

ORACLE®

Oracle SOA Suite 11g What's new?

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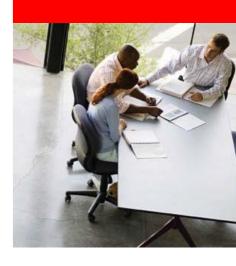


The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

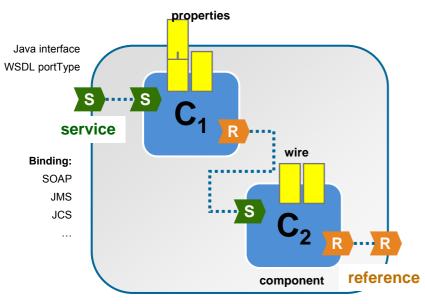
Agenda

- Service Component Architecture (SCA)
- SOA Composite Editor
- Unified Service Platform
- End-to-end Instance Tracking
- Seamless Upgrade Path
- Q&A

Service Component Architecture (SCA): key standards for SOA



What is SCA?



composite

SCA terminology:

- · Composite: deployment unit
- Service: entry-point into composite
- Component: provides logic
- Reference: refers to external services
- **Wire**: connects services, components and references no special semantic.

No vendor-, language-, technology-neutral unifying model for SOA.

How does one:

- Implement services?
- Assemble composite applications?
- Lifecycle management?
- Metadata management?
- Versioning and testing?

Service Component Architecture:

- language-neutral
- component model
- assembly model
- Specifications backed by a growing number of leading industry vendors
- http://www.OSOA.org
- Being standardized at OASIS, the international open standards consortium

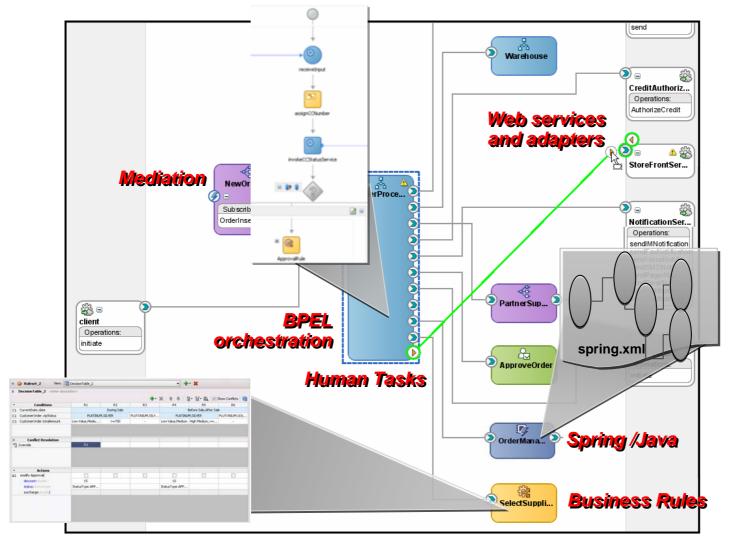
SOA lifecycle can be difficult:

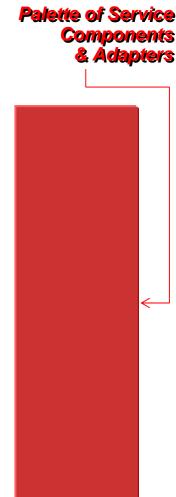
- Many design tools to learn
- Metadata fragmentation
- How do we version a virtual composite application?
- Etc.



SOA Composite Editor

SCA Composite Editor





How do we optimize the performance of distributed applications?

- •avoid unnecessary over the wire (SOAP/HTTP) transmissions
- •avoid marshalling/unmarshalling of messages between engines
- reduce installation and management complexity



Unified Service Platform

Emergence of Service Platforms

Messaging

CORBA

SERVICE PLATFORM

- Integrated for ease-of-use & optimized performances
- Yet, fully standards-compliant
- No sacrifice on hot-pluggability

SCA
BPEL

BPEL

Web Services

WSDL

XSLT

J2EE XML

FAI

11g

0.1.3

10.1.2

Unified Service Platform

Service Assembly, Orchestration composers Repository Human **Business Mediator BPEL IDE** Workflow Rules 11g Service Infrastructure **BAM Policy Manager** Common JCA-based connectivity infrastructure Optimized binding **Oracle Service Bus** B₂B Web-based console

Service virtualization, Shared Service Gateway, Monitoring

SOA

Operations

Application

How can I get complete end-to-end visibility and increase my auditing capabilities in such a distributed environment?

