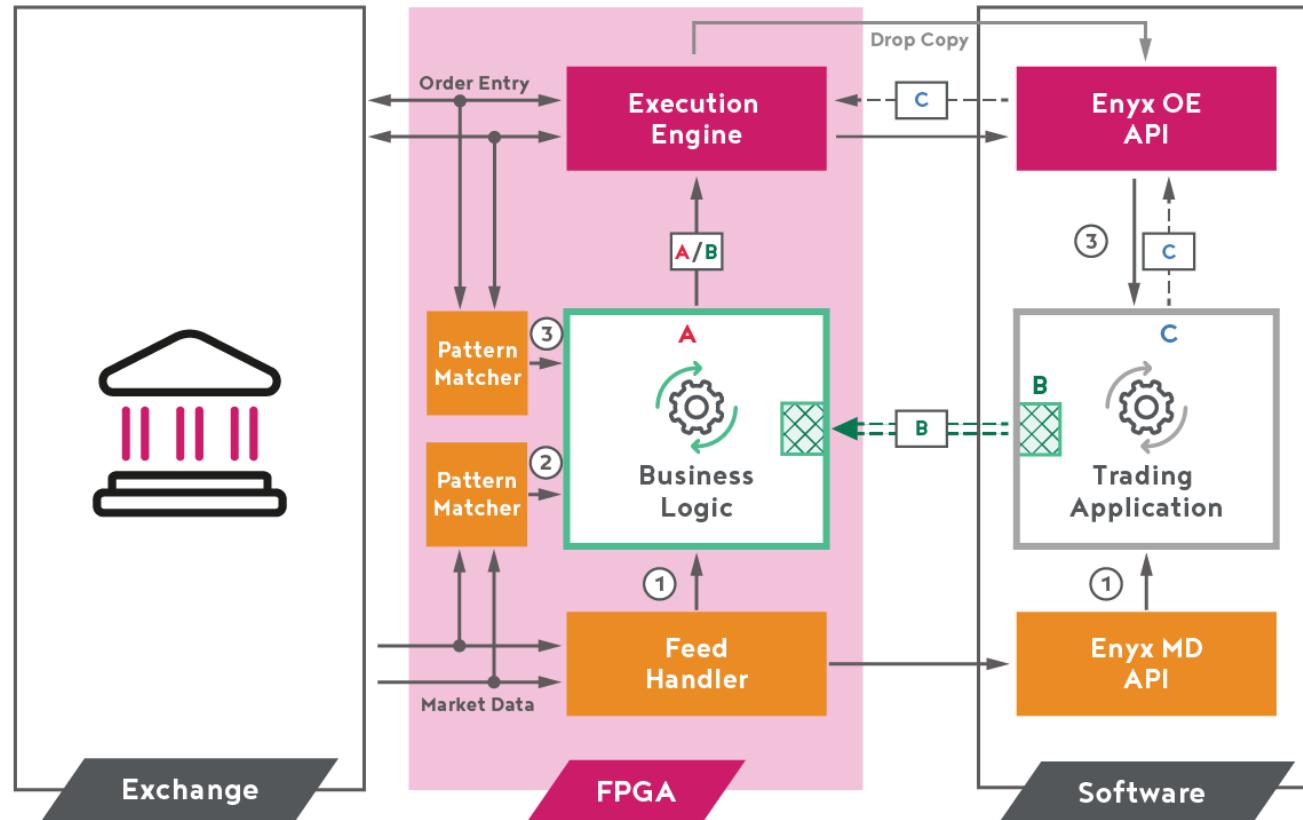




Do more with less:
How to trade using FPGA & get to market
faster without in-house expertise.

