HP SOA Quality Management Introduction to SOAQM solutions

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Introduction

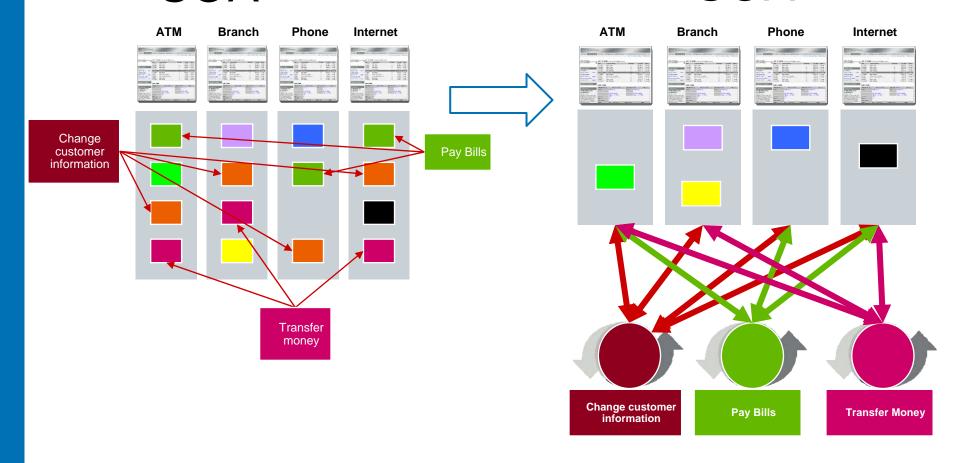
SOA quality

HP for SOA quality



SOA Transformation SOA

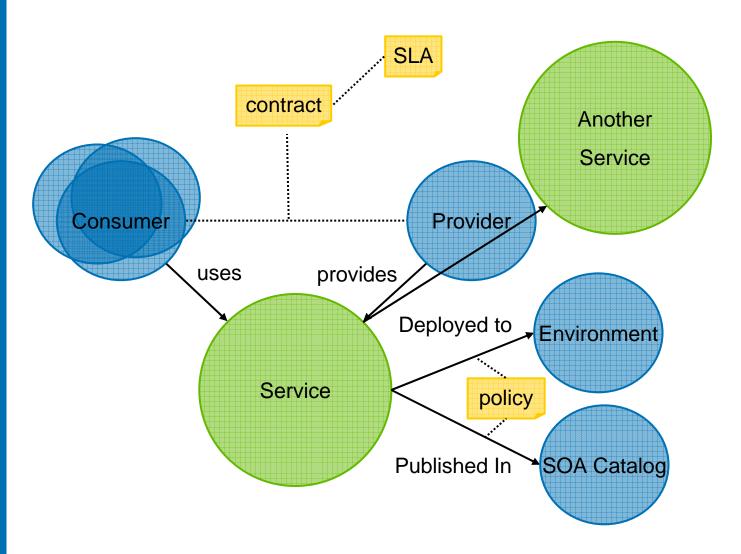
SOA





Service Orientation and SOA

(lots of moving parts)





Introduction

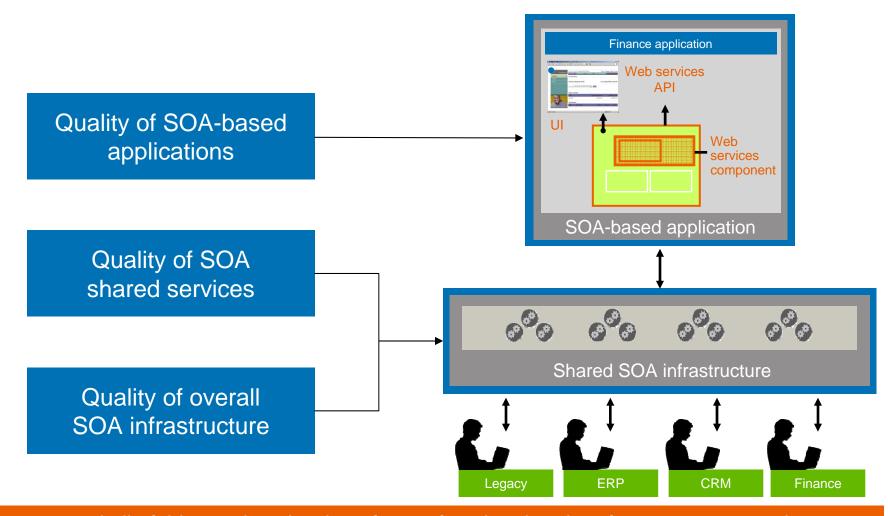
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What is SOA quality?

