

# cTrader: The New Standard in FX Trading

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# cTrader – Platform as a Service



cTrader is Platform as a Service (PaaS) that uses **cloud technology** to provide the next generation of FX trading platform offering DMA (Direct Market Access) brokerage capabilities to new, experienced and institutional traders in the FX market.

cTrader provides a complete **turnkey solution** to companies looking to access the retail and institutional eFX markets.

# Fast & Easy to Integrate



**Affordability** comes from a **secure hosted solution**, 24 hour technical support and branded marketing assistance allowing easy market entry for companies wishing to enhance their client service offerings, without the need for capital expenditure in infrastructure and staff costs.

**Getting started** is quick and simple.

cTrader provides the **flexibility to select a preferred liquidity source**. By using cTrader your clients benefit from transparency, as they are dealing directly with the market without the intervention of a dealing desk.

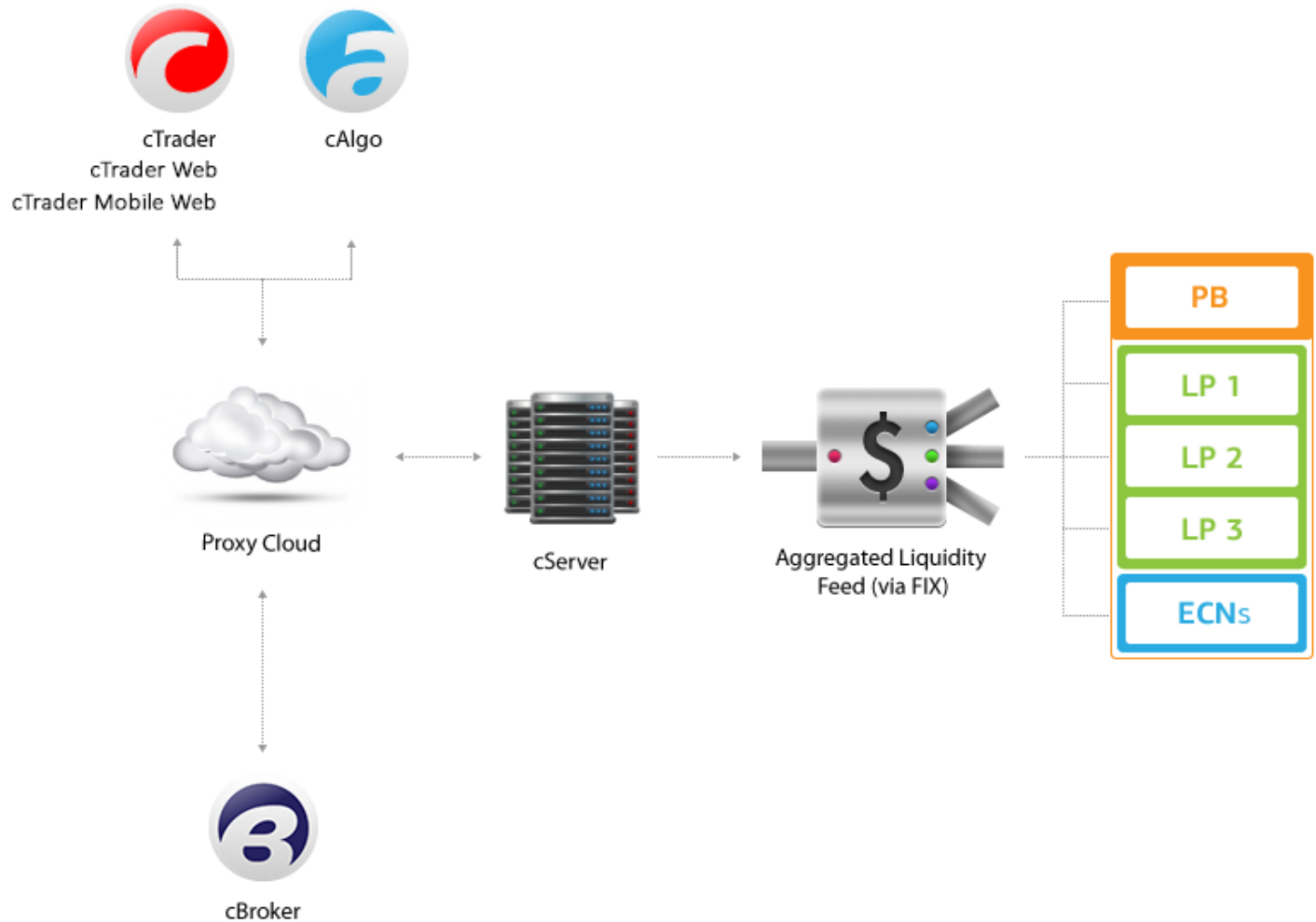
# Why cTrader?



