

S&P Capital IQ's Real-Time Solutions

QuantFEED® Feed Description

NASDAQ UTP Feed

Reference n°: 20130830



S&P Capital IQ's Real-Time Solutions (QuantHouse®) – QuantFEED®
QuantFEED® Feed Description
Reference 20130830
August 30, 2013

Corporate Headquarters

S&P Capital IQ's Real-Time Solutions (QuantHouse®)
52 Rue de la Victoire
75009 Paris
France
Tel: +33 (0) 1 73 02 32 11
Fax: +33 (0) 1 73 02 32 12

UK Office

10 Foster Lane
London EC2V 6HR
United Kingdom
Tel: +44 (0) 203 107 1676

US Offices

55 Water Street, 44th floor
New York, NY 10041
United States of America
Tel: +1-(212)-438-4346

130 East Randolph
One Prudential Plaza, Suite 2900
Chicago, IL 60601
United States of America
Tel: +1-(312)-233-7129

www.quanthouse.com

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QUANTFEED® NASDAQ UTP FEED DESCRIPTION

As part of S&P Capital IQ's Real-Time Solutions's QuantFEED® documentation, this feed description provides you with details about the types of data broadcast on the NASDAQ UTP market data stream, their possible values and current QuantFEED® technical implementation.

The topics this feed description covers include:

- [1. Referential Data](#)
- [2. Quotation Data](#)
- [3. Special Behavior](#)
- [4. Official Closing Price](#)
- [5. Finding the Latest Information.](#)

1. Referential Data

The following sections describe the characteristics of the referential data on NASDAQ UTP market data stream, in terms of:

- [1.1. Available Markets and Branches](#)
- [1.2. Types of Instruments](#)
- [1.3. Specific Referential Tags.](#)

1.1. Available Markets and Branches

This section details the list of markets and branches available on NASDAQ UTP market data stream:

- [1.1.1. Markets](#)
- [1.1.2. Branches.](#)

1.1.1. Markets

The NASDAQ UTP market data stream broadcasts informations about the following markets:

Table 1 List of markets available on NASDAQ UTP market data stream

QuantFEED® Market ID	Market
CBSX	CBOE Stock Exchange
EDGA	New York Direct Edge A
EDGX	New York Direct Edge X
BATY	BATS Y-Exchange
XBOS	Boston Stock Exchange
XCHI	Chicago Stock Exchange
XCIS	National Stock Exchange
Xudf	NASDAQ UTP Data Feed National BBO
XASE	American Stock Exchange
XISX	International Securities Exchange
XNAS	New York NASDAQ
XNYS	New York Stock Exchange
XPHL	Philadelphia Stock Exchange
ARCX	NYSE ARCA
BATS	BATS Exchange
XADF	FINRA Alternative Display Facility

The following example shows the list of markets available on NASDAQ UTP market data stream and their IDs, returned by the command dumps:

```
MARKETS
market # 35      CC=US/UNITED STATES OF AMERICA/CHICAGO,DESCR=CBOE STOCK EXCHANGE,
WEB=www.cbsx.com
  MIC = CBSX
  TimeZone = America/Chicago
  Country = US
  NbMaxInstruments = 0
market # 149     CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=DIRECT EDGE A,
WEB=www.directedge.com
  MIC = EDGA
  TimeZone = America/New_York
  Country = US
  NbMaxInstruments = 0
market # 157     CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=DIRECT EDGE X,
WEB=www.directedge.com
  MIC = EDGX
  TimeZone = America/New_York
  Country = US
  NbMaxInstruments = 0
market # 158     CC=US/UNITED STATES OF AMERICA/,DESCR=BATS Y-Exchange,WEB=www.directedge.com
  MIC = BATY
  TimeZone = America/New_York
  Country = US
  NbMaxInstruments = 0
```

