Open SOA

SCA & SDO Implementations
Open Source and Vendor Products

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Implementations of SCA and SDO

- Open Source Runtime Implementations
- Vendor Runtime Implementations
- Open Source Tooling Implementations
- Vendor Tooling Implementations

Apache Tuscany Incubator Open Source Project

- Aims to provide SOA runtime based on SCA and SDO
  - currently has “incubator” status within Apache
- Java™ & C++ implementations today
  - Java™ impl runs with Apache Tomcat + Axis
  - aim to support more capable runtimes in future eg. Geronimo
  - C++ works with Apache Axis C++
- Runtimes support additional languages
  - eg Python, Ruby, Groovy, JavaScript
- Binding protocol support
  - Web services, JMS, RMI, JSON
- http://cwiki.apache.org/TUSCANY/

SOA for PHP Open Source project

- PHP implementations of SCA and SDO
  - aim to support SOA development with the PHP language
  - popular language for server-side support of Web applications
  - now potential approach for server-side of AJAX / “Web 2.0” implementations
- Takes place within the PHP community
  - code hosted on PECL
    - http://pecl.php.net/package/sca_sdo
  - freely downloadable
  - separate Website space on www.osoa.org
    - http://www.osoa.org/display/PHP/SOA+PHP+Homepage

Fabric3 Open Source Project

- Open Source project hosted at CodeHaus
  - Java implementation of SCA
  - Federated network of services
  - Apache license

  - http://fabric3.codehaus.org/

Newton Project

- Open source project related to Paremus' Infiniflow product
  - distributed Java runtime framework
  - SCA / OSGi based technology
  - dynamic allocation of components to grid of systems

  - http://www.codecauldron.org/

Eclipse SOA Tools Project

- Aims to provide Eclipse-based tooling for SOA applications and systems
  - based on SCA as model for solutions built using SOA
  - targets a range of systems including SCA runtimes such as Tuscany
  - hosted at Eclipse: http://www.eclipse.org/stp

Oracle Fusion

- Oracle Fusion middleware
  - infrastructure for Grid computing, SOA and Event-driven architecture
  - announced recently at JavaOne conference
  - service infrastructure based on SCA

  - http://www.oracle.com/corporate/press/2007_may/OFM-nextgen-arch.html

IBM WebSphere

- IBM WebSphere Application Server V6.1
  - IBM's base application server
  - "Feature Pack for SOA"
  - provides implementations of SCA and SDO
  - currently in Beta
  - will release support of V1.0 of SCA and V2.1 of SDO
  - related function in WebSphere Process Server, WebSphere ESB

  - https://www14.software.ibm.com/iwm/web/cc/earlyprograms/websphere/soawas61/

TIBCO ActiveMatrix

- ActiveMatrix Service Grid from TIBCO
  - Java based SOA runtime
  - Implements SCA and JBI specifications
  - extensible by users
  - policy management, service deployment, and service management can be configured at runtime by administrators

  - http://www.tibco.com/company/news/releases/2006/press765.jsp

RogueWave HydraSCA

- RogueWave HydraSCA
  - High-performance SOA application infrastructure
  - based on SCA
  - parallel grid execution environment

  - http://www.roguewave.com/hydra/hydrasca.cfm

Paremus Infiniflow

- Infiniflow Distributed Services framework from Paremus
  - SCA / OSGi POJO & Spring based infrastructure
  - Grid environment
  - scalable, parallel execution with load balancing

  - http://www.paremus.com/product/product.html

Covansys SCA Framework for SOA

- SCA Framework for SOA
  - SOA framework using SCA
  - rapid SOA application development & deployment
  - http://www.covansys.com/what/SCAFrameworkforSOA.htm

XCalia XIC

- XCalia Intermediation Core (XIC)
  - provides SDO support
  - innovative dynamic business process orchestration and metadata technology
  - layered technology sits between business services and data layers in an enterprise application
  - http://www.xcalia.com/products/core.jsp

