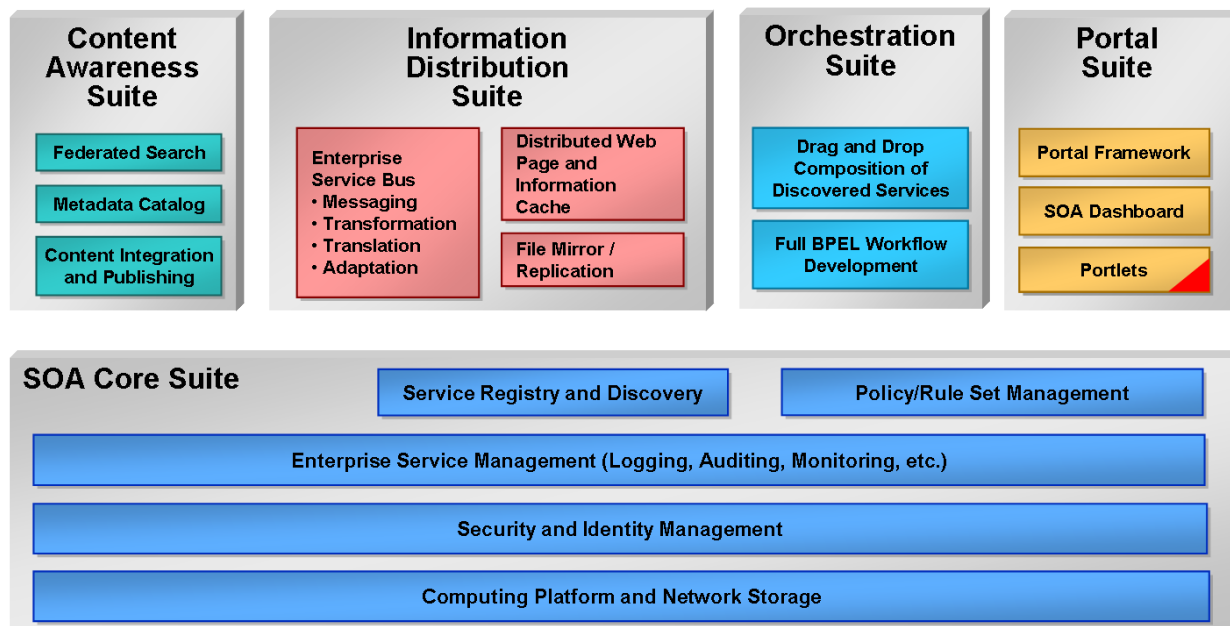



Products

The commoditized (i.e., vendor neutral/independent) public web services (and corresponding JSR-168 portlet) capabilities provided by each Seros Product Suite are summarized below. The list of vendor/open source products that Seros has successfully interfaced with our public web services is also provided.



 Note: Each suite has JSR-168 compliant portlets to support effective operation, some also have Web-Parts based portlets

SOA Core Products:

- **Security and Identity Management:**
 - Public Web Service Capability Summary: Vendor independent service interfaces are provided for supporting: Role-Based Access Control, Attributes-Based Access Control, Single Sign-on, XML Firewall and Security Policies, Certificate Processing, and WS-Security compliance
 - JSR-168 Compliant Portlets:
 - Single Sign-On administration and management
 - Access to Foundation Products via IFrames
 - Vendor/Open Source Foundation Products: Red-Hat LDAP Server, MicroSoft Active Directory, Red-Hat Certification and Authentication Server, IBM DataPower, and Jericho Enterspace
 - Projected Vendor/Open Source Products: Sun Access Manager and Sun Federation Manager
- **Enterprise Service Management:**
 - Public Web Service Capability Summary: Vendor independent service interfaces are provided for supporting: Service Level Agreement (SLA) Provisioning, Service Performance Monitoring

and Reporting, Service Invocation/Error Tracking, JMX-Based Monitoring, and Message-Based Monitoring

