# **ACI** Russia

**Global Trends in FX eCommerce** 

Ben Ernest-Jones Solution Architect, Capital Markets Progress Software 17 Oct 2012 Progress. Apama.



# **Progress Apama Background**



- Progress Software (NASDAQ: PRGS), \$500M+ Revenue
- Apama Complex Event Processing Platform
- Focus on Capital Markets, >100 deployments WW
  - Algorithmic Trading
  - Market Making & Pricing
  - Best Execution
  - Surveillance & Compliance
  - Risk Management

# Progress 🛟

- Technologies
  - Progress distributor in Russia
  - Located in Moscow and St. Petersburg
  - In-depth knowledge of Progress products
  - Support, professional services, training, development

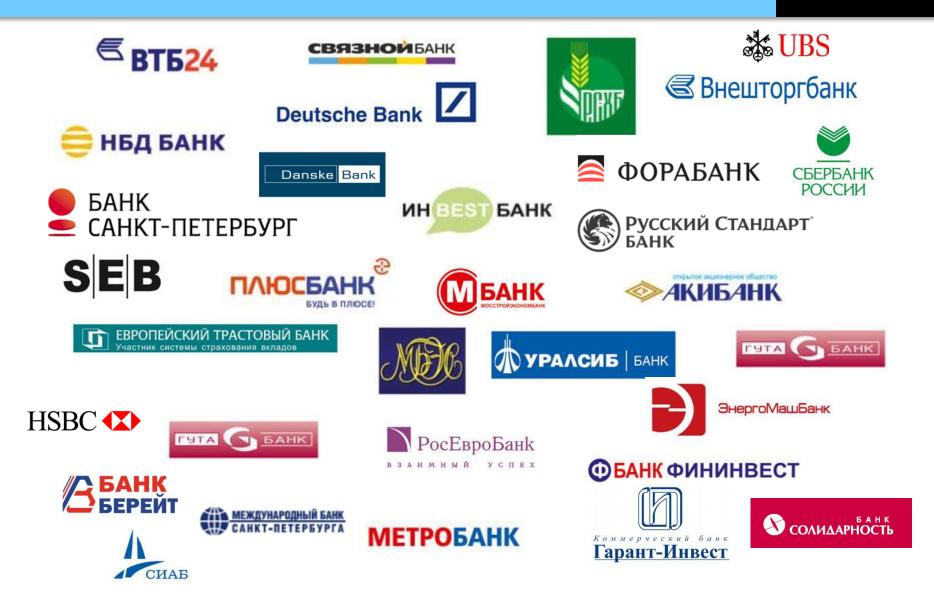
# Apama in Capital Markets: Clients and Use Cases





### Progress Technologies 20+ Years in Russian in Financial Market

PROGRESS software



# Agenda



## Trading Trends in the Market

- Fragmentation
- Changing ECN Landscape
- Importance of Single Bank Platforms

### Trends in FX Trading Technology

- Aggregation and eCommerce
- Current and Future Technology Trends





#### Trading Trends in the Market

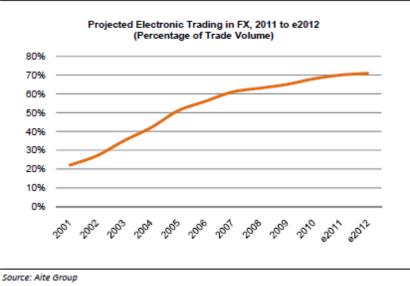
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# Trading Trends in the FX Market Electronic Trading



Projected Electronic Trading in FX



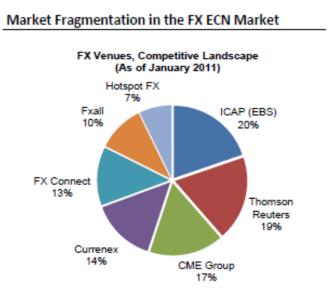
- Characterized by:
  - Rapidly changing market trends
  - Nature of the market can vary by currency
  - Short lived trading opportunities
  - Very small profit margins, requires large turnover to be profitable

- Steady increase in FX electronic trading over the past decade
- 68-70% of the FX market is now electronic
- Approximately 29-40% results from High Frequency Trading

