	N	Free form text. Specifies reason for early termination when QuoteStatus(297)=23 (Contract terminated).
<StandardTrailer> component			Y	

## 6.1.5 ExecutionReport(35=8)

The ExecutionReport(35=8) message is used by the respondent to inform the initiator that the trade has been completed. The message will re-iterate the terms of the trade and may include post-trade calculations such as accrued interest, end cash consideration, etc.

Table 5: ExecutionReport(35=8)

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardHeader> component			Y	MsgType = 8
OrderID	37	String	Y	Unique identifier for the order. Uniqueness must be guaranteed within a single trading day.
ClOrdID	11	String	Y	Echoes the value provided in ClOrdID of the QuoteResponse message for a "hit/lift" or "counter".
QuoteRespID	693	String	N	Required if responding to a QuoteResponse(35=AJ) message. Echo back the Initiator's value specified in the message.
start <Parties> component			N	
NoPartyIDs	453	NumInGroup	N	
→ PartyID	448	String	N	Party identifier/code.
→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: D = Proprietary / custom code G = MIC - ISO 10383 Market Identifier Code. N = Legal Entity Identifier - ISO 17442 LEI
→ PartyRole	452	int	N	Identifies the type or role of the party. Supported values: 1 = Executing Firm 12 = Executing Trader 28 = Custodian 30 = Agent 72 = Execution venue 90 = Settlement Firm
→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452). Supported values: 28 = Tri-party
end <Parties> component				
ExecID	17	String	Y	Unique identifier of execution message as assigned by the respondent.
ExecType	150	char	Y	Describes the purpose of the execution report. Supported values: 0 = New F = Trade (partial fill or fill)
OrdStatus	39	char	Y	Describes the status of the order, same scope as OrderQty(38), CumQty(14), LeavesQty(151), and AvgPx(6).

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: 0 = New 1 = Partially filled 2 = Filled
TrdType	828	int	N	Type of trade. Used when rolling over an existing repo trade.  Supported values: 66 = Roll trade
start <RegulatoryTradeID> component			N	
NoRegulatoryTradeIDs	1907	NumInGroup	N	
→ RegulatoryTradeID	1903	String	N	Required if NoRegulatoryTradeIDs(1907) > 0. Trade identifier required by government regulators or other regulatory organizations for regulatory reporting purposes.
→ RegulatoryTradeIDSource	1905	String	N	Identifies the reporting entity that originated the value in RegulatoryTradeID(1903). The reporting entity identifier may be assigned by a regulator.
→ RegulatoryTradeIDType	1906	int	N	Position of ID in trade hierarchy.  Supported values: 0 = Current - The default if not specified. 1 = Previous - The previous trade's identifier when reporting a cleared trade or novation of a previous trade. 5 = Trading venue transaction identifier
<i>end &lt;RegulatoryTradeID&gt; component</i>				
Account	1	String	N	Can be used to specify initiator's trade account.
start <Instrument> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code.  Supported values: 13 = Financing
SecurityType	167	String	N	Indicates type of security.  Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security.  Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ).

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: 0 = 1/1 1 = 30/360 (30U/360) 2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360 14 = Act/365L 15 = NL365 16 = NL360
SecurityDesc	107	String	N	An optional textual description for the security.
start <EvtGrp> component			N	
NoEvents	864	NumInGroup	N	
→ EventType	865	int	N	Type of event. Conditionally required when NoEvents > 0. Supported values: 1 = Put 2 = Call 20 = Minimum Notice (requires EventTimePeriod and EventTimeUnit)
→ EventDate	866	LocalMktDate	N	Date of the event. Conditionally required when NoEvents > 0. Format YYYYMMDD.
→ EventTimePeriod	1826	int	N	Time unit multiplier for the event. If present EventTimeUnit must also appear and EventDate and EventTime may be omitted.
→ EventTimeUnit	1827	String	N	Time unit associated with the event. If present EventTimePeriod must also appear and EventDate and EventTime may be omitted. Supported values: D = Day H = Hour Min = Minute Mo = Month S = Second Wk = Week Yr = Year
end <EvtGrp> component				



<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
<i>end &lt;Instrument&gt; component</i>				
start <FinancingDetails> component			N	
AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal
AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
AgreementDate	915	LocalMktDate	N	A reference to the date the underlying agreement was executed.
TerminationType	788	int	N	Type of financing termination. Supported values: 1 = Overnight 2 = Term 3 = Flexible 4 = Open
StartDate	916	LocalMktDate	N	Start date of a financing deal, i.e. the date the buyer pays the seller cash and takes control of the collateral.
EndDate	917	LocalMktDate	N	End date of a financing deal, i.e. the date the seller reimburses the buyer and takes back control of the collateral.
DeliveryType	919	int	N	Identifies type of settlement Supported values: 0 = "Versus Payment" Deliver (if sell) or Receive (if buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free 2 = Tri-Party 3 = Hold in Custody
<i>end &lt;FinancingDetails&gt; component</i>				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral being specified.
→ start <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified.

