CME Group

Product Reference File
Security Definition Message - Futures

Futures trading is not suitable for all investors, and involves the risk of loss. Futures are a leveraged investment, and because only a percentage of a contract's value is required to trade, it is possible to lose more than the amount of money deposited for a futures position. Therefore, traders should only use funds that they can afford to lose without affecting their lifestyles. And only a portion of those funds should be devoted to any one trade because they cannot expect to profit on every trade.

All references to options refer to options on futures.

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All matters pertaining to rules and specifications herein are made subject to and are superseded by official CME, CBOT, and NYMEX rules. Current rules should be consulted in all cases concerning contract specifications.

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1.0 Security Definition Message – Futures

The Security Definition message is used to define an individual security or set of securities for futures. This is used for outrights that are not options (i.e. futures, forwards, or swaps).

1.1 Security Definition Message – Implementation Rules

1.1.1 Recommended Uses

- The Security Definition message is independent of venue. For a given future, the Security Definition will provide data on all relevant venues (Market Segments) and their corresponding trading rules.
- A comprehensive Security Definition is generated for all venues in which that security participates.
- If a Market Segment other than "All" is in use, additional trading rules are to be included only if different than default rules. Otherwise, all trading rules conform to the default Market Segment rules

1.1.2 Explanation of Message Structure

- Security Definition message carries MarketID + MarketSegmentID at the main level as optional fields.
- Security Definition message has a repeating Market Segment Group which allows all venues in which a security participates to be specified in the definition of that security.
- If venue is not applicable then N/A will be used and trading rules will be provided.
- If a Market Segment ID other than ALL is in use, additional trading rules are to be included only if different from the default rules. Otherwise, all trading rules conform to the default Market Segment rules.

1.2 Security Definition Message – Futures

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
Security Definition/SecDef/						
964	SecurityReportID	RptID	Integer	Unique identifier for the Security Report.	7	N/A
715	ClearingBusinessDate	BizDt	Date	The "Clearing Business Date" referred to by this maintenance request.	2008-05-17	Current Date
/SecDef/ Instrmt						
48	SecurityID	ID	String(20)	Security identifier value identifies the instrument as it is know to Clearing.	LC	N/A
22	SecurityIDSource	Src	String(10)	Identifies class or source of the SecurityID (48) value. Required if SecurityID is specified. 100+ are reserved for private security identifications.	H	H = Clearing House / Clearing Organization
1227	ProductComplex	ProdCmplx	String	Identifies an entire suite of products for a given market. In Futures this may be "interest rates", "agricultural", "equity indexes", etc.	INT	N/A
167	Security Type	SecTyp	String(5)	Indicates type of instrument.	FUT	FUT=Future
762	SecuritySubType	SubTyp	String(5)	Sub-type qualification/identification of the SecurityType (e.g. for SecurityType="REPO"), or the CFICode if SecurityType is not specified. If specified, SecuirtyType or CFICode is required.	N/A	N/A
200	MaturityMonthYear	MMY	String	Month and Year of the maturity (used for standardized futures and options). A specific date or can be appended to the MaturityMonthYear.	200904	YYYYMM

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
207	SecurityExchange	Exch	String(5)	Market used to help identify a security.	CME	CME CBT NYMEX COMEX DME CMD (Credit Default Swaps specific) CCE CEE
107	SecurityDesc	Desc	String	Can be used to provide an optional textual description for a financial instrument.	LIVE CATTLE FUTURES	N/A
965	Security Status	Status	Integer	Denotes the current state of the Instrument.	1	1 = Active 2 = Inactive
55	Symbol	Sym	String(20)	Represents the ITC product description-need to clarify.	LE	N/A
541	Maturity Date	MatDt	Date	Date of maturity or Settlement Date.	2009-04-30	YYYY-MM-DD
1242	FlexProduct EligibilityIndicator	FlexProdElig	String(1)	Used to indicate if a product or group of product supports the creation of flexible securities.	Y	Y= Yes N=No
1244	FlexibleIndicator	FlexInd	String(1)	Used to indicate a derivatives security is defined using flexible terms. The terms commonly permitted to be defined by market participants are expiration date and strike price.	N	Y=Yes N=No
231	ContractMultiplier	Mult	Integer	The Contract Value Factor is the multiplier that converts an actual price to an actual contract value.	250	N/A
969	MinPriceIncrement	MinPxIncr	Integer	Minimum price increase for a given exchange-traded Instrument.	N/A	N/A
996	UnitofMeasure	UOM	String(10)	The unit of measure of the underlying commodity upon which the contract is based.	USD LBS	AUD,GRAMS BBL,PLN GBP,BRL TON GAL,ZAR NOK KFW,DEM, NZD,RMB SEK TRYOZ USD,BDFT CHF,CHF IPNT,JPY BU,CZK LBS EUR,CWT, MXN CAD,RYR

