Insurance EAS Testing Services

Powered by CA Service Virtualization

Virtualized integrations that enable comprehensive testing of insurance Enterprise Applications Systems (EAS)

Thorough, end-to-end testing of large, multi-functional business systems is complicated. These enterprise applications systems (EAS) typically process multiple types of business scenarios, cross multiple data stores, have large and complex rules engines, and integrate with in-house legacy and external support systems. While the business benefits are compelling, testing insurance EAS can be a complex challenge; especially in end-to-end scenarios. Some common problems:

- Repeated infrastructure expenses associated with new testing environments, driven by business demand to get software changes to market

- Testers waiting to test as the specified integrations are built

- Delay of integration testing until acceptance testing stage, overwhelming available testing resources and increasing the cost of correcting code errors

- Timeframes to test are constrained due to limited availability or access to external systems

People matter, results count.

Virtualization Services Solution

For the current generation of enterprise insurance processing systems, too many complex integrations means integration testing gets buried inside the system and "shifted right" to acceptance testing phases. This means less attention is given to some of the riskiest parts of the system: the integration with external applications. This slows what is supposed to be the most predictable phases of the testing lifecycle, uncovering defects and ambiguity that should have been found much earlier.

In the past, this problem was resolved with a technique called *stubbing*. Developers would code simulation or pretend systems that would integrate with the enterprise insurance processing system—a very time-consuming and costly process. Today, proven technologies can make very short work of the stubbing exercise through service virtualization.

CA Service Virtualization

Capgemini has partnered with CA to use the Service Virtualization and Testing (SVT) product for common integrations associated with insurance EAS. These pre-built services give Capgemini professionals a head start on integration development and testing. Common integration stubs do not need to be built. Capgemini's reusable and repeatable service virtualization layer for common insurance processing services offers a unique benefit to insurers: an integrated applications testing platform to accelerate the time it takes to build and test any implementation. The value-added benefits:

- enables integration development and testing to begin nearly immediately;

- allows for integration testing early and often;

- minimizes test data management constraints

- finds high priority bugs earlier in the Software Development Lifecycle (SDLC)

