



**Gérer et gouverner vos architectures SOA avec
WSRR – jean_michel_glaudeix@fr.ibm.com**

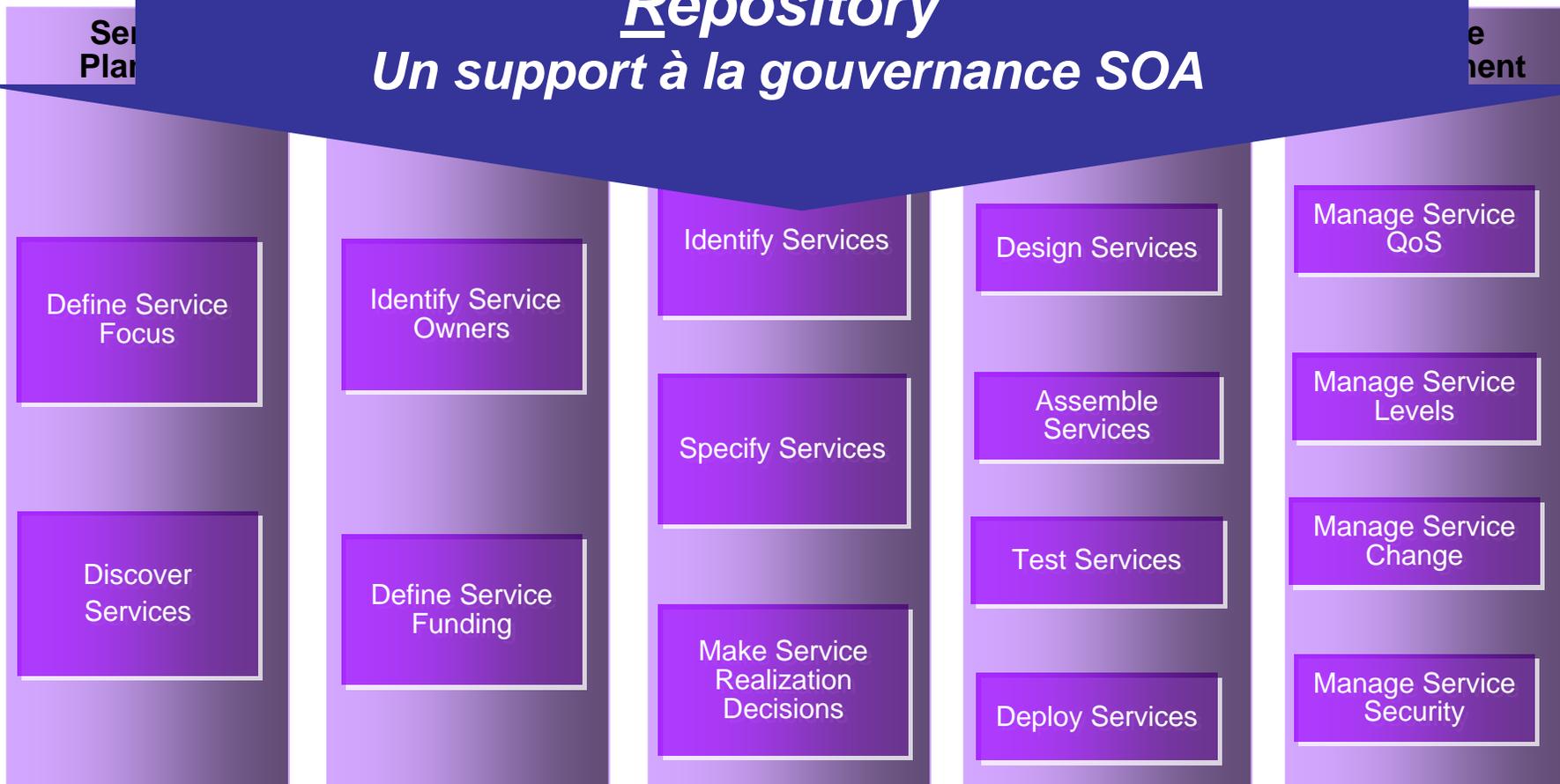
1^{er} et 2 octobre 2007



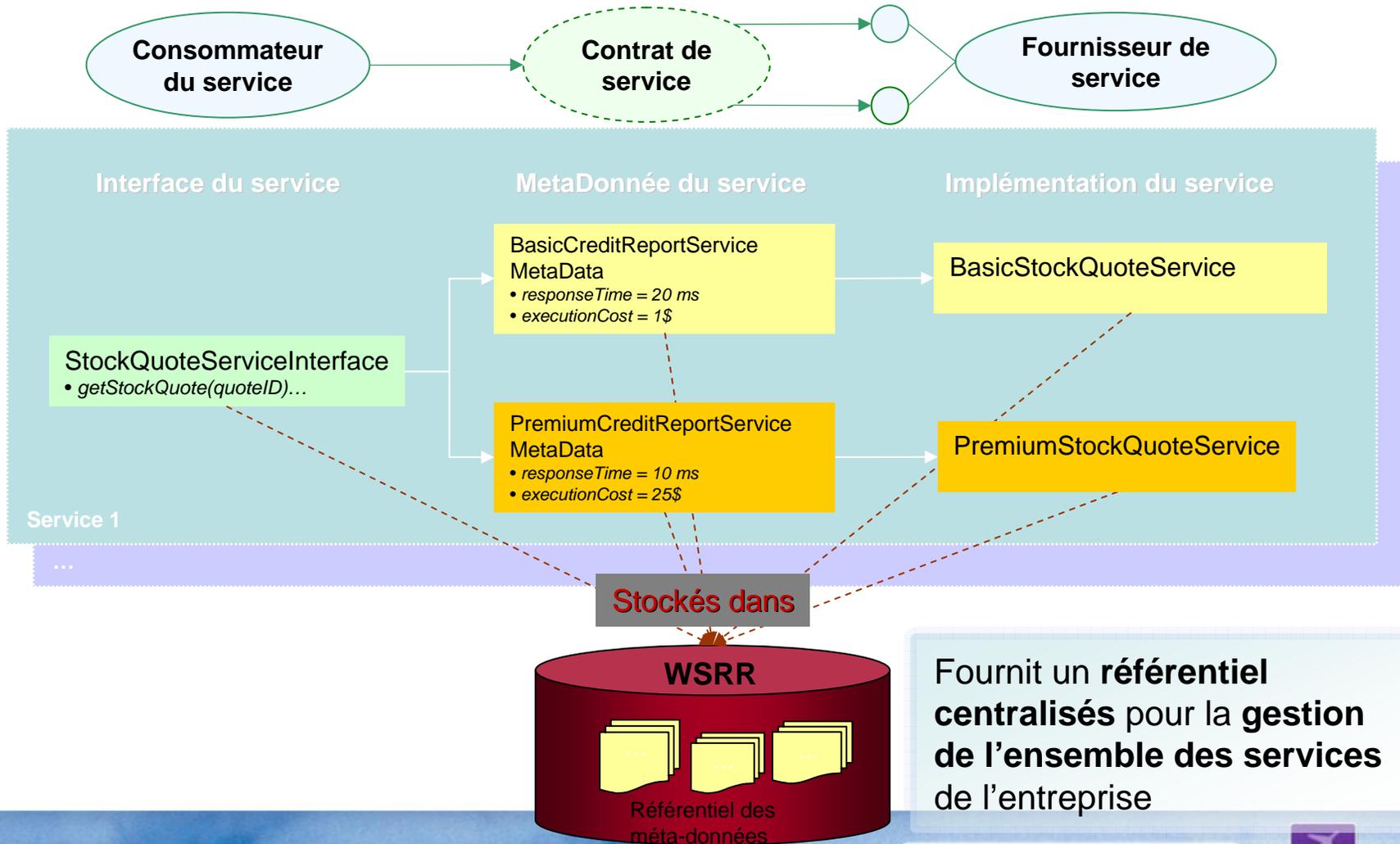
Le succes d'une démarche de gouvernance dépend essentiellement de la gestion du

WebSphere Service Registry and Repository

Un support à la gouvernance SOA



SOA repose sur la définition des services



Sans une gouvernance et une gestion rigoureuse de SOA...

Cela pourrait bien ressembler... ... à qql chose comme ca



La promesse du SOA



Une variété de services

... et les gains espérés seraient alors illusoires



Cas d'utilisation & Valeur métier

DEVELOPPEMENT

Rendre Visible et Partager

Assurer que les services peuvent être facilement découverts et compris.

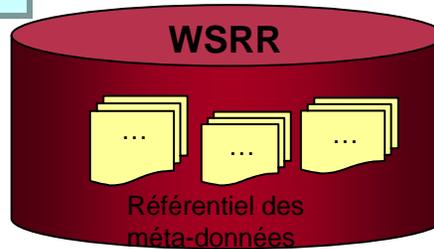
Fournir une vision 360° d'un service dans chaque étape de son cycle de vie

... dans
... partir



Integration Architect

« J'ai besoin d'intégrer des services dans mes processus métier. Où et Comment découvrir les services disponibles dans mon entreprise ?... »



EXECUTION

« Accéder et Satisfaire

« Je
l'e
ut
vo

Assurer le niveau de qualité de service attendus par les consommateurs

Fournir le bon service au bon utilisateur au bon moment



architect

« Les données associées à la Qualité de Service doivent pouvoir être mise à jour dans WSRR, afin que la sélection dynamique de service puisse se faire sur des valeurs réelles de production... »

