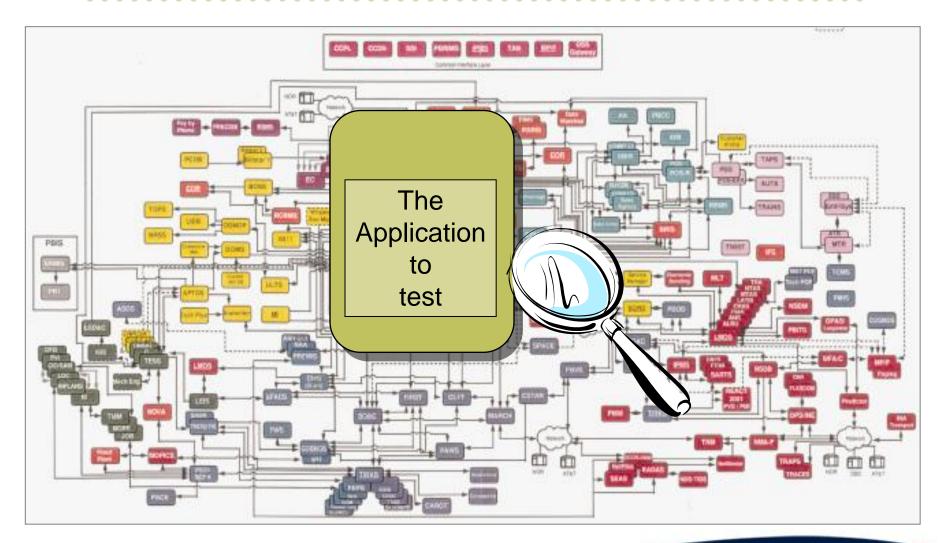


Application Virtualization testing complex distributed application architectures - A Business Case

Systemation - Edwin van Asch

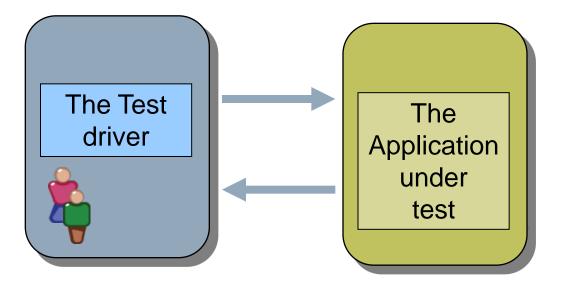
Twitter: @Systemation Email: Edwin.van.Asch@systemation.nl

How to test an application



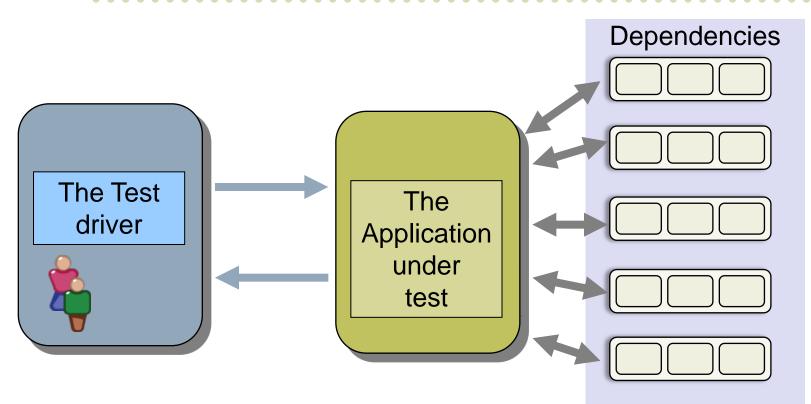


Testing requires isolation of the application





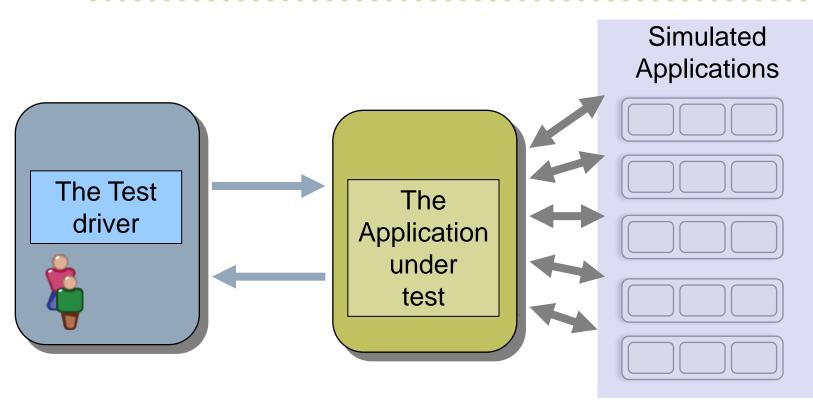
But what about the dependent Applications ?



