2018 Extent Conference

Post Trade Testing Complexity: By Design or by Choice?

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Trusted partner for your Digital Journey



Post Trade Testing... ... Complex?

Post Trade Testing... Complex? Business domain challenges



Why Post Trade Testing is complex...

- Plenty of upstream and downstream feeds in various formats
- Many business objects each one of them having its own lifecycle...
- spanning different timeline and related to one another
- ... All of them dependent on the asset classes



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Post Trade Testing... Complex? Testing scope



How to best test it?

- You cannot escape the whole set of tests: Unit Test, Component Test, Integration Test, etc.
- These tests can validate a specific change or user story.
- ...They can hardly ensure regression testing due to the specific nature of Post trade business domain.
- I don't know any post trade business that will sign off a change unless you run a full End to End (E2E) regression test.
- **E2E is the ultimate gatekeeper**...
- ... and the most daring challenge!





Complex... By Design or by Choice?

By Design or by Choice? System design choices have impacts...



Learnt the hard way...

- EDA oriented complex post-trade infrastructures with high number of components are efficient but come at a high price in term of testing
- Implementing a E2E framework after development is no easy task

Better think about it at design phase...

- After all test automation is development!
 - Why not make it part of the core requirements?
 - How can we include testing features?
 - How can we help implementing "native E2E testing"?



) The way forward... ... Designing for testing

Designing for testing In a DevOps world, speed is the key



DevOps

- Let's face it: it is quite unfair to have remove QA from the picture...
- It is one of the core enabler of any DevOps approach

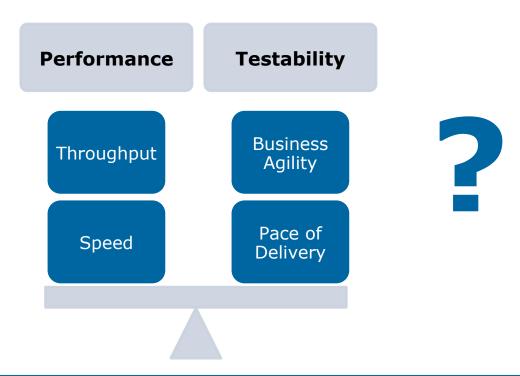
DevOps for Post Trade

- While is fairly easy to implement other types of tests (e.g. Unit or component level), E2E has its own challenges in post trade.
- E2E being the ultimate gatekeeper, it is the main hurdle for a full speed DevOps approach
- It can be balanced by investments made at the design and implementation phase of a post trade system.
- It should pay off in business agility... at a cost



Designing for testing Design is a trade off





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Designing for testing Keep learning...



Learning is not compulsory...

... Neither is survival.

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Thanks

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