

## Thomson Reuters IR XML – Quotes

---

### A. Description

The Quotes feature displays all stock quote information for a particular company's ticker and selected major market indexes. Please contact your Thomson Reuters Account Manager to add securities for your firm and to include select major market indexes. Examples of indices that may be added to your quote file include the Dow Jones Industrial Average, NASDAQ Composite, and the S&P 500.

### B. XML File

The XML file containing the stock quote information is available at:

<http://xml.corporate-ir.net/irxmlclient.asp?compid=#####&reqtype=quotes>

#### Compid Query String

The '**compid**' query parameter represents the 'company ID, which will be assigned to your company by Thomson Reuters. For example, if your compid were '132066, the following URL would provide you with the XML:

<http://xml.corporate-ir.net/irxmlclient.asp?compid=132066&reqtype=quotes>

If you are unaware of your compid, please contact your Thomson Reuters Account Manager.

#### Structure of XML

If you wish to obtain information about the structure of this XML feed, you can access either the Data Type Definition (DTD) or the Schema by using the appropriate URL below with your compid:

<http://xml.corporate-ir.net/irxmlclient.asp?compid=#####&reqtype=quotes&display=schema>

<http://xml.corporate-ir.net/irxmlclient.asp?compid=#####&reqtype=quotes&display=dtd>

Page 2 contains details about the XML elements and on page 4 is a sample quotes XML.

### C. Calculations

In addition to the information provided in the XML, the following values can be calculated from the data:

- Absolute Value Change = the absolute value of the change  
(change = value of **Change** element)
- Percent of Change = (change / (last – change )) \* 100  
(change = value of **Change** element)  
(last = value of **Trade** element)
- Absolute Value of Percent of Change = the absolute value of percent of change

### D. Disclaimers

The following disclaimer feed is required on each page displaying quote data:

<http://xml.corporate-ir.net/irxmlclient.asp?compid=#####&reqtype=disclaimers>

Data is typically provided by MarketWatch (id="16"). Please refer to the document "manual\_Disclaimers.doc".

## **E. XML Usage and Cache Recommendation**

We require our clients to cache our XML to reduce traffic between our servers speeding access times to enhance the user experience. Due to the nature of the Internet and HTTP, it is faster to serve up a dynamic XML driven web page when the XML is stored locally on your data servers instead of across the Internet on another server. Although we maintain nearly a 100% uptime, we also encourage our clients to put in place error checking and fail safes in case the XML feed is not available.

