

# FIA Post-Trade Standards Working Group Trade Match Report Proposal

February 14, 2012

**Revision 0.6** 

Proposal Status: Submitted Approved

For Global Technical Committee Governance Internal Use Only							
Submission Date:	Feb. 16, 2012	Control Number:	<u>EP150</u>				
Submission Status	Submitted Approved	Ratified Date	March 28, 2012				
Primary Contact Person:	Ryan Pierce, CME Group	Release Identifier:	5.0 SP3				

### DISCLAIMER

THE INFORMATION CONTAINED HEREIN AND THE FINANCIAL INFORMATION EXCHANGE PROTOCOL (COLLECTIVELY, THE "FIX PROTOCOL") ARE PROVIDED "AS IS" AND NO PERSON OR ENTITY ASSOCIATED WITH THE FIX PROTOCOL MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO THE FIX PROTOCOL (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF) OR ANY OTHER MATTER AND EACH SUCH PERSON AND ENTITY SPECIFICALLY DISCLAIMS ANY WARRANTY OF ORIGINALITY, ACCURACY, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SUCH PERSONS AND ENTITIES DO NOT WARRANT THAT THE FIX PROTOCOL WILL CONFORM TO ANY DESCRIPTION THEREOF OR BE FREE OF ERRORS. THE ENTIRE RISK OF ANY USE OF THE FIX PROTOCOL IS ASSUMED BY THE USER.

NO PERSON OR ENTITY ASSOCIATED WITH THE FIX PROTOCOL SHALL HAVE ANY LIABILITY FOR DAMAGES OF ANY KIND ARISING IN ANY MANNER OUT OF OR IN CONNECTION WITH ANY USER'S USE OF (OR ANY INABILITY TO USE) THE FIX PROTOCOL, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, LOSS OF DATA, LOSS OF USE, CLAIMS OF THIRD PARTIES OR LOST PROFITS OR REVENUES OR OTHER ECONOMIC LOSS), WHETHER IN TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY), CONTRACT OR OTHERWISE, WHETHER OR NOT ANY SUCH PERSON OR ENTITY HAS BEEN ADVISED OF, OR OTHERWISE MIGHT HAVE ANTICIPATED THE POSSIBILITY OF, SUCH DAMAGES.

**DRAFT OR NOT RATIFIED PROPOSALS** (REFER TO PROPOSAL STATUS AND/OR SUBMISSION STATUS ON COVER PAGE) ARE PROVIDED "AS-IS" TO INTERESTED PARTIES FOR DISCUSSION ONLY. PARTIES THAT CHOOSE TO IMPLEMENT THIS DRAFT PROPOSAL DO SO AT THEIR OWN RISK. IT IS A DRAFT DOCUMENT AND MAY BE UPDATED, REPLACED, OR MADE OBSOLETE BY OTHER DOCUMENTS AT ANY TIME. THE FPL GLOBAL TECHNICAL COMMITTEE WILL NOT ALLOW EARLY IMPLEMENTATION TO CONSTRAIN ITS ABILITY TO MAKE CHANGES TO THIS SPECIFICATION PRIOR TO FINAL RELEASE. IT IS INAPPROPRIATE TO USE FPL WORKING DRAFTS AS REFERENCE MATERIAL OR TO CITE THEM AS OTHER THAN "WORKS IN PROGRESS". THE FPL GLOBAL TECHNICAL COMMITTEE WILL ISSUE, UPON COMPLETION OF REVIEW AND RATIFICATION, AN OFFICIAL STATUS ("APPROVED") TO THE PROPOSAL AND A RELEASE NUMBER.

No proprietary or ownership interest of any kind is granted with respect to the FIX Protocol (or any rights therein).

Copyright 2003-2012 FIX Protocol Limited, all rights reserved

### **Table of Contents**

Document History
<u>1</u> Introduction
2 Business Workflow
3 Issues and Discussion Points
4 Proposed Message Flow
5 FIX message tables
5.1 FIX Message TradeMatchReport(35=DC)
5.2 FIX Message TradeMatchReportAck(35=DD)
6 FIX component blocks
6.1 Component InstrmtMatchSideGrp
6.2 Component TrdMatchSideGrp
6.3 Component TrdInstrmtLegExecGrp
Appendix A - Data Dictionary
Appendix B - Glossary Entries
Appendix C – Abbreviations
Appendix D - Usage Examples

