

uTrade Solutions

API Version 2.0

Frequently Asked Questions



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1. Company Overview

uTrade Solutions Pvt. Ltd. is a capital markets trading technology company providing open source-based multi-asset trading platform, algorithms and analytics for global financial institutions including brokers, banks, exchanges, other financial institutions and their end customers globally.

At uTrade, we provide software products having a strong focus on user experience, leverage of automated technologies enabling financial institutions and their users to trade and analyze information more efficiently.

Our product suite includes the following:

- ✓ **Trading platform (Retail and Institutional)** – with full suite application and web-based front ends (Including admin functions, risk management, order management, connectivity to exchanges etc.)
- ✓ **Low latency algorithmic trading platform** – Used in exchange co-location environment or in client data centres/cloud for fastest access to markets to execute arbitrage, market making, execution, quant based and various other strategies.
- ✓ **Analytics** – platform that supports portfolio-level, pre-trade and post-trade analytics, content creation, management and distribution.
- ✓ **Custom Solutions** – We also customise various trading technology and analytics products, including modules of our own products, to improve the trading workflow of our partner users.

We have built our products from ground-up with a modular architecture in order to effectively address current and rapidly evolving user needs. We have also filed for 6 patents in India and 1 patent in US/UK to lead innovation in the trading life cycle.

uTrade Solutions was awarded as most innovative firm by Fintech Innovation Labs UK, and Confederation of Indian Industries, as well as a leading start-up by NASSCOM, India.

2. Preface

The objective of this document is to guide the users to understand uTrade's latency sensitive API interface for coding custom strategies. This document explains all the features available in the API 2.0.

3. Scope of Document

The scope of this document is to specify frequently asked questions of the API Version 2.0.

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4. Frequently Asked Questions

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What packages are required for Development?

1. GCC (Version: 4.4.7 20120313 (Red Hat 4.4.7-3) (GCC))
2. Cmake

Do development server and Production server need to be different

They can be same backend server. Build process generally consumes CPU. So it is recommended to keep different once the live server performance matters.

How many users can be logged on simultaneously to one server

Recommendation is 5 - 6 users; it is governed by message line supported by the exchange.

How many strategies could be run on one server simultaneously

Our server supports 1000 strategies simultaneously. Limitation is put by the message line supported by the exchange not by our software.

Could you help us code our custom strategy

Sample Strategy code is given along with the API to help new developers on-board quickly. We can help write strategies based on mutual agreement on commercials and available bandwidth.

Can I just keep my strategies in Excel and use your platform to execute only? Does that add a lot of latency? Will Excel run stably if a lot of streaming data is coming in and a lot of calculations are taking place simultaneously

Right now support for Excel is not there. We might add it in near future.

My strategies are not latency sensitive - do I necessarily need to have Co-Lo presence to use your API platform?

No, it is not required. API 2 can be used for both latency-sensitive and non-sensitive strategies.

Can I create a dashboard to see the results of various strategies running on each server

Trader Frontend shall show the strategies run by that trader. Admin Frontend shall show individual and combined Trade Book and Net Positions. Logs of various strategies are generated at backend. With little Linux usage, it can be done at backend easily.

If I ask you to code my strategies, will you sign an NDA so you don't market the same to other people

We can help code strategies if we have a mutual agreement on commercials and available bandwidth. We can sign an NDA to keep the logic only for you.

Currently the number of legs is limited to 4. I am assuming this is arbitrary and this can be changed. If yes, how?

This is fixed at front end, as showing and choosing 50 symbols at front-end is not a very good idea. In such case, it is recommended to use some custom file format at back-end to read symbols.

The front end allows only custom inputs. Is there any way to have custom outputs?

On front-end there is no way to do it right now, we plan to do it in next release. On backend, you can dump outputs to files.

But more generally, I don't understand why is the frontend needed. It places numerous other constraints on the user. As far I can tell, currently the frontend is primarily being used to declare the instruments that I would be subscribing to. Can I not do that in code - maybe use a custom config file or something?

Yes definitely, everything can be done from backend config file only. Inside the strategy code, you will need to write code to read and parse the config file per your need.

Front-end shall still be required to launch a strategy. You can keep a blank form and just use the Run/Stop buttons.

Apart from that I can have a bidirectional socket in my strategy code and communicate to a custom UI anyway with all the inputs and outputs I want to have. Is there a specific reason to have the proprietary frontend?

Yes, you can have a bidirectional socket (or other IPC mechanism) in strategy code to communicate with your custom GUI. Backend strategies are dynamic link libraries which can be loaded in backend by issuing a command from proprietary frontend.

Proprietary frontend is useful for Order-Book, Trade-Book, Net Positions and Market Watch Widgets. Also, it allows you to run in-built strategies on the same server and platform as your custom algos.

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5. Contact Us



We would love to hear from you to understand your business needs and discuss how we could assist you in achieving your goals. Please contact us at info@utradesolutions.com for further details.

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