(see next page)

```

MARKETS CONTINUED
market # 299    CC=US/UNITED STATES OF AMERICA/BOSTON,DESCR=BOSTON STOCK EXCHANGE,
WEB=www.bostonstock.com
    MIC = XBOS
    TimeZone = America/Boston
    Country = US
    NbMaxInstruments = 0
market # 307    CC=US/UNITED STATES OF AMERICA/CHICAGO,DESCR=CHICAGO STOCK EXCHANGE; INC.,
WEB=www.chx.com
    MIC = XCHI
    TimeZone = America/Chicago
    Country = US
    NbMaxInstruments = 0
market # 308    CC=US/UNITED STATES OF AMERICA/CHICAGO,DESCR=NATIONAL STOCK EXCHANGE,
WEB=www.cincinnatistock.com
    MIC = XCIS
    TimeZone = America/Chicago
    Country = US
    NbMaxInstruments = 0
market # 319    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=NASDAQ UTP Data Feed National
BBO, WEB=www.nasdaq.com
    MIC = Xudf
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 324    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=AMERICAN STOCK EXCHANGE,
WEB=www.amex.com
    MIC = XASE
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 329    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=INTERNATIONAL SECURITIES
EXCHANGE; LLC., WEB=www.iseoptions.com
    MIC = XISX
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 330    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=NASDAQ, WEB=www.nasdaq.com
    MIC = XNAS
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 336    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=NEW YORK STOCK EXCHANGE; INC.,
WEB=www.nyse.com
    MIC = XNYS
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 338    CC=US/UNITED STATES OF AMERICA/PHILADELPHIA,DESCR=PHILADELPHIA STOCK
EXCHANGE, WEB=www.phlx.com
    MIC = XPHL
    TimeZone = America/Philadelphia
    Country = US
    NbMaxInstruments = 0

```

(see next page)

```

MARKETS CONTINUED
market # 359    CC=US/UNITED STATES OF AMERICA/NEW YORK,DESCR=NYSE ARCA,
WEB=www.archipelago.com
    MIC = ARCX
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 444    CC=US/UNITED STATES OF AMERICA/KANSAS CITY,DESCR=BATS EXCHANGE,
WEB=www.batstrading.com
    MIC = BATS
    TimeZone = America/New_York
    Country = US
    NbMaxInstruments = 0
market # 511    CC=US/UNITED STATES OF AMERICA/WASHINGTON/NEW YORK,DESCR=FINRA ALTERNATIVE
DISPLAY FACILITY, WEB=www.finra.org
    MIC = XADF
    TimeZone = America/Washington
    Country = US
    NbMaxInstruments = 0

```

1.1.2. Branches

The example below shows the list of branches available on NASDAQ UTP market data stream, returned by the command `dumps`. Each branch displays the following details: `FOSMarketID`, `SecurityType`, `CFICode` and `Quantity` (of instruments):

```

BRANCHES
{ CBSX CS    ESXXXX } qty: 2700
{ CBSX NONE EUXXXX } qty: 24
{ CBSX NONE RXXXXX } qty: 2
{ CBSX PS    EPXXXX } qty: 47
{ CBSX WAR   RWXXXX } qty: 44
{ EDGA CS    ESXXXX } qty: 2745
{ EDGA NONE EUXXXX } qty: 27
{ EDGA NONE RXXXXX } qty: 7
{ EDGA PS    EPXXXX } qty: 49
{ EDGA WAR   RWXXXX } qty: 47
{ EDGX CS    ESXXXX } qty: 2745
{ EDGX NONE EUXXXX } qty: 27
{ EDGX NONE RXXXXX } qty: 7
{ EDGX PS    EPXXXX } qty: 49
{ EDGX WAR   RWXXXX } qty: 47
{ BATY CS    ESXXXX } qty: 2740
{ BATY NONE EUXXXX } qty: 25
{ BATY NONE RXXXXX } qty: 3
{ BATY PS    EPXXXX } qty: 46
{ BATY WAR   RWXXXX } qty: 40
{ XBOS CS    ESXXXX } qty: 2732
{ XBOS NONE EUXXXX } qty: 21
{ XBOS NONE RXXXXX } qty: 4
{ XBOS PS    EPXXXX } qty: 46
{ XBOS WAR   RWXXXX } qty: 38
{ XCHI CS    ESXXXX } qty: 2679
{ XCHI NONE EUXXXX } qty: 27

