

Leveraging Continuous Testing to enable Continuous Delivery.

Remove bottlenecks and reduce risks in Delivering Business Value.

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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 to the still the still
- · testing to vacce le rate and guarante est be Quality def all
- . functions of the Software delivery erate all phases of SDLC
- Focused on Business Requirements only
- Weak Regression Testing strategy

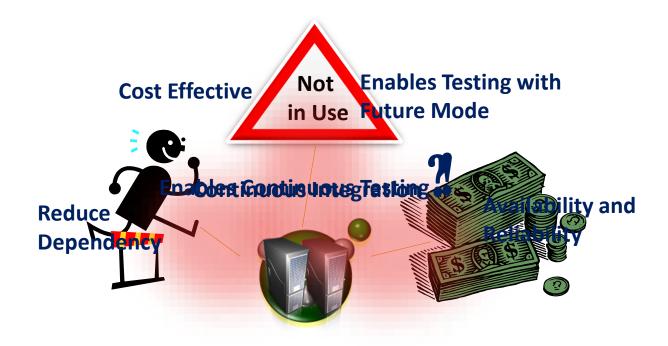
 Test Framework defined is suitable for CI

Automated Testing

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

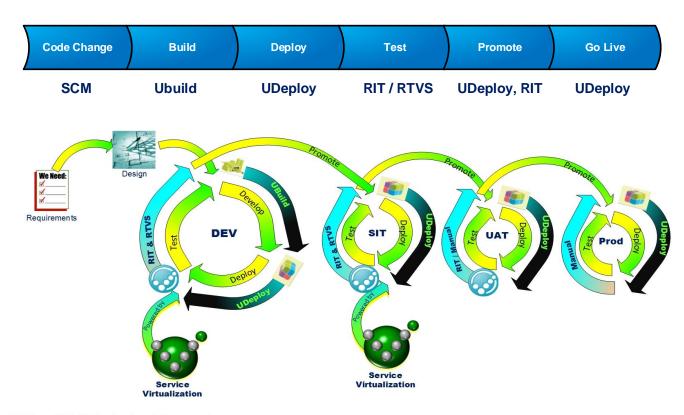


External / Legacy Systems Dependencies





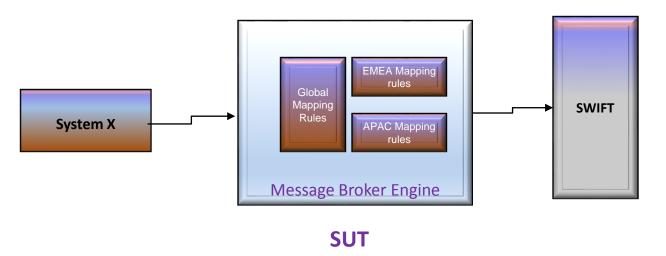
Continuous Integration





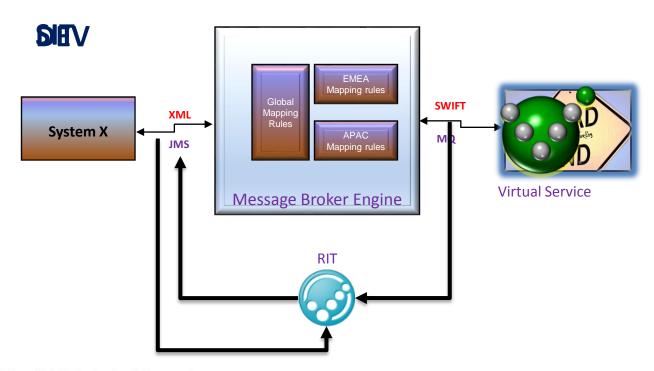
Introducing the Use Case

High Level System Design



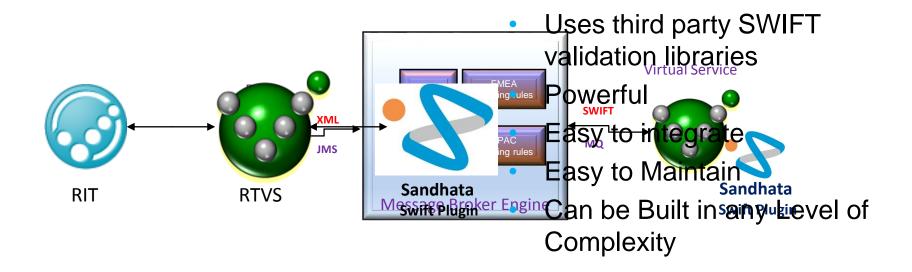


Testing Landscape





Sandhata SWIFT Plugin





Introduce the demo scenarios

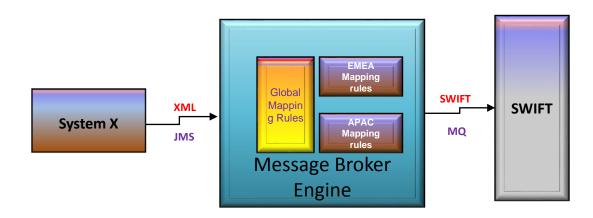
Scenario	Objective of the Demo
The APAC Business has requested a Change to prefix "APAC" in the Regulatory Reporting field	 Demonstrate automated build and deployment Demonstrate the power of automated testing at Component Level before Integration
