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Online Free Webinar

AI in Market Infrastructure: Compliance, Resilience and Testing, with Lessons from Global Exchanges and Murabex Commodity Murabaha Platform

Where AI makes a real difference in FMIs, and how to adopt it in a way regulators and operators can trust

Dates: December 14, 2026
Time: 12:00 pm (Beirut time)

WEBINAR OVERVIEW

Exchanges and clearing houses are under pressure to watch more activity, report faster and stay resilient while their systems get more complex. AI can help with all three, but in systemically important infrastructure the bar is higher: every model has to be explainable, testable and kept under control.

This webinar looks at three areas, regulatory compliance (including market surveillance), operational resilience and AI Testing, through two complementary examples. The first is global exchanges and clearing houses: high-throughput, heavily regulated and built on long-lived systems. The second is Murabex, a new Shari'ah-compliant commodity Murabaha platform built with the Exactpro team, with clearing via a national exchange and DLT-based settlement. Together they show how lessons from proven infrastructure inform new platforms, and how new platforms in turn show what can be built in from day one. Running through all three is AI literacy: the people who build, operate, supervise and test these systems need to understand what AI can and cannot do, how to question its outputs, and when to override it. We also look at time to market: how AI, used with the right controls, can shorten the path from design to launch for new products and platforms without weakening compliance or resilience.

WHO SHOULD ATTEND

CTOs, CIOs, CROs, Heads of Compliance and Surveillance, technology and operations leaders at exchanges, CCPs and CSDs, Islamic finance and Shari'ah compliance teams, and the regulators who oversee them.

Agenda

1. Setting the scene (8 min)

where FMIs are adopting AI today, why critical infrastructure needs a different approach, and the two examples: global exchanges and clearing houses, and the Murabex commodity Murabaha platform

2. Regulatory compliance and surveillance (15 min)

- At exchanges: rulebook change analysis, mapping obligations to controls, automated reporting and ISO 20022 / message-level checks, surveillance alert triage with explanations investigators can use
- At Murabex: turning AAOIFI standards into programmatic compliance rules, where AI can help interpret and maintain them, and monitoring trade sequencing and ownership transfer, a core Shari'ah requirement



3. Operational resilience (15 min)

- At exchanges: anomaly detection in trading, market data and clearing flows, AI-assisted incident analysis, alignment with DORA and PFMI-style expectations
- At Murabex: resilience across cloud infrastructure, DLT settlement and the clearing link with the national exchange, and failure scenarios in a multi-party Murabaha workflow

4. AI Testing (17 min)

- Testing AI systems: checking non-deterministic models for correctness, bias, drift and robustness; building evidence for regulators, auditors and Shari'ah boards; human-in-the-loop controls
- AI for testing: AI-assisted test design, synthetic market data, and exploring system behaviour at scale, with test engineers kept in control
- At exchanges: testing matching, market data and clearing systems across protocols such as FIX and ITCH
- At Murabex: testing Shari'ah compliance logic and the end-to-end Murabaha lifecycle, from order to DLT settlement

5. Wrap-up (5 min):

what carries over between legacy and new infrastructure, and what has to be designed in from day one

6. Q&A (30 min)



Key takeaways

- Practical AI use cases for compliance, surveillance and resilience at exchanges and clearing houses
- How the same themes play out in a new, Shari'ah-compliant, DLT-based platform like Murabex
- How to test and validate AI components to a standard that fits systemically important infrastructure
- Where AI can make testing of market infrastructure faster and broader, and where it can't
- What to retrofit into existing infrastructure, and what to design into new platforms from the start

Speakers



Iosif Itkin, Co-founder & CEO, Exactpro; CTO, Murabex.

Iosif has led Exactpro since 2009 and heads its AI Testing practice and research into the reliability of high-load trading systems. He is a co-author of Introduction to AI Testing: Guide to ISTQB® CT-AI.



Alyona Bulda, SVP, Emerging Technologies, Exactpro; Head of Platform, Murabex.

Alyona has spent nearly 16 years at Exactpro working on software testing for market infrastructure, DLT and tokenisation, and AI in financial systems.



Anna-Maria Lukina, Marketing Director, Exactpro.

Anna-Maria is a co-author of Introduction to AI Testing: Guide to ISTQB® CT-AI.

ABOUT THE COMPANIES

Murabex is a Shari'ah-compliant commodity Murabaha platform co-founded with the Exactpro team. It is built around AAOIFI standards, with Shari'ah compliance enforced programmatically, DLT-based settlement of tokenised assets and clearing via a national exchange. murabex.com

Exactpro is an independent provider of AI-enabled software testing services for exchanges, post-trade platform operators and banks across 25 countries. It helps clients decrease time to market, maintain regulatory compliance and improve operational resiliency, with expertise spanning test strategy, AI Literacy building and enterprise AI integration. Headquartered in the UK, Exactpro has delivery centres in Georgia, Sri Lanka, Armenia and the UK. exactpro.com



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