

REFINITIV[®] DATASTREAM[®] WEB SERVICE API (DSWS)

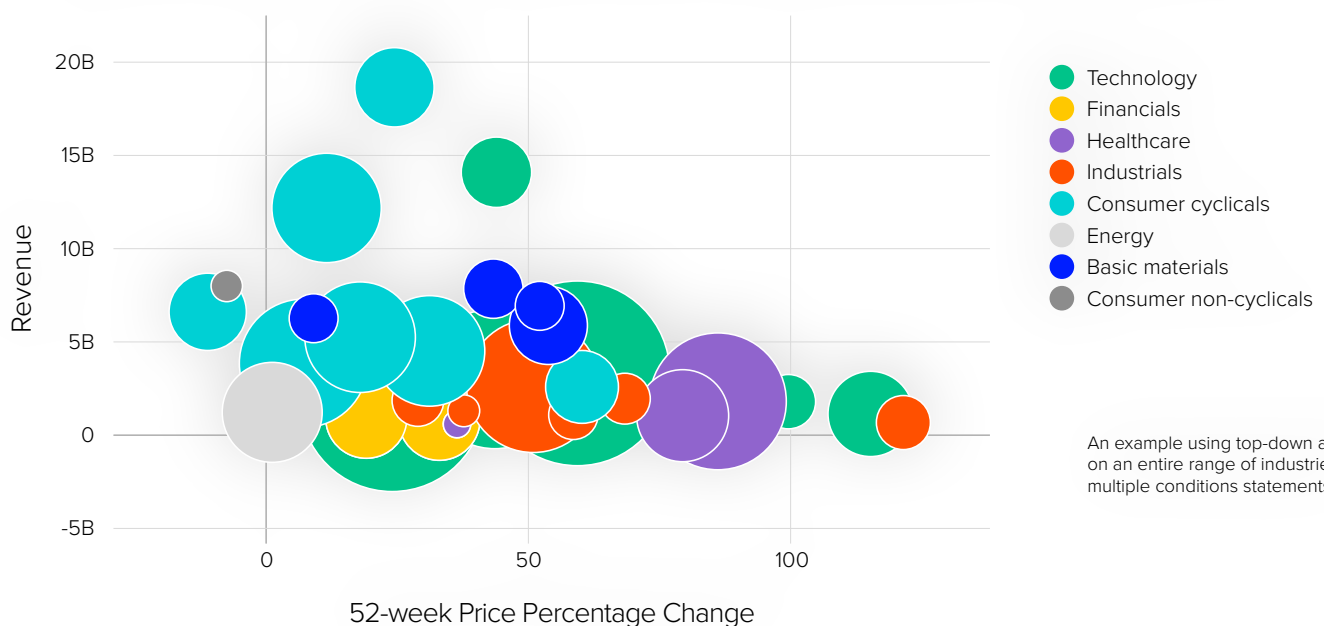
The way most of us interact with data is changing – particularly in financial services, where many professionals are increasingly using programming languages and econometric software packages to analyze large data sets.

The Refinitiv[®] Datastream[®] Web Service API (DSWS) has been developed for the growing number of people who want flexible API access to our vast multi-asset financial historical database, so they can develop and run more complex models. With DSWS, it is possible to undertake unlimited data exploration, investigation and interrogation of Datastream's database, with time series content available from the 1950s onwards.

This service has been specifically built for users who want to manipulate data series according to their own needs without being restricted by software limitations. There are two DSWS versions available:

- **Desktop (limited data points):** Those requiring data solely for individual use will have access to the Desktop service. This is a capped service allowing access to up to 10 million data points per month, provided you have a subscription to Refinitiv[®] Eikon Premium or Eikon Research & Advisory.
- **Enterprise (unlimited data points):** For those wishing to redistribute data internally or access more than 10 million data points per month, there is DSWS for Enterprise.

```
In [44]: df.plot(kind= 'bubble' ,x= '52-week Price PCT Change' ,y= 'Revenue' ,size= 'Company Market Cap' ,text= 'text' ,categories= 'TRBC Economic Sector Name' ,xTitle= '52-week Price PCT Change' ,yTitle= 'Revenue' ,zerolinewidth=2 ,zerolinecolor= 'darkgrey' ,colorscale= 'set3')
```



Time series coverage		
	Active	Inactive
Bond indices	Over 90,000	Over 9,000
Bonds and convertibles	Over 500,000	Over 1.6 million
Commodities	Over 105,000	Over 40,000
Constituent list	Over 265,000	Over 17,000
Credit default swaps	Over 96,000	Over 8,000
Equities	Over 107,000	Over 169,000
Equity indices	Over 285,000	Over 67,000
Exchange rates	Over 9,000	Over 2,000
Funds	Over 349,000	Over 250,000
Futures	Over 44,000	Over 315,000
Interest rates	Over 20,000	Over 4,500
Investment trusts	Over 677	2,000
Options	Over 1.1 million	Over 17.7 million
Warrants	Over 405,000	Over 2.8 million

Our capabilities

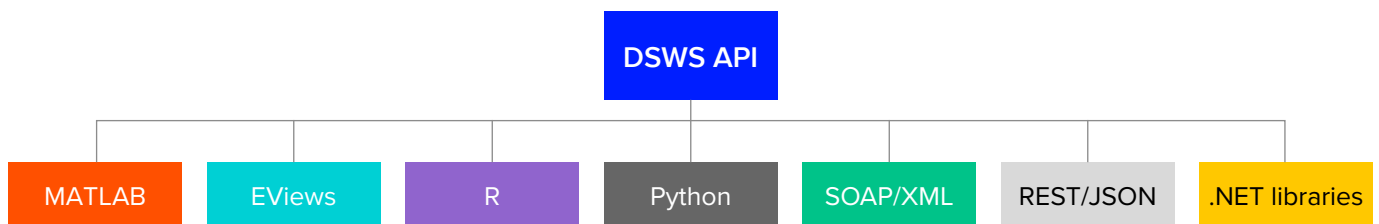
Keeping pace with ever-evolving technology, DSWS offers numerous delivery methods – providing fast, reliable and secure access to premium time series content powered by Datastream.

- Access via industry-standard Web service methods:
 - SOAP/XML
 - REST/JSON
 - Direct integration with third-party environments
- Access to .NET libraries for ease of integration with domestic .NET applications

You can access the Web service methods directly from your application using the metadata information published. Alternatively, you can use the API library, which offers a more elegant interface and is much simpler to integrate.

Integration enables direct access to Web services via:

- Python
- R
- MATLAB (2018b or above)
- EViews (version 10 or above)



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