Recommended cache time: 1-2 minutes during Eastern Time Trading Hours

**Quotes XML Elements & Attributes**

<b>Element</b>	<b>Attribute</b>	<b>Description</b>	<b>Values</b>
<b>IRXML</b>		Root element of XML with one occurrence.	
	<b>CorpMasterID</b>	This is equivalent to your compID.	<i>Numeric.</i>
<b>StockQuotes</b>		Child of <b>IRXML</b> with one occurrence.	
	<b>PubDate</b>	Publication date of the XML.	<i>Numeric.</i> (YYYYMMDD)
	<b>PubTime</b>	Publication time of the XML.	<i>Text.</i> (HH:MM:SS)
<b>Stock_Quote</b>		Child of <b>StockQuotes</b> with 1 to many occurrences.	
	<b>SecurityID</b>	Thomson Reuters unique identifier of the security.	<i>Numeric.</i>
	<b>Company</b>	Company to which this security belongs.	<i>Text.</i>
	<b>Ticker</b>	Ticker symbol for the security.	<i>Text.</i>
	<b>DisplayTicker</b>	Ticker for this security.	<i>Text.</i>
	<b>Exchange</b>	Exchange of security.	<i>Text.</i>
	<b>Currency</b>	Currency security trades in.	<i>Text.</i>
	<b>CurrencyLabel</b>	The label associated with the currency, placed before value.	<i>Text.</i>
	<b>CurrencyLabelSuffix</b>	The label associated with the currency, placed after value.	<i>Text.</i>
	<b>Type</b>	Type of quote – either “COMPANY” which is a quote for the company or “INDEX” which is a quote for a major market index.	Company, Index
	<b>Class</b>	Class of stock quote.	<i>Text.</i>
	<b>FirstTradeDate</b>	First Trade Date – Usually blank unless specified otherwise	<i>Numeric.</i> (YYYYMMDD)
	<b>FinancialStatusIndicator</b>	Nasdaq Client Requirements - <a href="http://www.nasdaqtrader.com/TraderNews.aspx?id=nva2005-057">http://www.nasdaqtrader.com/TraderNews.aspx?id=nva2005-057</a>  D - Deficient: Issuer Failed to Meet NASDAQ Continued Listing Requirements E - Delinquent: Issuer Missed Regulatory Filing Deadline Q - Bankrupt: Issuer Has Filed for Bankruptcy N - Normal (Default): Issue is not currently deficient, delinquent, or bankrupt G - Deficient and Bankrupt H - Deficient and Delinquent J - Delinquent and Bankrupt K - Deficient, Delinquent, and Bankrupt	<i>Text.</i> – Blank for clients not trading on the NASDAQ
<b>Date</b>		Child of <b>Stock_Quote</b> with one occurrence. Date of this information for the security.	<i>Text.</i>
	<b>Date</b>	Date of this information for the security.	<i>Numeric.</i> (YYYYMMDD)
	<b>Time</b>	Time of this information for the security.	<i>Numeric.</i> (HH:MM:SS)
<b>Trade</b>		Child of <b>Stock_Quote</b> with one occurrence. The most recent price quote for a security, at least 20 minute delayed.	<i>Numeric, decimal.</i>
<b>Change</b>		Child of <b>Stock_Quote</b> with one occurrence. The change amount from the last trade.	<i>Numeric, decimal.</i>
<b>Bid</b>		Child of <b>Stock_Quote</b> with one occurrence. The current price someone is willing to buy the stock at.	<i>Numeric, decimal.</i>
<b>Ask</b>		Child of <b>Stock_Quote</b> with one occurrence. The current price someone is willing to sell the stock at.	<i>Numeric, decimal.</i>
<b>BidSize</b>		Child of <b>Stock_Quote</b> with one occurrence. The number of shares the buyer is looking to purchase.	<i>Numeric.</i>
<b>AskSize</b>		Child of <b>Stock_Quote</b> with one occurrence. The number of shares the seller is looking to sell.	<i>Numeric.</i>
<b>High</b>		Child of <b>Stock_Quote</b> with one occurrence. The highest price quote for a security during the session, at least 20 minute delayed.	<i>Numeric, decimal.</i>