```

(see next page)

BRANCHES CONTINUED

```

{ XCHI NONE RXXXXX } qty: 7
{ XCHI PS   EPXXXX } qty: 45
{ XCHI WAR  RWXXXX } qty: 49
{ XCIS CS   ESXXXX } qty: 2737
{ XCIS NONE EUXXXX } qty: 20
{ XCIS NONE RXXXXX } qty: 5
{ XCIS PS   EPXXXX } qty: 49
{ XCIS WAR  RWXXXX } qty: 44
{ Xudf CS   ESXXXX } qty: 2760
{ Xudf NONE EUXXXX } qty: 27
{ Xudf NONE RXXXXX } qty: 7
{ Xudf PS   EPXXXX } qty: 49
{ Xudf WAR  RWXXXX } qty: 49
{ XASE CS   ESXXXX } qty: 152
{ XASE PS   EPXXXX } qty: 1
{ XNAS CS   ESXXXX } qty: 2760
{ XNAS NONE EUXXXX } qty: 27
{ XNAS NONE RXXXXX } qty: 7
{ XNAS PS   EPXXXX } qty: 49
{ XNAS WAR  RWXXXX } qty: 49
{ XPHL CS   ESXXXX } qty: 2349
{ XPHL NONE EUXXXX } qty: 14
{ XPHL NONE RXXXXX } qty: 3
{ XPHL PS   EPXXXX } qty: 21
{ XPHL WAR  RWXXXX } qty: 14
{ ARCX CS   ESXXXX } qty: 2745
{ ARCX NONE EUXXXX } qty: 27
{ ARCX NONE RXXXXX } qty: 6
{ ARCX PS   EPXXXX } qty: 49
{ ARCX WAR  RWXXXX } qty: 48
{ BATS CS   ESXXXX } qty: 2745
{ BATS NONE EUXXXX } qty: 27
{ BATS NONE RXXXXX } qty: 6
{ BATS PS   EPXXXX } qty: 49
{ BATS WAR  RWXXXX } qty: 48
{ XADF CS   ESXXXX } qty: 2760
{ XADF NONE EUXXXX } qty: 27
{ XADF NONE RXXXXX } qty: 7
{ XADF PS   EPXXXX } qty: 49
{ XADF WAR  RWXXXX } qty: 49

```

1.2. Types of Instruments

The following sections illustrate the instruments' characteristics on NASDAQ UTP market data stream, according to their type:

- [1.2.1. Equities](#)
- [1.2.2. Rights](#)
- [1.2.3. Warrants.](#)

1.2.1. Equities

The sample below illustrates the details of an equity:

```
instr # 330/500965 = 692561125
  PriceCurrency      string{USD}
  Symbol             string{MSFT}
  Description         string{MICROSOFT CORP}
  SecurityType       string{CS}
  FOSMarketId        XNAS
  CFICode            string{ESXXX}
  RoundLot           float64{100}
  SecuritySubType    string{C}
  InternalCreationDate Timestamp{2012-03-26 08:03:00:063}
  InternalModificationDate Timestamp{2012-11-21 09:03:00:347}
  InternalSourceId   uint16{58}
  InternalAggregationId uint16{58}
  LocalCodeStr       string{MSFT}
  ForeignFOSMarketId XNAS
  PriceIncrement_dynamic_TableId uint32{3801188}
```