# Table of Figures

### **Document History**

Revision	Date	Author	Revision Comments
0.02	2008-11-03	Niranjana Sharma, CME Group	Initial Proposal as part of FIA Trade Reporting Gap Analysis
0.1	2011-09-02	Hanno Klein, Deutsche Börse Group	Moved initial proposal to standalone Gap Analysis and added detailed descriptions, added standard fields that have been added to the TCR since the initial draft and made other corrections.
0.2	2011-11-8	Hanno Klein, Deutsche Börse Group Ryan Pierce, CME Group	Modified proposal following FIA PTWG onsite meeting in Chicago on October 13-14 <sup>th</sup> , 2011 as follows: Moved the price and quantity related fields from the message level to the Instrument Match Side level. Added new field TrdMatchSubID. TrdInstrmtLegGrp changed to InstrmtLegGrp. FillsGrp replaced with new component TrdInstrmtLegExecGrp, modeled from InstrmtLegExecGrp. Added additional discussion points.
0.3	2011-12-13	Hanno Klein, Deutsche Börse Group Ryan Pierce, CME Group	Additional proposed changes to address outstanding issues: Use of TradeReportType instead of TradeReportTransType. TradeMatchSubID moved to InstrmtMatchSideGrp level, allowing multiple match steps in one message. Rename ExecutionTimestamp to TradeMatchTimestamp. Add TransactTime. Clarified use of quantities. Changed TradeMatchQty to Quantity(53). Added recommendation for Application Message Sequencing. InstrmtMatchSideGrp is optional, conditionally required on trade submission. Removed SecondaryExecID and ExecType. Added SideTradeID. Move TradingSessionID and TradingSessionSubID to root level. Added fields LegExecID, LegTradeID, LegTradeReportID. Added Trade Match Report Ack message.

			Added AvgPxGroupID.
0.4	2012-01-24	Hanna K1	
0.4	2012 01 21	Hanno Klein, Deutsche Börse Group	Clarified comments for TrdMatchID and NoInstrmtMatchSides, as well as for several fields in TrdMatchSideGrp.
	Ryan Pierce, CME Group		Added new fields SideMarketSegmentID, SideVenueType, and existing field MatchType.
			Moved fields and components SideTradeReportID, TrdMatchSideGrp, PriceType. Text, ExcodedTextLen, EncodedText.
			Added new MDStats group.
			Removed SideMultiLegReportingType.
			Added ClearingFeeIndicator to TrdMatchSideGrp. Also added SideClearingTradePrice, SidePriceDifferential, and SideClearingTradePriceType from the "OCC Extensions for Submission of SLEDS" Gap Analysis.
			Change TrdMatchSideGrp inclusion of TradeReportOrderDetail from required to optional to align with the TradeCaptureReport.
0.5	2012-01-24 2012-02-07	L. Taikitsadaporn	Clean up editing to indicate which field usage reference text to be included in the Repository.
	2012-02-07		Added to Data Dictionary table proposed updates to descriptions for ClearingBusinessDate(715) and MultiLegReportingType(442).
			Updated Section 3 to
			• recind the proposed new component MDStatsGrp until additional analysis can be conducted
0.6	2012-02-08 2012-02-14	L. Taikitsadaporn	Updates/edits after the Feb. 8 2012 FIA PTWG call.
	2012-02-14		Updated Section 3 to list fields that were removed from the new components.
			Updated Section 2 to remove duplicate information and reference to a Powerpoint for discussion around workflows and usage of the TradeMatchReport message.
			Clarified some field usage references.
			LegOrderQty(685) was kept in TrdInstrmtLegExecGrp component.
			MatchType(574) moved up to the main TradeMatchReport message level.
ASBUILT	2012-04-04	R. Shriver	Assigned TBD values for ASBUILT.
	2012-04-25	<u>L. Taikitsadaporn</u>	Added Data Dictionary descriptions for two new

			fields that were missing from the dictionary table.
	<u>2012-04-28</u> 2012-05-04	<u>L. Taikitsadaporn</u>	Edits made to clarify message/component synopsis texts or field/component usage reference texts. Clarified enum value 3 of TradeMatchRejectReasion(1897).

### 1 Introduction

The FIA/FOA Post Trade Working Group (PTWG) has the objective to come up with a comprehensive set of business processes, work flows and message flows supported by the major Clearing entities in Europe and the United States. The effort started by identifying all the business processes supported by CCPs in Europe and US today. The effort is being coordinated by the FIA.

Since FIX had extensive support for Post Trade messaging for listed derivates, FIX messages were used as a starting point for the message definition phase. This effort included agreeing on a common message dictionary and message flows. This document describes the proposed extensions to the FIX post trade messages and message flows required to support all the business processes and workflows by the CCPs.

The following new messages are proposed to support submission of matched trades (including complex match events with support for implied matches) from an Exchange to a CCP.

