IBM SOA

IBM WebSphere Service Registry and Repository (WSRR)

Proven Value to Business Partners

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Product Management
IBM Software
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WSRR provides value to business partners in a number of areas

Central Information access

- WSRR provides service metadata across applications, with management and governance capabilities needed by large SOA implementations.
- Registry/Repository capabilities and integration with IBM SOA Foundation complemented by IBM Business Partners, WSRR can be an essential foundational component of an SOA implementation.

Federation and Integration

- WSRR integration with IBM and Business Partner products provides customers with a more complete service solutions, providing connectivity for multiple registries (IBM, UDDI, SAP, Microsoft, Oracle) and well as ESBs and other SOA products.
- WSRR can be the single central repository for services discovered across other platforms and the single source of registry/repository metadata, serving as a control point for managing the services lifecycle.

Extensible Service Modeling

- Extensible service modelling within WSRR provides ability to create OEM-specific business models and services
- Strong governance supported by a federated ESB/registry environment will facilitate moving to cloud environments

Policy Management

- SOA Governance defines creation and enforcement rules that are instantiated in SOA policies.
- WSRR stores those policies and provides a centralized mechanism for reducing complexity and improving manageability, increasing trust, security and compliance across multiple environments.

Open, pluggable architecture for business partner extensions

Key customer challenges that governance addresses with WSRR

Challenge	Benefit
Rapidly growing, unmanageable collections of services from various sources Unwieldy, inefficient services management solutions which do not scale	Service visibility and governance, achieving the promise of value from SOA implementations
Not enough reuse of services in the organization	Accelerated reuse with Automated Service Discovery across heterogeneous environments
Rising costs	Cost optimization based on service reuse and governing service consumption with service contract management
Difficulties in protecting and maintaining compliance	Consistent policy enforcement to help achieve reliability, compliance and security
Inflexible processes, inhibiting the ability to respond to changing business demands	Improved business flexibility based on service visibility, providing ability to quickly update and improve service-based applications and business processes and take advantage of new business environments, e.g., cloud computing and BPM

Service Visibility and Governance

Key to addressing business needs across industries

Manufacturing

- Company gained control of fast growing services, reducing cost and data redundancy.
- Improved customer satisfaction providing almost current order info down from 4 days to 4 hours.

Insurance

- Drove growth by quickly expanding customer offerings
- Accelerated service reuse with payback in just 9 months & ROI of 721% over 3 years.

Retail

- Rapid deployment of PCI compliance solution saved more than $500,000 in fines
- Flexible solution that accommodates updates with no downtime avoiding loss of millions of dollars

Financial Services

"Service visibility is a really important part of our SOA. We need to be able to see the collection of Web services we have in our toolkit and how these tools can be used."