1.2.2. Rights

The sample below illustrates the details of a right:

```
instr # 330/503144 = 692563304
  PriceCurrency      string{USD}
  Symbol             string{CELGZ}
  Description         string{CELGENE CP CVR}
  SecurityType       string{NONE}
  FOSMarketId        XNAS
  CFICode            string{RXXXX}
  RoundLot           float64{100}
  SecuritySubType    string{R}
  InternalCreationDate Timestamp{2012-03-26 08:03:00:021}
  InternalModificationDate Timestamp{2012-08-31 08:03:00:376}
  InternalSourceId   uint16{58}
  LocalCodeStr       string{CELGZ}
  ForeignFOSMarketId XNAS
  PriceIncrement_dynamic_TableId uint32{3801188}
```

1.2.3. Warrants

The sample below illustrates the details of a warrant:

```
instr # 330/500918 = 692561078
PriceCurrency      string{USD}
Symbol             string{CRESW}
Description         string{CRESUD S.A.C.I.F. Y}
SecurityType       string{WAR}
FOSMarketId        XNAS
CFICode            string{RWXXXX}
RoundLot           float64{100}
SecuritySubType    string{W}
InternalCreationDate Timestamp{2012-03-26 08:03:00:046}
InternalModificationDate Timestamp{2012-08-31 08:03:00:394}
InternalSourceId   uint16{58}
LocalCodeStr       string{CRESW}
ForeignFOSMarketId XNAS
PriceIncrement_dynamic_TableId uint32{3801188}
```

1.3. Specific Referential Tags

The following sections describe additional, specific referential tags, available on NASDAQ UTP market data stream:

- [1.3.1. Price Currency](#)

1.3.1. Price Currency

The values of the referential tag **Price Currency** conveyed on the NASDAQ UTP market data stream are disseminated via QuantFEED®'s data stream in *Referential* to identify the currency used for the price.

QuantFEED®'s implementation of the values currently available for the tag PriceCurrency is described in the table below:

Table 2 PriceCurrency – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	PriceCurrency	QuantFEED® tag name.
Numeric ID	15	QuantFEED® unique ID disseminated on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , identifying the currency used for the price.
Possible Values	USD	US Dollar

2. Quotation Data

The following sections describe the characteristics of the quotation data on NASDAQ UTP market data stream, in terms of:

- [2.1. Quotation Values](#)
- [2.2. Trading Status](#)
- [2.3. Specific Quotation Tags.](#)

2.1. Quotation Values

The examples below shows the possible values of an instrument on NASDAQ UTP market data stream:

```
InstrumentStatusL1
-- 319/501377
    BID: 14.59      1500
    ASK: 14.6       2200
    LastPrice                float64{14.6}
    LastTradeQty             float64{100}
    DailyHighPrice           float64{15}
    DailyLowPrice            float64{14.32}
    DailyTotalVolumeTraded   float64{8237482}
    DailyTotalAssetTraded    float64{121225428.4199}
    LastTradePrice           float64{14.6}
    LastTradeTimestamp       Timestamp{2013-08-14 15:06:41:336}
    InternalDailyOpenTimestamp Timestamp{2013-08-14 09:00:00:179}
    InternalDailyCloseTimestamp Timestamp{2013-08-14 01:00:00:029}
    InternalDailyHighTimestamp Timestamp{2013-08-14 13:34:43:521}
    InternalDailyLowTimestamp Timestamp{2013-08-14 14:32:02:416}
    InternalPriceActivityTimestamp Timestamp{2013-08-14 15:06:41:338}
    LowLimitPrice            float64{13.8}
    HighLimitPrice           float64{15.25}
    TradingStatus            17=ReadyToTrade
    DailyOpeningPrice        float64{14.62}
    PreviousDailyTotalVolumeTraded float64{7966423}
    PreviousDailyTotalAssetTraded float64{119517731.0189}
    PreviousDailyClosingPrice float64{14.8}
    PreviousBusinessDay      Timestamp{2013-08-13}
    CurrentBusinessDay       Timestamp{2013-08-14}
    LimitUpLimitDownIndicator char{A}
    PriceActivityMarketTimestamp Timestamp{2013-08-14 15:06:41:336}
```

For more details about the fields and tags available in quotation data type, and their possible values, see *FeedOS™ Quotation Tags Guide*.