	 Demonstrate the power of Service Virtualization and automation testing using RIT to enable earlier defect detection. Demonstrate the use of Sandhata SWIFT Plugin for Virtual Services
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

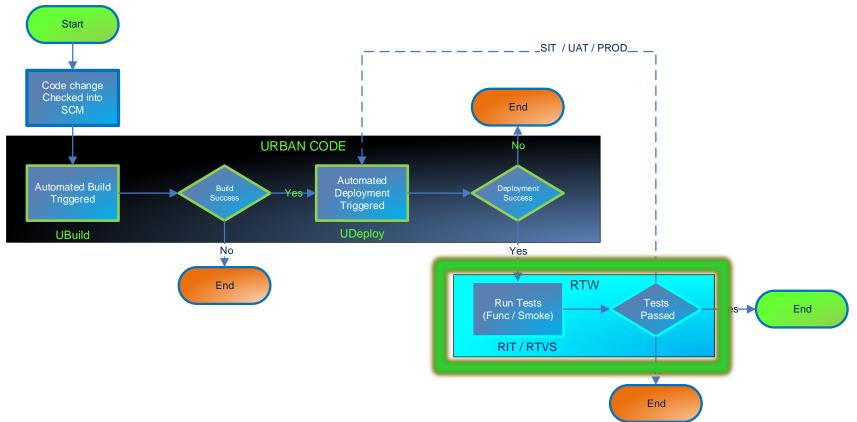
The APAC Business has requested for a Change to prefix "APAC" in the Regulatory Reporting field

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





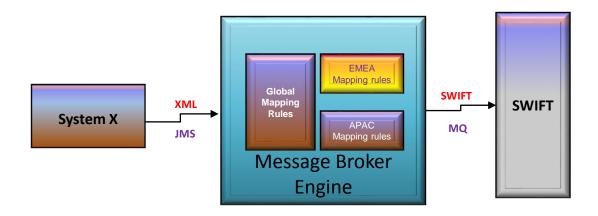
Continuous Integration – Work Flow



Demo Scenario 2

The EMEA Business has requested 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

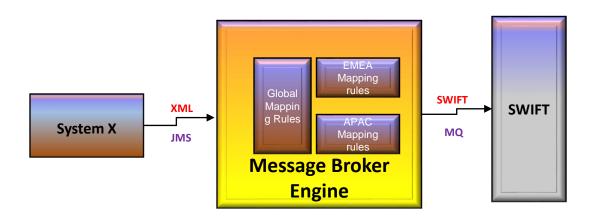




Demo Scenario 3

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

Reduce incidents and Defect cost reduces over time Peliver High Volume of Changes at Low Cost with Quality

UAT/pre prod is minimised and even skipped enable Business to meet the Demand

Competitive World

Increase in Test Efficiency (Coverage / Time Taken)

From 50% Func Cov in 3 weeks to 100% Func cov in 3 hours







Q&A

Thank You