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: 1 = CUSIP 4 = ISIN
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309) Supported values: 1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral. Supported values: CORP = Corporate Bond COLLSKT = Collateral Basket CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon FRN = US Corporate Floating Rate Note MMKT = Money Market PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingDirtyPrice	882	Price	N	Used to identify the dirty price (percent-of-par or per unit) of the collateral security or basket/schedule. Dirty price includes the accrued interest of the collateral security. Used only when a specific collateral security is identified.
→ UnderlyingEndPrice	883	Price	N	Used to identify the price (percent-of-par) of the collateral security or basket/schedule at the end of

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				the agreement. Used only when a specific collateral security is identified.
→ UnderlyingStartValue	884	Amt	N	Used to identify the value of the collateral security at the start of the agreement.
→ UnderlyingCurrentValue	885	Amt	N	Used to identify the current value of the collateral security.
→ UnderlyingEndValue	886	Amt	N	Used to identify the end value of the collateral security.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest for collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage HAIRCUT = valuation discount of the security
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash 8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic 9 = Common 10 = Preferred 12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government 21 = Agency 22 = Corporate 24 = Money market

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
end <UndInstrmtGrp> component				
Side	54	char	Y	Side of trade. Will always be from the buy-side perspective. Supported values: 1 = Buy 2 = Sell
start <Stipulations> component			N	Trade stipulations.
NoStipulations	232	NumInGroup	N	
→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values: HAIRCUT = Collateral value reduction in percent. MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICEFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)
→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc. For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
<i>end &lt;Stipulations&gt; component</i>				
start <OrderQtyData> component			N	
OrderQty	38	Qty	N	Cash quantity for the repo agreement. Echoes the OrderQty value from the QuoteResponse(35=AJ).
<i>end &lt;OrderQtyData&gt; component</i>				
PriceType	423	int	N	Indicates the price type of LastPx(31). Supported values: 6 = Spread - For floating rate repo 24 = Interest rate - For fixed rate repo
Currency	15	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38), StartCash(921), and EndCash(922). Absence of this field is interpreted as the default for the security.
TimeInForce	59	char	N	Specifies how long the order remains in effect. Absence of this field indicates TimeInForce(59)=0 (Day) order. Supported values: 0 = Day (or session)
LastQty	32	Qty	N	Quantity (e.g. par) bought/sold on this (last) fill. Conditionally required when ExecType(150)=F (Trade) or G (Trade Correct).
LastPx	31	Price	N	Price of this (last) fill expressed based on type specified in PriceType(423). Conditionally required when ExecType(150)=F (Trade) or G (Trade Correct).
LastMkt	30	Exchange	N	Indicates the market where the trade was executed.
LeavesQty	151	Qty	Y	Quantity open for further execution.
CumQty	14	Qty	Y	Total cumulative quantity (e.g. par amount) filled.
AvgPx	6	Price	Y	Calculated average price of all fills on this order.
TradeDate	75	LocalMktDate	N	Indicates transaction date of the trade referenced in this message.
TransactTime	60	UTCTimestamp	N	Time the transaction represented by this ExecutionReport(35=8) occurred.
start <SpreadOrBenchmarkCurveData> component			N	Specifies the benchmark for a floating rate repo.
BenchmarkCurveName	221	String	N	Indicates benchmark index.

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value.  Supported values: 1 = CUSIP 4 = ISIN
<i>end &lt;SpreadOrBenchmarkCurveData&gt; component</i>				
AccruedInterestAmt	159	Amt	N	Amount of accrued interest at the start of the repo transaction.
EndAccruedInterestAmt	920	Amt	N	The amount of interest accrued by the repo trade and included in EndCash(922) on EndDate(917).
StartCash	921	Amt	N	Starting cash consideration or settlement money of the repo trade on StartDate(916).
EndCash	922	Amt	N	Ending cash consideration or termination money of the repo trade on EndDate(917). This includes the EndAccruedInterestAmt(920).
SettlCurrAmt	119	Amt	N	The net proceed or total amount due denominated in SettlCurrency(120).
SettlCurrency	120	Currency	N	ISO Currency code of the settlement currency.
Text	58	String	N	Free format text to be exchanged between the other parties.
<i>start &lt;TrdRegTimestamps&gt; component</i>				
NoTrdRegTimestamps	768	NumInGroup	N	
→ TrdRegTimestamp	769	UTCTimestamp	N	Required if NoTrdRegTimestamps(768) > 0. Traded / Regulatory timestamp value.
→ TrdRegTimestampType	770	int	N	Required if NoTrdRegTimestamps(768) > 0. Trading / Regulatory timestamp type.  Supported values: 1 = Execution time 2 = Time in 10 = Order submission time
<i>end &lt;TrdRegTimestamps&gt; component</i>				

<ExecutionReport> - MsgType(35)=8				
Name	Tag	FIX Data Type	Rq'd	Description
TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade. Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 32 = Rerate
TradeContinuationText	2374	String	N	Free form text to specify additional information.
<StandardTrailer> component			Y	

## 6.2 Trade Recap

### 6.2.1 TradeCaptureReport(35=AE)

The TradeCaptureReport(35=AE) message is used by the respondent to recap final terms of the trade including the post-trade calculations.

Table 6: TradeCaptureReport(35=AE)

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardHeader> component			Y	MsgType = AE
TradeReportID	571	String	N	Unique identifier for the TradeCaptureReport assigned by the sender of the message.
TradeID	1003	String	N	Identification number that is unique to the executing firm for this trade.
TradeReportTransType	487	int	N	Identifies message transaction type. Supported values: 0 = New
TradeReportType	856	int	N	Identifies the type of trade report. Supported values: 0 = Submit 2 = Accept
TrdRptStatus	939	int	N	Identifies the status of the trade. Supported values: 0 = Accepted
TrdType	828	int	N	Type of trade. Supported values: 0 = Regular trade (default if not specified) 66 = Roll trade
start <RegulatoryTradeIDGrp> component			N	

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
NoRegulatoryTradeIDs	1907	NumInGroup	N	
→ RegulatoryTradeID	1903	String	N	Required if NoRegulatoryTradeIDs(1907) > 0. Trade identifier required by government regulators or other regulatory organizations for regulatory reporting purposes.
→ RegulatoryTradeIDSource	1905	String	N	Identifies the reporting entity that originated the value in RegulatoryTradeID(1903). The reporting entity identifier may be assigned by a regulator.
→ RegulatoryTradeIDType	1906	int	N	Position of ID in trade hierarchy. Supported values: 0 = Current - The default if not specified. 1 = Previous - The previous trade's identifier when reporting a cleared trade or novation of a previous trade. 5 = Trading venue transaction identifier
<i>end &lt;RegulatoryTradeIDGrp&gt; component</i>				
PreviouslyReported	570	Boolean	N	Indicates if the trade capture report was previously reported to the counterparty or market. Supported values: N = Not reported to counterparty or market Y = Previously reported to counterparty or market
PriceType	423	int	N	Indicates the price type of price fields in the message. Supported values: 6 = Spread (basis points) - Used when spread is expressed as a rate in basis points. 24 = Interest rate.
start <Instrument> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code. Supported values: 13 = Financing
SecurityType	167	String	N	Indicates type of security. Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security. Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ).