2.2. Trading Status

Each time a modification of the trading status occurs, the values of the quotation tag **Trading Status** conveyed on the NASDAQ UTP market data stream are disseminated via QuantFEED®'s data stream in *Other Values*:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED®'s implementation of the tag TradingStatus is described in the following table:

Table 3 TradingStatus – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	TradingStatus	QuantFEED® tag name.
Numeric ID	9100	QuantFEED® unique ID disseminated on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Enum	Enum data type.
Format	<i>[Exchange Specific value]</i>	An exchange specific value , detailing the characteristics of the trading status.
Possible Values	2	Trading Halt
	5	Price Indication
	17	Ready to Trade
	18	Not Available for Trading

2.3. Specific Quotation Tags

The following sections describe additional, specific quotation tags available on NASDAQ UTP market data stream:

- [2.3.1. Trade Conditions](#)
- [2.3.2. Other Values.](#)

2.3.1. Trade Conditions

The following subsections describe the trade conditions on NASDAQ UTP market data stream:

- [2.3.1.1. Sale Condition](#)
- [2.3.1.2. Quote Condition](#)
- [2.3.1.3. Submarket Center ID.](#)

2.3.1.1. Sale Condition

Each time an UTP participant enters a transaction, the values of the quotation tag **Sale Condition** conveyed on the NASDAQ UTP market data stream are disseminated via S&P Capital IQ's Real-Time Solutions's data stream in *Context* to indicate the type of trade:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#

- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED® implementation of the tag `MARKET_NASDAQ_UTP_SaleCondition` is described in the table below:

Table 4 MARKET_NASDAQ_UTP_SaleCondition – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_NASDAQ_UTP_SaleCondition	QuantFEED® tag name.
Numeric ID	15650	QuantFEED® unique ID broadcast on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	String	String data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , indicating the type of trade transaction entered by an UTP participant.
Possible Values	@	Regular Trade
	F	Intermarket Sweep
	T	Form T
	1	Stopped Stock
	C	Cash
	O	Opening Prints
	L	Sold Last
	A	Acquisition
	N	Next Day
	4	Derivatively Priced
	Z	Sold (Out of Sequence)
	B	Bunched
	R	Seller
	5	Re-Opening Prints
	U	Extended trading hours – Sold Out of Sequence
	D	Distribution
	Y	Yellow Flag
	6	Closing Prints
	E	Placeholder future use
	7	Placeholder 611 Exempt
	G	Bunched Sold Trade
	8	Placeholder 611 Exempt
	H	Price Variation Trade
	9	Placeholder 611 Exempt
	K	Rule 155
	M	Market Center Official Close Price
	P	Prior Reference Price
	Q	Market Center Official Open Price

Table 4 MARKET_NASDAQ_UTP_SaleCondition – technical implementation in QuantFEED® (Continued)

Component	Value	Description
Possible Values	S	Split Trade
	V	Stock-Option Trade
	W	Average Price Trade
	X	Cross Trade

2.3.1.2. Quote Condition

Each quote has an applicable condition, the values of the quotation tag **Quote Condition** conveyed on the NASDAQ UTP market data stream are disseminated via S&P Capital IQ's Real-Time Solutions's data stream in *Context*:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED® implementation of the tag MARKET_NASDAQ_UTP_QuoteCondition is described in the table below:

Table 5 MARKET_NASDAQ_UTP_QuoteCondition – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	MARKET_NASDAQ_UTP_QuoteCondition	QuantFEED® tag name.
Numeric ID	15651	QuantFEED® unique ID broadcast on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , detailing the quote's applicable condition.
Possible Values	A	Manual Ask, Automated Bid
	B	Manual Bid, Automated Ask
	O	Opening Quote Automated
	R	Regular, Two-Sided Open Quote Automated
	F	Fast Trading
	U	Manual Bid and Ask (Non-Firm)
	H	Manual Bid and Ask
	Y	Automated Bid, No Offer; or Automated Offer, No Bid (One-Sided Automated)
	I	Order Imbalance
	X	Order Influx
	L	Closed Quote
	Z	No Open/No Resume
	N	Non-Firm Quote

