



uTrade

FREQUENTLY ASKED QUESTIONS

API Version 2.0

Date: Aug 2, 2018

Company Overview

uTrade Solutions is a fintech company providing enterprise software for financial trading, including multi-asset trading platform, algorithms and risk management solutions to financial institutions and their end customers. Our product suite includes the following:

- ✓ **Low latency algorithmic trading platform:** Used in exchange co-location environment or in client data centers/cloud for fastest access to markets to execute arbitrage, market making, execution, excel based, quant driven, API based proprietary and various other strategies across all asset classes. It also provides FIX APIs for DMA and Algos access.
- ✓ **Multi Asset Trading platform:** with full suite application and html5 web-based front ends (Including admin functions, risk management, order management, connectivity to exchanges etc.). It supports trading for all listed products including equities, futures, options, commodities, as well as for non-listed products like FX etc.
- ✓ **Open Source, Risk Management, and Custom Solutions:** We also customize and open source some modules of our technologies.
- ✓ **Hashcove** - uTrade's partner firm Hashcove is driving new age technology solutions around crowdsourced digital platforms.

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.

Please watch our video demos at:

→ www.youtube.com/utradesolutions

→ www.youtube.com/hashcove uTrade Solutions was recognized as a leading innovative fintech start-up



Table of Contents

Company Overview	2
Table of Contents.....	3
1.Disclaimer.....	4
2.Preface.....	4
3.Scope of Document.....	4
4.Frequently asked Questions.....	4
5.Contact us.....	7



1.Disclaimer

This information is intended for sharing the product details for the purpose of potential partnership opportunity. No content and the ideas presented hereby maybe re-used, re-distributed or discussed outside of the organization where it is presented (without the prior consent of the author of this document). None of the ideas for financial trading technology presented in these slides maybe copied or shared with parties that could be potentially competing against uTrade Solutions. The information shall not be distributed or used by any person or entity in any jurisdiction or countries where such distribution or use would be contrary to the applicable laws or Regulations. It is advised that prior to acting upon this information, independent consultation / advise may be obtained and necessary due diligence, investigation etc. may be done at the users end. You may also contact us directly for any questions or clarifications. All statements regarding the future are subject to inherent risks and uncertainties, and many factors may lead to actual profits or losses & developments deviating substantially from what has been expressed or implied in such statements.

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

4.Frequently Asked Questions

1. What packages are required for Development: 8
2. Do development server and Production server need to be different8
3. How many users can be logged on simultaneously to one server 8
4. How many strategies could be run on one server simultaneously 8
5. Could you help us code our custom strategy? 8



6. 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	8
7. My strategies are not latency sensitive - do I necessarily need to have Co-Lo presence to use your API platform?	8
8. Can I create a dashboard to see the results of various strategies running on each server	9
9. If I ask you to code my strategies, will you sign an NDA so you don't market the same to other people	9
10. Currently the number of legs is limited to 4. I am assuming this is arbitrary and this can be changed. If yes, how?	9
11. The front end allows only custom inputs. Is there anyway to have custom outputs?	9
12. 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?	9
13. 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?	10

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 CoLo 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 inbuilt strategies on the same server and platform as your custom algos.

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.



uTrade's Client presence



uTrade

info@utradesolutions.com

www.youtube.com/utradesolutions





uTrade

info@utradesolutions.com

uTrade Solutions Private Ltd.

2nd Floor, Landmark Plaza (F3), Quarkcity SEZ,

A40A, Industrial Area, Phase 8 Extension,

Mohali – 160 071,

Chandigarh, India

Disclaimer: This information is intended for sharing the product details for the purpose of potential partnership opportunity. No content and the ideas presented hereby maybe re-used, re-distributed or discussed outside of the organization where it is presented (without the prior consent of the author of this document). None of the ideas for financial trading technology presented in these slides maybe copied or shared with parties that could be potentially competing against uTrade Solutions. The information shall not be distributed or used by any person or entity in any jurisdiction or countries where such distribution or use would be contrary to the applicable laws or Regulations. It is advised that prior to acting upon this information, independent consultation / advise may be obtained and necessary due diligence, investigation etc. may be done at the users' end. You may also contact us directly for any questions or clarifications. All statements regarding the future are subject to inherent risks and uncertainties, and many factors may lead to actual profits or losses & developments deviating substantially from what has been expressed or implied in such statements.