- Need hardware/software/licenses/setup
- Not available 24/7 because of other projects
- Some applications are not developed yet
- Are not stable, other testers can influence tests



Solution: Isolate Applications using Simulation



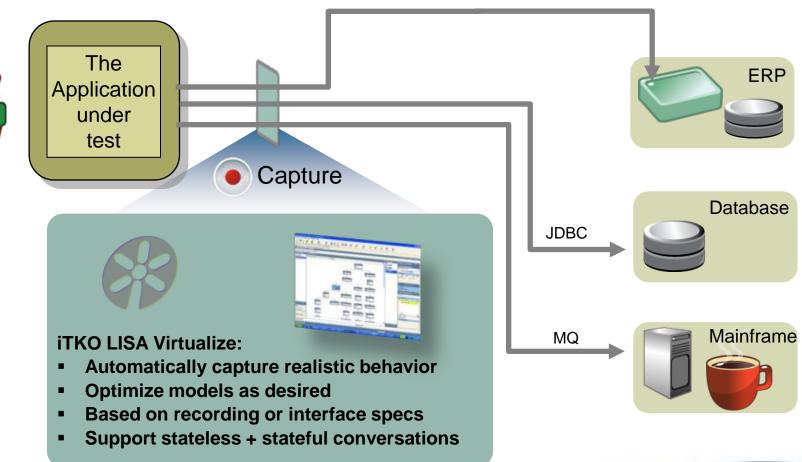
- Simulate the behavior of applications based on interfaces
- Available 24/7 for your project
- Simulate applications that need to be developed
- Are stable, no one can influence your test



How to create Simulated applications

SOAP

Simulate the behavior of applications on interface level





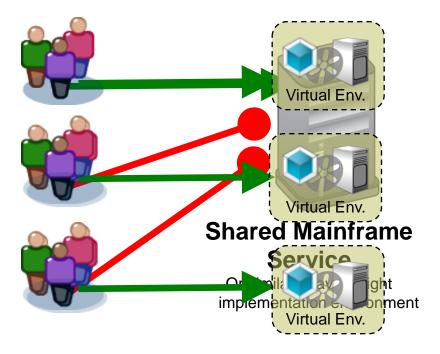
Real Applications – versus - Virtual applications

Comparing real applications with Simulated or Virtual applications on the following aspects:

- Availability
- Test Completeness
- Behavior
- Test Data Management
- Cost



Availability: Real versus Virtualized

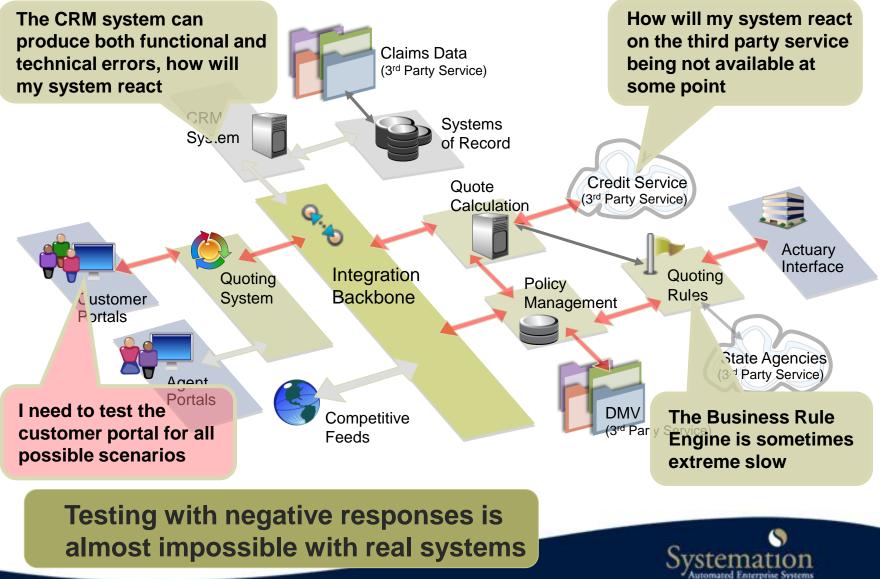


- 3 projects depend on a central mainframe in a test
- Multiple versions of this hardware is to expensive
- The test environment is only available 1 week a month for my project