#### TradeMatchReport

TradeMatchReport messages are used by exchanges and ECN's to report matched trades to CCPs as an atomic event. The messages are used to express the one-to-one, one-to-many and many-to-many matches as well as implied matches in which complex instruments can match with simple instruments.

#### TradeMatchReportAcknowledgement

TradeMatchReportAcknowledgement messages are optionally used by CCPs to acknowledge the receipt of a TradeMatchReport. Their primary use is to send a negative acknowledgement to the exchange indicating a problem with a TradeMatchReport.

#### 2 Business Workflow

The TradeMatchReport (TMR) extends the capabilities of the TradeCaptureReport(MsgType=AE) which is limited to a single instrument and a maximum of two sides. Technically, the TradeCaptureReport would allow more sides as it is a repeating group but it is intended to cover a single trade between only two parties.

Please refer to the accompany Powerpoint slide deck for workflows covered by this proposal. (Note: the material will be incorporated into this gap analysis during the Global Technical Committee review and public comment period of the proposal).

#### **3** Issues and Discussion Points

• Do we need TrdInstrmtLegGrp within InstrmtMatchSideGrp which has many additional fields or is InstrmtLegGrp sufficient which only allows to identify the multi-leg instrument? TCR uses TrdInstrmtLegGrp and the TMR is supposed to be identical to the TCR, just with another repeating group around instruments and allowing more than two sides per instrument.

Resolution: InstrmtLegGrp will be used. Legs can be identified with LegID, and referenced by the LegRefID field in the TrdInstrmtLegExecGrp.

• What was the purpose of having LastQty and LastPx on the root level?

Resolution: Moved these fields from the root message level to the Instrument Match Side level.

• Should InstrmtMatchSideGrp be required, as it is now? If TradeReportTransTyp is cancelling, releasing, reversing, or backing out a match event, does everything need to be specified?

• Do we need Ref ID's for cancellation, modification, etc.?

Resolution: No. An entity level identifier (TrdMatchID) which does not change will be retained. This requires reliable sequencing.

• Why is SecondaryExecID on the root level of the TMR message?

Resolution: Remove, along with ExecType.

• How do we represent IDs if Mass Quote participates in a match cycle?

Resolution: This is already covered. TradeReportOrderDetail, as well as Execution Report, contain comments about use of ClOrdID and SecondaryClOrdID for this purpose.

• Do we need a TMR Ack?

Resolution: Yes. Added.

• Do we want to support fragmentation for the TMR?

Resolution: Not at this time. This can be considered if a business need emerges.

• Need Average Price Grouping in TMR.

Resolution: Added AvgPxGroupID to the TrdMatchSideGrp.

Open Issue: Do we need any field at the side level for the average price itself?

- The initial proposal for a MDStatsGrp has been recinded from this proposal for the time being to avoid premature decision on this new requirement. A future gap analysis will be conducted which will also be reconciled with over all market data statistics requirements.
- Removed fields related to FX and Fixed Income asset types until further analysis can be conducted and when there is a business requirement to support these asset types in the TradeMatchReport message. Additionally some other fields were removed as it was determined as not needed in a TradeMatchReport by the first groups of implementors. Should future requirements be presented to the Global Technical Committee that requests some of these fields be added to the message, the request would be considered. Below lists the fields removed from the new components from earlier drafts of this proposal:

InstrmtMatchSideGrp component	TrdMatchSideGrp component	TrdInstrmtLegExecGrp component
CalculatedCcyLastQty(1056)	RptSeq(83)	LegSwapType(690)
LastParPx(669)	ProcessCode(81)	LegStipulations component
LastSpotRate(194)	NumDaysInterest(157)	LegAllocID(1366)
LastForwardPoints(195)	ExDate(230)	LegPreAllocGrp component
LastSwapPoints(1071)	AccruedInterestRate(158)	LegSettlType(587)
MDStatsGrp component	AccruedInterestAmt(159)	LegSettlDate(588)
	InterestAtMaturity(738)	LegLastForwawrdPoints(1073)
	EndAccruedInterestAmt(920)	LegCalculatedCcyLastQty(1074)
	StartCash(921)	LegGrossTradeAmt(1075)
	EndCash(922)	LegVolatility(1379)
	Concession(238)	LegDividendYield(1381)

TotalTakedown(237)	LegCurrencyRatio(1383)
NetMoney(118)	LegExecInst(1384)
SettlCurramt(119)	
SettlCurrFxRate(155)	
SettlCurrFxRateCalc(156)	
SideMultiLegReportingType(752)	

### 4 Proposed Message Flow

The primary identifier for the TradeMatchReport is a business-level identifier, TrdMatchID(tbd). This ID does not change during the life cycle of the match event, even if the match event is amended or cancelled. As such, the TradeMatchReport does not have, nor does it need, a reference ID field. Amending a TradeMatchReport entails sending another TradeMatchReport message with the same TrdMatchID(tbd) and an appropriate TradeReportType(856).It follows that issues with unreliable message delivery, including reordering and duplication, could be difficult to detect. As such, best practices for TradeMatchReport include:

- 1. Use of Application Message Sequencing (via the ApplicationSequenceControl component) to detect and correct gaps, duplication, and reordering of messages is recommended.
- 2. Alternately, or in conjunction with Application Message Sequencing, middleware providing reliable, ordered message delivery can be used. Note that some reliable middleware may not be able to handle all types of errors.