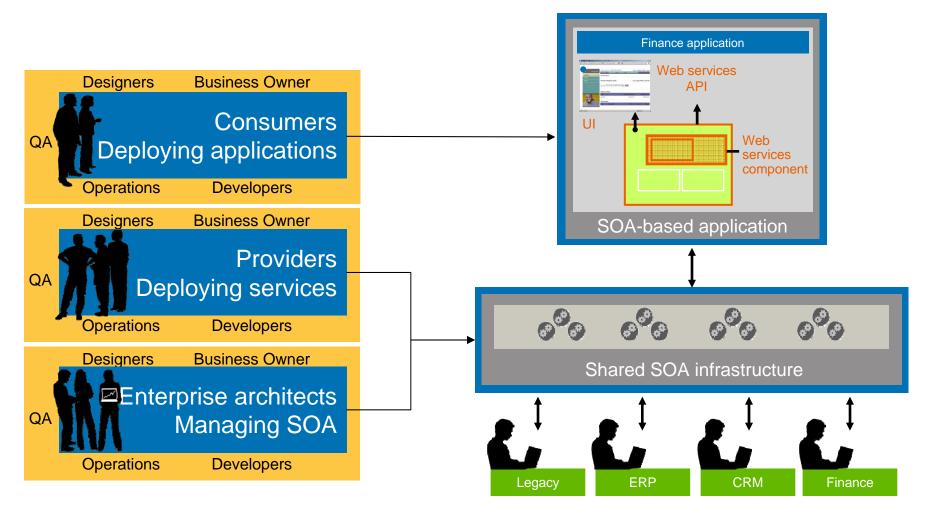
Quality must be addressed across multiple dimensions



...and all of this needs to be done from a functional and performance perspective

SOA quality challenge #1:

Collaboration among multiple stakeholders



SOA quality challenge #2:

Exponential complexity (technical and testing)

What will happen when 10 services changes are introduced? X 10 web operations test permutations? X 10 test data points 1,000 test permutations





SOA quality challenge #3:

Business-aligned quality management

Business objectives

- Risk based resource alignment
- Quality efforts need to be related to overall business needs
- Need to ensure health of service enabled business processes
- Need to ensure no business disruption for legacy applications



Quality management

- Comprehensive test strategies
- Organizational relationships and collaboration
- Visibility to Quality throughout the lifecycle
- Visibility to Quality across domains
- Change Impact Testing



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Fostering collaboration

- Single view into quality across stakeholders and organizations
 - Quality metadata and artifacts readily available
 - Visibility into SOA for QA teams
- Shared testing and quality infrastructure across services, applications and SOA infrastructure

Managing complexity

- SOA quality management throughout application lifecycle
- Management of massive numbers of services and data
- Change & impact analysis

Ensuring business alignment

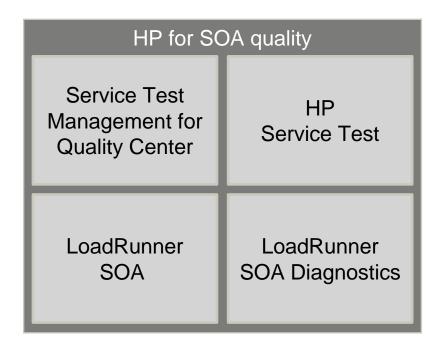
- Capture, validate and manage to business objectives
- From design-time to delivery and then run-time
- Application & shared services validation

Minimize time and cost, and gain control of application risk

HP's SOA Quality Management Establish the Systinet SOA Governance policies FINANCE APPLICATION Web HP Services Test **Quality Center** Integrate The HP **API** with QuickTest Pro The UI **QA** Team Service Test Web Management HP **Services** LoadRunner Component **LEGACY** C/S **ERP/CRM WEB** Enterprise Services **HP ServiceTest** Test SOA Components. **SOA Abstraction Layer HP LoadRunner HP ServiceTest** RMI API Legacy API Web Web API Services Services Custom Mainframe **HP LoadRunner** EIS Third Party Logic App

