

## How to Subscribe Real-time Market Data

Koscom, KRX's information & technologies subsidiary, licenses KRX market data products for both end-clients and redistributors.

### End-Client

Required to complete **Market Information Service Agreement for End-Customer** with Koscom. This contractual requirement applies, even if a firm receives KRX market data from data vendors through datafeed.

### Redistributor

Required to complete **Market Information Service Agreement for Redistributor** with Koscom.

Depending on business types, a client can select among the below four(4) license options :

<b>Option 1</b> General service	Internal use and external redistribution to client's professional and/or non-professional subscribers.
<b>Option 2</b> Service for Private Subscribers	External redistribution to non-professional subscribers only.
<b>Option 3</b> Web-site Last Sale Price Service	External redistribution of last sales information to public via web-sites or mobile applications. Flat fee applies regardless of the number of users.
<b>Option 4</b> Public Media Service	External redistribution to public via TV or similar mass-media.

For more information, please contact the following :

Capital Market Business Department

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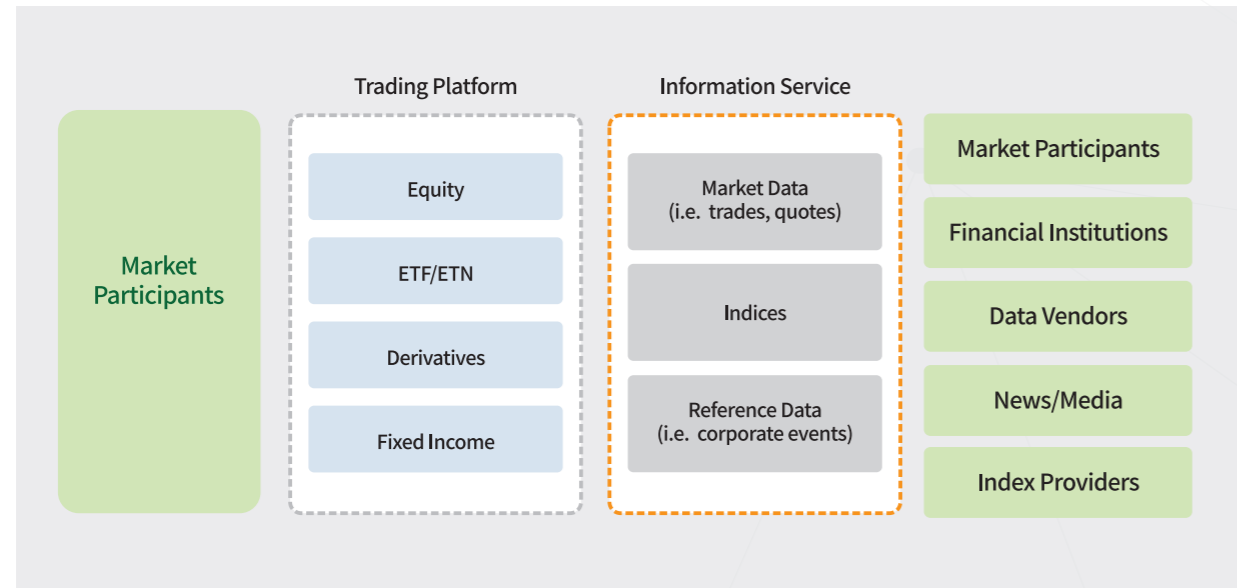


# KRX REAL-TIME MARKET DATA PRODUCTS & SERVICES

PROVIDE THE BASIS FOR SUCCESSFUL DECISION MAKING

Real-time market data provides updates of trading information for financial instruments listed on the market place managed by Korea Exchange with lowest latency.