<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: 0 = 1/1 1 = 30/360 (30U/360) 2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360 14 = Act/365L 15 = NL365 16 = NL360
SecurityDesc	107	String	N	An optional textual description for the security.
start <EvtGrp> component			N	May be used to specify events associated with the Instrument.
NoEvents	864	NumInGroup	N	
→ EventType	865	int	N	Required if NoEvents(864) > 0. Specifies the type of event. Supported values: 1 = Put 2 = Call 20 = Minimum Notice (requires EventTimePeriod and EventTimeUnit)
→ EventDate	866	LocalMkDate	N	The date of the event specified. Format YYYYMMDD
→ EventTimeUnit	1827	String	N	Time unit associated with the event. Conditionally required when EventTimePeriod(1826) is specified. Supported values: D = Day H = Hour Min = Minute Mo = Month S = Second Wk = Week Yr = Year
→ EventTimePeriod	1826	int	N	Time unit multiplier for the event. Conditionally required when EventTimeUnit(1827) is specified.
end <EvtGrp> component				

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
<i>end &lt;Instrument&gt; component</i>				
start <FinancingDetails> component			N	
AgreementDesc	913	String	N	The full name of the base standard agreement, annexes and amendments in place between the principals and applicable to this deal
AgreementID	914	String	N	A common reference to the applicable standing agreement between the counterparties to a financing transaction.
AgreementDate	915	LocalMktDate	N	A reference to the date the underlying agreement was executed.
TerminationType	788	int	N	Type of financing termination. Supported values: 1 = Overnight 2 = Term 3 = Flexible 4 = Open
StartDate	916	LocalMktDate	N	Start date of a financing deal, i.e. the date the buyer pays the seller cash and takes control of the collateral.
EndDate	917	LocalMktDate	N	End date of a financing deal, i.e. the date the seller reimburses the buyer and takes back control of the collateral.
DeliveryType	919	int	N	Identifies type of settlement Supported values: 0 = "Versus Payment" Deliver (if sell) or Receive (if buy) vs. (against) Payment 1 = "Free": Deliver (if sell) or Receive (if buy) Free 2 = Tri-Party 3 = Hold in Custody
<i>end &lt;FinancingDetails&gt; component</i>				
start <UndInstrmtGrp> component			N	
NoUnderlyings	711	NumInGroup	N	Number of underlyings. Indicates the number of collateral securities being specified.
→ start <UnderlyingInstrument> component			N	
→ UnderlyingSymbol	311	String	N	Required if NoUnderlyings(711) > 0. Used to identify name of a collateral basket. In case of an individual collateral security, use the value "[N/A]" (without quote marks) and identify the security in UnderlyingSecurityID(309).
→ UnderlyingSecurityID	309	String	N	Used to identify CUSIP or ISIN of the exact collateral security. UnderlyingSecurityIDSource (305) must be specified.
→ UnderlyingSecurityIDSource	305	String	N	Identifies class or source of the UnderlyingSecurityID(309) value. Required if UnderlyingSecurityID(309) is specified.

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				Supported values: 1 = CUSIP 4 = ISIN
→ UnderlyingProduct	462	int	N	Identifies the type of security specified in UnderlyingSecurityID(309) Supported values: 1 = Agency 2 = Commodity 3 = Corporate 6 = Government 9 = Moneymarket 10 = Mortgage 11 = Municipal
→ UnderlyingSecurityType	310	String	N	Describes the security type of the collateral. Supported values: CORP = Corporate Bond COLLSKT = Collateral Basket CS = Common Stock EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Note EUSOV = Euro Sovereigns FAC = Federal Agency Coupon FRN = US Corporate Floating Rate Note MMKT = Money Market PS = Preferred Stock TBILL = US Treasury Bill TBOND = US Treasury Bond TNOTE = US Treasury Note
→ UnderlyingMaturityDate	542	LocalMktDate	N	The maturity date of the collateral security.
→ UnderlyingCreditRating	256	String	N	Credit rating of collateral security.
→ UnderlyingCountryOfIssue	592	Country	N	ISO country code of collateral security.
→ UnderlyingIssuer	306	String	N	Name of collateral security's issuer.
→ UnderlyingSecurityDesc	307	String	N	An optional textual description for the security, index or collateral basket.
→ UnderlyingCurrency	318	Currency	N	Currency of underlying security.
→ UnderlyingQty	879	Qty	N	Unit amount of the collateral (nominal for bonds and quantity for securities).
→ UnderlyingPx	810	Price	N	Clean price of the collateral.
→ UnderlyingDirtyPrice	882	Price	N	Used to identify the dirty price (percent-of-par or per unit) of the collateral security or basket/schedule. Dirty price includes the accrued interest of the collateral security. Used only when a specific collateral security is identified.
→ UnderlyingEndPrice	883	Price	N	Used to identify the price (percent-of-par) of the