### 5 FIX message tables

#### 5.1 FIX Message TradeMatchReport(35=TBDDC)

Message Name		TradeMatchReport			
Message Abbreviated Name (for FIXML)		TrdMtchRpt			
Category		Post Trade			
Message Synopsis	matched trades used to express	hReport( <u>35=DC</u> ) message_is used by exchanges and ECN's to report to central counterparties (CCPs) as an atomic event. The message is the one-to-one, one-to-many and many-to-many matches as well as s in which more complex instruments can match with simpler			
Message Elaboration					
To be finalized by FPL Technical Office					
(MsgType(tag 35) Enumeration		DC			
Repository Component ID		<u>139</u>			

Tag	FieldName	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments
StandardHeader		Y			MsgType = <u>DC</u> TBD
<appl:< td=""><td>nent block icationSequenceControl&gt;</td><td>N</td><td></td><td>ADD</td><td></td></appl:<>	nent block icationSequenceControl>	N		ADD	
880	TrdMatchID	Y	Trade match identifier assigned in the matching engine and used to correlate a cleared trade with a match event. Should be common for all trades included in a match event. Conditionally required for trades reported from a matching platform.	ADD	Unique identifier common for all trades included in a match event.
574	MatchType	N		ADD	
856	TradeReportType	N	Identifies the type of trade. Can indicate new submissions, addendums, cancellations, etc.	ADD	
715	ClearingBusinessDate	N	The business date for which the trade is expected to be cleared	ADD	
828	TrdType	Ν		ADD	
829	TrdSubType	N		ADD	
75	TradeDate	N		ADD	Used when reporting other than current day trades.
1301	MarketID	Ν		ADD	
1300	MarketSegmentID	Ν		ADD	
336	TradingSessionID	N		ADD	
625	TradingSessionSubID	N		ADD	
1430	VenueType	N	Identifies the type of venue where a trade was executed	ADD	
1888 THĐ	TradeMatchTimestamp	N	Timestamp of the trade or match event. For off-exchange trades the time at which the deal was negotiated or matched by the exchange. This timestamp will be the same on all the trades and will not change when a trade is modified.	NEW	
60	TransactTime	N	Indicates time of the transaction. Used after initial submission to indicate time of addendum, cancellation, etc.	ADD	Time of the match event or transaction that resulted in this match report.
442	MultiLegReportingType	N	Type of report if multileg instrument.	ADD	Differentiates match events involving complex instruments (MultiLegReportingType(4 42)=3(multi-leg security)) from those only involving simple instruments

February 14, 2012 - Revision 0.6

Tag	FieldName	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments
					(MultiLegReportingType(4 42)=1(single security)). MultiLegReportingType(4 42)=2(individual leg of multi-leg security) should not be used.
<b>_</b>	nent block ntMatchSideGrp>	N	Match sides per instrument. This is conditionally required when submitting a new trade, e.g. TradeReportType = Submit (0).	NEW	Conditionally required when TradeReportType(856) = Submit(0).
Standa	rdTrailer	Y			

# 5.2 FIX Message TradeMatchReportAck(35=TBDDD)

Message Name		TradeMatchReportAck		
Message Abbreviated Name (for FIXML)		TrdMtchRptAck		
Category		Post Trade		
Message Synopsis	TradeMatchRep	hReportAck(35=DD) is Uused to acknowledgeto respond to the a port(35=DC) message. It may be used to report on the status of the cepting the request or rejecting the request).		
Message Elaboration				
To be finalized by FPL Technical Office				
(MsgType(tag 35) Enumeration		DD		
Repository Component ID		<u>140</u>		

