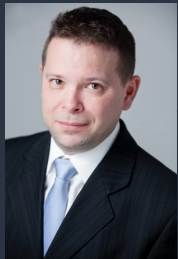


MONOLITH

DELIVERING
BUSINESS
SUCCESS



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2001

MONOLITH

Establishment of Monolith Rendszerház

2003



Supporting securities account management and full range of investment services for Retail, Private and Institutional investor clientele



UniCredit Bank Hungary
Supporting securities account management and full range of investment services for Retail, Private and Institutional investor clientele (Creditanstalt Ltd., HVB)

2008



Supporting securities- and client account management, investment fund trading and other key trading activities

2010



Supporting entire securities- and client account management for investment service providers and settlement activity, general ledger system

2013



Supporting securities- and client account management for investment service providers, execution of domestic and international securities own-account deals and orders

Expansion strategy

- Change in technology (APEX)
- Front-end product development
- Regional expansion



ISO 27001

MiFID2

2016



UniCredit Bank Romania
Trading domestic and international investment funds, 360° portfolio statements for Private Banking clients

2015

2017



UniCredit Bank Hungary
Implementing front-end system with MiFID II compliance

2018



Raiffeisen Bank
Implementing front-end system with MiFID II compliance



UniCredit Bank Hungary
Implementing front-end system with MiFID II compliance

2019



Implementing Monolith mutual fund distribution module

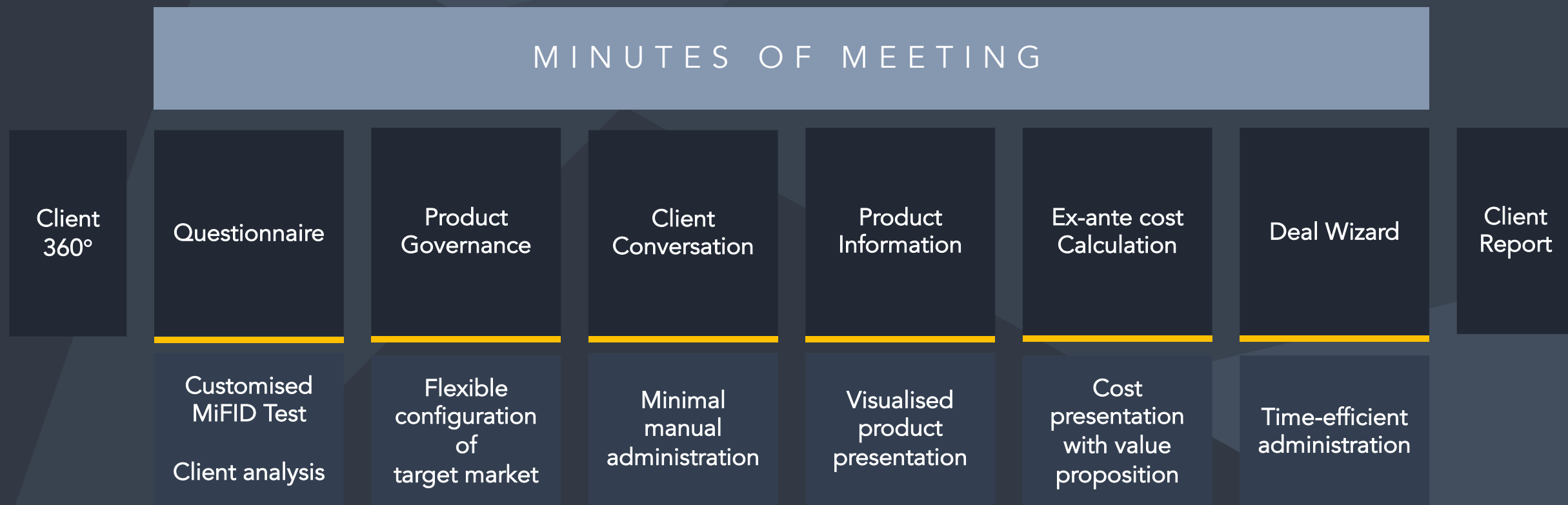
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Monolith Digital Investment Banking Platform™

Solution	Universal Banks	Brokerage Firms	Fund Houses
Investment product sales support – B2B	✓ Fully covered	✓ Fully covered	✓ Fund distribution
Back Office – Settlement	✓ Securities Treasury	✓ Fully covered	✓ Fully covered
Accounting	✓ Subledger	✓ Fully covered	✓ Fully covered
Custody	✓	✓	
Portfolio management	✓	✓	✓

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Sales support for investment products Minimal Total Cost of Operation (TCO)



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Value proposition (Sales opportunities)

PARTNERS

Universal Banks

- Upgrade to universal bank
- Application architecture consolidation
- Front-end system delivery – MiFID II compliance