BEA AquaLogic Data Services Platform 2.0

- AquaLogic Data Services Platform 2.0
  - modify, create, and delete data from heterogeneous, distributed data sources as if it were a single entity
  - http://e-docs.bea.com/liquiddata/docs85/appdev/sdoupdate.html

RogueWave HydraSDO

- HydraSDO from RogueWave
  - lightweight, high performance implementation of SDO
  - multi-language: Java, C++
  - relational database & XML data formats supported

  - http://www.roguewave.com/products/hydrasdo/

SAP NetWeaver Application Server

- NetWeaver Application Server, Java EE 5 Edition
  - SDOs provide language bindings for data representation and meta-data access of business data in composite applications
  - https://www.sdn.sap.com/irj/sdn/developerareas/java?rid=/webcontent/uuid/28b1ed0e-0d01-0010-c887-a8fdecdb9053

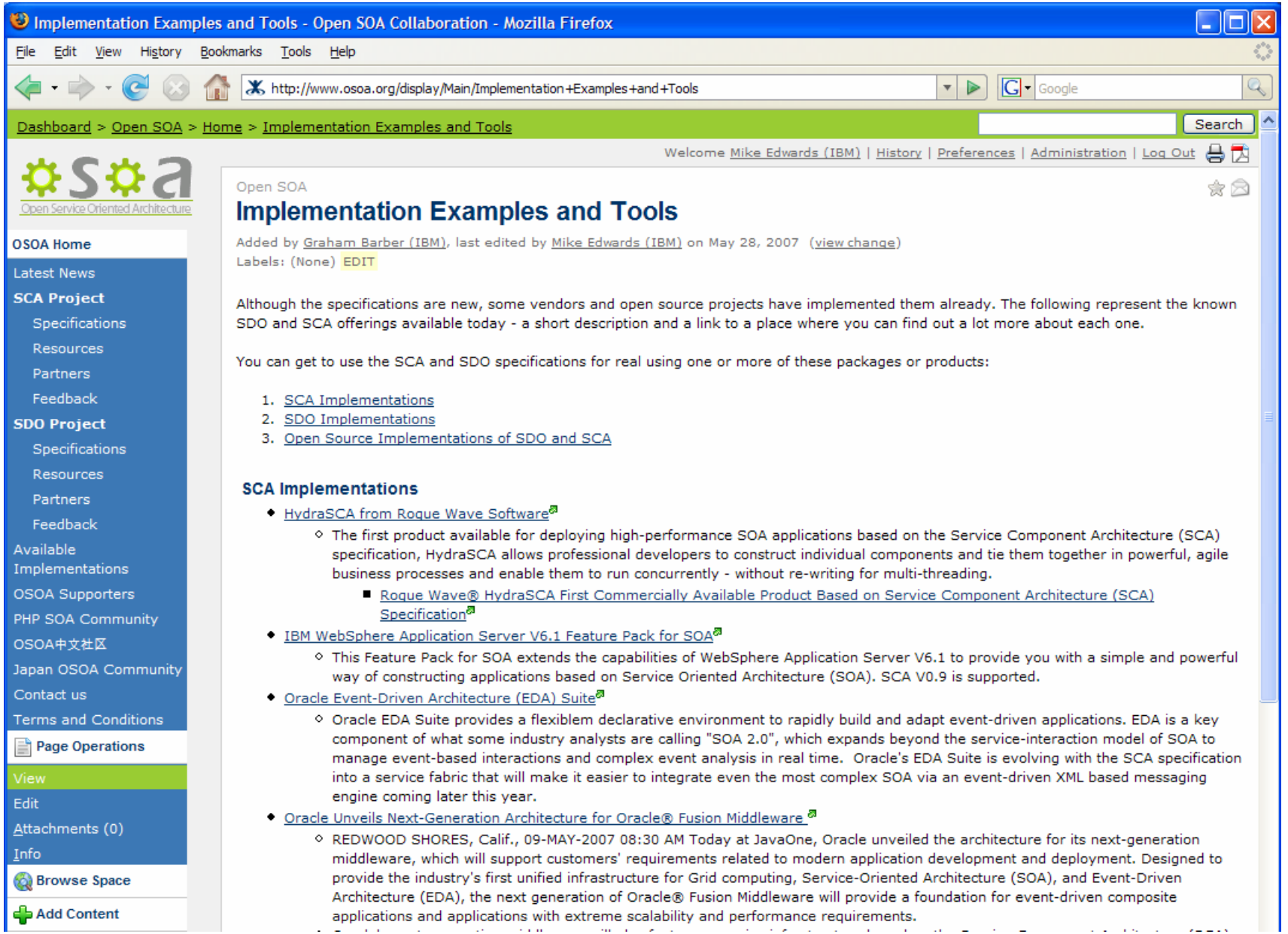
CodeFutures Software: FireStorm/SDO

- FireStorm/SDO
  - database persistence based on SDO
  - current product is Java based
  - intention to also provide C++ version in future
  - connected and disconnected modes of operation

  - http://www.codefutures.com/firestormsdo/

Summary

- SCA and SDO are the basis for a variety of SOA-related runtimes and tools
- Open Source and Commercial offerings are making SCA and SDO practical technologies for solving business problems
- See:
  - http://www.osoa.org/display/Main/Implementation+Examples+and+Tools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PHP SOA Community
OSOA中文社区
Japan OSOA Community
Contact us
Terms and Conditions
Page Operations
View
Edit
Attachments (0)
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Add Content
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Implementation Examples and Tools
Added by Graham Barber (IBM), last edited by Mike Edwards (IBM) on May 28, 2007 (view change)
Labels: (None) EDIT
Although the specifications are new, some vendors and open source projects have implemented them already. The following represent the known SDO and SCA offerings available today - a short description and a link to a place where you can find out a lot more about each one.
You can get to use the SCA and SDO specifications for real using one or more of these packages or products:
