



# Dartstock™

A Scalable Market Data Distribution System



Dartstock™ is **DARTS India**'s robust and scalable Market Data Distribution System. It is the state-of-the-art software platform for delivering stock market information in real-time along with tools essential for decision making.

Use of exceptional coding techniques makes Dartstock™ one of the lightest, most intuitive and comprehensive Market data tracking product of its kind. With Dartstock there is no compromise between speed and functionality, you get both and the flexibility to integrate third-party data feeds.

### Features and Functions

One of the hallmarks of Dartstock is its well researched user interface and content display system. The system comes with predefined views containing most frequently accessed information as well as provides for user defined views. All data in all views are updated automatically in real-time.

#### ■ Market watch:

- A list that displays dynamically updating stock prices in a familiar XL spreadsheet format. All Market view, Stock Table view and user created watch list view are supported. Users can create multiple watch lists.

#### ■ Ticker:

Displays the trades as they happen in the form of a tape ticker. The ticker speed can be controlled by user.

#### ■ Time and sales

Lists all trades with quantity, price and time. Time and sales can be viewed for all market or a specific list or a symbol.

#### ■ Market Depth

Allows users to see Level II information of all stocks. Five Best bids and offers by price and Ten Best bids and offers by order.

#### ■ Top Stocks

Users can view the top gainers, top losers, volume leaders and most active stocks.

#### ■ Detailed quote

Displays all available fields of a stock including PE ratio, 52 week high/Lows etc in a single pop-up window.

#### ■ Market summary

Displays market performance by sector and all market

#### ■ News

These are carefully selected breaking news and financial news from the Local, Regional and Global sources delivered on the desktop as they happen.

#### ■ Announcements

These are corporate actions and other announcements made by the exchange. Users can view both headlines as well as full text. Announcements popup in window as they come and are stored in an announcement window for subsequent retrieval. A search tool allows users to search from a database of historical announcements by symbol or keyword or date.

#### ■ Charting

A very important tool that allows users to see the movement of market or a stock or set of stocks in the form of charts. Tick-by-Tick, Intra-day and historical data charts can be drawn. Different chart types (Line, bar, candle stick) are supported

#### ■ Portfolio Tracker

A comprehensive portfolio management and analysis system, that allows users view the real-time status of their holdings including Gains and losses as well as analyze the performance of their portfolio for making more profitable decisions. Users can create, track and analyze multiple portfolios in real-time either individually or consolidated.

#### ■ Technical Analysis

A powerful tool capable of performing over 10 most commonly used studies and Indicators.

#### ■ Market scan (optional)

A valuable tool that helps investors find the stocks that meet their investment criteria. Predefined searches cover: price criteria, Volume criteria, and Risk Ratios, Industry and market coverage. Market scan will automatically create watch lists matching these criteria.

#### ■ Reports

Users can generate various useful pre defined reports

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### ■ Customization

Dartstock supports extensive customization features including selecting font types and size, background colors, column width adjustment, Field chooser function, column movement and positioning, Column sort etc.

### ■ Historical Data

Supports upto 10 years of split and dividend adjusted historical data of closing prices and announcements.

### Products and Packages:

Dartstock is a platform that currently supports two different product categories and multiple packages within each.

**Dartstock-Premium** is a client/server product loaded with features, flexibility and content. It is targeted at active investors, brokers and traders who need all the tools and insights to make correct decisions.

**Dartstock-Express** is a light weight, small foot print software that offers real time prices also but with limited features and content.

### ■ Data Export feature

Allow users to export intra-day and historical data to XL and Metstock format.

### ■ Bi-Lingual Support

Dartstock is fully arabized and supports both Arabic and English user interface.

### Administration:

Dartstock's entire back office administration module is completely web-based and can be accessed from anywhere over the Internet or Intranet. Access to the different modules and functions are controlled through different administrative levels System administrator, supervisory, support, view levels. Users of administration module must sign in using a valid username and password which are assigned by the system administrator. Usernames are assigned one of the above levels. All major administrative functions performed are logged with username and date and time stamp.

### Subscription management System:

Supports pre-paid card based subscriptions, walk-in and on-line customer registrations. The system allows for one-time set up of a user account which is subsequently used for renewals and upgrades by refilling the account. The system supports package selection, pre defined subscription periods and multiple payment methods. The system marks a user account for activation but the actual activation is done by the user himself and the subscription period are calculated from the date of user activation. Automatic renewal email reminders are sent to users 1 week prior to expiry of the account. Authorized persons can create trial accounts for promotional purposes and support accounts for Help desk and monitoring. A fee calculator is also included in the system for subscribers.