STAC - Spring 2023 - London

A versatile tick-to-trade solution



Feature complete

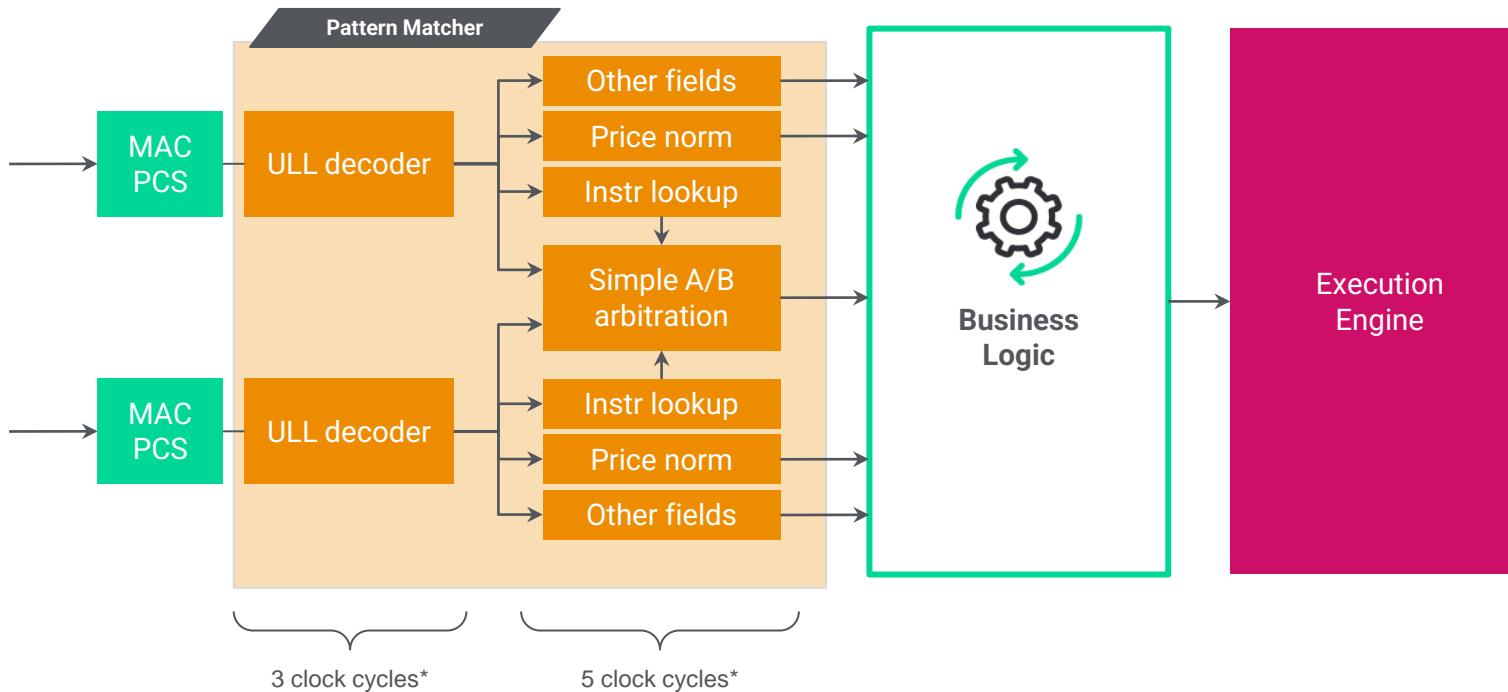
- Full FPGA book building with exchange resynchronization
- Customizable pattern matchers to extract data from raw protocols
- Full FPGA TCP management
- Embedded kill switch
- Parallel hardware & software datapaths