Tag	FieldName	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments
Standa	rdHeader	Y			MsgType = <u>DD</u> TBD
compo	nent block	Ν		ADD	
<appli< td=""><td>icationSequenceControl&gt;</td><td></td><td></td><td></td><td></td></appli<>	icationSequenceControl>				
880	TrdMatchID	Y	Indicates the Match ID of the	ADD	Identifier of the
			Trade Match Report being		TradeMatchReport(35=D
			acknowledged.		C) being acknowledged.
<u>1896</u>	<b>TradeMatchAckStatus</b>	Y		NEW	
TBD					
1897 TBD	TradeMatchRejectReason	Ν		NEW	Conditionally required
TBD					when
					TradeMatchAckStatus(tb
					$\frac{41896}{2}$ = Rejected(2).
1328	RejectText	Ν		ADD	
1664	EncodedRejectTextLen	Ν		ADD	

Tag	FieldName	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments
1665	EncodedRejectText	Ν		ADD	
58	Text	Ν		ADD	
354	EncodedTextLen	Ν		ADD	
355	EncodedText	Ν		ADD	
Standa	rdTrailer	Y			

### 6 FIX component blocks

ſ

#### 6.1 Component InstrmtMatchSideGrp

Component Name		InstrmtMatchSideGrp				
Component Abbreviated N FIXML)	fame (for	InstrmtMtchSide				
Component Type		_X_Block RepeatingBlock				
Category						
Component Synopsis		tchSideGrp component is used to convey all trades for a given match by instrument and trade side.				
Component Elaboration	Each trade match report can contain any number of trades for any number of instruments. This component contains all instruments together with all of the trade sides (possibly more than two) that occurred for each -instrument within the same match event.					
	To be finalized by FPL Technical Office					
Repository Component ID		2217				

	Comp	onent FIX	XML Abbreviation: <instrmtm< th=""><th>tchSide&gt;</th><th></th></instrmtm<>	tchSide>	
Tag	FieldName	Req'd	Mapping Usage and	Action	FIX Spec Comments
			Comments		
<mark>1889</mark>	NoInstrmtMatchSides	Ν	Number of instrument	NEW	
TBD			match sides that are part of		
			the same match event		
$\rightarrow$	Component Block <instrument></instrument>	Ν	Insert here the set of	ADD	Required if
			"Instrument" (symbology)		NoInstrmtMatchSides( <u>1889</u> tbd)
			fields defined in "Common		> 0.
			Components of		
			Application Messages"		
$\rightarrow$	Component Block	Ν	Identifies a Multi-leg	ADD	LegID(1788) in the
	<instrmtleggrp></instrmtleggrp>		Execution if present. Note		InstrmtLegGrp component can
			that LegID should be		be used to reference individual
			present if individual leg		leg executions are-referenced in
			executions will be		the TrdInstrmtLegExecGrp
			referenced in		component with

	-			TrdInstrmtLegExecGrp.		LegRefID(654).
<b>→</b>		onent Block InstrmtGrp>	N		ADD	
<b>→</b>	<u>1891</u> TBD	TrdMatchSubID	N	Can be used to identify distinct price levels within a match event, e.g. Match Steps or Clips.	NEW	
→ 	53	Quantity	N		NEW	Total quantity for this instrument in this match event. This is the cumulative sum of LastQty(32) for all match steps for this instrument.
$\rightarrow$	15	Currency	Ν		ADD	
→	120	SettlCurrency	N	Contra currency of the deal. Used to qualify CalculatedCcyLastQty	ADD	
$\rightarrow$	854	QtyType	Ν		ADD	
<b>&gt;</b>	32	LastQty	N	Trade Quantity for this instrument within this Match Step. This is determined as follows: For each TrdMatchSideGrp instance contained within this InstrmtMatchSideGrp instance, sum the SideLastQty field if the Side is a buy. Likewise, take the sum if the side is a sell. LastQty will be the greater of these two sums.	ADD	Required if NoInstrmtMatchSides(tbd1889) > 0. Trade quantity for this instrument within this match step. The value is the greater of the sum of SideLastQty(1009) of each side (i.e. buy or sell) for each TrdMatchSideGrp instance within the current InstrmtMatchSideGrp instance.
>	423	PriceType	N	(NB: removing this field usage comment as it is too specific with the mention of "cabinet trade price" to make thi msg applicable to any traded securities.)	ADD	Can be used to qualify LastPx(31) when the price is cabinet trade price.
<b>→</b>	31	LastPx	N	Trade Price.	ADD	Required if NoInstrmtMatchSides( <del>tbd</del> 1889) > 0.
$\rightarrow$	30	LastMkt	N		ADD	
<mark>→</mark>	→ Component Block <trdmatchsidegrp></trdmatchsidegrp>				NEW	Required if NoInstrmtMatchSides(tbd_1889) > 0.

