

Thomson Reuters IR XML – Chart

Description

The Base URL returns an XML structure containing the URL and query string parameters and values needed to construct a URL that returns a stock chart image. The image URL is constructed by using a base URL and appending query string options. The query string must contain the desired stock ticker symbol (*symb=[tickersymbol]*). See Table 1 for the list of optional parameters that can be appended to the URL to further configure the chart image.

Chart

Use the following URL to access the XML code for this feature.

- **Base URL:**
<http://xml.corporate-ir.net/irxmlclient.asp?compid=#####&reqtype=chart>

Note: ##### represents the company ID, which will be assigned by Thomson Reuters. For example, if your compID were '132066', then you would use the following base URL:

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

Parameter	Parameter Value	Description
Frequency	freq	The x axis of the chart, frequency of the chart
Index	compidx	A combination of leading indicators
Lower Indicator	lf	A section of chart used for statistical analysis (volume accumulation, volatility, yield, PE ratios, etc.)
Moving Average	maval	A moving average is an average of a security's price over a specific time period. The average changes, for example, on a 30-day moving average, so that it includes the most current 30 trading days
Moving Averages	ma	Moving averages often indicate levels of support or resistance for a security.
Size	size	Size of the chart (thumbnail, small, medium, large)
Style	style	Color grouping/theme of chart.
Time	time	Time length (days, months, years) of chart.
Type	type	Type of chart (basic, advanced, java or historical vs. intraday).
Upper Indicator	uf	Another section of chart used for another set of statistical analysis (splits, earnings when dividends are released, etc.)

Table 1: Parameters

The image URL can be used in an HTML page in the "SRC" attribute of an "IMG" tag. Using the various options found in the XML, many different chart types and variants may be produced.

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 day (chart XML typically will not change)

How to construct a chart image URL

The XML returned from the chart IRXML request (Base URL), in Figure 1, contains the values needed to construct the URL for the chart image. Table 2 explains the elements in greater detail.

Each "ControlSet" element represents a different option for the query string. The query string parameter needed to utilize the "ControlSet" feature is located in the "param" attribute of the "ControlSet" element. The query string values are located in the "value" attribute of a "ValuePair" element. These values are passed in the query string in the syntax *param=value*.

The formula for a chart URL is:

[BaseURL]?symb=[tickersymbol]&[ControlSet.Param]=[ValuePair.Value]

For example, to utilize the 1 minute option of the frequency feature for ticker symbol XYZ, the following would be added to the URL: "freq=1mi". Therefore, the complete URL would be:

http://chart.corporate-ir.net/custom/ccbn-com/stockchart/chart.asp?symb=TRI&freq=1mi

Additionally, to add the comparison index "DJIA" (Dow Jones industrial average), the "Index" control set would be used. The control set query string value for the "Index" option is "compidx". Therefore, the following would be appended to the URL to add the comparison index DJIA: (compidx=DJIA). The complete URL would be:

**http://chart.corporate-ir.net/custom/ccbn-com/stockchart/chart.asp?symb=TRI&freq=1mi
&compidx=DJIA**

```
<?xml version="1.0" standalone="no" ?>
  <IRXML CorpMasterID="132066"> <StockChart PubDate="20020620"
    PubTime="10:53:58">
    <BaseURL>http://chart.corporate-ir.net/custom/ccbn-com/stockchart/
      chart.asp</BaseURL>
    <ControlSets>
      <ControlSet type="Frequency" param="freq">
        <ValuePair value="1mi" description="1 Minute (intraday)" />
        <ValuePair value="5mi" description="5 Minute (intraday)" />
        <ValuePair value="15mi" description="15 Minute (intraday)" />
        <ValuePair value="1hr" description="Hourly (intraday)" />
        <ValuePair value="1dy" description="Daily" />
        <ValuePair value="1wk" description="Weekly" />
        <ValuePair value="1mo" description="Monthly" />
        <ValuePair value="3mo" description="Quarterly" />
        <ValuePair value="1yr" description="Yearly" />
      </ControlSet>
      <ControlSet type="Index" param="compidx">
        <ValuePair value="aaaa:0" description="None" />
        <ValuePair value="djia:1643" description="DJIA" />
        <ValuePair value="nasdaq:3291" description="NASDAQ" />
        <ValuePair value="sp500:3377" description="S&P 500" />
        <ValuePair value="rut:4166" description="Russell 2000" />
        <ValuePair value="xci:565" description="Technology" />
        <ValuePair value="iix:15432" description="Internet" />
        <ValuePair value="xbd:12400" description="Broker/Dealers" />
        <ValuePair value="xoi:567" description="Oil & Gas" />
        <ValuePair value="xau:3599" description="Gold & Silver" />
        <ValuePair value="djua:1645" description="Utilities" />
        <ValuePair value="djta:1644" description="Transportation" />
        <ValuePair value="xal:13882" description="Airlines" />
      </ControlSet>
    </ControlSets>
  </IRXML>
</StockChart>
```



```
</ControlSet>
= <ControlSet type="Lower Indicator" param="lf">
  <ValuePair value="0" description="None" />
  <ValuePair value="1" description="Volume" />
</ControlSet>
= <ControlSet type="Moving Average" param="maval">
  <ValuePair value="0" description="None" />
  <ValuePair value="25" description="25 Day" />
  <ValuePair value="50" description="50 Day" />
  <ValuePair value="100" description="100 Day" />
  <ValuePair value="200" description="200 Day" />
</ControlSet>
= <ControlSet type="Moving Averages" param="ma">
  <ValuePair value="0" description="None" />
  <ValuePair value="1" description="SMA" />
</ControlSet>
= <ControlSet type="Size" param="size">
  <ValuePair value="1" description="300 x 202 pixels (and
  Thumbnail)" />
  <ValuePair value="2" description="430 x 218 pixels & Thumbnail
  (White)" />
</ControlSet>
= <ControlSet type="Style" param="style">
  <ValuePair value="453" description="White w/ Black" />
  <ValuePair value="457" description="White w/ Blue" />
  <ValuePair value="455" description="Black w/ Green" />
  <ValuePair value="456" description="TV Land" />
  <ValuePair value="454" description="CCBN Gray" />
  <ValuePair value="855" description="Yellow & White w/ Blue" />
  <ValuePair value="401" description="Thumbnail" />
  <ValuePair value="401" description="Thumbnail (White)" />
</ControlSet>
= <ControlSet type="Time" param="time">
  <ValuePair value="1hr" description="1 hour (intraday)" />
  <ValuePair value="1dy" description="1 day (intraday)" />
  <ValuePair value="2dy" description="2 days (intraday)" />
  <ValuePair value="5dy" description="5 days (intraday)" />
  <ValuePair value="10dy" description="10 days (intraday)" />
  <ValuePair value="1mo" description="1 month" />
  <ValuePair value="2mo" description="2 months" />
  <ValuePair value="3mo" description="3 months" />
  <ValuePair value="6mo" description="6 months" />
  <ValuePair value="1yr" description="1 year" />
  <ValuePair value="2yr" description="2 years" />
  <ValuePair value="3yr" description="3 years" />
  <ValuePair value="4yr" description="4 years" />
  <ValuePair value="5yr" description="5 years" />
  <ValuePair value="10yr" description="10 years" />
  <ValuePair value="Ytd" description="Year-to-Date" />
  <ValuePair value="All" description="All Data" />
</ControlSet>
= <ControlSet type="Type" param="type">
  <ValuePair value="2" description="OHLC" />
  <ValuePair value="64" description="Close" />
  <ValuePair value="4" description="Candlestick" />
  <ValuePair value="256" description="Mountain" />
```

```

</ControlSet>
- <ControlSet type="Upper Indicator" param="uf">
  <ValuePair value="0" description="None" />
  <ValuePair value="1024" description="Show Splits" />
  <ValuePair value="2048" description="Show Earnings" />
  <ValuePair value="4096" description="Show Dividends" />
  <ValuePair value="7168" description="Show All Events" />
</ControlSet>
</ControlSets> </StockChart> </IRXML>

```

Figure 1: Chart.xml File Received from request: <http://xml.corporate-ir.net/irxmlclient.asp?compid=132066&reqtype=chart>

Element	Attribute	Description	Values
IRXML		This is the container element for the XML document.	
	CorpMasterID	This is your company's ID issued by Thomson Reuters.	Numeric.
StockChart		This element contains ControlSets that describe the chart image options that are available. It is the child of IRXML .	
	PubDate	Publication date of xml.	Numeric. (YYYYMMDD)
	PubTime	Publication time of xml.	Text. (HH:MM:SS)
BaseURL		This element's value is the base URL used to obtain the chart image. It is the child of StockChart and contains the ControlSets element.	Text.
ControlSets		This element contains one to many ControlSet elements. It is the child of the BaseURL element.	
ControlSet		This element is the child of ControlSets . Each ControlSet represents a display option for the stock chart image.	
	Type	This describes the option.	Frequency, Index,
		Lower Indicator, Moving Average, Moving Averages, Size, Style, Time, Type, Upper Indicator	
	Param	This attribute, if desired, will be used to build the URL for requesting the chart image.	freq (for Frequency), compidx (for
		Index), If (for Lower Indicator), maval (for Moving Average), ma (for Moving Averages), size (for Size), style (for Style), time (for Time), type (for Type), uf (for Upper Indicator)	
ValuePair		This is a child of ControlSet .	
	Value	This will be used in conjunction with its parent element's, ControlSet 's, Param value to build the URL to obtain the chart image.	Numeric.

	Description	The English language description of the value. Each control set type has a list of value pairs that is applicable to that control set type. See sample XML file for exact values.	<i>Text.</i>
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Table 2: Chart.xml Elements

Sample URLs

The URL must contain the following parts:

- Base URL
- Symbol

Example 1: URL used to obtain default chart image

<http://chart.corporate-ir.net/custom/ccbn-com/stockchart/chart.asp?symb=TRI>

Use of the other query string options is optional. The query strings are taken from the Chart.xml file received from the request:

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

They come directly from the ControlSet element's attribute **Param** and that ControlSet's child ValuePair's **value**. In Ex. 2, for instance, the **param** value of 'time' is used in conjunction with the **value** of 'ytd'.

Example 2: URL used to obtain chart image with 9 options: Year-To-Date with frequency of 1 day, for no index, no lower or upper indicators, etc. Refer to Chart.xml sample above for a description of each option.

<http://chart.corporate-ir.net/custom/ccbn-com/stockchart/chart.asp?symb=TRI&time=ytd&freq=1dy&compidx=aaaaa:0&lf=1&uf=0&maval=0&ma=0&size=2&style=454&type=64>

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="13"). Please refer to the document "manual_Disclaimers.doc".