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				collateral security or basket/schedule at the end of the agreement. Used only when a specific collateral security is identified.
→ UnderlyingStartValue	884	Amt	N	Used to identify the value of the collateral security at the start of the agreement.
→ UnderlyingCurrentValue	885	Amt	N	Used to identify the current value of the collateral security.
→ UnderlyingEndValue	886	Amt	N	Used to identify the end value of the collateral security.
→ UnderlyingAccruedInterestAmt	2885	Amt	N	Amount of accrued interest of collateral security.
→ UnderlyingNumDaysInterest	2886	int	N	Number of days of interest for collateral security.
→ start <UnderlyingStipulations> component			N	
→ NoUnderlyingStips	887	NumInGroup	N	Number of stipulations. Used to describing haircut of the collateral security. Optionally used only when a specific collateral security is identified.
→→ UnderlyingStipType	888	String	N	Stipulation type. Supported values: COLLAMT = collateralization fixed amount COLLPCT = collateralization percentage HAIRCUT = valuation discount of the security
→→ UnderlyingStipValue	889	String	N	Stipulation value. For HAIRCUT and COLLPCT the value is expressed in percentage, e.g. 89% is sent as 89
→ end <UnderlyingStipulations> component				
→ UnderlyingAssetClass	2013	int	N	The broad asset category for assessing risk exposure. Supported values: 4 = Equity 5 = Commodity 7 = Cash 8 = Debt
→ UnderlyingAssetSubClass	2014	int	N	The subcategory description of the asset class. Supported values: 8 = Exotic 9 = Common 10 = Preferred 12 = Equity basket 13 = Metals 15 = Energy 17 = Agricultural 18 = Environmental 19 = Freight 20 = Government

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				21 = Agency 22 = Corporate 24 = Money market 41 = Fertilizer 42 = Industrial Product 43 = Inflation 44 = Paper 45 = Polypropylene 46 = Official Economic Statistics 47 = Other C10 48 = Other
→ end <UnderlyingInstrument> component				
end <UndInstrmtGrp> component				
LastQty	32	Qty	Y	Quantity (e.g. par) bought/sold for this trade.
LastPx	31	Price	Y	Price of this trade expressed based on type specified in PriceType.
LastMkt	30	Exchange	N	Indicates the market (MIC) where the trade was executed.
TradeDate	75	LocalMktDate	N	Indicates transaction date of the trade referenced in this message.
ClearingBusinessDate	715	LocalMktDate	N	The business date for which the trade is expected to be cleared.
AvgPx	6	Price	N	May be used to echo the value from the ExecutionReport message.
start <SpreadOrBenchmarkCurveData> component			N	Specifies the benchmark for a floating rate repo.
BenchmarkCurveName	221	String	N	Indicates benchmark index. Supported values: EONIA = Euro Overnight Index Average EUREPO = Euro Repo Rate EURIBOR = Euro Interbank Offer Rate FEDEFF = US Federal Reserve fed funds effective rate FEDOPEN = US Federal Reserve fed funds target rate LIBOR = London Interbank Offer Rate SONIA = Sterling Overnight Index Average
BenchmarkCurvePoint	222	String	N	Conditionally required if BenchmarkCurveName is present and needs to be qualified. E.g. 6M (six month) or 2Y (two year).
BenchmarkSecurityID	699	String	N	Identifies the benchmark security.
BenchmarkSecurityIDSource	761	String	N	Identifies class or source of the BenchmarkSecurityID(699) value. Supported values: 1 = CUSIP 4 = ISIN
end <SpreadOrBenchmarkCurveData> component				
TransactTime	60	UTCTimest	Y	Time the transaction represented by this

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
		amp		ExecutionReport(35=8) occurred.
start <TrdRegTimestamps> component			N	
NoTrdRegTimestamps	768	NumInGroup	N	
→ TrdRegTimestamp	769	UTCTimestamp	N	Required if NoTrdRegTimestamps(768) > 0. Traded / Regulatory timestamp value.
→ TrdRegTimestampType	770	int	N	Required if NoTrdRegTimestamps(768) > 0. Trading / Regulatory timestamp type. Supported values: 1 = Execution time 2 = Time in 10 = Order submission time
end <TrdRegTimestamps> component				
TerminationDate	2878	LocalMktDate	N	The date of a contract's early termination or other post-trade event when the event is prior to the contract natural end or maturity date.
start <TrdCapRptSideGrp> component			Y	
NoSides	552	NumInGroup	Y	
→ Side	54	char	Y	Side of the transaction. This is echoed from the ExecutionReport. Supported values: 1 = Buy 2 = Sell
→ SideExecID	1427	String	N	May be used to reference the ExecID(17) value from the ExecutionReport sent by the sell-side.
→ SideCurrency	1154	Currency	N	Identifies currency used for the cash amount specified in OrderQty(38), StartCash(921), and EndCash(922).
→ SideSettlCurrency	1155	Currency	N	ISO Currency code of the settlement currency.
→ start <Parties> component			N	
→ NoPartyIDs	453	NumInGroup	N	
→→ PartyID	448	String	N	Party identifier/code.
→→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: D = Proprietary / custom code G = MIC - ISO 10383 Market Identifier Code. N = Legal Entity Identifier - ISO 17442 LEI
→→ PartyRole	452	int	N	Identifies the type or role of the party. Supported values: 1 = Executing Firm 4 = Clearing firm 11 = Order origination trader 12 = Executing Trader