## Product Overview



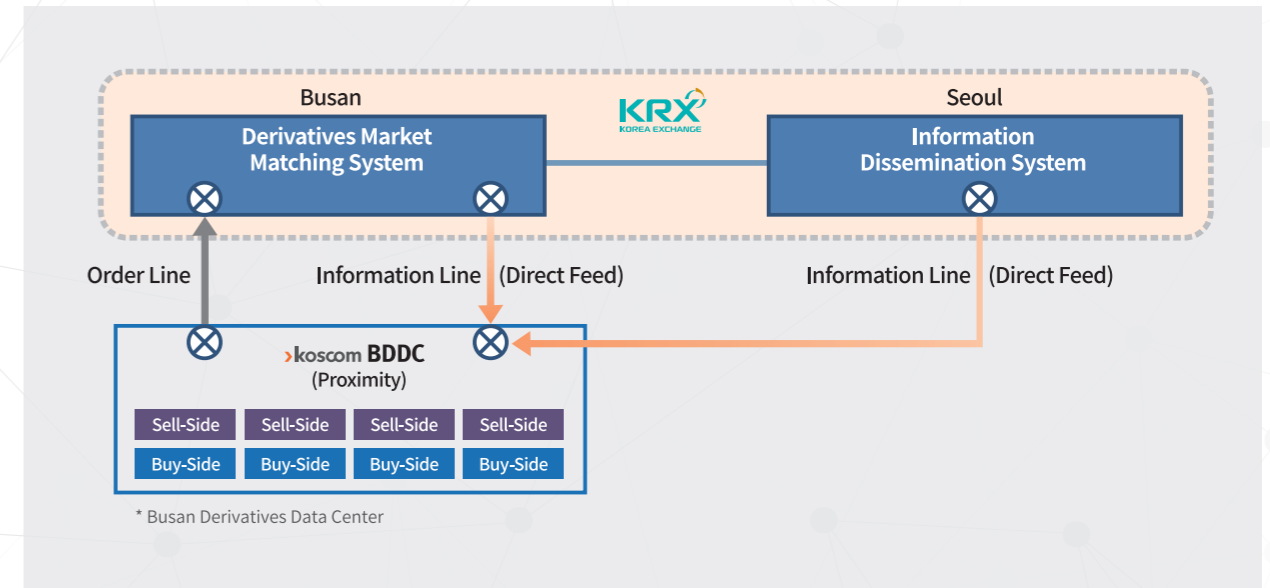
**Real-time Market Data product** gives detailed information on trading in equities, ETF/ETN, derivatives or fixed income market as well as KRX's various indices.

- Last traded price and quantity
- Best bid
- Best ask
- Up to top 10 (for equity market) or 5 (for derivatives market) buy and sell offers
- Other reference data (i.e. corporate events, open interest)

Clients can choose between receiving Korean market data directly from KRX Information Dissemination System or from data vendors, who are licensed to redistribute the market data.

**Derivatives market participants**, especially latency sensitive traders, may choose to receive low latency datafeed from KRX Derivatives Matching System (located at Busan), rather than receiving datafeed from KRX Information Dissemination System (located at Seoul) which is 500km away from Busan.

## At a glance



## Data

	Direct Feed from Information Dissemination System (Seoul) [Equity / Derivatives Market Data]	Direct Feed from Matching System (Busan) [Derivatives Market Data]
Last trades	○	○
Top 5 best buy and sell offers *	○	○
TR serial number		○
Market reference data (i.e. open interest)	○	

\* Equity Market : Top 10 level  
Derivatives Market : Top 5 level

## Connection / Network

	Direct Feed from Information Dissemination System (Seoul) [Equity / Derivatives Market Data]	Direct Feed from Matching System (Busan) [Derivatives Market Data]
Protocol	Multicast (UDP)	Multicast (UDP)
Interface	1000BASE-TX	1000BASE-TX
Bandwidth	Equity (KOSPI) : 8 Mbps Equity (KOSDAQ) : 8 Mbps Options : 8 Mbps Futures : 12 Mbps	Options : 8 / 45* Mbps Futures : 12 / 45* Mbps
Latency	Apprx. 4ms	Apprx. 1ms

\* 45 Mbps line will become available in August, 2017.