Senior VP,
Large Multinational Bank

WSRR has proven value to customers and business partners

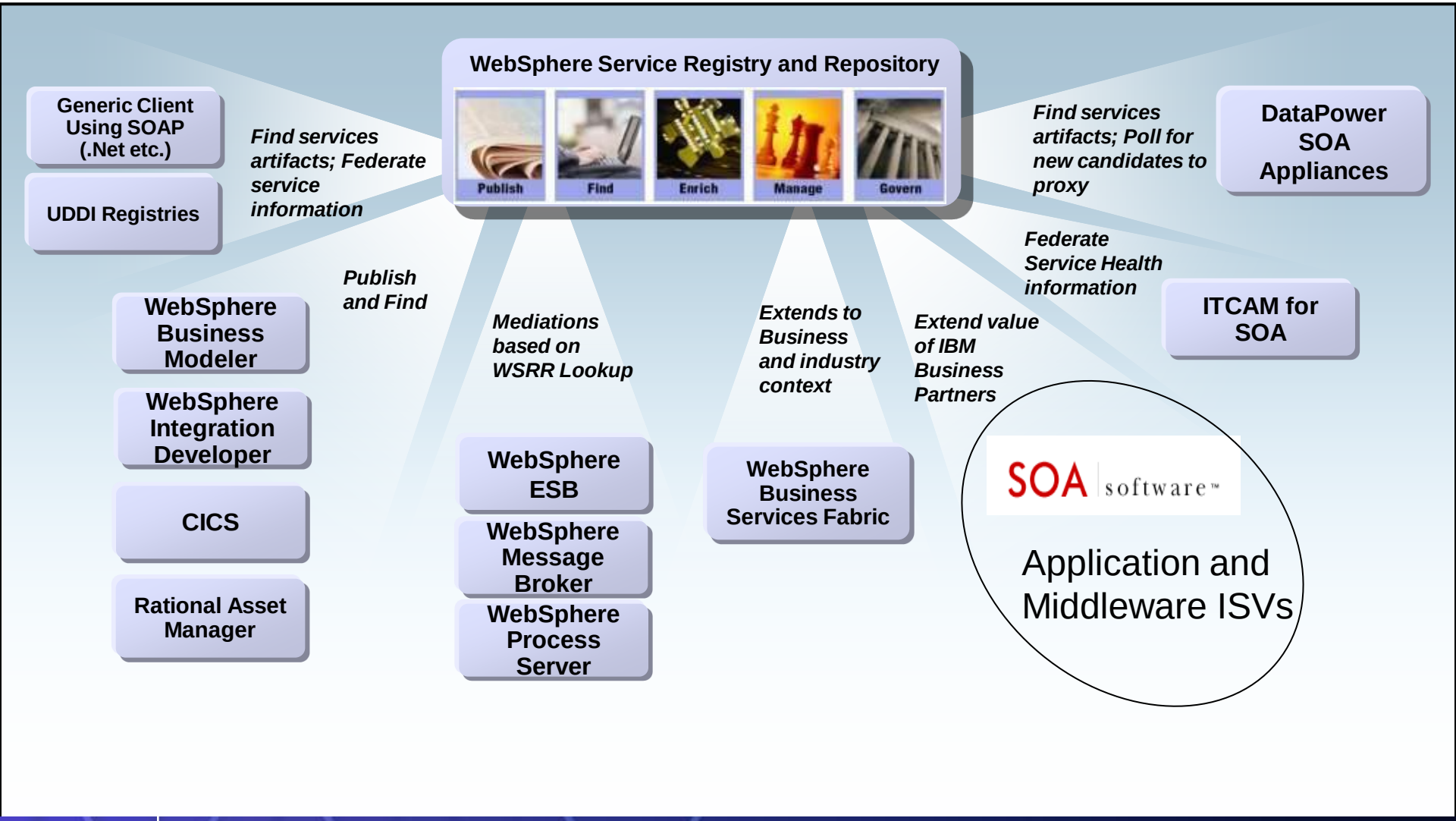
- WSRR deployment on average results in:
  - ✓25% reduction in integration costs
  - ✓40-60% improvement in application maintenance productivity
  - ✓30% increase in software reuse

- On average, the ROI (in WSRR) ranges from 300% to 700% with a payback period of just 9 to 13 months.

Source: Cross-industry averages based on estimates by IBM's Business Value Assessment Team. Actual results may vary by customer and industry.

http://www-01.ibm.com/software/integration/wsrr/nonflash.html

Other products integrate with WSRR to extend support



WSRR provides base for business partner value-add

- Reduce risks by leveraging Prescriptive Service Lifecycle Governance
- Meet changing business needs and service levels with Service Contract and Versioning management
- Automate service lifecycle governance and runtime enforcement with Policies

Business Partner

- Provide additional Customer Value
- Leverage WSRR by provide complimentary capability

WSRR Ecosystem provides Business Partners taking advantage of WSRR today

WebSphere Service Registry and Repository

- Leverage Service metadata foundation technology to provide BP supplied Customer Value
- Enhance and Extend WSRR functionality with BP application value proposition
- Reduce integration costs with readily available integration points

Federate operational and health information

SOA software™

- Ensure that services in WSRR align with plan and priority
- Provide consistent governance by extending WSRR control to non-IBM environments
- Extend WSRR with policy automation for DataPower