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				13 = Order Origination Firm 16 = Executing system 21 = Clearing organization 24 = Customer account 28 = Custodian 30 = Agent 36 = Entering trader 73 = Execution venue 90 = Settlement Firm
→→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452). Supported values: 28 = Tri-party
→ end <Parties> component				
→ Account	1	String	N	Initiator's trade account.
→ AccruedInterestAmt	159	Amt	N	Amount of accrued interest at the start of the repo transaction.
→ EndAccruedInterestAmt	920	Amt	N	The amount of interested accrued by the repo trade and included in EndCash(922) on EndDate(917).
→ StartCash	921	Amt	N	Starting cash consideration or settlement money of the repo trade on StartDate(916).
→ EndCash	922	Amt	N	Ending cash consideration or termination money of the repo trade on EndDate(917). This includes the EndAccruedInterestAmt(920).
→ SettlCurrAmt	119	Amt	N	The net proceed or total amount due denominated in SettlCurrency(120).
→ Text	58	String	N	Free form text.
→ start <Stipulations> component			N	Trade stipulations.
→ NoStipulations	232	NumInGroup	N	
→→ StipulationType	233	String	N	Required if NoStipulations(232) > 0. Type of stipulation. Supported values: HAIRCUT = Collateral value reduction in percent. MINDNOM = Minimum size of securities PAYFREQ = Payment frequency PRICEFREQ = Specifies rate reset calendar RATING = Minimum acceptable rating REFTRADE = Reference to rolling or closing trade REFPRIN = Principal of rolling or closing trade REFINT = Interest of rolling or closing trade PAYOFF = Interest payoff at the time of rolling or amending an existing trade. SECTOR = Indicates the sector of the collateral security STRUCT = Value for StipulationValue(234) is EGR (Evergreen) or EXT (Extendable) SUBSTITUTION = Indicates the right of collateral substitution (Y/N)

<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
→→ StipulationValue	234	String	N	Value of stipulation. The expression can be an absolute single value as noted in StipulationType(233) or a combination of values and logical operators: < value > value <= value >= value value value - value2 value OR value2 value AND value2 YES NO Examples: ">=60", ".25", "ORANGE OR CONTRACOSTA", etc. For StipulationType(233)=HAIRCUT specify a value of 5% as "5".
→ end <Stipulations> component				
→ start <TradeReportOrderDetail> component			N	
→ OrderID	37	String	N	Echoes the value from the sell-side's ExecutionReport.
→ ClOrdID	11	String	N	The value from the ExecutionReport as provided to the sell-side in the QuoteResponse - hit/lift.
→ start <OrderQtyData> component			N	
→ OrderQty	38	Qty	N	Cash quantity for the repo agreement. Echoes the OrderQty value from the QuoteResponse(35=AJ).
→ end <OrderQtyData> component				
→ end <TradeReportOrderDetail> component				
→ LastCapacity	29	char	N	Broker capacity in order execution. Applicable to MiFID II. Supported values: 1 = Agent - ESMA's "AOTC" flag. 2 = Cross as agent - ESMA's "AOTC" flag. 3 = Cross as principal - ESMA's "MTCH" flag. 4 = Principal - ESMA's "DEAL" flag. 5 = Riskless principal - ESMA's "DEAL" flag.
end <TrdCapRptSideGrp> component				
MandatoryClearingIndicator	1928	Boolean	N	An indication that the trade is flagged for mandatory clearing.
TradeCollateralization	1936	int	N	Specifies how the trade is collateralized. Supported values: 0 = Uncollateralized 1 = Partially collateralized



<TradeCaptureReport> - MsgType(35)=AE				
Name	Tag	FIX Data Type	Rq'd	Description
				3 = Fully collateralized
TradeContinuation	1937	int	N	Specifies the post-execution trade continuation or lifecycle event while negotiating for an existing repo trade. Supported values: 3 = Partial trade unwind 8 = Amendment 9 = Increase 31 = Early termination 32 = Rerate
<StandardTrailer> component			Y	

## 6.2.2 TradeCaptureReportAck(35=AR)

The TradeCaptureReportAck(35=AR) message is used by the initiator to accept/reject the TradeCaptureReport(35=AE) message.

Table 7: TradeCaptureReportAck(35=AR)

<TradeCaptureReportAck> - MsgType(35)=AR				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardHeader> component			Y	MsgType = AR
TradeReportID	571	String	N	Unique identifier for the TradeCaptureReport assigned by the sender of the message.
TradeID	1003	String	N	Identification number that is unique to the executing firm for this trade.
TradeReportTransType	487	int	N	Identifies message transaction type. Supported values: 0 = New
TradeReportType	856	int	N	Identifies the type of trade report. Supported values: 0 = Submit 2 = Accept
TrdType	828	int	N	Type of trade. Supported values: 66 = Roll trade
TrdRptStatus	939	int	N	Identifies the status of the trade. Supported values: 0 = Accepted 1 = Rejected
TrdAckStatus	1523	int	N	Identifies the status of the acknowledgement. Supported values: 0 = Accepted

<TradeCaptureReportAck> - MsgType(35)=AR				
Name	Tag	FIX Data Type	Rq'd	Description
				1 = Rejected
TradeReportRejectReason	751	int	N	Reason for rejection. Supported values: 1 = Invalid party information 2 = Unknown instrument 99 = Other
RejectText	1328	String	N	Additional rejection information.
start <Instrument> component			Y	
Symbol	55	String	Y	Use the value "[N/A]" (without quote marks) for repo transactions.
Product	460	int	N	High-level security classification code. Supported values: 13 = Financing - May be used for repurchase agreement
SecurityType	167	String	N	Indicates type of security. Supported values: REPO = Repurchase Agreement
SecuritySubType	762	String	N	Further identifies type of security. Specify 'General' for General Collateral and 'Specific' for Specific collateral with collateral identified in <UnderlyingInstrument>.
CouponDayCount	1950	int	N	The day count convention used in interest or premium calculations for a security. See the FIX standard for elaborations ( <a href="http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html">http://www.fixtradingcommunity.org/FIXimate/FIXimate3.0/latestEP/index.html</a> ). Supported values: 0 = 1/1 1 = 30/360 (30U/360) 2 = 30/360 (SIA) 3 = 30/360M 4 = 30E/360 5 = 30E/360 ISDA 6 = Act/360 7 = Act/365 FIXED (Act/365F) 8 = Act/Act AFB 9 = Act/Act ICMA 10 = Act/Act ICMA Ultimo 11 = Act/Act ISDA 12 = BUS/252 13 = 30E+/360 14 = Act/365L 15 = NL365 16 = NL360
SecurityDesc	107	String	N	An optional textual description for the security.
end <Instrument> component				