### Permissioning System:

Dartstock permissioning module provides access control, usage logging and agreement management enabling the entitlement-controlled distribution of market data and authorization of functional access on an end-user level. It uses a combination of access control lists and rule-based access control in order to assess whether a particular user should be allowed a particular "content view".

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### Prepaid card Management system:

Supports creation, distribution and management of pre paid card cards. Various reports can be generated by reseller and by type of card sold for a selected period.

### Help Desk System

The system readily makes available to the Help desk agents all user and system information required for effective and responsive support. This includes user profile, account information, product and package being subscribed and subscription history.

### User Management System

Authorized persons can perform a range of user management functions like account suspension, account deletion, account re-activation, password resetting, temporary extension of expired accounts, change of personal information etc. There is also a facility to kick users out of the system.

### Monitoring system

This function allows system and Network administrators to monitor system activity, loads and capacity utilization. This includes total number of users logged in by product, Capacity utilization network and server, Alarms for links and system failure, user login graphs for the day etc.

### Reporting Module

Accurate reports by institution, by product, by package etc can be generated for a selected reporting period. Reports of number of new users added, number of users expired and number of users renewed can also be generated.

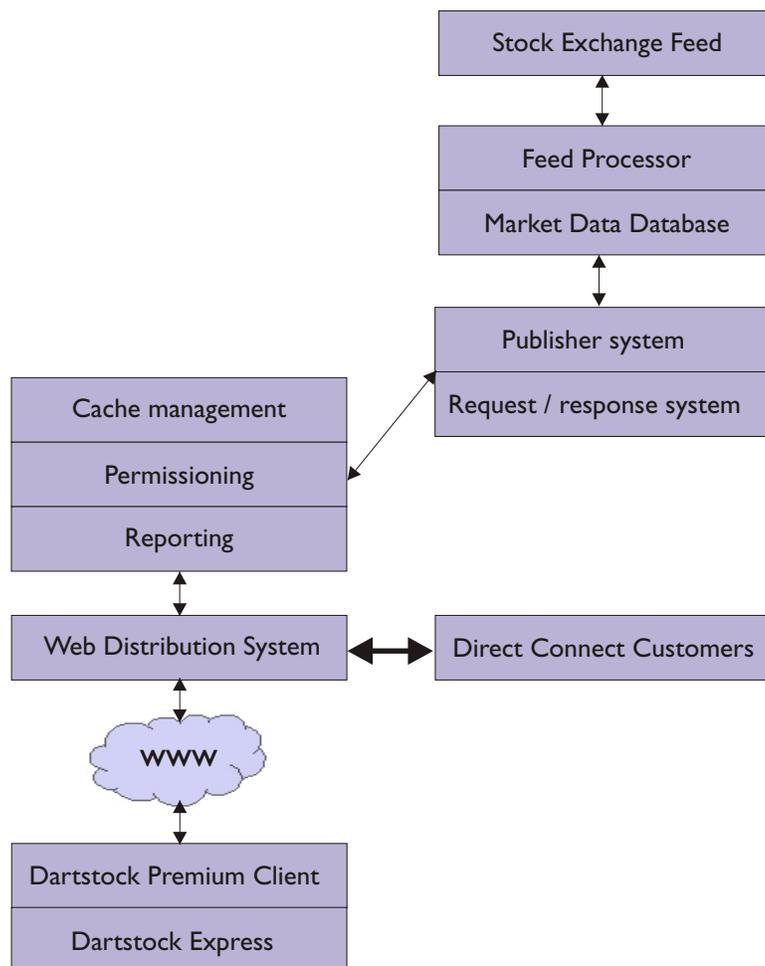
### Performance and scalability

Dartstock delivers absolute real-time performance using its Lean and Efficient code and complex logic that eliminates duplicate requests thus reducing the load on network bandwidth. It has been designed to scale vertically and horizontally to handle high volumes, yet ensure completeness, correctness and timeliness of information.

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## High Level Architecture



Dartstock is developed by **DARTS India**, a company specializing in building real-time Financial Markets software. For more information write to [products@i-darts.com](mailto:products@i-darts.com)

**Software that Empowers**

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