IBM has established strong market leadership in SOA that includes WSRR

Strongest Ecosystem
- **7420** SOA community business partners

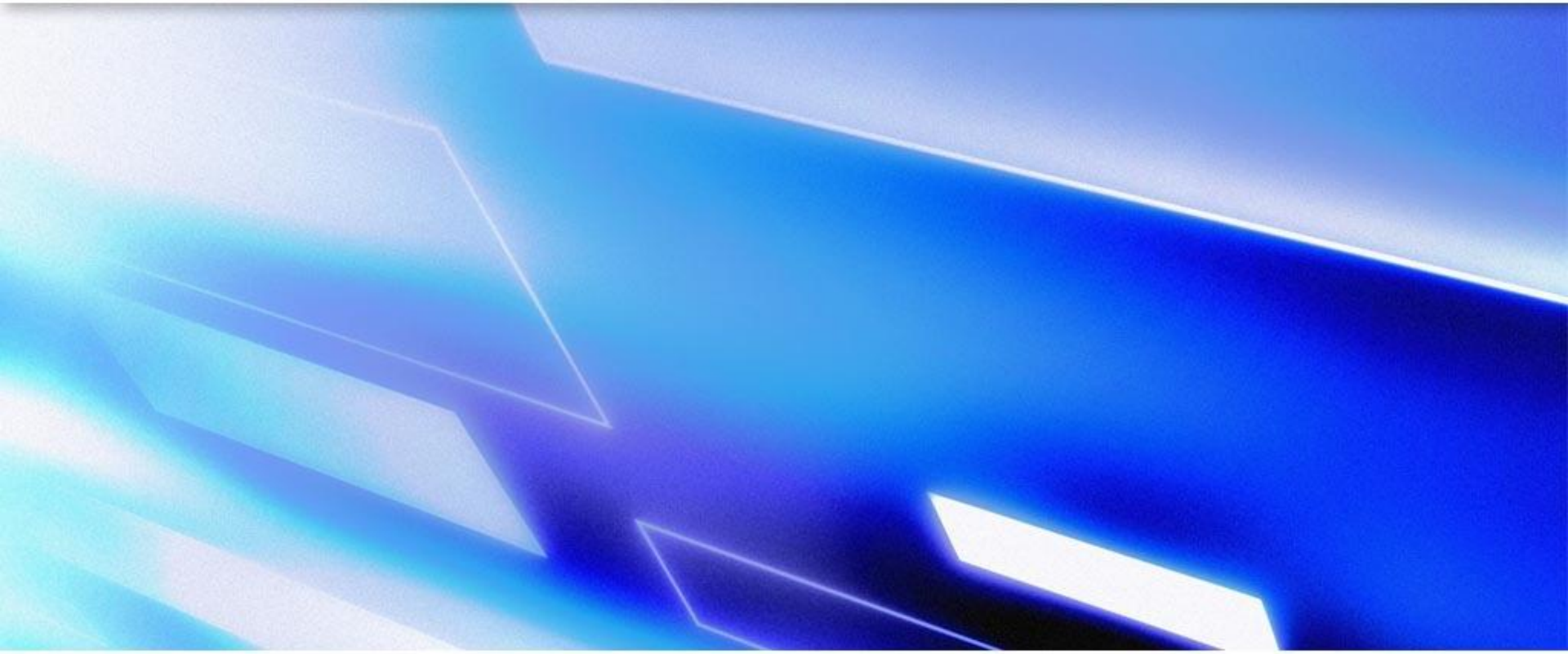
Largest Customer Base with Smartest Outcomes
- **8000 Customers**
- **512** SOA-focused Customer Success Stories; **113** on ibm.com

Unparalleled expertise, and level of investment
- **Trusted** thought leadership and guidance
- **Trained IBM SOA community** over 100K
- **13,000+** assets in the SOA business catalog (90% from business partners)
- **Broadest, Deepest** portfolio of offerings

SOA™ software

Unified SOA and Cloud Services Governance

Plan, Build, Run, Everything as a Service



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SOA Software – Unified SOA and Cloud Services Governance

- SOA Software's products allow enterprises to align people, processes and technology to transform their business with enterprise services
  - Automate Governance
  - Reduce Risk
  - Ease Compliance

- SOA Software's products reduce the cost and risk of enterprise services
  - Planning Governance - Plan the right services
  - Development Governance - Build services the right way
  - Operational Governance - Run services the right way

- To do this SOA Software provides a platform-independent Integrated SOA Governance Automation solution