(Source: Aite)

#### Trading Trends in the FX Market *Fragmentation*

 Fragmentation is extensive in the market, and has only increased over the years (so far)



Source: ECNs, Aite Group

- Challenges of trading in a fragmented market:
  - Best Execution
  - Venue Selection
  - Multiple Trading Screens
  - Phantom Liquidity



#### Trading Trends in the FX Market Fragmentation – Crossing Networks

- Initial methods of trading:
  - Interdealer brokers Reuters and EBS
  - Direct bilateral trading with tier 1 banks
- Shift to multi-dealer crossing networks (ECN's)
- Recent changes:
  - New entrants to the market with new business models
  - Existing venues rethinking their business models
- Main theme tailoring trading environments for specific classes of trading organizations
  - Bank vs Non-bank
  - Proprietary vs Agency
  - Institutional vs "Predatory" HFT





PROG











Tradition





#### Trading Trends in the FX Market Fragmentation – Single Bank Platforms

- Single Bank Platforms (SBP's) offer:
  - Lower cost of execution by not charging account or brokerage fees
  - Ability to negotiate 1 on 1 best prices
  - Quote based rates with guaranteed time-to-live
- SBP's profit through:
  - Margin based client pricing
  - Internalization for price improvement

- Recent changes:
  - Specialized algo order types (e.g. Credit Suisse AES, Barclays PowerFill+)
  - Support for FX derivatives (forwards, swaps, options, NDF's)



autobahn<sup>®</sup>FX

UBS

BARX THE TRADER'S BEST FRIEND

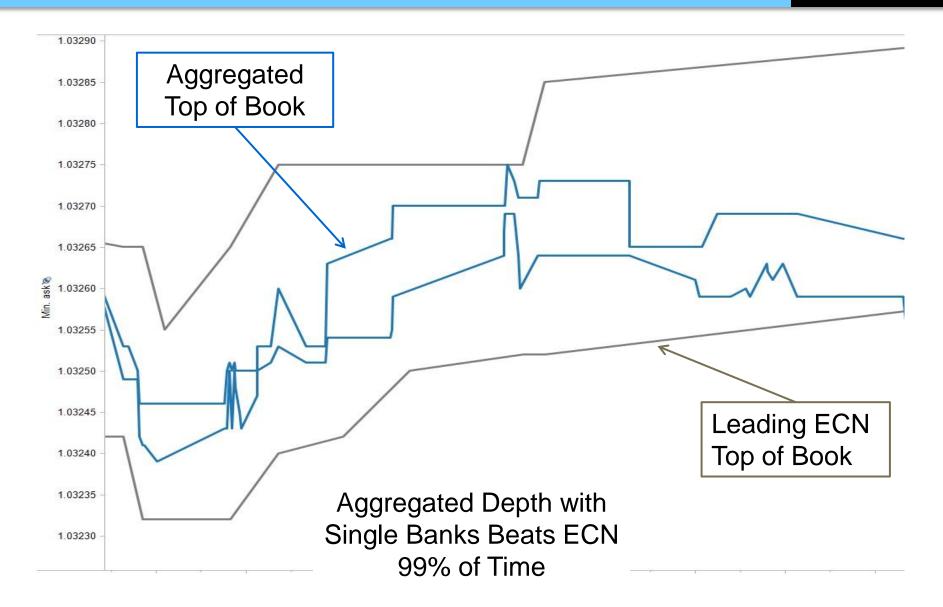








#### Trading Trends in the FX Market Fragmentation – ECN's vs Single Bank Platforms



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software



Which of the new ECN models (and new ECN's!) will survive?

Will we start to see further venue consolidation?

Will the industry return to crossing networks in place of direct single bank trading?

Will single bank platforms offer more advanced pricing models to compete with each other and the ECN's?