<b>&lt;TradeCaptureReportAck&gt; - MsgType(35)=AR</b>				
<b>Name</b>	<b>Tag</b>	<b>FIX Data Type</b>	<b>Rq'd</b>	<b>Description</b>
TradeDate	75	LocalMktDate	N	Indicates transaction date of the trade referenced in this message.
TransactTime	60	UTCTimestamp	N	Time the transaction represented by this message occurred.
start <TrdCapRptAckSideGrp> component			N	
NoSides	552	NumInGroup	N	
→ Side	54	char	N	Side of the transaction. This is echoed from the ExecutionReport. Supported values: 1 = Buy 2 = Sell
→ SideExecID	1427	String	N	May be used to reference the ExecID(17) value from the ExecutionReport sent by the sell-side.
→ start <Parties> component			N	
→ NoPartyIDs	453	NumInGroup	N	
→→ PartyID	448	String	N	Party identifier/code.
→→ PartyIDSource	447	char	N	Identifies class or source of the PartyID (448). Supported values: D = Proprietary / custom code G = MIC - ISO 10383 Market Identifier Code. N = Legal Entity Identifier - ISO 17442 LEI
→→ PartyRole	452	int	N	Identifies the type or role of the party. Supported values: 1 = Executing Firm 4 = Clearing firm 11 = Order origination trader 12 = Executing Trader 13 = Order Origination Firm 16 = Executing system 21 = Clearing organization 24 = Customer account 28 = Custodian 30 = Agent 36 = Entering trader 73 = Execution venue 90 = Settlement Firm
→→ PartyRoleQualifier	2376	int	N	Used to further qualify the value of PartyRole(452). Supported values: 28 = Tri-party
→ end <Parties> component				
→ Account	1	String	N	Initiator's trade account.
end <TrdCapRptAckSideGrp> component				

<TradeCaptureReportAck> - MsgType(35)=AR				
Name	Tag	FIX Data Type	Rq'd	Description
<StandardTrailer> component			Y	

## 7 Appendices

The following table maps repo terminology to FIX data elements as specified in Vol 7 of FIX-5.0.SP2 errata document and has been updated to reflect changes as suggested by recommended practices documents.

Updates including new fields, enumerations, and fields usage text are highlighted in blue.

**Table 8: Repo terminology**

Element	Description	FIX fields	Usage
Accrued interest	Start accrued interest calculated using the day count method appropriate to the underlying security	AccruedInterestAmt(159)	
Allocating entity	The party responsible for assigning specific securities and amounts to the trade	<Parties>	PartyRole(452) 39 = Allocating entity
Call or put dates	Dates on which the seller or buyer may liquidate the position	<Instrument> NoEvent(864)s <EvntGrp> EventTypes(865) EventDate(866) EventPx(867) EventText(868)	EventType(865) 1 = Put 2 = Call
Cash amount	Amount of currency	StartCash(921)	
Cash outstanding	The current balance of the cash debt	CashOutstanding(901)	
Clean price	Spot price of the security without accrued interest	<UnderlyingInstrument> UnderlyingPx(801)	
Collateral assignment reason	The reason for an initial assignment or subsequent substitution of collateral for a financing deal	CollAsgnReason(895) 0 = Initial 1 = Scheduled 2 = Time Warning 3 = Margin Deficiency 4 = Margin Excess 5 = Forward Collateral Demand 6 = Event of default 7 = Adverse tax event	
Collateral Repo value	Collateral value times the inverse of haircut, also known as the “all in” price	TotalNetValue(900)	<i>At the initial collateral assignment TotalNetValue is the sum of (UnderlyingStartValue * (1-haircut)). In a collateral substitution TotalNetValue is the sum of (UnderlyingCurrentValue * (1-haircut)).</i>
Contract currency	The base agreement currency, not necessarily the same as the payment currency	<FinancingDetails> AgreementCurrency(918)	
Currency of payments	Currency in which payments are to be made	Currency(15)	

Element	Description	FIX fields	Usage
Day count	Method for calculating accrued interest – 30/360, actual/360, actual/actual, actual/365, 30/365.	CouponDayCount(1950)	Not supported directly in the protocol – understood in the context of the underlying security type and master agreement
Delivery	Delivery or custody of underlying securities	<FinancingDetails> DeliveryType(919)	DeliveryType(919) 0 = “Versus. Payment”: Deliver (if Sell) or Receive (if Buy) vs. (Against) Payment 1 = “Free”: Deliver (if Sell) or Receive (if Buy) Free 2 = Tri-Party 3 = Hold In Custody
Dirty price	Spot price of the security including accrued interest	<UnderlyingInstrument> UnderlyingDirtyPrice(882)	
End consideration	Total cash returned at the end of the term	EndCash(922)	
End date	Close date, date of the return of the securities for money, “off” date	<FinancingDetails> EndDate(917)	
Face or cash fill	In collateral assignment and substitution dictates whether the quantity of the replacement security is to be based on par-for-par (face) or value-for-value (cash).	<Stipulations>	StipulationType=FILL StipulationValue=<face or cash>
Flex schedule	Single maturity but money-giver’s cash may be returned most often on a predetermined paydown schedule	<FinancingDetails> TerminationType(788) <Stipulations>	StipulationType=PAYFREQ StipulationValue= <dates>
Forward accrued interest	End accrued interest calculated using the day count method appropriate to the underlying security	EndAccruedInterestAmt(920)	
Forward price	<del>Price agreed to on the end leg of the transaction – will vary for indexed bonds</del>	Price2(640)	<del>Denominated in the same type as Price</del>
Frequency of substitutions	Maximum frequency – monthly, semi-annually, annually	<Stipulations>	StipulationType(233)=SUBSFREQ StipulationValue(234)=<frequency >, e.g. M
General collateral	Securities collateralizing a repurchase agreement described generally (treasuries, corporates) rather than specifically by identifier.	<Instrument> <UnderlyingInstrument> UnderlyingSecurityType(310) TREASURY PROVINCE AGENCY MORTGAGE CP CORP EQUITIES SUPRA CASH	Product(460)=13 (FINANCING) SecurityType(167)=REPO SecuritySubType(762)=GENERAL UnderlyingSecurityType(310)=TREASURY  <i>If bonds of a particular issuer or country are wanted in an RFQ and UnderlyingSecurityType is not granular enough, include UnderlyingIssuer, UnderlyingCountryOfIssue, UnderlyingProgram,</i>