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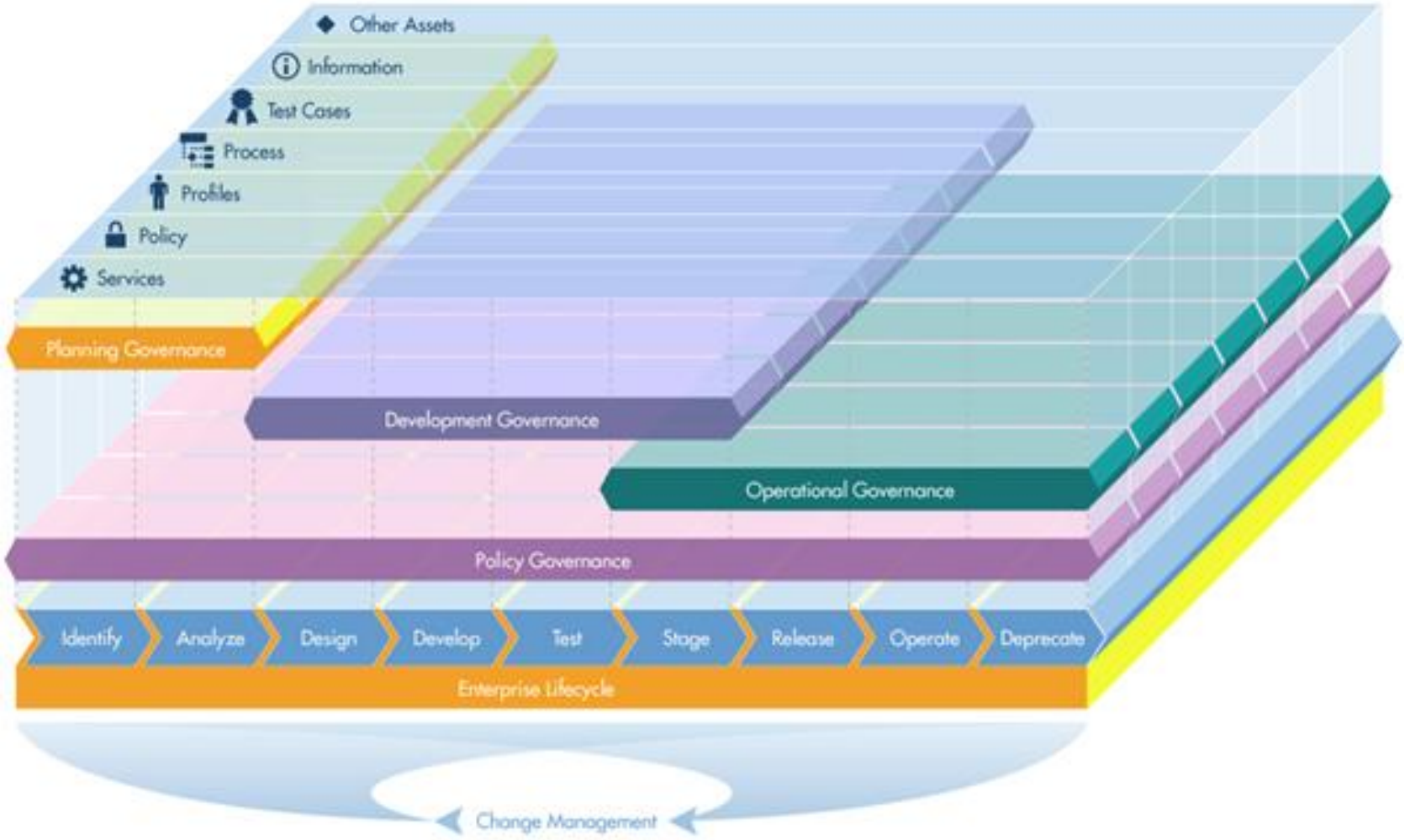
SOA Software – Unified SOA and Cloud Services Governance



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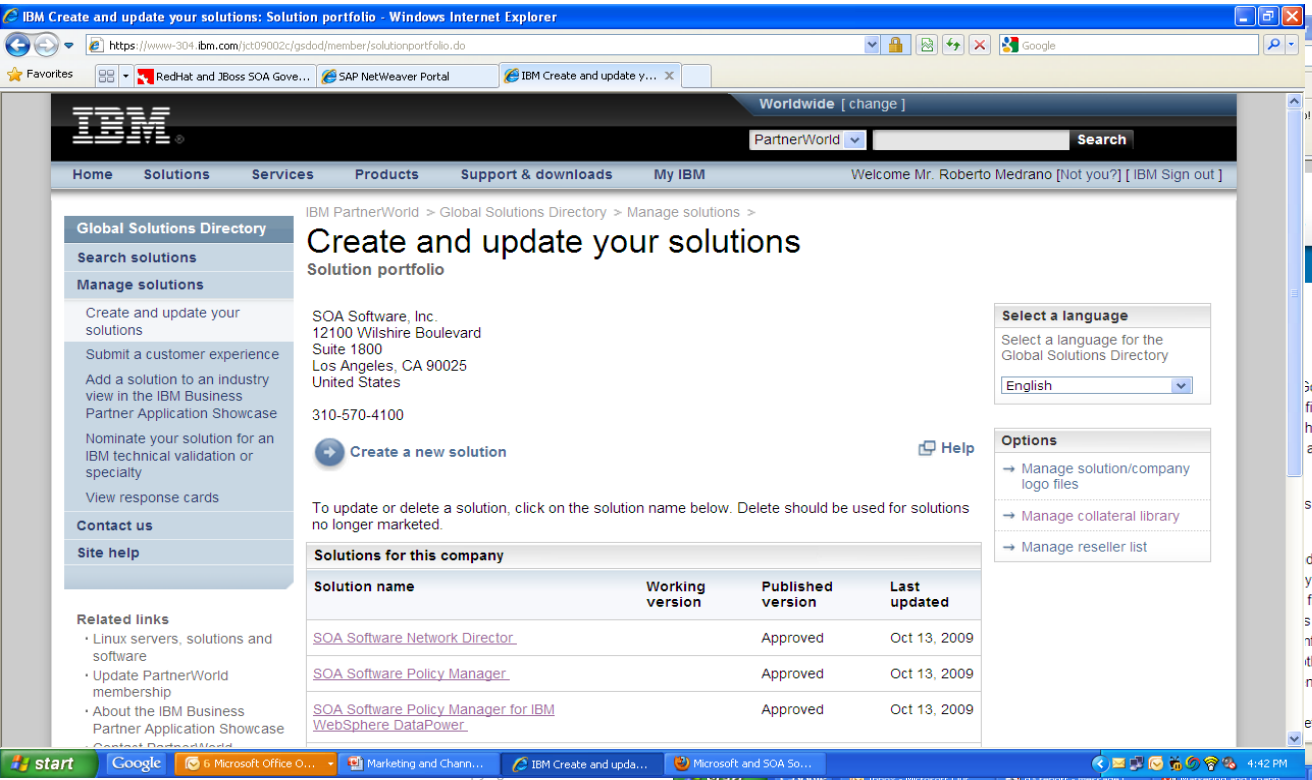
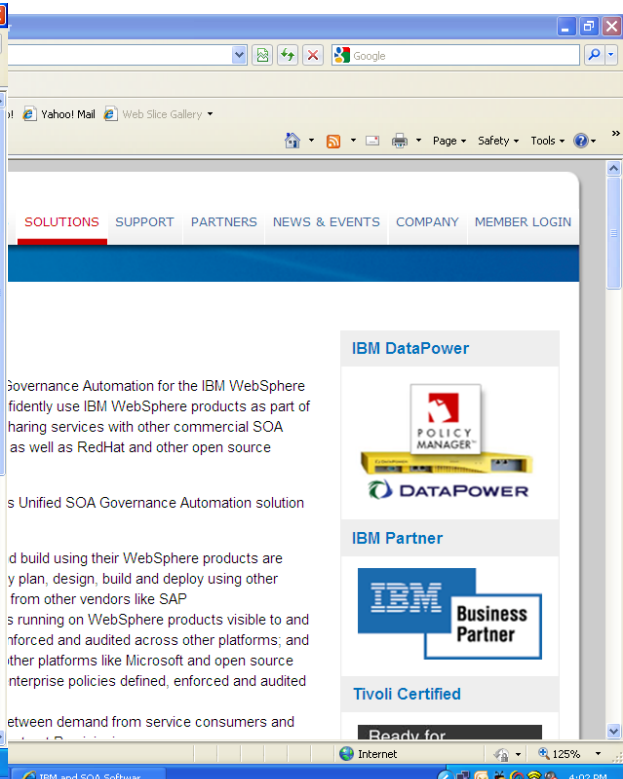
IBM and SOA Software Partnership