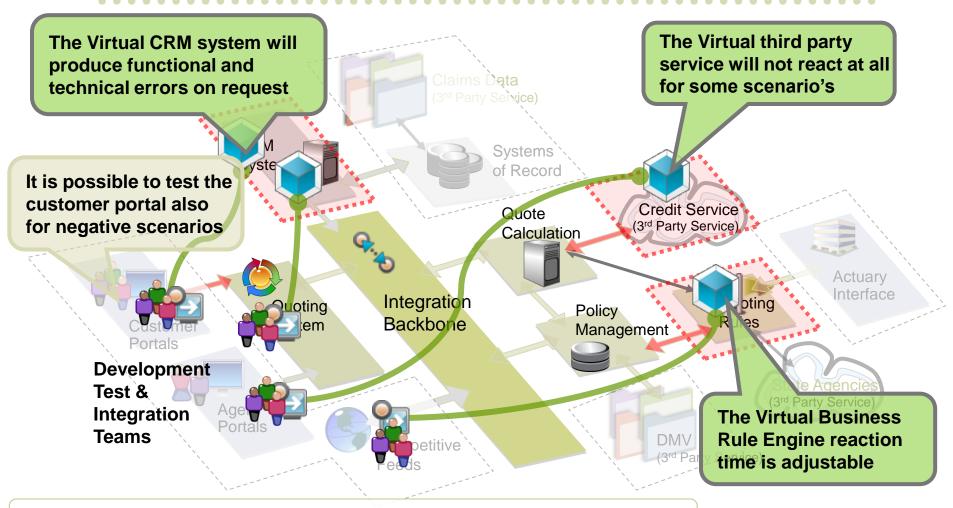
Projects use timesharing while testing nment availability



Test Completeness: Real versus Virtualized



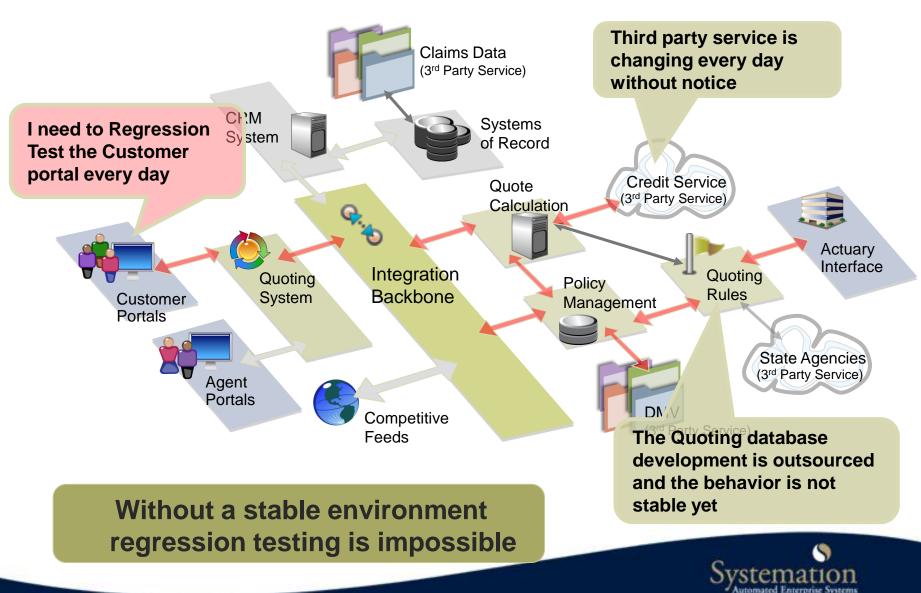
Test Completeness: Real versus Virtualized