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
1147	UnitOfMeasureQty	UOMQty	Integer	Used to indicate the quantity of the underlying commodity unit of measure on which the contract is based, such as, 2500 lbs of lean cattle, 1000 barrels of crude oil, 1000 bushels of corn, etc. UnitofMeasureQty is required for UnitofMeasure (996) Variable Quantity UOMs enumerations.	1000000	N/A
1191	PriceUnitofMeasure	PxUOM	String(10)	Used to express the UOM of the price if different from the contract.In futures, this can be different for cross-rate products in which the price is quoted in units differently from the contract.	LBS	AUD,GRAMS BBL,PLN GBP,BRL TON GAL,ZAR NOK KFW,DEM, NZD,RMB SEK TRYOZ USD,BDFT CHF,CHF IPNT,JPY BU,CZK LBS EUR,CWT, MXN CAD,RYR
1192	PriceUnitOfMeasureQty	PxUOMQty	Integer	Used to express the UOM Quantity of the price if different from the contract. In futures, this can be different for physically delivered products in which price is quoted in a unit size different from the contract, i.e. a Cattle Future contract has a UOMQty of 40,000 and a PriceUOMQty of 100.	100	N/A
1196	PriceQuoteMethod	PxQteMeth	String(10)	Method for price quotation.	Int	STD = Standard, money per unit of a physical INX = Index INT = Interest rate Index
1193	SettlMethod	SettlMeth	String(10)	Settlement Method of a contract can be used as an alternative to CFI Code Value.	P	C = CASH or DELVC(Cash settlement required) P = DELIV(Physical settlement required)

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
1197	FuturesValuationMethod	FutValMeth	String	For futures, indicates type of valuation method applied.	FUT	EQTY = premium style FUT = FUTURE(futures style mark-to-market) FUTDA = futures style with an attached cash adjustment FWD=FORWARD
1198	ListMethod	ListMeth	Integer	Indicates whether instruments are pre-listed only or can also be defined via user request.	0	0 = pre-listed only 1 = user requested 2=Undefined
/SecDef/ Instrmt/AID						
455	SecurityAltID	AltID	String	Alternate Security identifier value for this security of SecurityAltIDSource (456) type (e.g. CUSIP, SEDOL, ISIN, etc). Requires SecurityAltIDSource.	LC 200904	N/A
456	SecurityAltIDSource	AltIDSrc	String	Identifies class or source of the SecurityAltID (455) value. Required if SecurityAltID is specified.	H	O=Floor H = Clearing House / Clearing Organization TCC=100 ITC=101 IXM=102 Globex=103
SecDef/Instrmt/ Evnt						
865	Event Type	EventTyp	Integer(1)	Code to represent the type of event.	5	5 = Activation or First Day of Trading 7 = Last Eligible Trade Date 19 = Position Removal Date 15 = Initial Inventory Due Date 18 = Last Intent Date 13 = First Delivery Date 14 = Last Delivery Date 17 = First Intent Date 16 = Final Inventory Due Date 19 = Position Removal Date
866	EventDate	Dt	Date	Date of event.	2006-10-13	YYYY-MM-DD
SecDef / InstrmtExt						

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
871	InstrAttribType	Typ	String(5)	Code to represent the type of instrument attribute.	27	23 = Price tick rules for security. 24 = Trade type eligibility details for security. 25 = Instrument Denominator 26 = Instrument Numerator 27 = Instrument Price Precision 28 = Instrument Strike Price 29 = Tradeable Indicator
872	InstrAttribValue	Val	String	Attribute value appropriate to the InstrAttribType (87) field.	N	Typ 24,Val=0 — Regular Typ 24,Val=1 — Block Typ 24,Val=2 — EFP Typ 24,Val=11 — EFR Typ 24,Val=12 — EFS Typ 24,Val=22 — Generic PNT Typ 24,Val=23 — SUB Typ 24,Val=3 — TRANSFER Typ 24,Val=54 — OTC Typ 24,Val=55 — EBF