### 6.2 Component TrdMatchSideGrp

ſ

Component Name		TrdMatchSideGrp				
Component Abbreviated Name (for FIXML)		TrdMtchSide				
Component Type		_X_ Block Repeating Block				
Category						
Component Synopsis		SideGrp component conveys all trade sides for a single instance of the ideGrp component.				
Component Elaboration	Component Elaboration					
To be finalized by FPL Technical Office						
Repository Component ID		2218				

		Comp	onent FIXML	Abbreviation: <trdmtchsid< th=""><th>de&gt;</th><th></th></trdmtchsid<>	de>	
Tag	FieldN	Name	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments
<u>1890</u> TBD	<mark>NoTrc</mark>	IMatchSides	N	Number of trade match sides	NEW	
→	54	Side	N		ADD	Required if NoTrdMatchSides( $\frac{\text{tbd}_{189}}{0}$ ) > 0.
<b>→</b>	1427	SideExecID	N	This refers to the ExecID of the execution being reported. Used in trade reporting models that utilize different execution IDs for each side of the trade. This is used when reporting a trade with two or more sides.	ADD	
<b>→</b>	<u>1900</u> TBD	SideExecRefID	N		NEW	
→	1506	SideTradeID	N		ADD	
→	1005	SideTradeReportID	N	Used to indicate the report ID for this trade match side.	ADD	
→	1428	OrderDelay	N	Time lapsed from order entry until match, based on the unit of time specified in OrderDelayUnit. Default is seconds if OrderDelayUnit is not specified. Value = 0,	ADD	

<b> </b>		1				1
				indicates the aggressor		
				(the initiating side of the		
				trade)		
$\rightarrow$	1429	OrderDelayUnit	Ν	Used in conjunction	ADD	
				with OrderDelay to		
				specify the time unit		
				being expressed.		
				Default is "seconds" if		
				not specified.		
	1000	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	N	Used to indicate the		Dec. in 110
	1009	SideLastQty	Ν		ADD	Required if
				quantity for this trade		NoTrdMatchSides( <u>1890</u> tb
				match side.		(d) > 0.
						Used to indicate the
						matched quantity for this
						trade side as a result of
						the match event.
→	1597	SideClearingTradePrice	Ν	Used to indicate a side	ADD	
	1077	2100 creating trader free	- 1	specific alternate		
				clearing price.		
	1500	SidePriceDifferential	NT	Used to indicate the	ADD	+
→	1599	SidePriceDifferential	Ν		ADD	
				Price Differential		
				between the first and		
				second leg of a complex		
				instrument.		
$\rightarrow$	1598	SideClearingTradePriceTyp	Ν	Used to indicate whether	ADD	
		e		the trade is clearing		
				using execution price or		
				alternate clearing price.		
→	1006	SideFillStationCd	Ν	Used for order routing to	ADD	
	1000	Sider instationed	1	indicate the Fill Station	ADD	
				Code for this trade		
				match side.		
$\rightarrow$	1007	SideReasonCd	Ν	Used to indicate the	ADD	
				reason for execution for		
				this trade match side.		
$\rightarrow$	1008	SideTrdSubTyp	Ν	Used to support multi-	ADD	
		• •		sided orders of different		
				trade types.		
$\rightarrow$	430	NetGrossInd	N	Code to represent	ADD	+
	-50	1 WOODSHID	11	whether value is net		
				(inclusive of tax) or		
<u> </u>	1171			gross.	105	
$\rightarrow$	1154	SideCurrency	Ν	Used to identify the	ADD	
				currency of the trade		
				match side.		
$\rightarrow$	1155	SideSettlCurrency	Ν	Used to identify the	ADD	
		-		settlement currency of		
				the trade match side.		
$\rightarrow$	compo	onent block <parties></parties>	Ν	Insert here the set of	ADD	Required if
	compo	none block vi urties/	11	"Parties" (firm		NoTrdMatchSides(tbd189
				identification) fields		$\underline{0}$ ) > 0.
				defined in "Common		
				Components of		