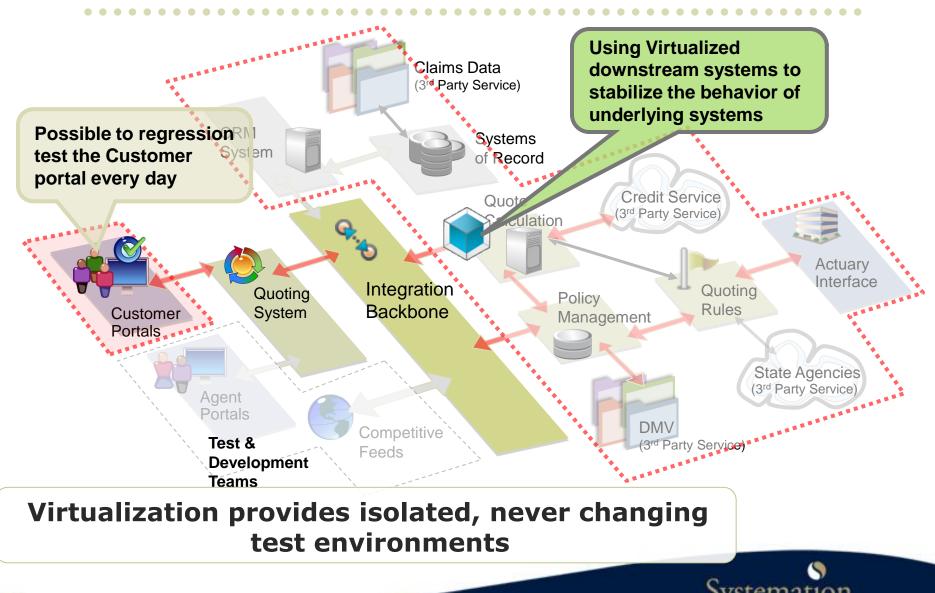
Virtualization makes negative tests possible