- **cTrader drastically increases your profitability** (better ROI in agency model; great customer demand for DMA/NDD/STP; no risk book; new customer segments; 5x larger market size; credibility boost; no conflict of interest; less marketing dependency)
- **cTrader is the new standard in FX trading** (superior manual and algo trading capabilities; FIX API in/out; adapters for all major LPs; offered by credible institutions; unparalleled user experience; fastest growing developer community; sub-ms latency technology)

# What's in the box?

A secure, fully  
hosted and  
scalable  
DMA  
solution for  
FX market  
participants



# What's in the box?



**cTrader** – feature rich FX trading platform



**cTrader Web** – Web-based cTrader with mobile and tablet-specific layouts



**cAlgo** – algorithmic trading platform, designed to meet needs of algo traders and developers



**cBroker** – a complete back office and risk management solution



**cServer** – secure, instantly scalable, centrally hosted enterprise-level cloud infrastructure

# cTrader



**The cTrader platform** is a feature rich environment with level II pricing combined with a simple user friendly interface.

- Available on the Web as cTrader Web – Access from anywhere, on desktop, mobiles and tablets.
- Hedging options - The ability to go long and short in the same account
- Level II pricing - Traders can monitor market depth
- Trade Gold & Silver as well as all currency pairs.
- QuickTrade™ - Single click trading capabilities
- Trade from the charts - Comprehensive charting package
- Fast navigation of currency pairs
- Chartshots™
- Fast switching between multiple accounts.
- Comprehensive technical analysis tools
- Multiple order choice
- Straight through processing (STP)
- No dealing room intervention
- No re-quotes





## Order Types

- Market Order
  - OCO Protection
- Limit Orders
  - OCO Protection
  - Expiry
- Stop Orders
  - OCO Protection
  - Expiry
- Market Range Order
  - OCO Protection

## Trading Conditions

- Hedging / locking enabled
- Adjustable stop out, margin call levels
- Adjustable swap levels
- Adjustable commissions
- Adjustable Markups
- Flexible leverage
- No margin required for locked positions
- Min volume = 1K, min step = 1K
- Netting accounts (FIFO) optional

# cAlgo



cAlgo is an Algorithmic trading platform. Traders are able to develop their own robots (Algorithms) and indicators using C# and the .NET framework.

Traders can share, download and consult each other on robot and indicator development in an advanced, dedicated community.

- Developers benefit from the ease of the cAlgo API and the .NET framework
- Take advantage of C# libraries
- Easy to use and intuitive Graphic User Interface (GUI)
- Flexibility to run cAlgo from cTrader and vice versa. Use both platforms with the same account
- Create custom indicators in cAlgo and run within cTrader
- Advanced backtesting available

# cAlgo

The image displays the cAlgo trading platform interface, which is used for developing and testing trading strategies. The main window is titled "cAlgo" and shows a "Demo - EUR" account. The central part of the interface features a candlestick chart for "EURUSD, M1" with a "100k" volume indicator. To the left of the chart is a "Robots" panel with a search bar and a list of strategies, including "Trend\_Strategy", "EURJPY, m15", "EURGBP, D1", "Martingale", "Williams\_Robot", "3AM\_JP\_Y", "Range\_RSI", and "Breakout\_BB". Below the chart is a "Positions" table with columns for "Positions", "Source", "Time", "Symbol", "Vol...", and "Type". The table shows two positions for "Trend\_Strategy" on "9/15/2011, 15:36" and "9/15/2011, 16:05". At the bottom left, it displays account statistics: "Balance: 999 866.61", "Equity: 1 000 095.43", "Margin: 2 000.00", and "Free margin".