Element	Description	FIX fields	Usage
			<p><i>UnderlyingRegType, and/or</i>                      &lt;UnderlyingStipulations&gt;  <i>Examples:</i>                      SecurityType(167)=REPO                      UnderlyingSecurityType(310)=MO                      RTGAGE                      UnderlyingIssuer(306)=GNMA</p> <p>SecurityType(167)=REPO                      UnderlyingSecurityType(310)=AGE                      NCY                      UnderlyingIssuer(306)=CA Housing                      Trust                      UnderlyingCountryOfIssue(592)=C                      A</p> <p>SecurityType(167)=REPO                      UnderlyingSecurityType(310)=COR                      P                      UnderlyingNoStipulations(887)=1                      UnderlyingStipulationType(888)=R                      ATING                      UnderlyingStipulationValue(889)=&gt;                      bbb-</p> <p><i>In trade and post-trade messages,                      use &lt;UnderlyingInstrument&gt; to                      describe specific parameters of the                      underlying collateral.</i></p> <p>SecurityType(167)=REPO                      SecuritySubType(762)=GENERAL                      UnderlyingSecurityType(310)=COR                      P                      UnderlyingCreditRating(256)</p>
Haircut	Reduction in market value taken on assigned securities in calculating their collateral value – based on market volatility and credit.	<p><i>For the repo as a whole:</i>                      &lt;Stipulations&gt;</p> <p><i>For individual collateral securities:</i>                      &lt;UnderlyingStipulations&gt;</p>	<p>StipulationType(233)=HAIRCUT                      StipulationValue(234)=&lt;percent&gt;</p> <p>UnderlyingStipType(888)=HAIRCUT                      UnderlyingStipValue(889)=&lt;percent&gt;</p>
Largest piece	Maximum size of securities acceptable in the transaction	<Stipulations>	<p>StipulationType(233)=MAXDNOM                      StipulationValue(234)=&lt;size&gt;</p>
Lookback days	Number of business days prior to floating rate reset date when the benchmark price will be captured and used to determine the new rate upon reset	<Stipulations>	<p>StipulationType(233)=LOOKBACK                      StipulationValue(234)=&lt;number of days&gt;</p>

Element	Description	FIX fields	Usage
Margin	The fraction of the cash consideration that must be collateralized, expressed as a percent. A MarginRatio of 102% indicates that the value of the collateral (after deducting for "haircut") must exceed the cash consideration by 2%.	<FinancingDetails> MarginRatio(898)	
Margin excess	The amount by which the total net value of collateral times margin ratio exceeds cash outstanding	MarginExcess(899)	
Market value	Dirty price times nominal amount	<i>not supported directly – see repo value</i>	
Master agreement	The name of the standard master agreement forming the basis of the financing relationship	<FinancingDetails> AgreementDesc(913) AgreementID(914) AgreementDate(915)  Current list of master agreements, amendments and annexes:  MRA 1996 Repurchase Agreement MRA 1996 Repurchase Agreement – Annex I 1997 (for FASB 125 compliance) MRA 1996 Repurchase Agreement – Amended 1997 for FASB 125 MRA 1996 International Transaction (Annex III) MRA 1996 Agency Transaction (Annex IV) MRA 1996 Forward Transaction (Annex V) MRA 1996 Buy/Sell Back Transaction (Annex VI) MRA 1996 Equity Securities Transaction (Annex VIII, Feb 1998) MRA 1996 Japanese Financial Institutions Transaction (Annex IX, Aug 2002) MRA 1987 Repurchase Agreement MRA 1987 Repurchase Agreement – Amended 1997 for FASB 125  GMRA 2000 Repurchase Agreement GMRA 2000 Agency Transaction GMRA 2000 Bills Transaction (U.K.) GMRA 2000 Forward Transaction GMRA 2000 Buy/Sell Back Transaction GMRA 2000 Equities Transaction GMRA 2000 Canadian Transaction GMRA 2000 Italian Transaction GMRA 2000 Japanese Transaction GMRA 2000 Netherlands Transaction GMRA 1995 Repurchase Agreement GMRA 1995 Buy/Sell Back Transaction GMRA 1995 Agency Transaction GMRA 1995 Repurchase Agreement – Amended for GMRA 2000 Conformance GMRA 1995 Buy/Sell Back Transaction – Amended for GMRA 2000 Conformance GMRA 1995 Agency Transaction – Amended for GMRA 2000	