<b>Low</b>		Child of <b>Stock_Quote</b> with one occurrence. The lowest price quote for a security during the session, at least 20 minute delayed.	<i>Numeric, decimal.</i>
<b>Volume</b>		Child of <b>Stock_Quote</b> with one occurrence. The number of shares traded since the previous close.	<i>Numeric.</i>
<b>Open</b>		Child of <b>Stock_Quote</b> with one occurrence. The price of the security when the market opened (does not have to be equal to the previous day's close because of extended hours trading).	<i>Numeric, decimal.</i>
<b>PreviousClose</b>		Child of <b>Stock_Quote</b> with one occurrence. The price of the stock at the end of the previous trading session.	<i>Numeric, decimal.</i>
<b>FiftyTwoWeekHigh</b>		Child of <b>Stock_Quote</b> with one occurrence. The highest price of the security within the previous 52 weeks.	<i>Numeric, decimal.</i>
<b>FiftyTwoWeekHighDate</b>		Child of <b>Stock_Quote</b> with one occurrence. The date of the <b>FiftyTwoWeekHigh</b> .	<i>Text, includes time.</i>
	<b>Date</b>	Formatted date of 52 week high.	<i>Numeric. (YYYYMMDD)</i>
	<b>Time</b>	Formatted time of 52 week high.	<i>Text. (HH:MM:SS)</i>
<b>FiftyTwoWeekLow</b>		Child of <b>Stock_Quote</b> with one occurrence. The lowest price of the security within the previous 52 weeks.	<i>Numeric, decimal.</i>
<b>FiftyTwoWeekLowDate</b>		Child of <b>Stock_Quote</b> with one occurrence. The date of the <b>FiftyTwoWeekLow</b> .	<i>Text, includes time.</i>
	<b>Date</b>	Formatted date of the 52 week low.	<i>Numeric. (YYYYMMDD)</i>
	<b>Time</b>	Formatted time of the 52 week low.	<i>Text. (HH:MM:SS)</i>
<b>PERatio</b>		Child of <b>Stock_Quote</b> with one occurrence. The share price divided by earnings per share for the company's most recent four quarters.	<i>Numeric, decimal.</i>
<b>MarketCap</b>		Child of <b>Stock_Quote</b> with one occurrence. Number of shares outstanding * last trade price.	<i>Numeric, may be decimal.</i>
<b>SharesOutstanding</b>		Child of <b>Stock_Quote</b> with one occurrence. The total number of shares outstanding of the security.	<i>Numeric.</i>
<b>RollingEPS</b>		Child of <b>Stock_Quote</b> with one occurrence. Rolling earnings per share.	<i>Numeric, decimal.</i>
<b>DataProviderInfo</b>		Child of <b>Stock_Quote</b> with one occurrence. Container element for data providers' information.	
<b>DataProvider</b>		Child of <b>DataProviderInfo</b> with one occurrence. Contains information about the data provider.	
<b>Name</b>		Child of <b>DataProvider</b> with one occurrence. Name of the firm providing the quote.	<i>Text.</i>
<b>Key</b>		Child of <b>DataProvider</b> with one occurrence. Symbol used by the Market Data provider to generate the quote	<i>Text.</i>

**Sample Quotes XML - <http://xml.corporate-ir.net/irxmlclient.asp?compid=132066&reqtype=quotes>**

```

<?xml version="1.0" standalone="no"?>
<IRXML CorpMasterID="132066">
  <StockQuotes PubDate="20081216" PubTime="13:06:09">
    <Stock_Quote PrimaryTicker="Yes" DisplayInDropdown="Yes" SecurityID="28858" Company="CCBN Xml Sample" Ticker="***XML"
    DisplayTicker="***XML" Exchange="N" Currency="US Dollar" CurrencyLabel="$" CurrencyLabelSuffix="" Type="COMPANY" Class="Common"
    FirstTradeDate="" FinancialStatusIndicator="">
      <Date Date="20050621" Time="16:00:00">Jun 21 2005 4:00PM</Date>
      <Trade>17.11</Trade>
      <Change>-0.05</Change>
      <Bid>0.01</Bid>
      <Ask>35.44</Ask>
      <BidSize>N/A</BidSize>
      <AskSize>N/A</AskSize>
      <High>17.21</High>
      <Low>16.98</Low>
      <Volume>336100</Volume>
      <Open>17.16</Open>
      <PreviousClose>17.16</PreviousClose>
      <FiftyTwoWeekHigh>18.00</FiftyTwoWeekHigh>
      <FiftyTwoWeekHighDate Date="" Time="">N/A</FiftyTwoWeekHighDate>
      <FiftyTwoWeekLow>12.50</FiftyTwoWeekLow>
      <FiftyTwoWeekLowDate Date="" Time="">N/A</FiftyTwoWeekLowDate>
      <PERatio>N/A</PERatio>
      <MarketCap>1703848020.00</MarketCap>
      <SharesOutstanding>99582000</SharesOutstanding>
      <RollingEPS>-1.12</RollingEPS>
      <DataProviderInfo>
        <DataProvider>
          <Name>MarketWatch</Name>
          <Key>***XML</Key>
        </DataProvider>
      </DataProviderInfo>
    </Stock_Quote>
    <Stock_Quote SecurityID="3" Company="DJ Industrial Average" Ticker="DJIA" DisplayTicker="DJIA" Exchange="INDEX" Currency=""
    CurrencyLabel="" CurrencyLabelSuffix="" Type="INDEX" FirstTradeDate="" FinancialStatusIndicator="">
      <Date Date="20081216" Time="12:49:00">Dec 16 2008 12:49PM</Date>
      <Trade>8675.96</Trade>
      <Change>111.43</Change>
      <Bid>0.00</Bid>
      <Ask>0.00</Ask>
      <BidSize>0</BidSize>
      <AskSize>0</AskSize>
      <High>8698.98</High>
      <Low>8565.65</Low>
      <Volume>89977004</Volume>
      <Open>8565.65</Open>
      <PreviousClose>8564.53</PreviousClose>
      <FiftyTwoWeekHigh>13614.53</FiftyTwoWeekHigh>
      <FiftyTwoWeekHighDate Date="20071226" Time="00:00:00">Dec 26 2007 12:00AM</FiftyTwoWeekHighDate>
      <FiftyTwoWeekLow>7392.27</FiftyTwoWeekLow>
      <FiftyTwoWeekLowDate Date="20081121" Time="00:00:00">Nov 21 2008 12:00AM</FiftyTwoWeekLowDate>
      <PERatio>21.0214</PERatio>
      <MarketCap>0.00</MarketCap>
      <SharesOutstanding>0</SharesOutstanding>
      <RollingEPS>412.72</RollingEPS>
      <DataProviderInfo>
        <DataProvider>
          <Name>MarketWatch</Name>
          <Key>djia</Key>
        </DataProvider>
      </DataProviderInfo>
    </Stock_Quote>
    <Stock_Quote SecurityID="2" Company="NASDAQ Composite" Ticker="NASDAQ" DisplayTicker="NASDAQ" Exchange="INDEX"
    Currency="" CurrencyLabel="" CurrencyLabelSuffix="" Type="INDEX" FirstTradeDate="" FinancialStatusIndicator="">
      <Date Date="20081216" Time="12:49:00">Dec 16 2008 12:49PM</Date>
      <Trade>1544.99</Trade>
      <Change>36.65</Change>
      <Bid>0.00</Bid>
  