Overlaid on the main window is a smaller window showing the "Build" process for the "Trend\_Strategy" robot. The "Build" panel shows the robot's configuration and the source code. The code is written in C# and includes the following elements:

```
Short
}
private IPosition _longPosition;
private IPosition _shortPosition;
private Direction _direction;

private IMovingAverage _slowMovingAverage;
private IMovingAverage _fastMovingAverage;

[Parameter]
public MovingAverageType FastMovingAverageType
{ get; set; }

[Parameter]
public MovingAverageType LongMovingAverageType
{ get; set; }

[Input]
public IDataSeries SourceSeries { get; set; }

[Parameter(DefaultValue = 10)]
public int SlowPeriods { get; set; }

[Parameter(DefaultValue = 5)]
public int FastPeriods { get; set; }

[Parameter(DefaultValue = 10000)]
public int Volume { get; set; }

protected override void OnStart()
{
    _fastMovingAverage =
        Indicators.MovingAverage(
```

The "Build" panel also shows the "Error" and "Output" sections. The "Output" section displays "Build succeeded". The "Error" section is empty. The "Feedback" button is visible in the bottom right corner of the "Build" panel.

At the bottom right of the cAlgo interface, the "Server time" is shown as "15/09/2011 11:54 | In: 454 730 kB / Out: 337 kB".

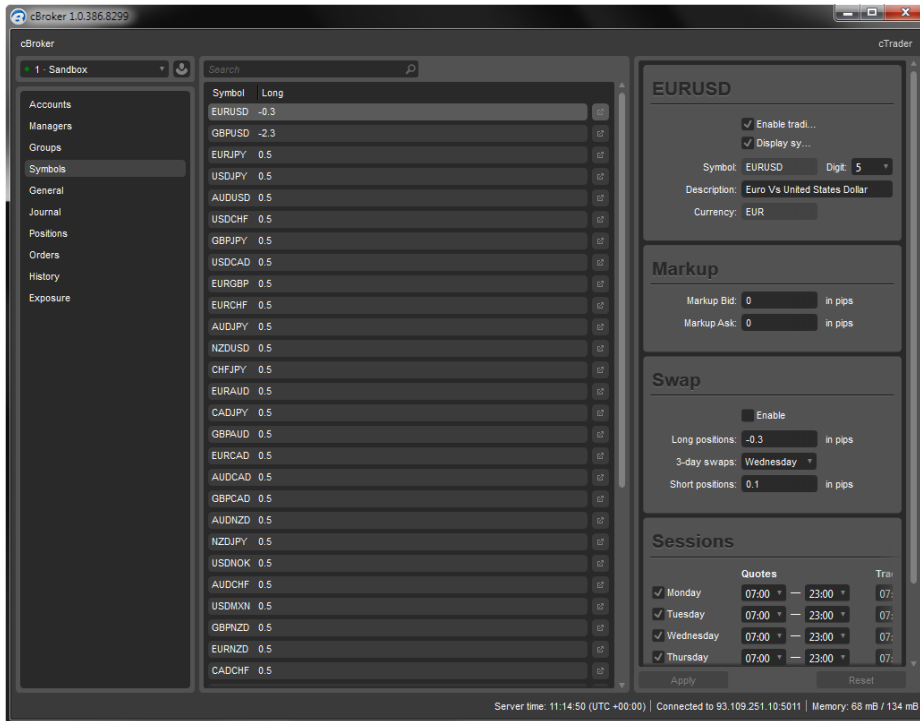
# cBroker



**cBroker is an administrative tool** that combines and follows every detail going through the system. Crafted for simplicity of use, cBroker gives you full control over your back office. Completely transparent operations and details are always at your disposal, giving you full control of every component.