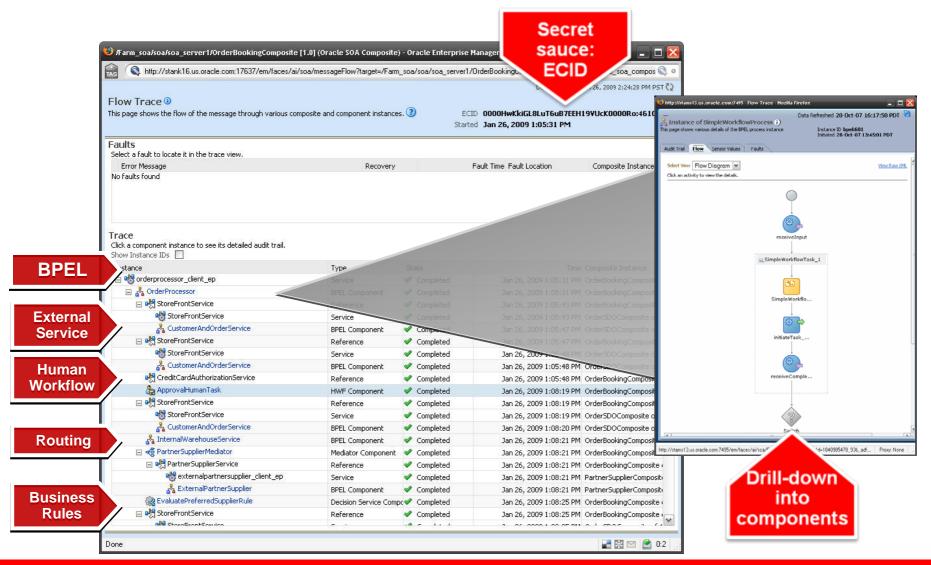


End-to-End Instance Tracking

End-to-End Instance Tracking

- Instance tracking ("where is my order?") across all SOA components:
 - Routing, BPEL PM, Human Workflow, Business Rules, B2B, Spring, etc.
- Within a composite, across composites and even outside of Oracle technologies
- Coupled to unified exception handling framework ("Error hospital"):
 - Search
 - manage
 - resubmit failed instances (including batch)
- Integral part of Enterprise Manager FMW Control

End-to-End Instance Tracking



"Asynchronous Messaging"?!

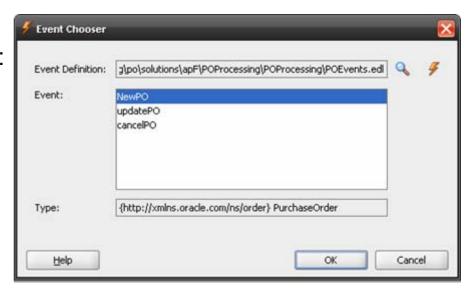
All I care about is business events – how can you make this easier for me?



Event Delivery Network

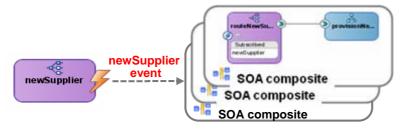
Event Delivery Network (EDN)

- Work with events not messaging infrastructure!
- Declarative way to work with publish-subscribe:
 - 1. Create
 - Discover
 - Consume
- Offers rich subscription capabilities:
 - 1. Events Names
 - 2. Content-based XPath filters
- Integrated Service & Event foundation

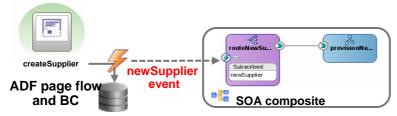


EDN support across the stack

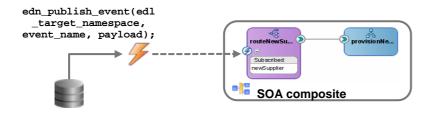
SOA composites can raise events, enabling fan-out patterns



 Update operations (commit, delete, ...) on ADF-BC objects can trigger events to initiate SOA composites



PL/SQL programs can raise events



How can we make sense of the evergrowing number of events, and extract useful information from the noise?