```

```

<Ask>0.00</Ask>
<BidSize>0</BidSize>
<AskSize>0</AskSize>
<High>1549.08</High>
<Low>1526.00</Low>
<Volume>742397075</Volume>
<Open>1526.06</Open>
<PreviousClose>1508.34</PreviousClose>
<FiftyTwoWeekHigh>2727.55</FiftyTwoWeekHigh>
<FiftyTwoWeekHighDate Date="20071226" Time="00:00:00">Dec 26 2007 12:00AM</FiftyTwoWeekHighDate>
<FiftyTwoWeekLow>1295.48</FiftyTwoWeekLow>
<FiftyTwoWeekLowDate Date="20081121" Time="00:00:00">Nov 21 2008 12:00AM</FiftyTwoWeekLowDate>
<PERatio>0</PERatio>
<MarketCap>0.00</MarketCap>
<SharesOutstanding>0</SharesOutstanding>
<RollingEPS>0.00</RollingEPS>
<DataProviderInfo>
  <DataProvider>
    <Name>MarketWatch</Name>
    <Key>nasdaq</Key>
  </DataProvider>
</DataProviderInfo>
</Stock_Quote>
<Stock_Quote SecurityID="1" Company="S&P 500" Ticker="SP500" DisplayTicker="SP500" Exchange="INDEX" Currency=""
CurrencyLabel="" CurrencyLabelSuffix="" Type="INDEX" FirstTradeDate="" FinancialStatusIndicator="">
  <Date Date="20081216" Time="12:49:00">Dec 16 2008 12:49PM</Date>
  <Trade>884.14</Trade>
  <Change>15.57</Change>
  <Bid>883.72</Bid>
  <Ask>884.50</Ask>
  <BidSize>0</BidSize>
  <AskSize>0</AskSize>
  <High>886.09</High>
  <Low>871.53</Low>
  <Volume>0</Volume>
  <Open>871.53</Open>
  <PreviousClose>868.57</PreviousClose>
  <FiftyTwoWeekHigh>1498.85</FiftyTwoWeekHigh>
  <FiftyTwoWeekHighDate Date="20071226" Time="00:00:00">Dec 26 2007 12:00AM</FiftyTwoWeekHighDate>
  <FiftyTwoWeekLow>741.02</FiftyTwoWeekLow>
  <FiftyTwoWeekLowDate Date="20081121" Time="00:00:00">Nov 21 2008 12:00AM</FiftyTwoWeekLowDate>
  <PERatio>0</PERatio>
  <MarketCap>0.00</MarketCap>
  <SharesOutstanding>0</SharesOutstanding>
  <RollingEPS>0.00</RollingEPS>
  <DataProviderInfo>
    <DataProvider>
      <Name>MarketWatch</Name>
      <Key>SPX</Key>
    </DataProvider>
  </DataProviderInfo>
</Stock_Quote>
<Stock_Quote SecurityID="6" Company="Russell 2000" Ticker="RUT" DisplayTicker="RUT" Exchange="INDEX" Currency=""
CurrencyLabel="" CurrencyLabelSuffix="" Type="INDEX" FirstTradeDate="" FinancialStatusIndicator="">
  <Date Date="20081216" Time="12:49:00">Dec 16 2008 12:49PM</Date>
  <Trade>465.49</Trade>
  <Change>12.92</Change>
  <Bid>0.00</Bid>
  <Ask>0.00</Ask>
  <BidSize>0</BidSize>
  <AskSize>0</AskSize>
  <High>466.40</High>
  <Low>456.32</Low>
  <Volume>0</Volume>
  <Open>456.37</Open>
  <PreviousClose>452.57</PreviousClose>
  <FiftyTwoWeekHigh>799.57</FiftyTwoWeekHigh>
  <FiftyTwoWeekHighDate Date="20071226" Time="00:00:00">Dec 26 2007 12:00AM</FiftyTwoWeekHighDate>
  <FiftyTwoWeekLow>371.30</FiftyTwoWeekLow>
  <FiftyTwoWeekLowDate Date="20081121" Time="00:00:00">Nov 21 2008 12:00AM</FiftyTwoWeekLowDate>
  <PERatio>0</PERatio>