- IBM Advanced Partner
- Integrations with WebSphere, Tivoli, Rational, CICS, IMS
- Joint value with IBM WSRR and DataPower
- New Platform page soa.com/ibm
- New updated white papers
- New Updated descriptions in the IBM Partner Program
  - Updated IBM Global solutions Directory (GSD)





IBM and SOA Software Partnership

IBM Product	SOA Software Added Value
WebSphere Message Broker	Dynamic discovery, policy enforcement, implementation, and monitoring
WebSphere Application Server	Policy enforcement, implementation, and monitoring
WebSphere DataPower SOA Appliances	Policy and service lifecycle management Configuration and monitoring integration
WebSphere Service Registry Repository	Heterogeneous Governance Federation
WebSphere Process Server/ESB	Dynamic policy enforcement and monitoring Dynamic policy discovery, implementation, binding, and endpoint resolution
Rational Application Developer	Easy access from the popular IDE to assets and services stored in Repository Manager
Rational ClearCase/ClearQuest	Automated asset assembly to Repository Manager based on SDLC triggers Seamless artifact access to services and other assets stored in this system of record

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Key Capabilities

- Service Lifecycle Management
  - Automate the SOA Business Model e.g. Shared Services or Delegated
  - Ensure existing services are clearly described
  - Manage service visibility across organizational boundaries and service types
  - Version and Change control

- Demand-side provisioning
  - Create a Service Brokerage
  - Consumers specify service and policy definitions to meet their needs
  - Development organization evaluate the merit of consumer submissions and bid to create appropriate services

- Contracts
  - Automate Provisioning, Access Control and SLA Enforcement

- Policy Management
  - Abstract policy from applications – guarantee compliance
  - Create consistency and interoperability