2.3.1.3. Submarket Center ID

Each time a transaction is collected as a part of a joint trade reporting facility, the values of the quotation tag **Submarket Center ID** conveyed on the NASDAQ UTP market data stream are disseminated via S&P Capital IQ's Real-Time Solutions's data stream in *Context* to indicate the origin market center (the tag `originFOSMarketIdof_LastPrice` carries the value FINRA, because FINRA acts as the regulator of all over-the-counter transactions):

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED® implementation of the tag `MARKET_NASDAQ_UTP_SubMarketCenterId` is described in the table below:

Table 6 `MARKET_NASDAQ_UTP_SubMarketCenterId` – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>MARKET_NASDAQ_UTP_SubMarketCenterId</code>	QuantFEED® tag name.
Numeric ID	15652	QuantFEED® unique ID broadcast on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Char	Char data type.
Format	<i>[Exchange specific value]</i>	An exchange specific value , indicating the origin market center for transactions that are part of a joint trade reporting facility.
Possible Values	A	NYSE Amex
	B	NASDAQ OMX BX
	C	National Stock Exchange
	D	FINRA ADF
	E	Market Independent (Generated by SIP)
	I	International Securities Exchange
	J	EDGA Exchange, Inc
	K	EDGX Exchange, Inc
	M	Chicago Stock Exchange
	N	NYSE Euronext
	P	NYSE Arca Exchange
	Q	NASDAQ OMX
	W	Chicago Board Options Exchange
	X	NASDAQ OMX PHLX
	Y	BATS Y-Exchange, Inc
	Z	BATS Exchange Inc

2.3.2. Other Values

The following subsections describe the other values available on NASDAQ UTP market data stream:

- [2.3.2.1. Low Limit Price](#)
- [2.3.2.2. High Limit Price](#)
- [2.3.2.3. Limit Up Limit Down Indicator.](#)

2.3.2.1. Low Limit Price

The values of the quotation tag **Low Limit Price** are disseminated via QuantFEED®'s data stream in *Other Values* to indicate the inferior price limit:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++

- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED®'s implementation of the tag `LowLimitPrice` is described in the following table:

Table 7 LowLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>LowLimitPrice</code>	QuantFEED® tag name.
Numeric ID	1148	QuantFEED® unique ID disseminated on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Float64	Float64 data type.
Format / Possible values	<i>[Exchange specific value]</i>	An exchange specific value , indicating the inferior price limit.

2.3.2.2. High Limit Price

The values of the quotation tag **High Limit Price** are disseminated via QuantFEED®'s data stream in *Other Values* to indicate the superior price limit:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

QuantFEED®'s implementation of the tag `HighLimitPrice` is described in the following table:

Table 8 HighLimitPrice – technical implementation in QuantFEED®

Component	Value	Description
Tag Name	<code>HighLimitPrice</code>	QuantFEED® tag name.
Numeric ID	1149	QuantFEED® unique ID disseminated on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Float64	Float64 data type.
Format / Possible values	<i>[Exchange specific value]</i>	An exchange specific value , indicating the superior price limit.

2.3.2.3. Limit Up Limit Down Indicator

The values of the quotation tag **Limit Up Limit Down Indicator** are disseminated via QuantFEED®'s data stream in *Other Values* to indicate the type of specified price bands:

- in the callback carrying the Level1 event `notif_TradeEventExt()`, for C++
- in the event handler `TradeEventExtEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifTradeEventExt`, for Java.

The **Limit Up-Limit Down (LULD)** mechanism aims at addressing extraordinary market volatility in U.S. equity markets. This mechanism is intended to prevent trades in National Market System (NMS) securities from occurring outside of specified price bands. The bands would be set at a percentage level above and below the average reference price of the security over the immediately preceding five-minute period.