Use cases

- Fast cancel
- Market making
- Quantitative trading



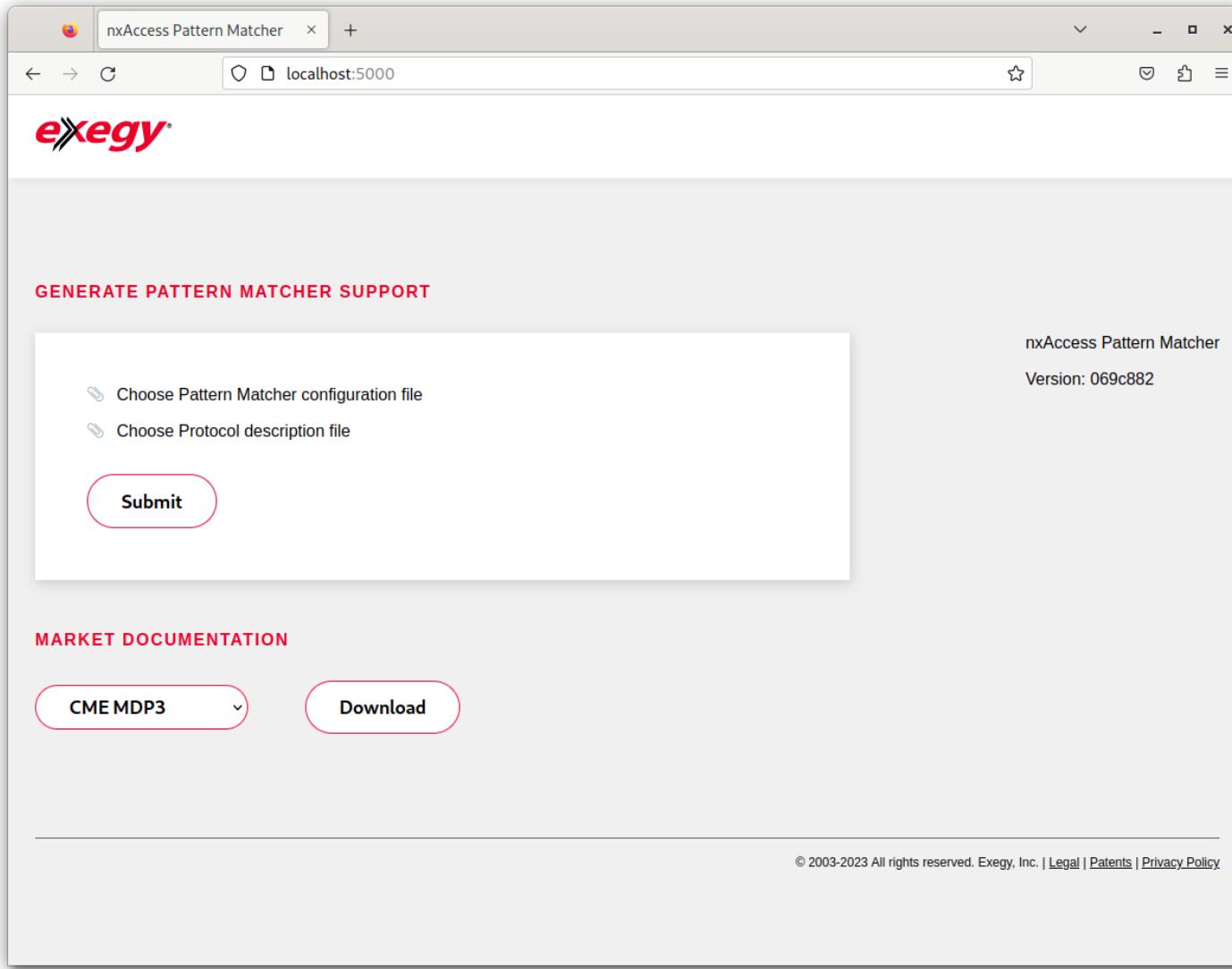
Best performance without the pain



- Only process/outputs required fields/messages
- Tag/Value output
- Optional data processing:
 - Price normalization
 - Instrument lookup
 - Type conversion
 - A/B arbitration



Customizable Pattern Matcher



The screenshot shows a web browser window titled "nxAccess Pattern Matcher" at "localhost:5000". The page features a large "exegy" logo at the top left. Below it, there's a section titled "GENERATE PATTERN MATCHER SUPPORT" containing two input fields: "Choose Pattern Matcher configuration file" and "Choose Protocol description file", each with a "Browse" icon. A red-outlined "Submit" button is positioned below these fields. To the right, the page displays "nxAccess Pattern Matcher Version: 069c882". Further down, under "MARKET DOCUMENTATION", there's a dropdown menu set to "CME MDP3" and a red-outlined "Download" button. At the bottom, a copyright notice reads "© 2003-2023 All rights reserved. Exegy, Inc. | [Legal](#) | [Patents](#) | [Privacy Policy](#)".

- SAAS solution to generate custom HDL code for your use case
- Upload simple configuration files to specify which fields and which messages the pattern matcher should process
- Enable/disable data processing features
- Configurable tag/value to allow for some level of normalization across venues