```

```

<MarketCap>0.00</MarketCap>
<SharesOutstanding>0</SharesOutstanding>
<RollingEPS>0.00</RollingEPS>
<DataProviderInfo>
  <DataProvider>
    <Name>MarketWatch</Name>
    <Key>RUT</Key>
  </DataProvider>
</DataProviderInfo>
</Stock_Quote>
<Stock_Quote SecurityID="55" Company="S&P/TSX Composite" Ticker="GSPTSE" DisplayTicker="GSPTSE" Exchange="INDEX"
Currency="" CurrencyLabel="" CurrencyLabelSuffix="" Type="INDEX" FirstTradeDate="" FinancialStatusIndicator="">
  <Date Date="20081216" Time="12:49:00">Dec 16 2008 12:49PM</Date>
  <Trade>8516.03</Trade>
  <Change>54.20</Change>
  <Bid>8509.50</Bid>
  <Ask>8521.03</Ask>
  <BidSize>0</BidSize>
  <AskSize>0</AskSize>
  <High>8555.73</High>
  <Low>8436.05</Low>
  <Volume>79800</Volume>
  <Open>8436.05</Open>
  <PreviousClose>8461.83</PreviousClose>
  <FiftyTwoWeekHigh>15154.77</FiftyTwoWeekHigh>
  <FiftyTwoWeekHighDate Date="20080606" Time="00:00:00">Jun 6 2008 12:00AM</FiftyTwoWeekHighDate>
  <FiftyTwoWeekLow>7647.11</FiftyTwoWeekLow>
  <FiftyTwoWeekLowDate Date="20081121" Time="00:00:00">Nov 21 2008 12:00AM</FiftyTwoWeekLowDate>
  <PERatio>0</PERatio>
  <MarketCap>0.00</MarketCap>
  <SharesOutstanding>0</SharesOutstanding>
  <RollingEPS>0.00</RollingEPS>
  <DataProviderInfo>
    <DataProvider>
      <Name>MarketWatch</Name>
      <Key>89199000:46938</Key>
    </DataProvider>
  </DataProviderInfo>
</Stock_Quote>
</StockQuotes>
</IRXML>

```