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
						Typ = 23,Val = 04 tickTable
						Typ = 27,Val = 3 fractionalPricePrecision
						Typ = 25,Val = 32 priceDemonimator
						Typ = 26,Val = 4 priceNumerator
						Typ = 28,Val = 3 strikePricePrecision
						Typ = 29,Val = T tradableIndicator
SecDef / MktSegGrp						
1301	MarketID	MktID	String(5)	Identifies the market that lists and trades the instrument.	CME	N/A
1300	MarketSegmentID	MktSegID	String(10)	Identfies the market segment.	All	All Electronic, Pit, Ex-Pit
SecDef / MktSegGrp / SecTrdgRules/ BaseTrdgRules/TickRules						
1206	StartTickPriceRange	StartTickPxRng	Integer	Starting price range for specified tick increment.	50.0000000	N/A
1207	EndTickPriceRange	EndTickPxRng	Integer	Ending price range for the specified tick increment.	120.0000000	N/A
1208	TickIncrement	TickIncr	Integer	Tick increment for stated price range. Specifies the valid price increments at which a security can be quoted and traded.	0.0025000	N/A

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
1209	TickRuleType	TickRuleTyp	String(5)	Specifies the type of tick rule which is being described.	0	0=REGULAR 1=VARIABLE 2=FIXED 3=TRADED_AS_SPRD_LEG 4=SETTLED_AS_SPRD_LEG
SecDef / MktSegGrp / SecTrdgRules/ BaseTrdgRules						
562	MinTradeVol	MinTrdVol	Integer	The minimum trading volume for a security.	N/A	N/A
1140	MaxTradeVol	MaxTrdVol	Integer	The maximum order quantity that can be submitted for a security.	N/A	N/A
1144	ImpliedMarketIndicator	ImpldMktInd	Integer	Indicates that an implied market should be created for either the legs of a multi-leg instrument (Implied-in) or for the multi-leg instrument based on the existence of the legs (Implied-out). Determination as to whether implied markets should be created is generally done at the level of the multi-leg instrument.	N/A	0 = Not implied 1 = Implied-in - The existence of a multi-leg instrument is implied by the legs of that instrument 2 = Implied-out - The existence of the underlying legs are implied by the multi-leg instrument 3 = Both Implied-in and Implied-out
SecDef / MktSegGrp /SecTrdgRules/ BaseTrdgRules/ PxLmts						
1306	PriceLimitType	PxLmtTyp	Integer	Describes how the price limits are expressed.	0	0 = Price 1 = Tick 2 = PCT(percentage)
1148	LowLimitPrice	LowLmtPx	Integer	Allowable low limit price for the trading day. A key parameter in validating order price. Used as the lower band for validating order prices. Orders submitted with prices below the lower limit will be rejected.	92.7200000	N/A

Tag	FIX Attribute	FIXML Name	Data type	Description	Sample Data	Valid Values CME Group
1149	HighLimitPrice	HighLmtPx	Integer	Allowable high limit price for the trading day. A key parameter in validating order price. Used as the upper band for validating order prices. Orders submitted with prices above the upper limit will be rejected.	96.7200000	N/A
1150	TradingReferencePrice	TrdgRefPx	Integer	Reference price for the current trading price range usually representing the mid price between the HighLimitPrice and LowLimitPrice. The value may be the settlement price or closing price of the prior trading day.	N/A	N/A
SecDef / MktSegGrp /SecTrdgRules/TrdgSesRulesGrp/TrdgSesRules						
TrdgSesRules Grp	TradingSessions RulesGrp					
336	TradingSessionId	SesID		N/A	Set SesId='NA' on FIXML output	N/A
SecDef / MktSegGrp /SecTrdgRules/TrdgSesRulesGrp/TrdgSesRules/OrdTypRules						
40	OrdType	OrdTyp	String	Specifies the order types that are valid for trading. The scope of the rule is determined by the context in which the component is used. In this case, the scope is trading session.	1 2 3	1=LIMIT 2=MARKET 3=STOP

2.0   Revision History

Version	Date	Author	Description
1.0	7/31/08	NU	Initial version of document.
1.1	7/20/10	NU	Add valid values for tag 207-Exch.