

Leveraging continuous testing to enable continuous delivery.

Remove bottlenecks and reduce risks in Delivering Business Value.

Gary Thornhill and Priya Raju Sandhata Technologies Thursday 7th November.



Agenda

- Explain Software bottlenecks
- Traditional Testing Versus Continuous Testing
- Role of Service Virtualization in CI
- Introduction to CI
- Use Case Introduction
- Testing Landscape
- Sandhata SWIFT Plugin
- Demo Overview
- Demo



Bottlenecks in Software Delivery



Traditional testing versus continuous testing

- Manual Testing
- · Crest time noutes l'astitute de la practite et matthes
- · testingntovaccolorate and guaranteesthe Quality of all
- . functions of the Software delivery erate all phases of SDLC
- Focused on Business Requirements Only
- Weak Regression testing Strategy

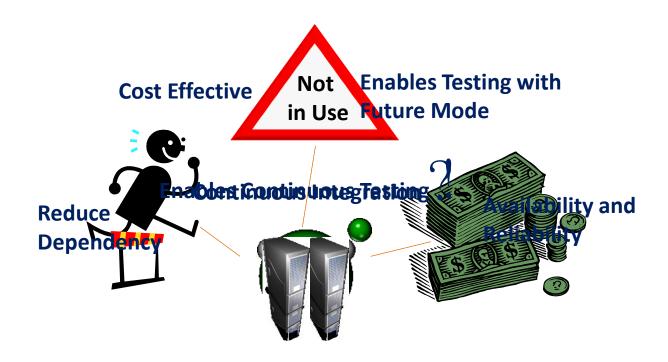
 Test Framework defined is suitable for CI

Automated Testing

 Testing has been aligned at different levels to accelerate delivery and increase Quality.