1. SCA Implementations
2. SDO Implementations
3. Open Source Implementations of SDO and SCA
SCA Implementations
HydraSCA from Rogue Wave Software
The first product available for deploying high-performance SOA applications based on the Service Component Architecture (SCA) specification, HydraSCA allows professional developers to construct individual components and tie them together in powerful, agile business processes and enable them to run concurrently - without re-writing for multi-threading.
Rogue Wave® HydraSCA First Commercially Available Product Based on Service Component Architecture (SCA) Specification
IBM WebSphere Application Server V6.1 Feature Pack for SOA
This Feature Pack for SOA extends the capabilities of WebSphere Application Server V6.1 to provide you with a simple and powerful way of constructing applications based on Service Oriented Architecture (SOA). SCA V0.9 is supported.
Oracle Event-Driven Architecture (EDA) Suite
Oracle EDA Suite provides a flexiblem declarative environment to rapidly build and adapt event-driven applications. EDA is a key component of what some industry analysts are calling "SOA 2.0", which expands beyond the service-interaction model of SOA to manage event-based interactions and complex event analysis in real time. Oracle's EDA Suite is evolving with the SCA specification into a service fabric that will make it easier to integrate even the most complex SOA via an event-driven XML based messaging engine coming later this year.
Oracle Unveils Next-Generation Architecture for Oracle® Fusion Middleware
REDWOOD SHORES, Calif., 09-MAY-2007 08:30 AM Today at JavaOne, Oracle unveiled the architecture for its next-generation middleware, which will support customers' requirements related to modern application development and deployment. Designed to provide the industry's first unified infrastructure for Grid computing, Service-Oriented Architecture (SOA), and Event-Driven Architecture (EDA), the next generation of Oracle® Fusion Middleware will provide a foundation for event-driven composite applications and applications with extreme scalability and performance requirements.