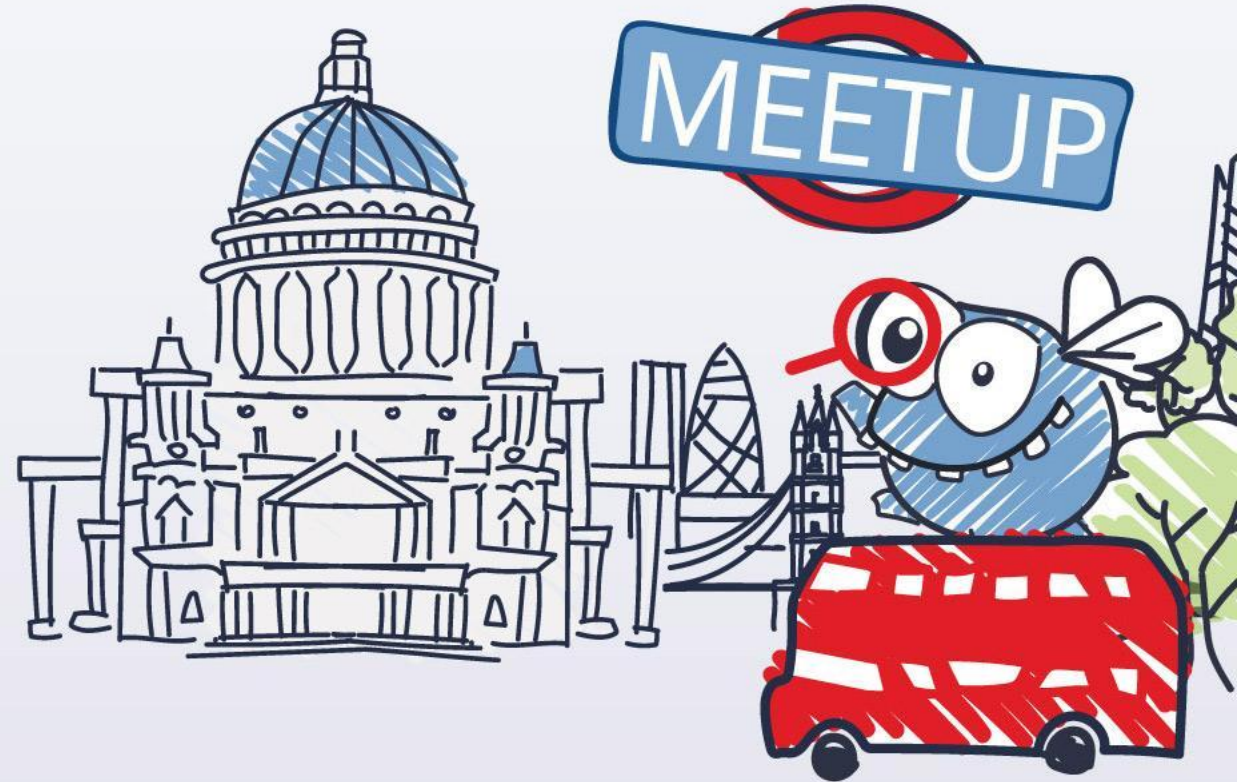# Exactpro Open Source Strategy

Maxim Rudovsky
20th June 2018

Build Software to Test Software

- Automated testing (and analysis of results) wherever possible

- We develop our own tool suite we use & create new tools as needed

- Test Automation is in our DNA, our tool set is a key part of our added value

- Open Source software underpins all our testing tools software

Shsha
TESTING TOOL

Automated monitoring, analysis and reporting

LoadInjector
TESTING TOOL

75K messages / second from a single CPU core
Measures latencies in microsecond range

Sailfish
TESTING TOOL

Automated testing
Compares intended and actual results

MiniRobots
TESTING TOOL

A variety of algoes simulating end-clients will run and see how system performs

Trading System

ClearTH
TESTING TOOL

Automated End-to-End clearing system testing

JackFish
TESTING TOOL

Efficient GUI automated testing solution

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Open Source software underpins our testing tools software

We've used QuickFIX/J (a full featured messaging engine for the FIX protocol and a 100% Java open source implementation of the popular C++ QuickFIX engine) as our first FIX engine
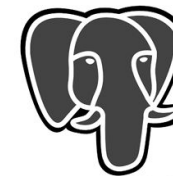
https://www.quickfixj.org/

To store all messages, we use:

- MySQL, the world's most popular open source database, which many of the world's largest and fastest-growing organizations rely on to save time and money powering their high-volume Web sites, business-critical systems and packaged software, and

https://www.mysql.com/

- PostgreSQL, a powerful, open source object-relational database system that uses and extends the SQL language combined with many features that safely store and scale the most complicated data workloads.

https://www.postgresql.org/

To develop our test tools' user interfaces, we've relied on a set of frameworks.