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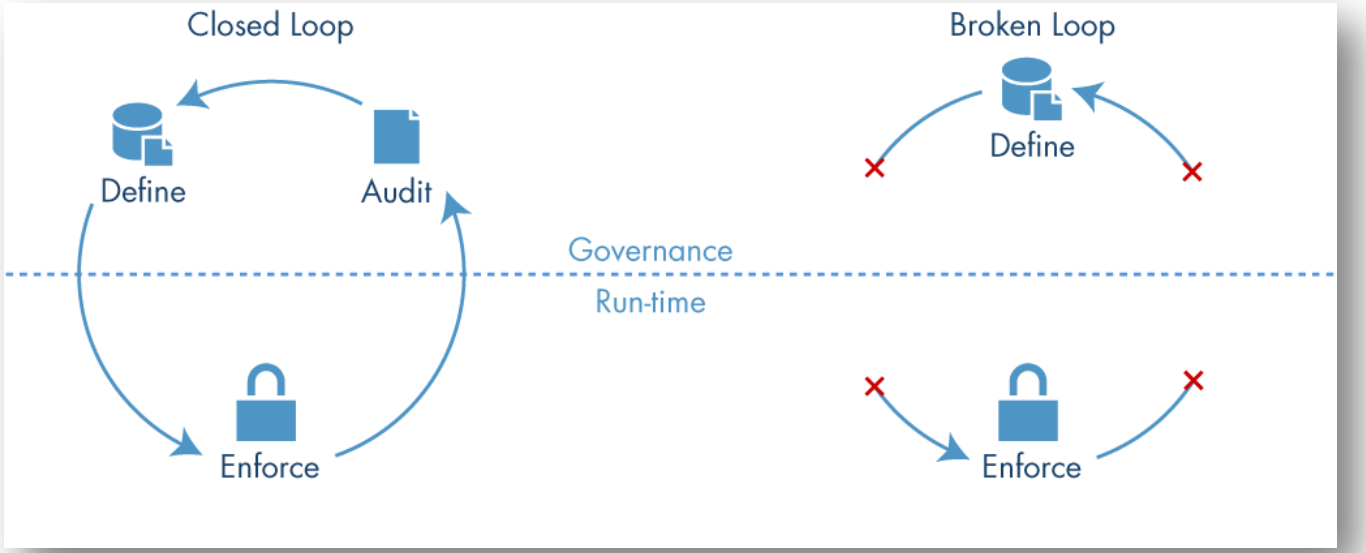
- Close the loop
  - Ensure policies are enforced
  - Audit policy enforcement
  - Enforce contractual agreements between consumers and providers
  - Use runtime feedback to refine contracts and SLA's
  - Use runtime feedback to determine the effectiveness of different services and organizations
  - Use runtime feedback to manage supply and demand to ensure maximum efficiency and benefit from SOA



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SOA Software taking advantage of WSRR today

- Leverage Service metadata foundation technology to provide BP supplied Customer Value
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- Reduce integration costs with readily available integration points

Federate operational and health information

SOA software™

- Ensure that services in WSRR align with plan and priority
- Provide consistent governance by extending WSRR control to additional platforms
- Extend WSRR with policy automation for DataPower

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SOA Software: Extending Unified Governance for IBM WebSphere

- Ensure that services in WSRR align with plan and priority
  - Provide WSRR with a prioritized feed of candidate services
- Provide consistent governance by extending WSRR control to non-IBM environments
  - Enable WSRR to manage policy in a heterogeneous environment
    - Oracle
    - Microsoft
    - SAP
    - JBoss
    - Tibco
  - Provide WSRR with metrics and audit data from a heterogeneous environment
  - Enable WSRR to validate asset compliance with defined policies
- Extend WSRR with policy automation for DataPower
  - Centrally manage policies for clusters of DataPower appliances
  - Virtualize services into DataPower
  - Monitor and audit DataPower services

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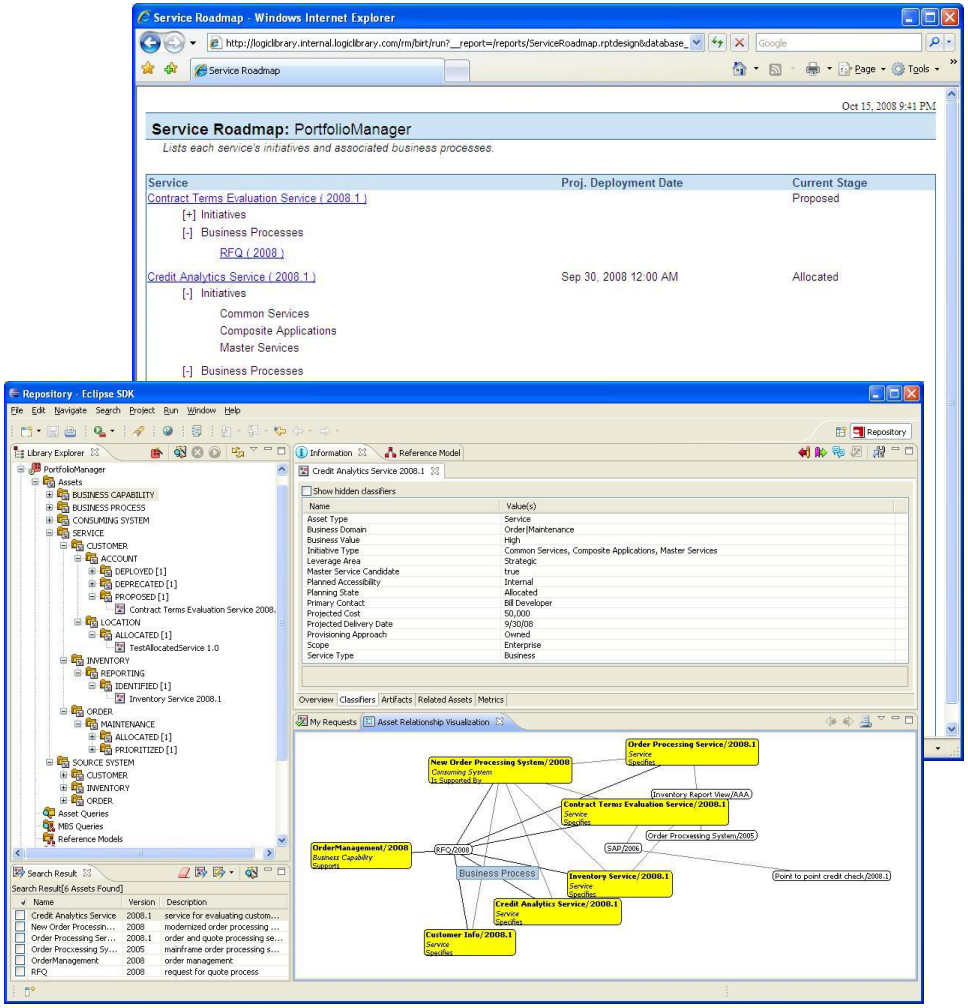
Portfolio Manager for IBM WebSphere WSRR