To accommodate more fundamental price moves, there would be a five-minute trading pause – similar to the pause triggered by the current single-stock circuit breakers – only if trading is unable to occur within the specified price band after 15 seconds.

QuantFEED®'s implementation of the tag `LimitUpLimitDownIndicator` is described in the following table:

Table 9 **LimitUpLimitDownIndicator – technical implementation in QuantFEED®**

Component	Value		Description
Tag Name	LimitUpLimitDownIndicator		QuantFEED® tag name.
Numeric ID	9255		QuantFEED® unique ID disseminated on S&P Capital IQ's Real-Time Solutions's data stream. This is the numeric equivalent of the tag name.
Type	Char		Char data type.
Format	<i>[Exchange Specific Value]</i>		An exchange specific value , indicating the type of specified price bands.
Possible values	Regional	<space>	Limit Up Limit Down Not applicable.
		A	Bid Price above Upper Limit Price Band – Bid is Non-Executable.
		B	Ask Price below Lower Limit Price Band – Ask is Non-Executable.
		C	Bid and Ask outside price band. Not executable.
	National	<space>	Limit Up Limit Down Not applicable.
		A	National Best Bid and National Best Ask are Executable.
		B	National Best Bid below Lower Limit Price Band – National Best Bid is Non-Executable.
		C	National Best Ask above Upper Limit Price Band – National Best Ask is Non-Executable.
		D	National Best Bid below Lower Limit Price Band and National Best Ask above Upper Limit Price Band – National Best Bid and National Best Ask are Non-Executable.
		E	National Best Bid equals Upper Limit Price Band – National Best Bid is in Limit State.
		F	National Best Offer equals Lower Limit Price Band – National Best Ask is in Limit State.
		G	National Best Bid equals Upper Limit Price Band – National Best Bid is in Limit State and National Best Ask above Upper Limit Price Band – National Best Ask is Non-Executable.
		H	National Best Ask equals Lower Limit Price Band – National Best Ask is in Limit State and National Best Bid below Lower Limit Price Band – National Best Bid is Non-Executable.
		I	National Best Bid equals Upper Limit Price Band and National Best Ask equals Lower Limit Price Band.

3. Special Behavior

Sometimes, on NASDAQ UTP large Bid-Ask spreads can occur, as the buyer or the seller uses the Bid-Ask spread to get out from the National Best Bid and Offer (NBBO).

3.1. Market Wide Circuit Beaker

Each time an extraordinary market volatility occurs, the values of the **Level 1, Level 2 and Level 3 Halts of the Market-Wide Circuit Breakers**, which halt the trading in all exchange listed securities throughout the U.S. markets, as well as the **breached level** conveyed on the NASDAQ UTP market data stream are disseminated via QuantFEED®'s data stream in *Market News*:

- in the callback carrying the Level1 event `notif_MarketNews()`, for C++
- in the event handler `MarketNewsEventHandler`, for C#
- in the callback carrying the Level1 event `quotNotifMarketNewsEvent`, for Java.

The format of the **Market-Wide Content Breaker Decline Level Message**, which conveys the values of the three level halts in the market news, follows the template described below:

```
Market-wide circuit breaker indicator
MarketId=<market ID>
Level1=<level1>
Level2=<level2>
Level3=<level3>
```

Example:

```
MN      null      null      XNAS      Normal      Market-wide circuit breaker level status
MarketId=Q; Level1=144.45; Level2=135.13; Level3=124.26      related_instruments:
```

The format of the **Market-Wide Content Breaker Status Message**, which conveys the breached level in the market news, follows the template described below:

```
Market-wide circuit breaker indicator
MarketId=<market_id >
LevelBreached=<Level>
```

4. Official Closing Price

On the market NASDAQ UTP, the closing price is provided by the market. If it is not sent by the market, the last trade is used as the closing price. There is no settlement price.

5. Finding the Latest Information

For the latest documentation and product updates, additional support and training, please contact our support services one of the following ways:

- E-mail: support@quanthouse.com
- Web: <http://support.quanthouse.com>.