90% of our desktops and servers run on Linux.

We've always wanted to give back to the Open Source community.
To celebrate 20th anniversary of Open Source Initiative in 2018, Exactpro goes Open Source this year.

https://opensource.org/

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Exactpro Open Source strategy

It is easier for us to implement our Open Source strategy now that we have completed the management buyout from the London Stock Exchange Group

https://exactpro.com/news/exactpro/exactpro-announces-management-buy-out-london-stock-exchange-group

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Exactpro Open Source strategy

Control over their test harnesses is important for our clients.

Therefore our strategy has always been to license the software testing tools along with their source code to the clients.

To give our clients even more confidence in the software testing tools they use, this year we are rolling out several of our testing tools into Open Source.

Makes our software developers happier, too… ☺ ☺ ☺ ☺

Seattle
Portland
Toronto
Montreal
Washington D.C.
New York
Oslo
Umeå
Stockholm
London
Paris
Amsterdam
Vienna
Milan
Athens
Moscow
Astana
Dubai
Hong Kong
Colombo
Singapore
Johannesburg
Sydney

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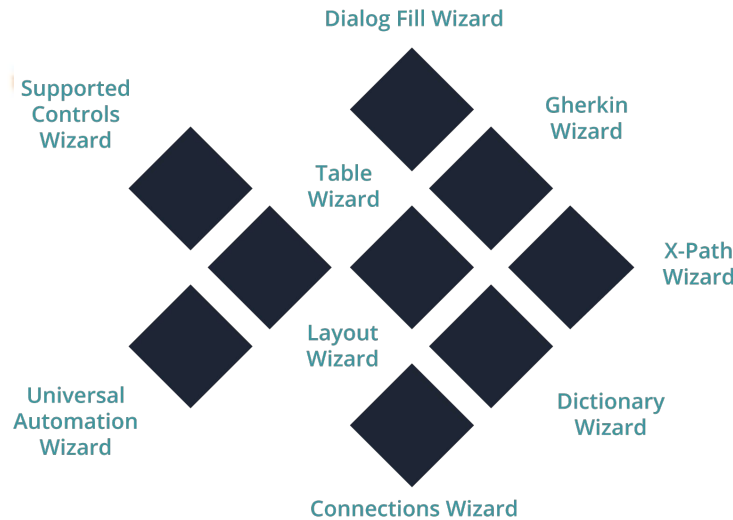exactpro.com

JackFish has been donated to Open Source

JackFish testing tool

We prefer to focus on API whenever possible.

Still, in some rare cases, UI test automation is also required.

Learn more here:

https://exactpro.com/test-tools/jackfish

https://github.com/Exactpro/jackfish

Dialog Fill Wizard

Supported Controls Wizard

Gherkin Wizard

Table Wizard

X-Path Wizard

Layout Wizard

Universal Automation Wizard

Dictionary Wizard

Connections Wizard

CLICK TO OPEN THE GITHUB PROJECT

JackFish is licensed under the Apache 2.0 license — APACHE

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Next steps

Sailfish TESTING TOOL

We plan to donate our tools Sailfish and Nostradamus in October 2018, before the SIBOS conference in Sydney, Australia:

Sailfish is an active real-time tool used for exchange, MTF and broker systems testing. It is also used as an exchange simulator for testing post-trade systems or smart derivatives.

It is a web-based application written in Java which supports simultaneous connections of multiple users for both incoming and outgoing streams.

Nostradamus

Predicts the testing metrics:
- time to fix / time to resolve (TTR)
- which defects get fixed
- which defects get rejected

Automatic recommendations on the probability of:
- a certain priority
- the area of testing
- a bug fix or reject

open source

GitHub

https://www.sibos.com/about-sibos/sibos-2018-sydney

Date: **FEB 06, 2018**

On 22-25 October 2018, Sydney will host Sibos - one of the world's premier financial services events. Exactpro is already scheduled to be part of the exhibition.

Exactpro is taking part in SIBOS for the third time in a row. Last year, Iosif Itkin, Exactpro co-founder and co-CEO, spoke on Disruptive Functional Testing in Toronto, Canada. The talk was based largely on Exactpro's work with LCH, T2S, clearing and settlement systems worldwide. The participants could also visit Exactpro's stand at the exhibition area throughout the conference.

After the successful 1997 and 2006 events, the largest city in Australia will host SIBOS for the third time. Besides its iconic sights, Sydney is famous as a major financial and economic hub across the Asia-Pacific region. It provides a quarter of the national GDP, and is home to the headquarters of more than 90 banks.The Australian Securities Exchange and the Reserve Bank of Australia are also located in Sydney, making it well-set

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Thank you!

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