Element	Description	FIX fields	Usage
		Conformance GMRA 1995 Forward Transaction (as enabled by Amendment for GMRA 2000 conformance) GMRA 1992 Repurchase Agreement  MSLA 2000 Securities Loan MSLA 2000 Agency Transaction (Annex I) MSLA 2000 Term Loan MSLA 1993 Securities Loan MSLA 1993 Agency Transaction MSLA 1993 Securities Loan – Amended 1998	
Maturity type – fixed or open	Open (term is indefinite and may be terminated by either party on demand) or Fixed (pre-determined, may be overnight or from one day to five years). Termination prior to maturity is open to negotiation.	<FinancingDetails> TerminationType(788) 1 = Overnight 2 = Term 3 = Flexible 4 = Open	
Maximum pieces	Maximum number of pieces acceptable in the transaction	<Stipulations>	StipulationType(233)=PMAX StipulationValue(234)=<count>
Minimum pieces	Minimum number of pieces acceptable in the transaction	<Stipulations>	StipulationType(233)=PMIN StipulationValue(234)=<count>
Number of substitutions	Number of substitutions permitted	<Stipulations>	StipulationType(233)=MAXSUBS StipulationValue(234)=<count>
Other dynamic stipulations		<Stipulations>	StipulationType(233)=TEXT StipulationValue(234)=<text>
Par quantity	Face or nominal value of securities	<UnderlyingInstrument> UnderlyingQty(879)	
Payment calendar	Schedule of dates based on frequency of interest payments	<Stipulations>	StipulationType(233)=PAYFREQ StipulationValue(234)= <dates>
Payment interval	Payment interval, i.e. 3 months, 6 months, etc.	<Stipulations>	StipulationType(233)=PAYFREQ StipulationValue(234)=<interval> e.g. 3M
Percent of variance	Maximum variance allowable in the value of replacement securities	<Stipulations>	StipulationType(233)=TRDVAR StipulationValue(234)=<count>
Rate reset calendar	Schedule of dates based on frequency	<Stipulations>	StipulationType(233)=PRICEFREQ StipulationValue(234)=<dates>
Rate reset interval	Reset interval, i.e. 3 months, 6 months, etc.	<Stipulations>	StipulationType(233)=PRICEFREQ StipulationValue(234)=<frequency> > e.g. 6M
Rate type	How the yield paid on the cash investment is to be calculated	PriceType(423) 9 [yield = Fixed Rate] 6 [spread = Floating Rate] <BenchmarkCurveData>  24 [Interest rate = Fixed rate]	

Element	Description	FIX fields	Usage
Repo rate	The fixed yield or yield spread paid on the cash investment	Price(44) BidPx(132) or OfferPx(133) LastPx(31) and AvgPx(6)	Repo rate is expressed in fixed interest rate or a spread to benchmark.  In RFQ and QuoteResponse (35=AJ) messages, Price(44) specifies the targeted or countered repo rate. In Quote(S) message, quoted repo rate(s) is in BidPx(132) and/or OfferPx(133). Once the trade is finalized, LastPx(31) and AvgPx(6) in trade messages will contain the traded repo rate.
Collateral Repo value	Market value rounded using the appropriate market practice convention of the security in the repo market.	<UnderlyingInstrument> UnderlyingStartValue(884) UnderlyingCurrentValue(885) UnderlyingEndValue(886)	These fields are the value (rounded market value) of each piece of collateral at the start, current and end of the deal. Haircut is not factored in these values. The respondent is free to populate these fields as needed based on the purpose of the current message, but we recommend UnderlyingStartValue(884) on initial assignment and UnderlyingCurrentValue(885) on substitution since TotalNetValue(900) is conditionalized on these actions.
Security rating range	Minimum acceptable rating on any securities involved in the transaction	<Stipulations>	StipulationType(233)=RATING StipulationValue(234)=<source / range>
Smallest piece	Minimum size of securities acceptable in the transaction	<Stipulations>	StipulationType(233)=MINDNOM StipulationValue(234)=<size>
Specific Collateral	Securities used as collateral for a repo transaction identified specifically by the trading parties.	<Instrument> <UnderlyingInstrument>	Product(460)=13 (FINANCING) SecurityType(167)=REPO SecuritySubType(762)=SPECIFIC  Specific collateral security is identified in: UnderlyingInstrument/ UnderlyingSecurityID(309) UnderlyingSecurityIDSource(305)
Spot price	Price for the start leg of the transaction	Price(44) PriceType(423) 1 = Percentage 2 = Per unit 3 = Fixed amount	
Start consideration	Total cash remitted at the beginning of the term	StartCash(921)	

Element	Description	FIX fields	Usage
Start date	Settlement date for “on” date or “start leg”	<FinancingDetails> StartDate(916)	
Trade date	Date of trade agreement	TradeDate(75)	
Type of financing deal	Attributes of the financing arrangement – Repo, Reverse Repo, Sell/Buy, Buy/Sell, Fee-based Loan, Fee-based Borrow, Loan vs. Cash, Borrow vs. Cash, Fee-based Loan vs. Cash, Fee-based Borrow vs. Cash, Master Forward Sell/Buy, Master Forward Buy/Sell, Sec Lend, Sec Borrow, Borrow Pledge  <i>Often combined with Overnight, Term, Flexible, Open</i>	<Instrument> SecurityType(167) REPO – repurchase agreement FORWARD – forward BUYSELL – buy/sellback or sell/buyback SECLOAN – securities loan SECPLEDGE – securities pledge Side(54) <FinancingDetails> TerminationType(788) StartDate(916) EndDate(917) <UnderlyingInstrument>	Product(460)=13 (FINANCING) SecurityType(167)=REPO SecuritySubType(762)=GENERAL Side(54)=<buy, sell, lend, borrow> TerminationType(788)=<type> StartDate(916)=<start> EndDate(917)=<end> UnderlyingSecurityType(310)=<type> AgreementDesc(913)=<master agreement>
Minimum notice period	Minimum number of business days that one of the counterparties has to inform the other of the termination of the transaction.	<Stipulations>  <Instrument> NoEvent(864)s <EvtGrp> EventType(865) EventTimeUnit(1827) EventTimePeriod(1826)	During the negotiation process, use <Stipulations> block: StipulationType(233)= MININOTICE (Minimum notice period) StipulationValue(234)=<days>  Once the trade is finalized, use <EvtGrp>: EventType(865)=20 (Minimum notice) Days are specified in EventTimeUnit(1827) and EventTimePeriod(1826)