- Ensure That Services in WSRR Align With Plan and Priority
  - SOA Planning Governance for WSRR
  - Automated Asset harvesting from a wide range of source systems
  - Flexible graphical planning governance process management
  - Easy identification of candidate services
  - Intuitive SOA roadmap definition, prioritization and management
  - Ensures that SOA portfolio management remains a continuous dynamic process
  - Publish candidate services directly to WSRR
  - Discover assets from WSRR

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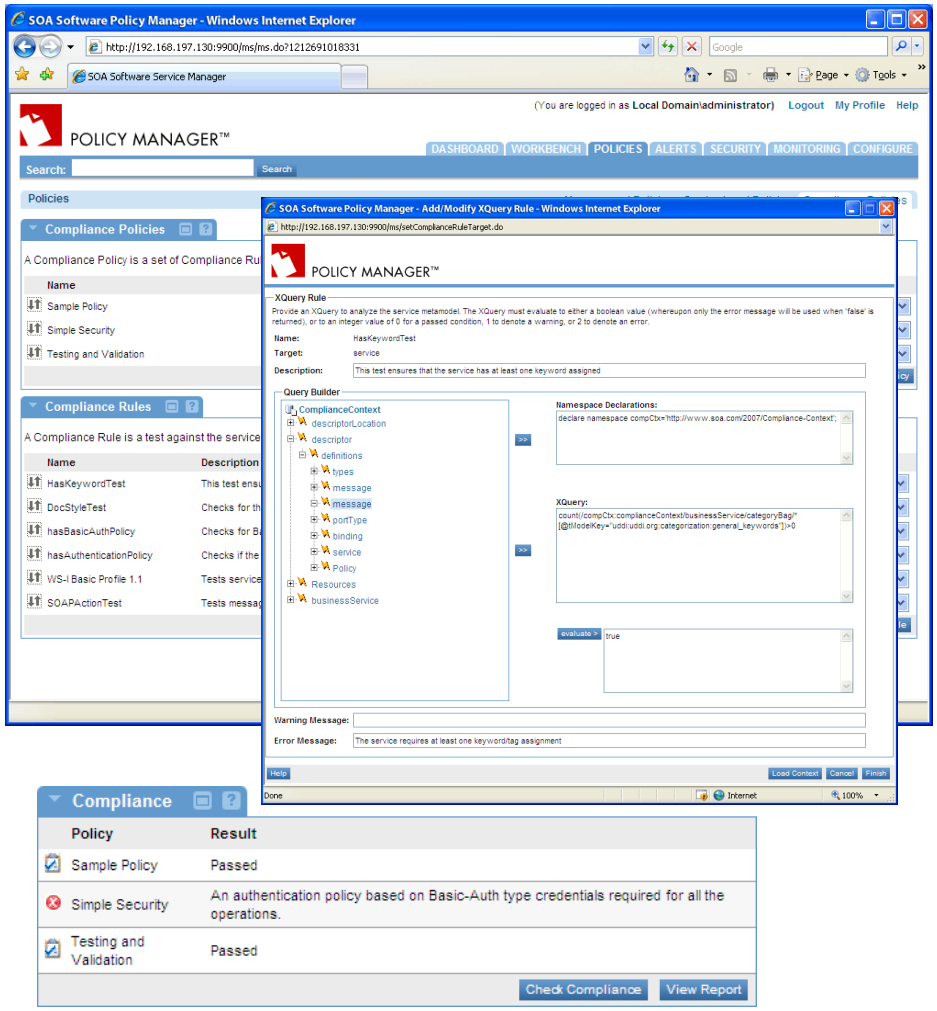
Policy Manager for IBM WebSphere WSRR