HP Software's SOA Quality Portfolio

- Service Test Management
 - Service Oriented Quality Management
 - Specialize Quality Center for SOA
- Service Test
 - Ensure working services, business processes
 - Ensure a quality SOA environment
- LoadRunner SOA Capabilities
 - Ensure SLAs, scalability, reliability
 - Performance testing of services & infrastructure
 - Web 2.0 performance testing
- SOA Diagnostics
 - Reduce the mean time to issue identification
 - Service layer diagnostics
 - Implementation layer diagnostics
- QuickTest Professional
 - Web 2.0 Application validation
 - Legacy systems validation

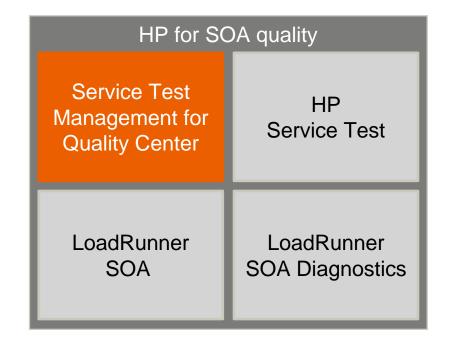




Service Test Management for Quality Center

Quality management for SOA and service testing

- Add-on to HP Quality Center
- Maintain business alignment
 - What to test
 - What is changing
 - Communicate status
 - Mitigate risk
 - Provide visibility
 - Manage complexity
- Manage application change lifecycle
- Integration with SOA ecosystem

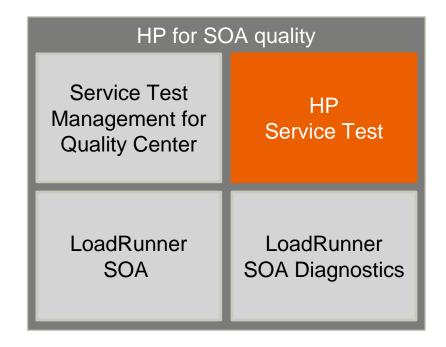




HP Service Test

Functional testing and performance scripting

- Automated functional and regression testing via WSDL introspection
- Integration with Quality Center
- Multiple testing aspects in a single tool:
 - Functional (positive & negative/boundary)
 - Load & performance
 - Interoperability, standards compliance, security

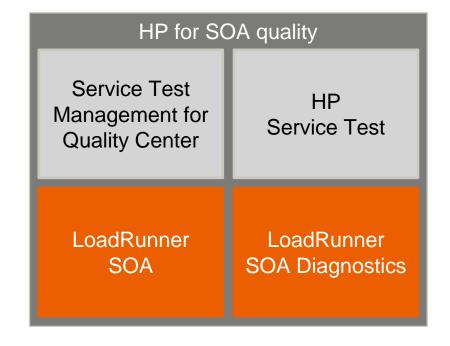




HP LoadRunner through Performance Center

SOA performance validation

- LoadRunner SOA: Performance assurance of individual services and full composite apps
 - Scaleable load generation
 - Comprehensive protocols for accurate load simulation on shared components
 - Extensive Monitoring
 - Powerful Analytics
- LoadRunner SOA Diagnostics: SOA Application monitoring, problem isolation with tracing, and root cause analysis





BTO enables IT SOA transformation

Across the SOA lifecycle—governance, quality,

management

STRATEGY

SOA Governance

Improve cross-IT collaboration and enterprise control through governance applications and a system of record

APPLICATIONS

SOA Quality

Manage testing complexity while accelerating functional and performance validation

OPERATIONS

SOA Management

Manage SOA services and traditional applications using a single unified management system

Accelerate SOA adoption across integration stacks, IT silos and business units

Global hotel and leisure company

 Reduced operational expenses by an estimated \$15-\$20M annually Global wireless and broadband communications company

 Reduced the cost of the average integration project from \$80,000 to \$3,000

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SOA QM – Things to Keep In Mind

- SOA QM is not equal to service testing
 - Service quality and service testing is a key part, but not enough to ensure a high quality SOA
- SOA QM is different than traditional apps QM
 - Greater needs for collaboration
 - Different technology needs
- SOA QM and traditional apps QM must be related
- SOA QM should be related to SOA Catalog and SOA Governance
- SOA QM solves problems similar to traditional QM
 - Risk management is still the main goal of QM
 - Its not just about more testing, it's about more of the right testing



Q&A

