

VISUAL DATA DISCOVERY THROUGH**DESIGNER**

Allows users to build analytical real time HTML dashboards, connect to data and publish to the web.

SERVER

Allows users to analyze fully interactive dashboards via web browsers.

ANALYST

HTML delivery for desktop and mobile applications.

DEPLOYMENT OPTIONS**DESKTOP**

Standalone dashboard design and analysis tool, with design and analysis modes.

ENTERPRISE

The Server component enables large scale delivery via the web client, plus PDF report generation.

SYSTEM REQUIREMENTS**DESIGNER**

MS Windows OS (7, 10, 2012) with .NET 4.5

2GB free disk space and 4GB available RAM

SERVER

Apache Tomcat 8.0.x (where x is > 31)

Java JRE 8. (64-bit)

MS Windows OS (7, 10, 2012) (64-bit)

LINUX Redhat/SUSE (64-bit)

4GB free disk space and at least 16GB available RAM

In Memory Caching limited to available Server RAM

DATAWATCH ANALYST (WEB CLIENT)

MS IE 11+, Chrome 40+, Safari 8+

2GB available RAM

Certified for MS Windows, iOS & Android

ENTERPRISE

- Windows or Linux
- Acts as a caching data conduit
- Security integration with LDAP & Active Directory & SSO
- Split Deployments supported on DMZ & Firewalls
- PDF Report Generation & Emailing
- Audit Logging & JMX Counters
- Permission Workbook Access to Users & Groups

MAJOR DESIGN & ANALYSIS FEATURES**REAL TIME STREAMING & REAL TIME UPDATES**

- Display Real Time Streaming Dashboards
- Push Subscribe for Streaming Sources
- Automatic Pull for non-Streaming Sources
- Pause Data Updates as required

- Alert on Outliers
- Investigate by jumping from real time to historic data
- Throttle Subscriptions to minimize CPU & Memory
- Show latest or scrolling time windows
- Process Full or Filtered Data Requests & Subscriptions

INTRA DAY & HISTORIC TIME SERIES

- Display Time series from Years down to Nanosecond
- Playback through time
- Select Tick time, or calendar time to playback
- Resample from barred down to transaction level
- Fill forward (interpolate)
- Conflate time series when resampling and barring

VISUAL ANALYSIS

- Pre-Attentive Techniques
- High density displays
- Peer Comparisons
- Hierarchical displays
- Dynamic selection of visible detail level (Depth)
- Trend, Clustering & Outlier detection
- Numeric Correlations
- Categorical Correlations
- Relationships
- Cross Tabbing
- Brushing
- Visual Filtering

HIERARCHY ANALYSIS

- Hierarchical displays
- Dynamic hierarchy rearrangement
- Multiple concurrent hierarchies
- Aggregation (Additive) with over 25 aggregates supported
- Non-additive external aggregate retrieval for complex risk scenarios

CUSTOM UI BUILDING

- Various UI Form Controls
- Parameterization
- Data Entry
- Actions – Navigation, URL & Script

DATA CONNECTIVITY**TICK DATA CONNECTIVITY**

- OneMarketData OneTick
- Kx kdb+
- InfluxDB
- Native Connectivity
- Request / Response
- Subscriptions

REAL TIME STREAMING CONNECTIVITY

- OneMarketData OneTick CEP
- kx kdb+Tick
- JMX (e.g., Active MQ)
- Tibco Streambase CEP
- Tibco LiveView DataMart
- SAP Sybase ESP
- 60East AMPS
- Informatica Ultra Messaging
- Web Sockets
- Thomson Reuters TREP-RT
- Apache Kafka
- Apache Qpid
- Google Analytics Streaming
- RabbitMQ
- Valo Streaming

BIG DATA CONNECTIVITY

- Apache Hadoop Hive
- Cloudera Impala
- Apache Spark SQL
- Apache / Datastax Cassandra
- Apache Kafka / Kafka Publisher
- IBM Cloudant
- Splunk
- Valo
- XMLA

GENERAL CONNECTIVITY

- MS Excel
- Text, XML & JSON
- Restful Web Services (Returning Text, XML or JSON)
- ODBC / JDBC Databases including: Cloudera Impala, MySQL, Oracle, PostgreSQL, Spark SQL, IBM DB2, Greenplum, MS SQL Server, Sybase IQ, Sybase ASE, Teradata, Vertica)
- SAP Business Objects Universe
- Livy Spark
- Google Analytics
- Elasticsearch

PREDICTIVE**PYTHON & R**

- Python 2.7 & Python 3.x
- R
- Embedded as part of the data pipeline
- Additionally act as a separate data source
- Dynamically change script execution

DATA VISUALIZATIONS**TIME SERIES**

- Candlestick / OHLC Graph
- Horizon Graph
- Line Graph
- Needle Graph (Standard / Stacked / Grouped)
- Spread Graph
- Stack Area Graph
- Table with Micro Charts
- Timeseries Combination Graph
- Timeseries Scatter Plot
- Timeseries Surface Plot

SNAPSHOT & TIME SLICE

- Bar Graph (Horizontal / Vertical)
- Bullet Graph (Horizontal / Vertical)
- Categorical Line Graph
- Circle Pack
- Donut Chart
- Donut Gauge
- Dot Plot (Horizontal / Vertical)
- Funnel Chart
- Heat Matrix
- Map Plot
- Network Graph
- Numeric Line Graph (Horizontal / Vertical)
- Numeric Needle Graph (Standard & Stacked)
- Pareto Chart
- Pie Chart
- Scatter Plot
- Shapes / Choropleth
- Surface Plot
- Surface Plot 3D
- Table with Micro Charts
- Ticker Tile
- Treemap (Classic, Cluster & Window)
- Waterfall Chart

FILTERING & DATA CAPABILITIES

- Casting, Renaming & Setting Display Formats
- Calculations including Time Series
- Time & Numeric Bucketing
- Custom Groups
- Visual Filtering
- Categorical filtering via check list, radio list & free text entry
- Numeric Range & Percentile Distribution Filters
- Time Window Filtering & Snapshot Time Selection
- Parameterization