				Application Massages"		
	570	TradalamutSource	N	Application Messages"		
$\rightarrow$ $\rightarrow$	578 579	TradeInputSource	<u>N</u> N		ADD	+
		TradeInputDevice			ADD	
$\rightarrow$	376	ComplianceID	N		ADD	
$\rightarrow$	377	SolicitedFlag	N		ADD	
→	582	CustOrderCapacity	Ν	The customer capacity for this trade.	ADD	
$\rightarrow$	943	TimeBracket	Ν		ADD	
→	77	PositionEffect	Ν		ADD	For use in derivatives omnibus accounting.
<b>→</b>	825	ExchangeRule	Ν	Used to report any exchange rules that apply to this trade.	ADD	
→	826	TradeAllocIndicator	Ν	Identifies if the trade is to be allocated.	ADD	
$\rightarrow$	591	PreallocMethod	Ν		ADD	
$\rightarrow$	70	AllocID	Ν		ADD	
<b>→</b>	compo	onent block < TrdAllocGrp>	Ν		ADD	
$\rightarrow$	1072	SideGrossTradeAmt	Ν		ADD	
$\rightarrow$	1057	AggressorIndicator	Ν		ADD	
<b>→</b>	1139	ExchangeSpecialInstruction s	Ν		ADD	
<b>→</b>	1690	SideShortSaleExemptionRe ason	Ν		ADD	
$\rightarrow$	1115	OrderCategory	Ν		ADD	
$\rightarrow$	819	AvgPxIndicator	Ν		ADD	
→	1731	AvgPxGroupID	Ν	Identifies the average price group for the trade.	ADD	
*	1898 TBD	SideMarketSegmentID	Ν	Used instead of MarketSegmentID(1300) ) when market segment may be different across sides. Note that the market cannot be different across sides and is specified in MarketID(1301).	NEW	Can be used if the match event results in matches across different market segments for this side.
<b>→</b>	<u>1899</u> <del>TBD</del>	SideVenueType	Ν	Used instead of VenueType(1430) when venue type may be different across sides.	NEW	Can be used if the match event results in matches across different venue types for this side.
$\rightarrow$	635	ClearingFeeIndicator	Ν		ADD	
→		nent block eReportOrderDetail>	Ν	Carries order related details.	ADD	
<b>→</b>	compo <trdir< th=""><th>nent block nstrmtLegExecGrp&gt;</th><th>Ν</th><th>Specifies the partial fills of the order related to the current trade match side.</th><th>ADD</th><th></th></trdir<>	nent block nstrmtLegExecGrp>	Ν	Specifies the partial fills of the order related to the current trade match side.	ADD	
$\rightarrow$	1031	CustOrderHandlingInst	Ν		ADD	
$\rightarrow$	1032	OrderHandlingInstSource	Ν		ADD	
<b>→</b>	58	Text	Ν	May be used by the executing market to	ADD	Can be used to include text included in the order

				record any execution Details that are particular to that market.		submission.
<b>→</b>	354	EncodedTextLen	N	Must be set if EncodedText field is specified and must immediately precede it.	ADD	
<b>→</b>	355	EncodedText	N	Encoded (non-ASCII characters) representation of the Text field in the encoded format specified via the MessageEncoding field.	ADD	
			7</td <td>TrdMtchSide&gt;</td> <td></td> <td></td>	TrdMtchSide>		

#### 6.3 Component TrdInstrmtLegExecGrp

Component Name		TrdInstrmtLegExecGrp					
Component Abbreviated Name (for FIXML)		LegExec					
Component Type		_X_Block RepeatingBlock					
Category							
Component Synopsis		strmtLegExecGrp component block comprises individual executions for e side of a trade match report for a specific instrument.					
Component Elaboration							
To be finalized by FPL Technical Office							
Repository Component ID		2219					

	Component FIXML Abbreviation: <legexec></legexec>								
Tag	FieldNo	ıme	Req'd	Mapping Usage and Comments	Action	FIX Spec Comments			
<u>189</u> <u>2</u> <del>T</del> BD	NoLegI	Execs	N	Number of legs. Identifies a Multi-leg Execution if present and non-zero.	ADD				
→ 	654	LegRefID	N	Required when NoLegs > 0. Used to identify a specific leg.	ADD	Required if NoLegExecs(tbd <u>1892</u> ) > 0.			
<b>→</b>	<u>1893</u> TBD	LegExecID	N		NEW				
$\rightarrow$	<u>1901</u>	LegExecRefID	N		NEW				

	TBD					
<b>→</b>	<mark>1894</mark> TBD	LegTradeID	Ν		NEW	
<b>→</b>	<u>1895</u> TBD	LegTradeReportID	Ν		NEW	
$\rightarrow$	685	LegOrderQty	Ν		ADD	
→	564	LegPositionEffect	Ν	Provide if the PositionEffect for the leg is different from that specified for the overall multileg security	ADD	Can be used to specify the position effect for the leg if it is different from the position effect of the overall multi-leg security.
→   	565	LegCoveredOrUncovered	Ν	Provide if the CoveredOrUncovered for the leg is different from that specified for the overall multileg security.	ADD	Can be used to specify whether the option is a cover, if it is different from the overall multi-leg security.
$\rightarrow$	compon	ent block <nestedparties3></nestedparties3>	Ν		ADD	
<b>→</b>	637	LegLastPx	N	Used to report the execution price assigned to the leg of the multileg instrument	ADD	
$\rightarrow$	686	LegPriceType	Ν		ADD	
$\rightarrow$	675	LegSettlCurrency	Ν		ADD	
<b>→</b>	1689	LegShortSaleExemptionRea son	Ν	Optional when LegSide (624) = 6 (Short sale exempt)	ADD	
$\rightarrow$	1418	LegLastQty	Ν		ADD	
$\rightarrow$	1591	LegQtyType	Ν		ADD	