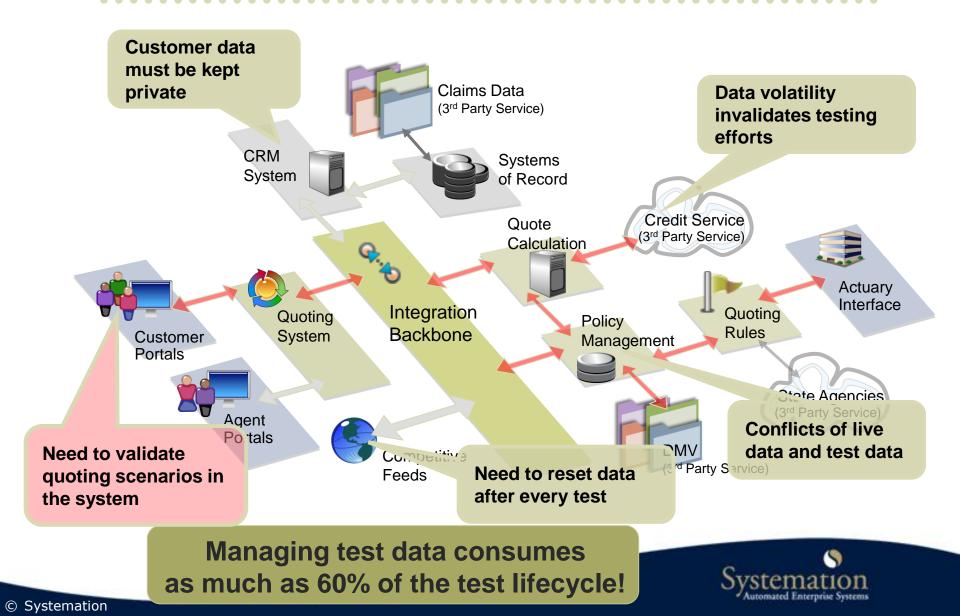
Behavior: Real versus Virtualized



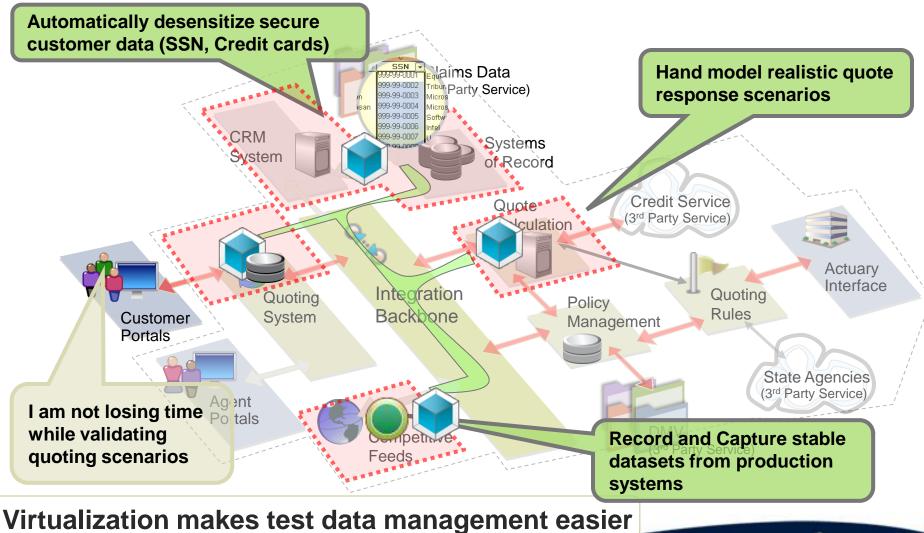
Behavior: Real versus Virtualized



Test Data Management: Real versus Virtualized

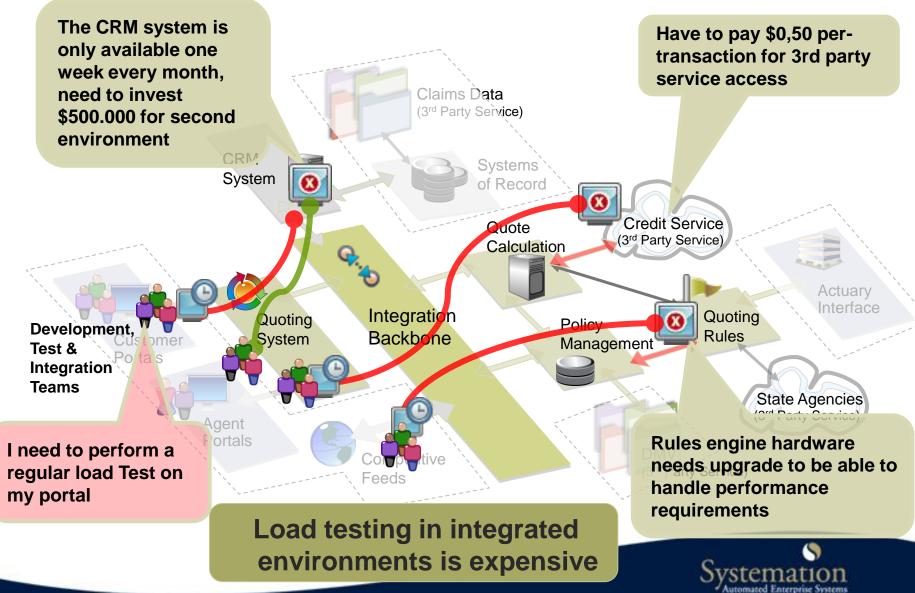


Test Data Management: Real versus Virtualized

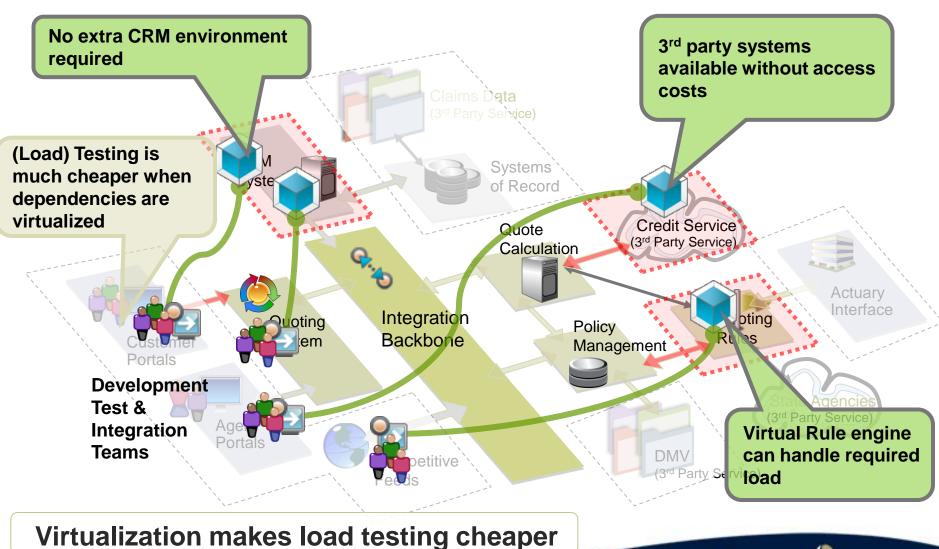




Cost: Real versus Virtualized



Cost: Real versus Virtualized





Recap: Real versus Virtualized/Simulated

- Availability
 - Virtual test environments are available 24/7
- Test Completeness
 - Both positive and negative testing are possible
- Behavior
 - Virtualization offers stable and isolated test environments
- Test data management
 - Virtualization simplifies test data management
- Costs

 Saves costs on transaction fees and hardware/software for load tests





Thank you for your attention

Questions ?

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