- JSR-168 Compliant Portlets:
 - A portlet that provides SLA “At-a-Glance” indicators with one-click drill-down to individual vendor/open source product information along with access to log files
 - A configurable portlet that provides current statistics on a set of monitoring parameters
 - Access to Foundation Products via IFrames
- Vendor/Open Source Foundation Products: AmberPoint and JAMon
- Projected Vendor/Open Source Products: Progress Sonic Actional
- **Service Registry and Discovery:**
 - Public Web Service Capability Summary: Vendor independent service interfaces are provided for supporting: Service Registration, Service Artifact Repository, Service and Artifact Discovery, Service Life Cycle Management, Service Governance, Service Dependency Tracking, and Service Performance History
 - JSR-168 Compliant Portlets:
 - Access to Foundation Products via IFrames
 - Vendor/Open Source Foundation Products: HP Systinet
 - Projected Vendor/Open Source Products: IBM WebSphere Service Registry and Repository and the emerging open source capabilities of freebXML and Mule Galaxy
- **Policy/Rule Set Management:**
 - Vendor/Open Source Foundation Products: JBoss Rules and Jericho Enterspace
- **Computing Platform and Network Storage:**
 - Vendor/Open Source Products:
 - Operating System: Red Hat Linux V4 and V5
 - Servers: Dell, HP, and Sun

Content Awareness Suite

- **Public Web Service Capability Summary: Vendor independent service interfaces are provided for supporting the integration of metadata driven precision search into existing/new business processes through metadata definition, metadata publishing, federated search and content aggregation into one end to end process. These service interfaces provide the capability to perform:**
 - Automated publishing based on the business vocabulary
 - Normalization of common search terms within vocabularies
 - Desktop search metaphors that work within existing tools to exploit the business vocabulary based metadata
 - Recurring search patterns with stylized search results
 - Search result relevancy algorithms that are vocabulary based
 - Transparent implementation of information governance/management policies
- **JSR-168 Compliant Portlets:**
 - Simple and Advanced Search
 - Data Source Administration
 - Content Publishing
 - Business Vocabulary Management
 - Search Dashboard
- Vendor/Open Source Foundation Products: Apache Lucene, Inxight, and Google Search Appliance
- Projected Vendor/Open Source Products: UIMA Framework and MarkLogic

Information Distribution Suite

- **Public Web Service Capability Summary: Vendor independent service interfaces are provided for supporting a variety of information distribution/interoperability capabilities. These service interfaces provide the capability to perform:**

- Highly Reliable Machine-to-Machine Messaging based on WS-Notification
- Data Transformation/Translation
- Protocol Adaptation
- Web-Page/Data Caching
- Database and File Mirroring/Replication
- Cross Enterprise Service Bus Integration
- XML Schema Enforcement
- **JSR-168 Compliant Portlets:**
 - Message Topic/Channel creation to include message hierarchies, message schema formats, and security controls
 - General purpose message InBox
 - Message Topic/Channel subscription
 - Message Receipt Statistics and Verification
 - General Purpose File Transformation
- **Vendor/Open Source Foundation Products: Progress Sonic MQ, Progress Sonic ESB, Apache Active MQ, IBM MQ Series**
- **Projected Vendor/Open Source Products: Mule, Apache ServiceMix, and JBoss ESBs**

Orchestration Suite

- **Public Web Service Capability Summary:** Vendor independent service interfaces are provided for supporting the creation and management of BPEL and non-BPEL based workflows. This includes the concept of recurring operational patterns that represent highly utilized orchestrations used over and over by the user community, but each time they are executed, the orchestration can be modified to instantiate different service and data end-points. These service interfaces provide the capability to define and execute:
 - BPEL Compliant Orchestrations
 - Non-BPEL Orchestrations
 - Recurring Operational Patterns
 - Orchestration Deployment and Management
 - Support for REST and Web Service end-point implementations
 - Linkage to Seros Content Awareness Suite web services
- **JSR-168 Compliant Portlets:**
 - Orchestration Deployment
 - Orchestration Error Management
 - Orchestration Execution
 - Orchestration Parameter Instantiation
 - Access to Foundation Products via IFrames
- **Vendor/Open Source Foundation Products: Active EndPoints and JBoss jBPM**
- **Projected Vendor/Open Source Products: TBD**

Portal Suite

- **Capability Summary:** JSR-168 compliant Portal Frameworks and portlets. The JSR-168 portlets access all of the service interfaces provided by the other Product Suites. Additionally, a comprehensive SOA dashboard for “at a glance” health and status information along with detailed, drill-down capabilities is available.
- **JSR-168 Portlets:** SOA Dashboard along with the individual portlets provided by the other Seros Product Suites
- **Vendor/Open Source Products:** LifeRay, BEA, and Oracle portal frameworks

To learn more about Seros, please visit us on the Web: www.seros.com.

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