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# Agenda



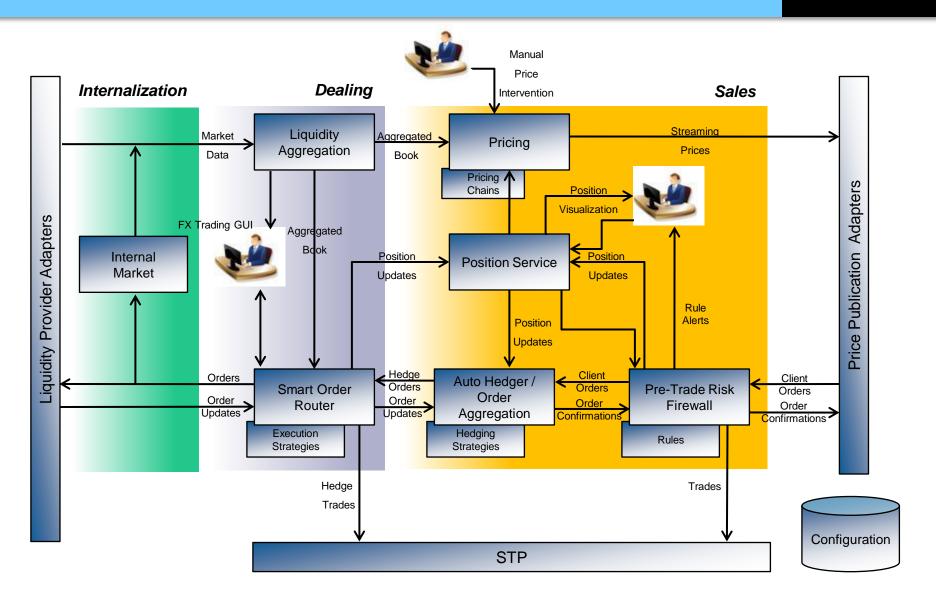
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#### Trends in FX Trading Technology Aggregation and eCommerce – Key Components



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### Real-Time Data Management (e.g. Complex Event Processing)



- PROGRESS software
- The general framework for aggregation and smart order is becoming more commoditized.
- Increased demand across tier 1 and tier 2 institutions for eCommerce Pricing and Auto-Hedging systems.
- For small FX trading operations, a handful of black-box services are available.
- For larger operations (e.g. 2+ yards/day) acting as profit centers, a more powerful, customizable trading solution is required.

 Speed isn't everything - smarts can be just as important, if not more.



#### Trends in FX Trading Technology Aggregation and eCommerce – Implementation Challenges

- Normalization Across Trading Venues
- Stale Rate Management
- Venue Order Rejection Tracking
- Order Execution Speed Bumps
- Price cleansing
- 3<sup>rd</sup> Party System Integration
- Multiple Global Deployments
- Risk Control

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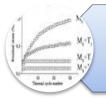


#### Trends in FX Trading Technology Current Technology Trends





Custom execution logic based on Single Bank Platform negotiations



Expanding beyond FX Spot to include derivatives: forwards, swaps, NDF's, options



Providing custom market making services using synthetic instruments



Internalization to reduce execution fees and market impact



Incorporating real-time and historic data into trade execution decisions (Transaction Cost Analysis, Risk, Credit Limits)

#### Trends in FX Trading Technology Future Technology Trends



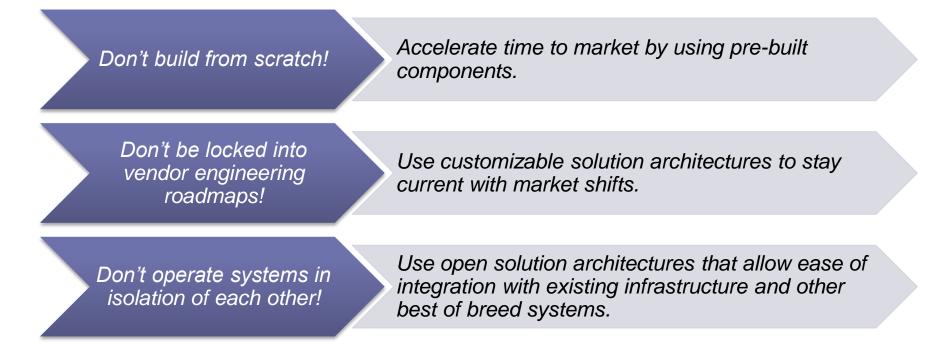
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The FX market is complex and constantly evolving.

To survive and be successful you must leverage flexible, *customizable* trading platforms and toolkits.





Progress. Apama.