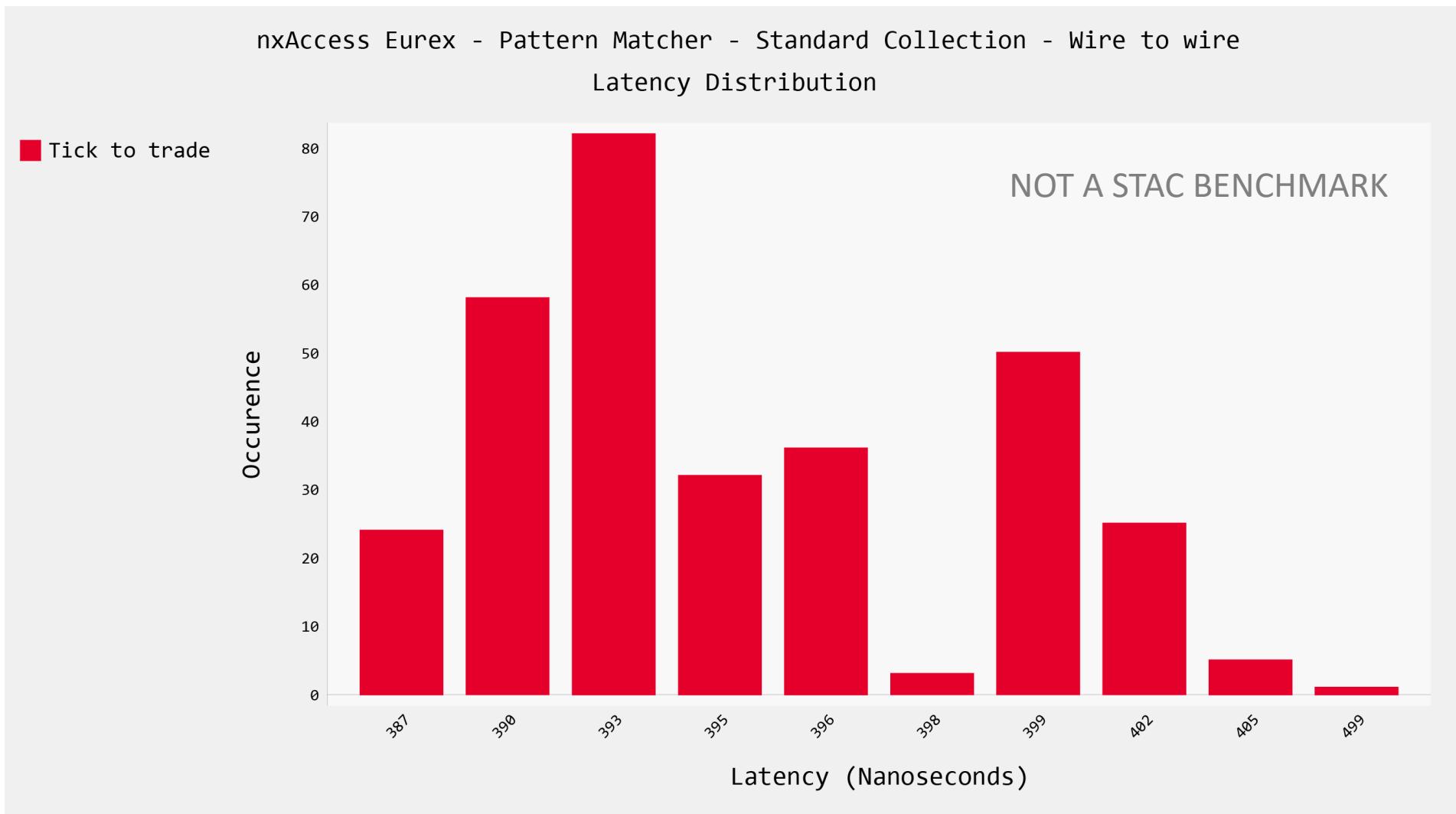


Hardware Latency – Feed Handler





Hardware Latency – Pattern Matcher





Global Coverage

Equities

Futures

Options

**Fixed
Income**



Cboe BYX
Cboe BZX
Cboe EDGA
Cboe EDGX
Cboe BZX Options
Cboe EDGX Options
Cboe C1
Cboe C2
Cboe Futures (CFE)
CBOT
CME
COMEX
NYMEX
All Other Channels
BrokerTec
NYSE
NYSE American
NYSE Arca
NYSE National
ICE Futures US
Nasdaq Stock Market
Nasdaq BX
Nasdaq PSX
Nasdaq Fixed Income
All US Options Venues
Montréal Exchange

Cboe Europe Equities - BXE
Cboe Europe Equities - CXE
Cboe Europe Equities - DXE
Eurex
Xetra
Euronext
Euronext Amsterdam
Euronext Brussels
Euronext Dublin
Euronext Lisbon
Euronext London
Euronext Paris
Alternext Paris
ICE UK LIFFE
LME
Borsa Italiana
EuroTLX
FTSE
London Stock Exchange
Trade Echo
Turquoise
SIX Swiss Exchange

HKEx Securities
HKEx Derivatives
Osaka Exchange (OSE)
KOSPI
KOSDAQ
NSE
TAIFEX



Straightforward onboarding

- Software simulation models for market data and order entry for development and **testing without the need for a FPGA card**
- Extensive documentation and reference designs
- Reference firmware allows for full solution testing without any hardware development

Thank you

**Don't forget to tick the Exegy
box for more information!**