Capgemini Insurance EAS Testing Services can expedite applications testing for integrations that are common across any insurance EAS, including Guidewire, Oracle, and Accenture Duck Creek.
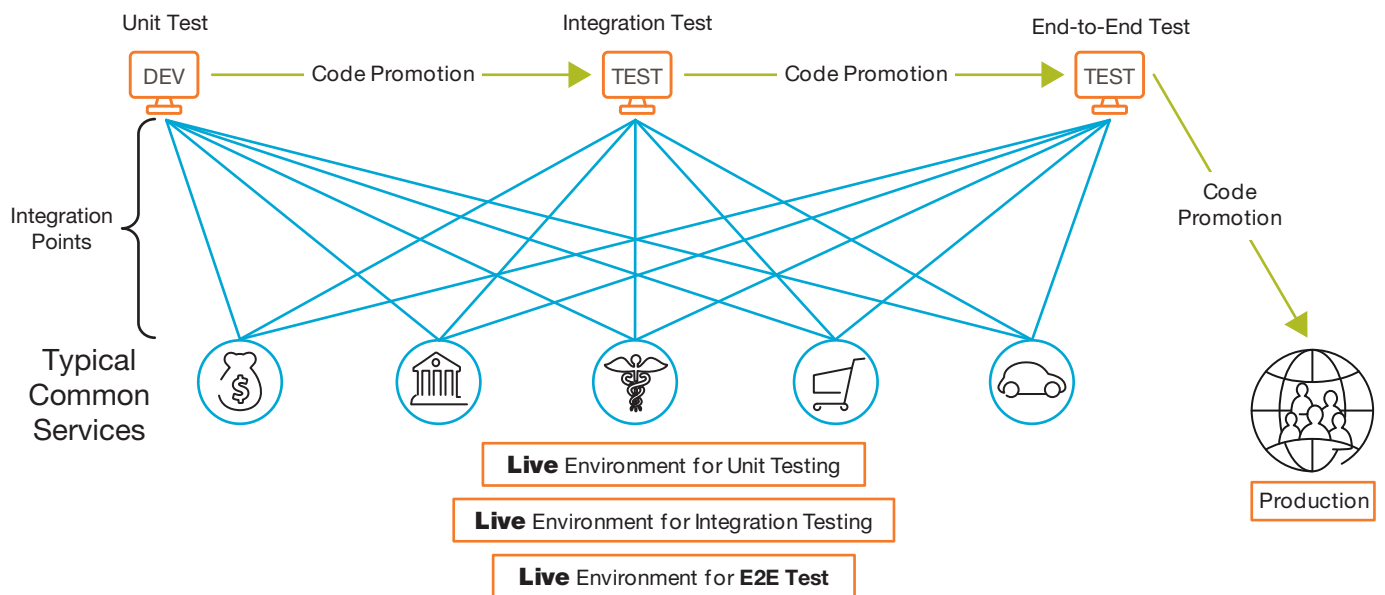
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> *CA . . .has the strongest SVT [Service Virtualization and Testing] product in our evaluation, making it ideal for organizations with a comprehensive SVT enterprise strategy."*
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> **The Forrester Wave™: Service Virtualization and Testing Solutions,** Q1 2014 (January 27, 2014), Forrester Research, Inc.
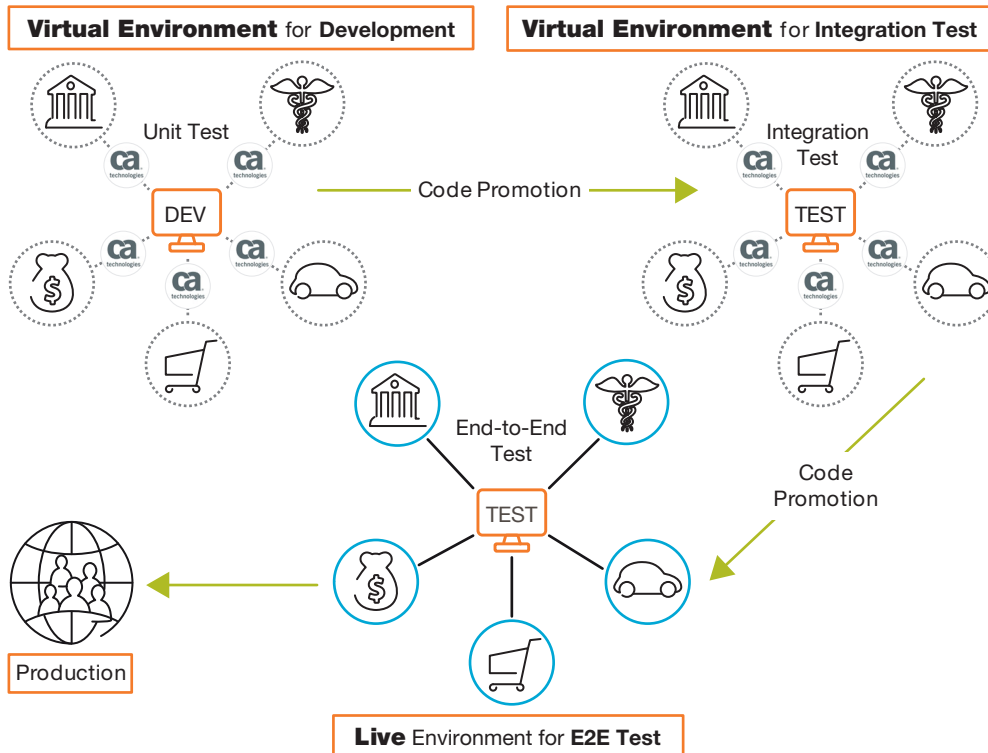
Service Virtualization Testing: Before and After

BEFORE

One Live Environment creates contention and dependency on system availability and resources. This creates strain on the testing schedule, putting delivery at risk. Often times, **the early stages of testing are simply skipped** due to the environment dependencies. Which forces the Functional End-to-End Testing effort to find lower level integration defects.

Unit Test

DEV → Code Promotion → TEST → Code Promotion → TEST

Integration Test

End-to-End Test

Integration Points

Typical Common Services

Code Promotion

Production

Live Environment for Unit Testing

Live Environment for Integration Testing

Live Environment for **E2E Test**

AFTER

Virtual Environment for **Development**

Virtual Environment for **Integration Test**

Unit Test

DEV → Code Promotion → TEST

Integration Test

End-to-End Test

TEST

Code Promotion

Production

Live Environment for **E2E Test**

Through the use of virtual environments, testing can be specialized to accomplish specific goals, such as integration testing. This removes the risk of needing to accomplish integration test along with End-to-End (E2E) Functionality testing.

This allows for concurrent testing, increasing team productivity.

By doing specialized testing when it is supposed to be done in the lifecycle, systems create more predictability and reliability when doing the End-to-End testing using the actual integration with the external common service.

About Capgemini

With almost 140,000 people in over 40 countries, Capgemini is one of the world's foremost providers of consulting, technology and outsourcing services. The Group reported 2013 global revenues of EUR 10.1 billion.

Together with its clients, Capgemini creates and delivers business and technology solutions that fit their needs and drive the results they want. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

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