- Provide consistent governance by extending WSRR control to non-IBM environments
  - Heterogeneous SOA Policy Federation for WSRR
  - Expose WSRR managed policies via WS-Metadata Exchange and WS-Resource Transfer Services
  - Active contract management
    - Manages relationships between consumers and providers
  - Collect, process and distribute monitoring data
  - Closed-loop auditing for WSRR services

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Policy Manager for IBM WebSphere DataPower

- Extend WSRR with policy automation for DataPower
  - Automatically configure DataPower to host and route services registered in WSRR
  - Define policies in WSRR and automatically apply them to services distributed across multiple DataPower appliances
  - Manage a cluster of DataPower appliances as a single entity
  - Gain visibility into service and appliance performance, individual messages, and business transactions from a single administration console
  - Monitor and enforce SLAs registered in WSRR for services distributed across a cluster of appliances generating alerts for faults, performance issues, and security violations

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Takeaways

- SOA Software's Policy Manager for WSRR extends IBM's WSRR solution to heterogeneous environments

- SOA Software's Policy Manager for WSRR ensures that:
  - Services are relevant and consumable across heterogeneous platforms
  - Services comply with development and operational policies
  - WSRR users have visibility into service performance and behavior across heterogeneous platforms

- For more information see: www.soa.com/ibm

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SOA™ software

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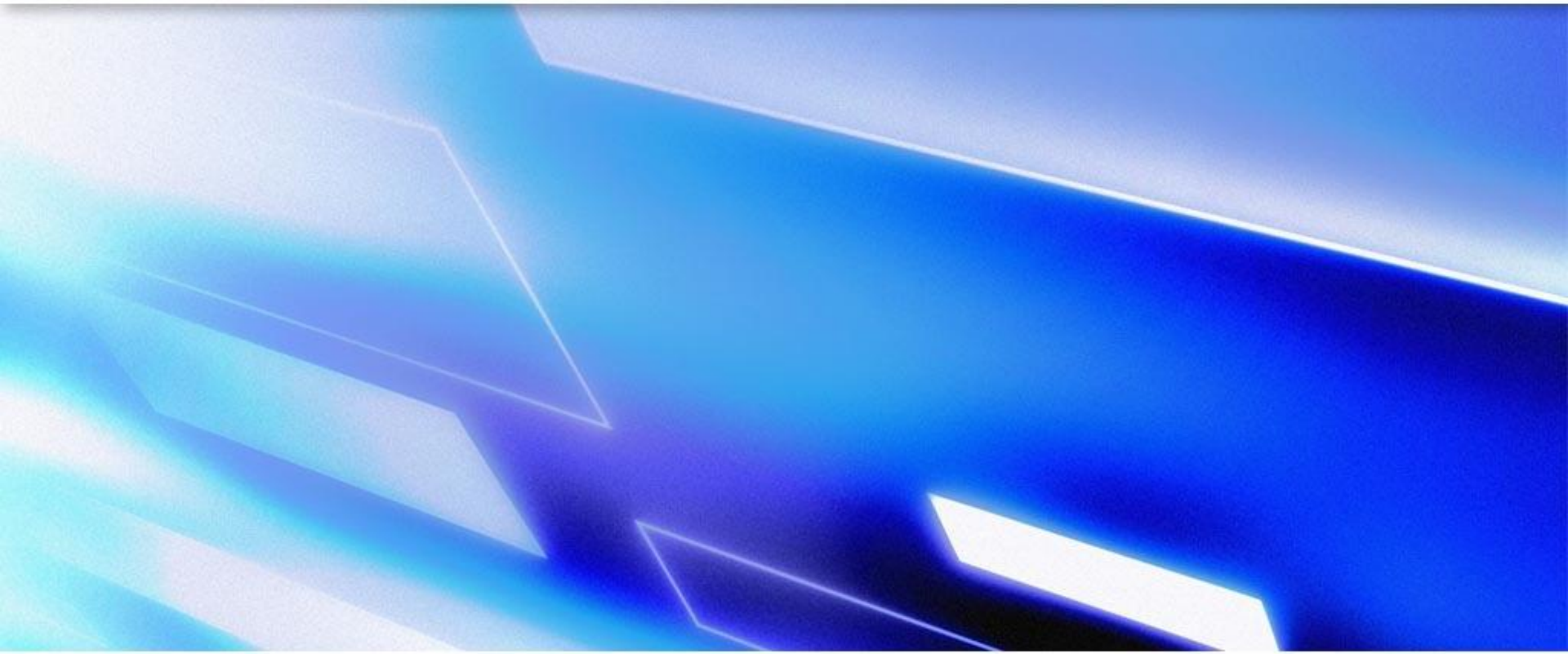

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