Complex Event Processing (CEP)

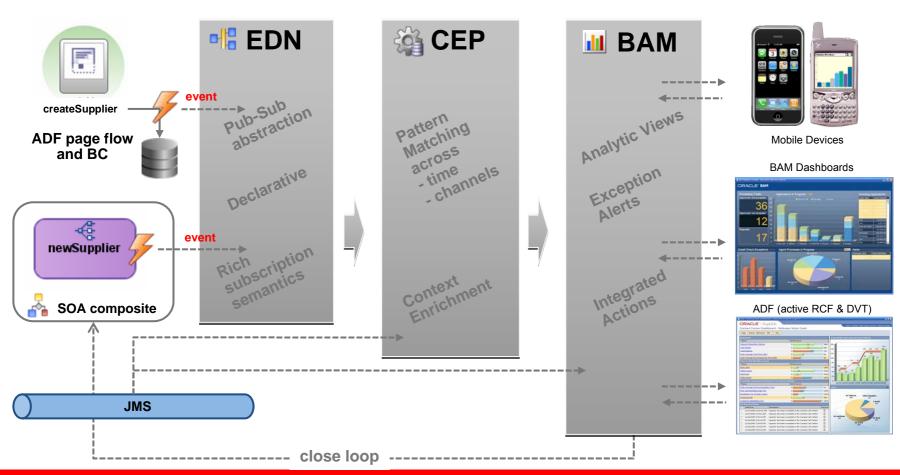
Monitor streams of events, correlates seemingly unrelated events into patterns

Applications in almost every industry vertical:

- risk management,
- fraud detection,
- intrusion detection,
- compliance,
- etc.
- Optimized to handle very large volumes of events
- CQL: Continuous Query Language

Real-Time Process Agility

EDA delivers real-time event processing for monitoring, analyzing, and acting on business process optimization.

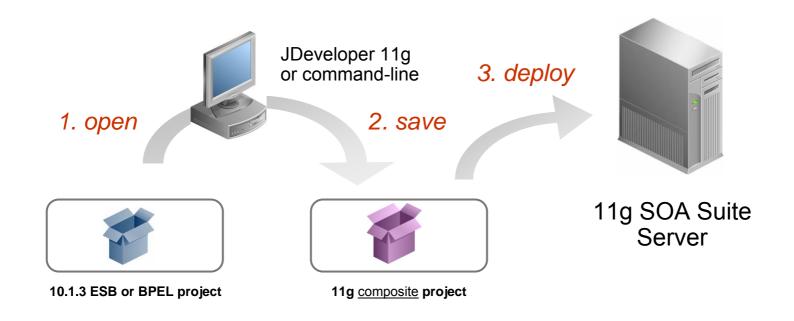


I want to uptake all these new features – but not at the cost of a rewrite!

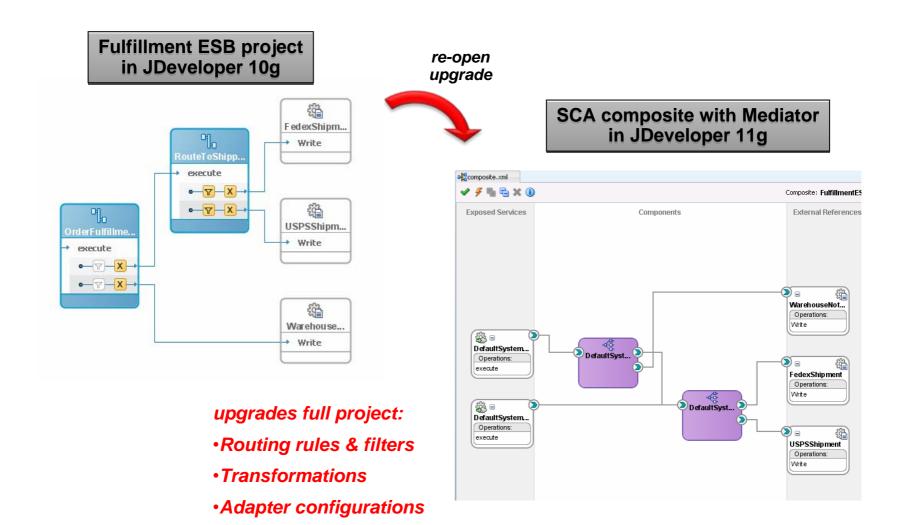


10.1.3 → **11g Upgrade Path**

Automated project upgrade: open your 10g project in JDeveloper 11g and re-deploy!



Upgrade project in JDeveloper





What else is new?

Hundreds of new features based on customers' feedback

"it's not just about the platform"

Oracle SOA Suite 11g: SOA Service Platform

- Leverages SCA to deliver the industry first full Service Platform:
 - Single design-time environment: SOA Composite Editor
 - Single runtime: Unified Service Platform
 - Single monitoring console: End-to-end Instance Tracking
 - Integrated Service & Event Foundation
- Natural evolution from 10g, seamless upgrade path
- Wealth of new features based on customers' feedback

Questions