## **Risk Management**

- Bid / Ask spread markups (per symbol)
- Book A / B switch (per group)
- Real-time exposure management tool
- DDE connection for external risk management tools



- **Broad capacity** to support the needs of traders
- **Full access** to client information including trading activity, personal details, account information **all in real time**
- **Risk Management** tools enable to monitor real time exposure as well as **A-book and B-book** on per account basis
- **Markups** on per currency pair basis that can be changed on the fly
- **API documentation** to integrate with other company systems such as CRM in order to manage client's activity, account opening, deposit, withdrawals, etc.
- **Unlimited grouping** in order to manage your business more effectively by separating clients in groups depending factors such as geographical location of clients
- **Easy and flexible** to charge commission, swaps and have different margin levels based on groups.
- **Flexible and fully searchable journal logs** for all transactions and other clients activity
- **View all open positions** by book or in total and access the company's P&L in real time.
- **Seamless integration** with most liquidity providers via FIX
- **Ready to launch from day one** with the help of cT in establishing a relationship with LP(s).

# cServer Overview

**cServer** is a **cloud based solution**, providing excellent:

✓ **Affordability**

- No initial investment required
- No requirement for technical staff
- No software or hardware to deploy and maintain

✓ **Scalability**

- Designed for instant growth of clients
- Scalable for increasing trading volumes
- Instantly scalable infrastructure

✓ **Availability**

- High availability
- Redundant liquidity feeds
- 24h. Technical Support desk

# Infrastructure & technology



- Centrally hosted enterprise-level cloud infrastructure
- Co-located with major aggregators, ECNs, LPs, PBs at Equinix, London
- ANSI/TIA-942 Tier-III Data center with 99,9999% availability
- Ultra low latency / high throughput
- Secluded tenant cServer environments
- Solved last mile issue by having Proxy-Cloud via multiple geo-distributed cT POPs
- Ease of integration by Secured Integration API (RESTful web services)

# Liquidity Sourcing

## IN

- FIX protocol compatible
- Adapters for major banks available
- Adapters for aggregators, ECNs available
- cServer-to-cServer liquidity feeds

## OUT

- Manual trading GUI – **cTrader**, **cTrader Web**, **cTrader Mobile**
- Algorithmic trading GUI – **cAlgo**
- cServer-to-cServer
- cServer-to-MT4 bridge

## Liquidity Technology

- Anonymous to LPs (broker is the counterparty)
- Log of FIX messages
- Easy trade matching with Liquidity Providers (LP's)
- Aggregated Level II



# Recommended Partners

Bank LPs	Prime Brokers	Prime of Primes	Aggregators
<ul style="list-style-type: none"><li>• Bank of America</li><li>• Barclays Capital</li><li>• Citi Bank</li><li>• Deutsche Bank</li><li>• Goldman Sachs</li><li>• HSBC</li><li>• JPMorgan</li><li>• Nomura</li><li>• Royal Bank of Scotland</li><li>• And other major LPs</li></ul>	<ul style="list-style-type: none"><li>• JPMorgan Chase</li><li>• Morgan Stanley</li><li>• Others</li></ul>	<ul style="list-style-type: none"><li>• Boston Prime</li><li>• TopFX</li><li>• FC Stone</li><li>• FIXI</li><li>• Advanced Markets</li><li>• Sucden Financial</li><li>• Others</li></ul>	<ul style="list-style-type: none"><li>• Integral</li><li>• Currenex</li><li>• First Derivatives</li><li>• Thomson Reuters</li><li>• Progress Apama</li><li>• Quotix</li><li>• Others</li></ul>

# Pricing Model

Contact us at [sales@spotware.com](mailto:sales@spotware.com) for more information.

# cTrader Summary

- Earn more - by using Agency model
- Stable income, not dependent on volatility of the market
- Instant credibility boost for all existing offerings
- Freedom of choice for liquidity - can be supplied by any LP (Barclays, etc), PB(Morgan Stanley, etc), PoP (TOPFX, etc)
- Risk management: A and B book flexibility enables various risk management set ups
- Fully and instantly scalable
- Up and running in minimal time, no additional software/hardware, integration API insures ease of Broker-to-cServer integration
- Exporting exposures via DDE stream in real time
- Marketing and client support available



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