

Open Day 2019

Private C7 FIXML Simulation in the Cloud

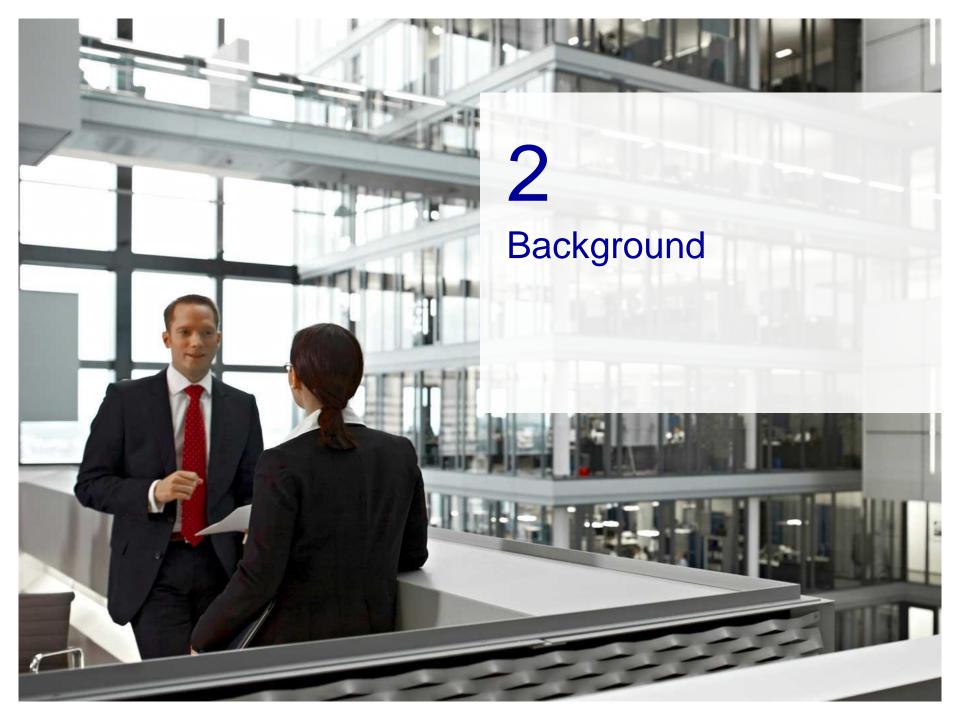
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What

Clearing members and vendors raised the request towards Eurex Clearing to offer a **private** testing environment to enable an automated regression testing.

Why

- Applications for straight through processing are under continuous development. There are always changes, sometimes on weekly scale, because some CCP launches new features or fix-its must be deployed.
- This high frequency of software deployments to production require largely automated testing.
- This puts a challenge to a real end-to-end testing between CCPs and customers. Either interfaces are only mocked or schedules must be adapted to the simulation schedules offered by the CCP which is often not convenient or not possible at all.



Solution proposal (1/2)

- Each member could launch a private C7 environment hosted in an AWS cloud accessible via internet.
- Reference data is copied from normal simulation therefore known.
- Scope implemented:
 - Trades can be entered through a defined API.
 - The FIXML transaction workflows can be tested completely using a real broker connectivity.
 - There is also access to the GUI to check results in order to investigate what happened.
- Future extensions
 - Self service portal
 - Public FIXML messages for reference data changes such as new series

Solution proposal (2/2)

- Out of scope for now:
 - End-of-day processing including assignments and expiration processing
 - XML or printable reports
 - Margining and Advanced Risk Protection
 - Cash management
 - Collateral management
 - User entitlement
 - Corporate actions

Demonstration

Watch the demonstration. Your feedback is highly welcome!



Thank you for your attention.

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26 September 2019

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