« Je dois organiser et classer les services de l'entreprise pour maximiser le partage et la réutilisation... »

Gérer et Contrôler

Gérer le cycle de vie d'un service de sa publication à son retrait

Gérer l'impact d'un changement sur l'ensemble des services référencés

de vie des services jusqu'à leur fin de vie... »

Impact d'un changement sur S... »

ADMINISTRATION



Intégration logicielle

DEVELOPPEMENT

CICS

Any CICS Web services provider program publish and read capability

RAD/WID

Find & publish

Generic Client

Web services client can publish and search

WBModeler

Find business services

DataPower

Find & Create Web Service Proxy

EXECUTION

Enterprise Service Bus
Mediations based on WSRR
Lookup

Message Broker

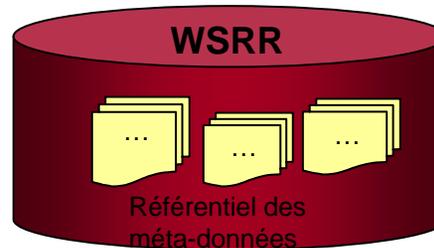
MB Routing Nodes based on WSRR lookup

Process Server

Mediations based on WSRR Lookup

ITCAM for SOA

Federate Service Health information



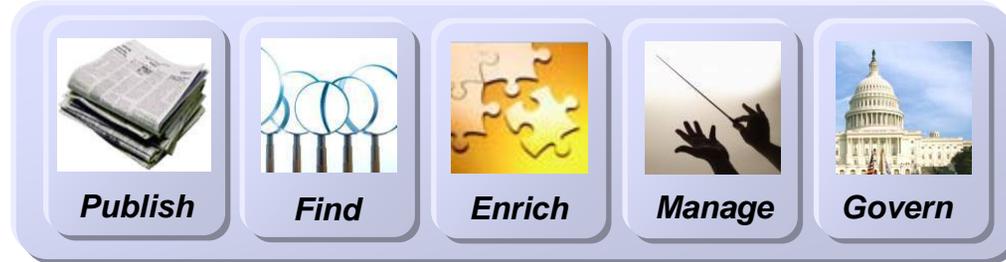
WebSphere Business Services Fabric

Extends to Business and industry context

ADMINISTRATION



WebSphere Service Registry and Repository



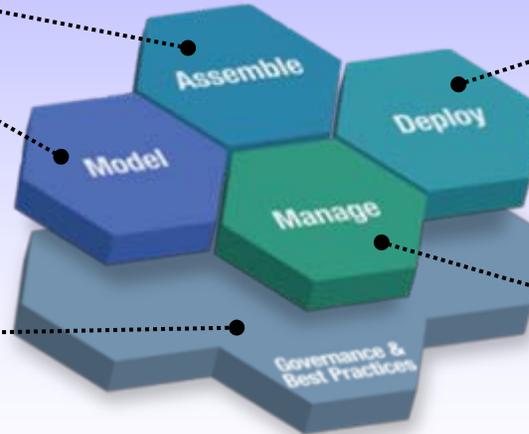
Encourage Reuse

Find and reuse services for building blocks for new composite applications.



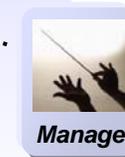
Enable Governance

Govern services throughout the service lifecycle



Enhance Connectivity

Enable dynamic and efficient interactions between services at runtime.



Help optimize service performance

Enable enforcement of policies. Impact analysis

WebSphere Service Registry & Repository Content

Service Description Entities

Physical Documents

- WSDL
- XSD
- SCDL
- WS-Policy
- XML – *User-defined Documents*
-

Logical derivations

- Interface
- Operation
- Message
- Type
- Service
- Binding
- Endpoint
-

Concepts

- *User-defined by classification*
- Business Application
- Business Process
- Governed Collection
- External reference

Metadata
applies to
all
entities

Service Description Metadata

Properties

- name
- namespace
- version
- description
- modifiedDate

- name
- namespace
- *User-defined*
- *metrics*

- *User-defined*
- owner
- *externalURL*

Relationships

- imports
- includes
- predecessor
- *User-defined*

- derivedFrom
- operations
- messages
- *User-defined*

- *User-defined*
- *dependantServices*
- *serviceInterface*
- *governedEntities*
- *policies*
-

Classifications

- *User-defined States*
 - *Created*
 - *Approved*
 - *Published*
 - *Operational*

- *User-defined Environments*
 - *Development*
 - *Test*
 - *Approval*
 - *Production*

- *User-defined Concepts*
 - *Application*
 - *Process*
 - *Capability*

- *Standard Ontologies*
 - NAICS
 - UNSPSC
 - ISO3166



- Introduction
- **Capabilities**
 - Publish and Find
 - Enrich
 - Manage
 - Govern
 - Extend
- Architecture
- Development process and Roadmap
- Competitive Landscape
- Positioning
- Contacts and Resources