### Appendix A - Data Dictionary

Tag	Field Name	Action	Data type	Description	FIXML	Add to / Deprecate from Message
					Abbreviation	type or Component block
35	MsgType	CHANGE	String	DCTBD = TradeMatchReport		
				DDTBD = TradeMatchReportAck		
<u>1888</u>	TradeMatchTimestam	<mark>NEW</mark>	<b>UTCTime</b>	Timestamp of the match event. For off-	@MtchTS	Add to TradeMatchReport
TBD	<mark>p</mark>		stamp	exchange trades the time at which the deal was		
				matched by the exchange.		
				This timestamp will be the same on all the		
				trades and will not change when a trade is modified.		
<mark>1889</mark>	NoInstrmtMatchSides	<mark>NEW</mark>	NumInGr	Number of instrument match sides.		Add to InstrmtMatchSideGrp
TBD			oup			
<u>1890</u>	NoTrdMatchSides	NEW	<mark>NumInGr</mark>	Number of trade match sides.		Add to TrdMatchSideGrp
TBD			oup			
<u>1891</u>	TrdMatchSubID	<mark>NEW</mark>	String	Used to identify each price levels within a	@MtchSubID	Add to TradeMatchReport
TBD				match event, e.g. each match steps or clips.		
<u>1892</u>	NoLegExecs	<mark>NEW</mark>	NumInGr	Number of instrument leg executions.		Add to TrdInstrmtLegExecGrp
TBD		NICXX	oup	$\mathbf{T} = \mathbf{D} (17) = 1 = \mathbf{D} (17)$		
1893 TBD	LegExecID	<mark>NEW</mark>	String	The ExecID(17) value corresponding to a trade	@ExecID	Add to TrdInstrmtLegExecGrp
	LegTradeID	NEW	String	leg. The TradeID(1003) value corresponding to a	@TrdID	Add to TrdInstrmtLegExecGrp
1894 TBD	Leginadel		Sung	trade leg.		Add to TrainstructegExecorp
1895	LegTradeReportID	NEW	String	The TradeReportID(571) value corresponding	@RptID	Add to TrdInstrmtLegExecGrp
TBD	Legradereportib	<b>112</b>	Sams	to a trade leg.	Ciepub	ride to fremsenicegezeeoip
1896	TradeMatchAckStatus	NEW	int	Used to indicate the status of the trade match	@MtchAckStat	Add to TradeMatchReportAck
TBD				report submission.		
				Valid values:		
				0 = Received, not yet processed		
				1 = Accepted		
				2 = Rejected		

1897 780	TradeMatchRejectRea son	NEW	int [Reserved 100Plus]	Reason the trade match report submission was rejected. Valid values: 0 = Successful (default) 1 = Invalid party information 2 = Unknown instrument 3 = Unauthorized_Not authorized_to report trades 4 = Invalid trade type 99 = Other	<mark>@RejRsn</mark>	Add to TradeMatchReportAck
1898 TBD	SideMarketSegmentID	NEW	String	Identifies the market segment of the side.	@MktSegID	Add to TrdMatchSideGrp
1899 <del>1</del> BD	Side Venue Type	NEW	<mark>char</mark>	Identifies the type of venue where the trade was executed for the side. [Uses enums from VenueType(1430)]	@VenuTyp	Add to TrdMatchSideGrp
1900 TBD	SideExecRefID	NEW	<u>String</u>	Used to reference the value from SideExecID(1427).	@ExecRefID	Add to TrdMatchSideGrp
1901 TBD	LegExecRefID	NEW	<u>String</u>	Used to reference the value from LegExecID(1893).	@ExecRefID	Add to TrdInstrmtLegExecGrp
715	ClearingBusinessDate	CHANGE		The business date for which the trade is expected to be cleared. Identifies the Business Date		
442	MultiLegReportingTy pe	CHANGE		Used to indicate how the multi-legged security (e.g. option strategies, spreads, etc.) is being reported. Used to indicate what an Execution Report represents (e.g. used with multi-leg securities, such as option strategies, spreads, etc.).		

### **Appendix B - Glossary Entries**

Term	Definition	Field where used

#### Appendix C – Abbreviations

Term	Proposed Abbreviation	Proposed Messages, Components, Fields where used

### **Appendix D - Usage Examples**