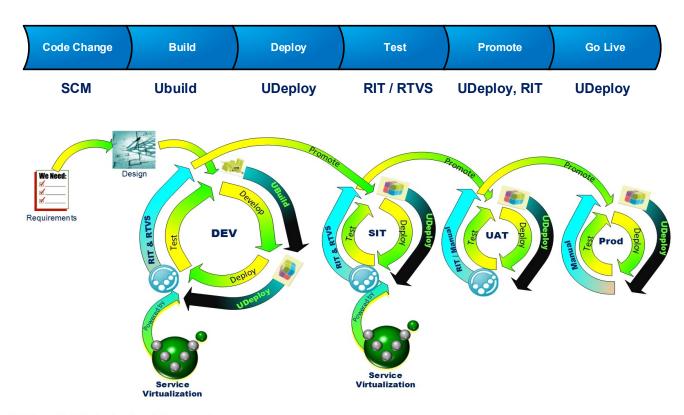


External / Legacy Systems Dependencies



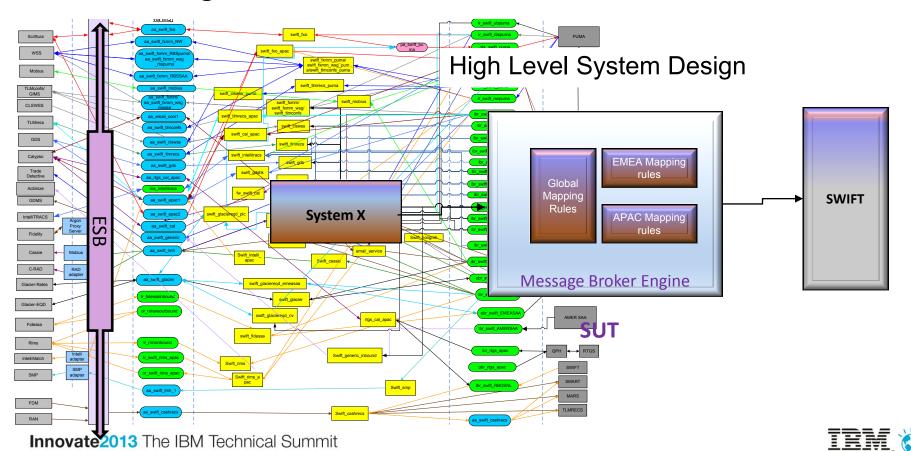


Continuous Integration

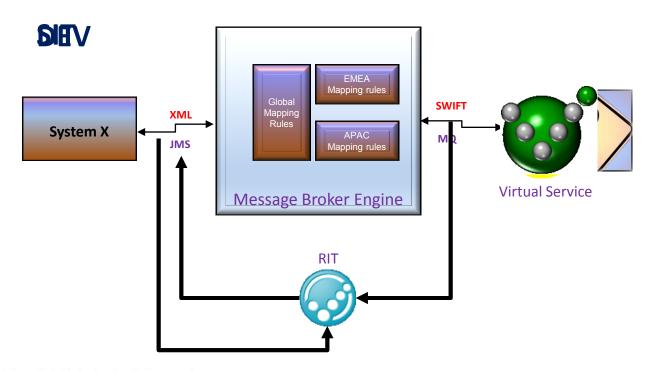




Introducing the Use Case

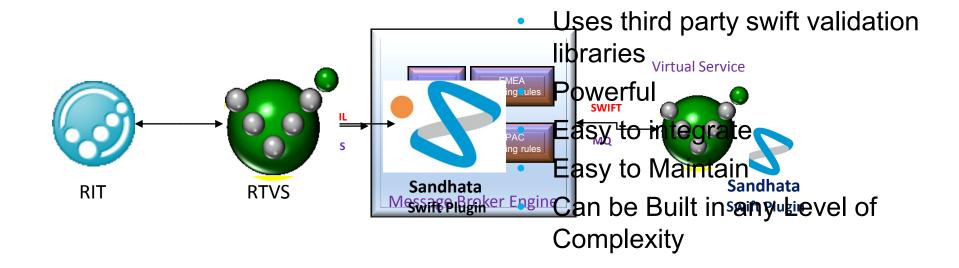


Testing Landscape





Sandhata SWIFT Plugin





Introduce the demo scenarios

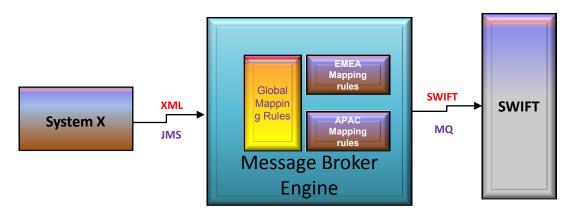
Scenario	Objective of the Demo
The APAC Business has requested for a Change in to prefix "APAC" in the Regulatory Reporting field	 Demonstrate the automated build and deployment Demonstrate the power of automated testing in component Level before Integration
The EMEA Business has requested for a Change to apply the Exchange Rate	 Demonstrate the power of Service Virtualization and automaton testing using RIT to enable earlier defect detection. Demonstrate the use of Sandhata Swift Plugin for Virtual Service
The Middleware team making a code change to address a technical debt	 Demonstrate the power of regression testing using RIT Enables delivering Technical Change with minimum business involvement and low risk



Demo Scenario 1

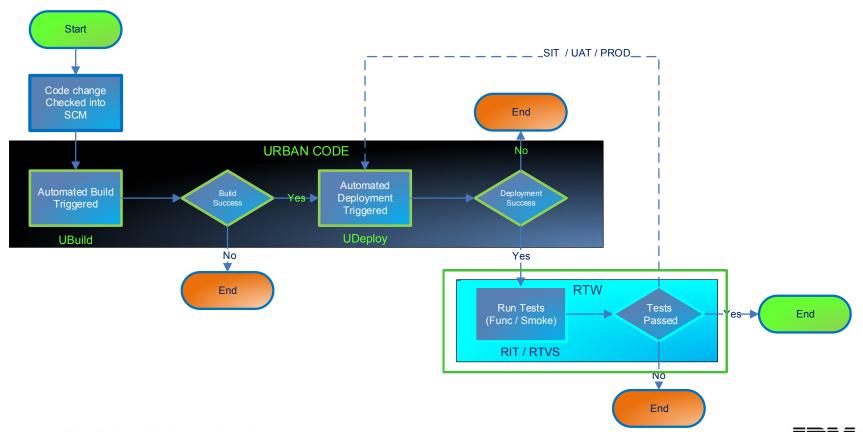
The APAC Business has requested for a Change in to prefix "APAC" in the Regulatory Reporting field

- The developer changes the mapping rules within Global logic to fulfil the business requirement
- Functional test passes, but EMEA mapping rules regressed





Continuous Integration – Work Flow

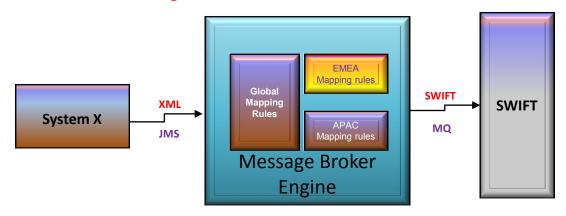


Demo Scenario 2

The EMEA Business has requested for a Change to apply the

Exchange Rate

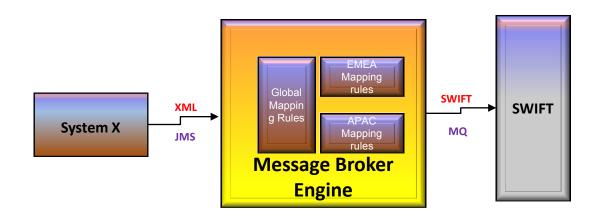
- The developer changes the mapping rules within EMEA specific logic
- Functional and Regression tests passes in DEV buts Fails in SWIFT Validation when Integrated





Demo Scenario 3

- The Middleware team making a code change to address a technical debt
- The developer changes the way the message id is being generated.
- Functional test passes and regression test passes.





Summary

Deliver changes quickly and frequently

From Months to hours

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UAT/pre prod is minimised and even skipped

No Fear for Technical Changes

100% Func cov in 3 hours

To enable was in test to interest (the depending Taken)s

Competitive World

From 50% Func Cov in 3 weeks to

IBM. 👸





Q&A

Thank You