Brokerage Firms

- Tailor-made services for different-sized green field service providers

Fund Houses

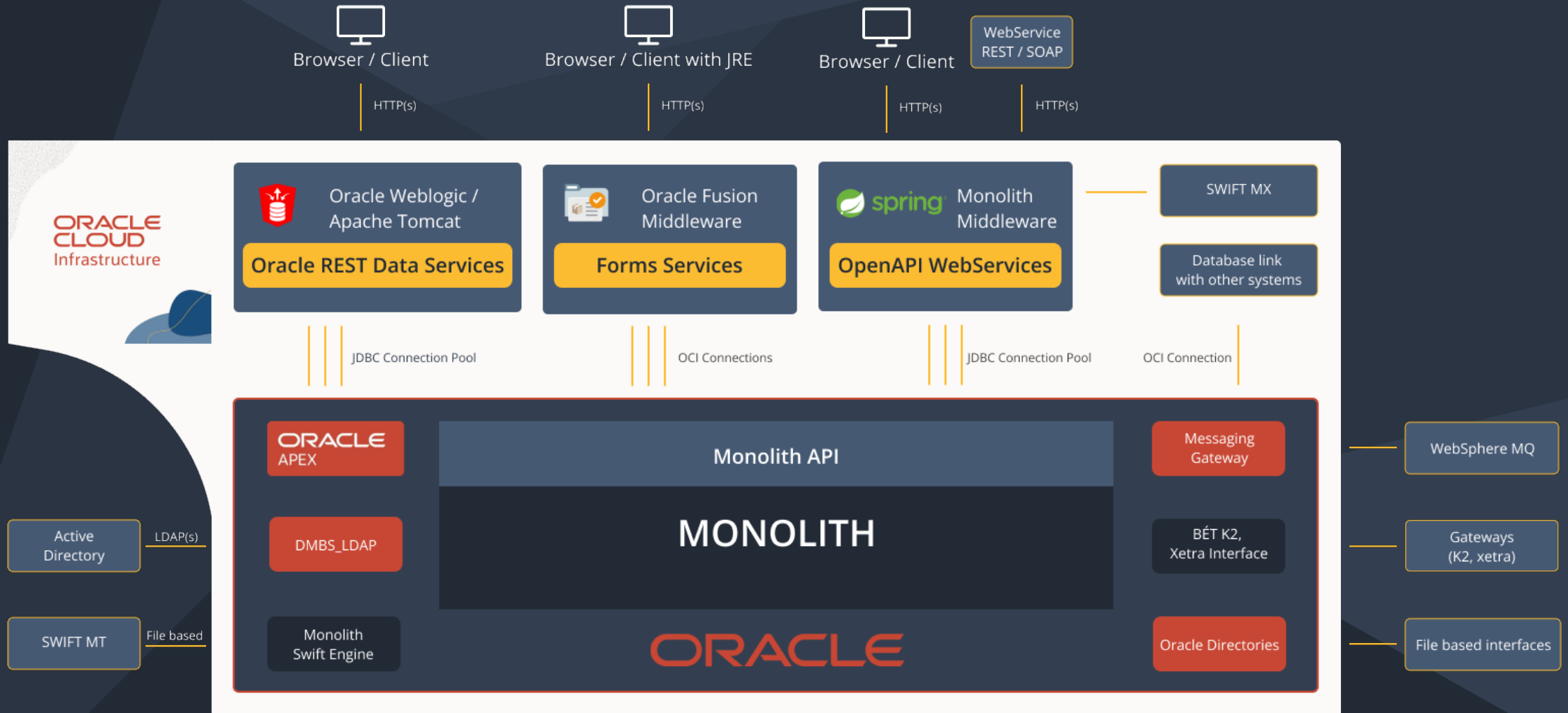
- B/O system replacement
- Fund distribution

Expansion abroad

Expansion abroad primarily, but not exclusively in CEE region

MONOLITH

100% Oracle technology





Case study – Monolith implementation at Alpha Bank Romania

Scope	Foreign fund distribution
Sales process	MifID2 compliant (questionnaire, product governance, ex-ante cost calculation and presentation, minutes of meeting) sales support
Settlement	STP settlement process based on securities (MT5xx) and financial SWIFT messages (MT103, MT202); MX type SWIFT messages under development
MIS	Sales dashboard of number of investors, assets under management and sales volumes
Flexcube integration	Interface messages: client static data and authorised persons data import, list of current accounts enquiry, account balance enquiry, posting booking items
IT infrastructure	Oracle Exadata Cloud @ Customer

Case study – Monolith implementation at UniCredit Bank Hungary

Scope	End-to-end support of all Investment Banking products and processes
Sales process	Small investors and financial institutions, B2B sales channels: branch network, private banking advisors, call centre and markets
Settlement	Straight-through processes: automatic allocation of executions, automatic booking of analytical securities and cash accounts
Accounting	IFRS9-based accounting of proprietary trading
Application integration	Integration of almost 30 banking applications
IT infrastructure	Oracle Exadata infrastructure

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Monolith OCI sizing

1. Small (newly founded small brokerage company)

	Database	Application Server
Virtual Machine	1x Base Database Service - Enterprise 1 OCPU, 16GB RAM	Compute VM - VM.Standard.E4.Flex 1 OCPU, 8GB RAM
Storage	100 GB High Performance	100 GB High Performance

2. Medium (middle size bank, 30 branches, below 10 000 deals/day)

	Database	Application Server
Virtual Machine	2x Base Database Service-Enterprise 2 OCPU, 30GB RAM	2x Compute VM - VM.Standard.E4.Flex 2 OCPU, 16GB RAM
Storage	500 GB High Performance	500 GB High Performance

3. Large (complex functionalities, large bank, above 10 000 deals/day)

	Database	Application Server
Virtual Machine	2x Base Database Service - Extreme Performance 4 OCPU, 30GB RAM	4x Compute VM - VM.Standard.E4.Flex 2 OCPU, 16GB RAM
Storage	2000 GB Ultra High Performance	2000 GB High Performance

MONOLITH

Complex investment banking IT solution for CEE region

Why Monolith

- Product portfolio fully covers legal IT system requirements of investment services providers
- State-of-the-art front-end system with MiFID II compliance
- Customised and automated business process
- Integrated analytics and general ledger
- 20-year proven and comprehensive track record in investment services
- Reasonable price-value offer

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www.monolith.hu