Properties Problems Servers Console **Service Registry**

Name	Version	Type	Description
Generic Objects			
WSDL Documents		GenericObject	Generic Objects Root
XML Documents		WSDLDocument	WSDL Documents Root
XSD Documents		XMLDocument	XML Documents Root
		XSDDocument	XSD Documents Root

- Retrieve...
- Retrieve WSDLs**
- Retrieve XMLs
- Retrieve XSDs
- Retrieve Generic Objects
- Remove all results

Navigator

- RepairGlobalWSWeb
 - imported_classes
 - JavaSource
 - WebContent
 - META-INF
 - theme
 - WEB-INF
 - wsdl
 - global
 - RepairGlobalWSWeb
 - .classpath
 - .compatibility
 - .eisConnections
 - .jee
 - .project
 - .runtime
 - .websettings
 - .website-config
 - diagram.gph
 - RepairLocalWSWeb
 - RepairWSEAR

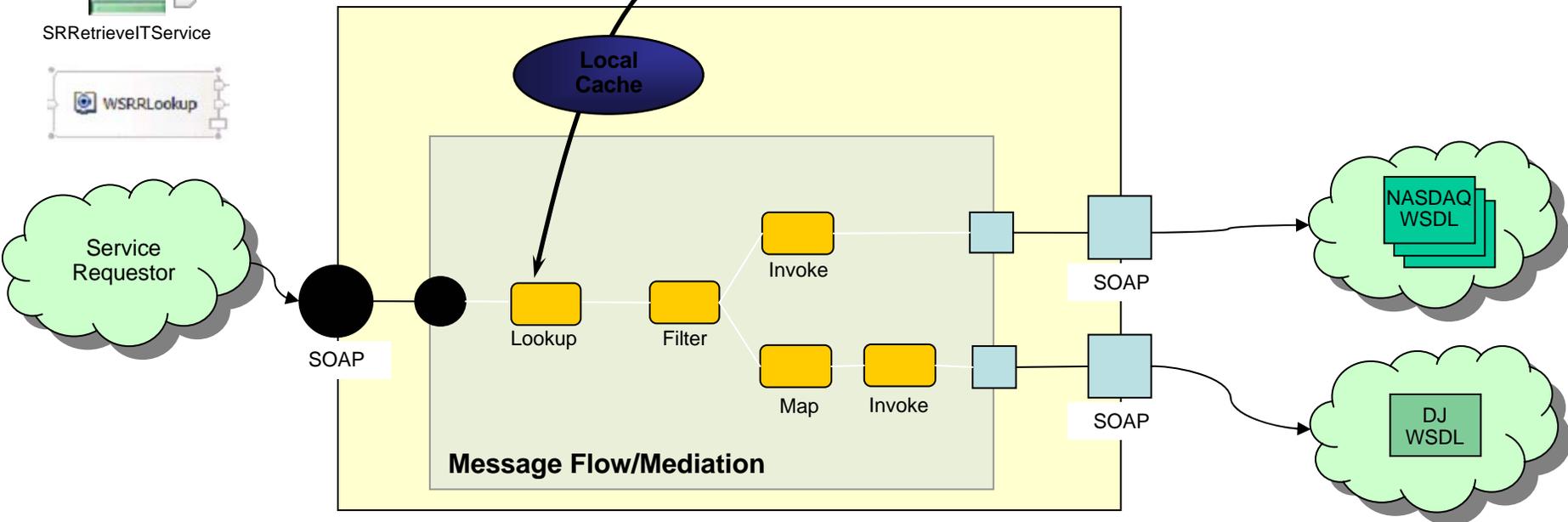
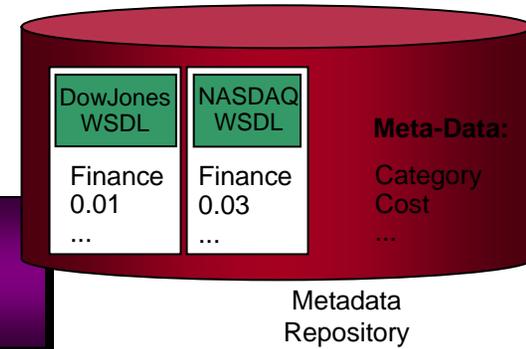
- New
- Open
- Open With
- Copy
- Paste
- Delete
- Move...
- Rename
- Import...
- Export...
- Refresh
- Run Validation
- Generate Documentation...
- Run
- Debug
- Profile
- Team
- Compare With
- Replace With
- Service Registry**
 - Publish as Concept
 - Publish Document
- Properties
- Component Test

WSRR s'intègre naturellement avec les autres produits de la gamme BI

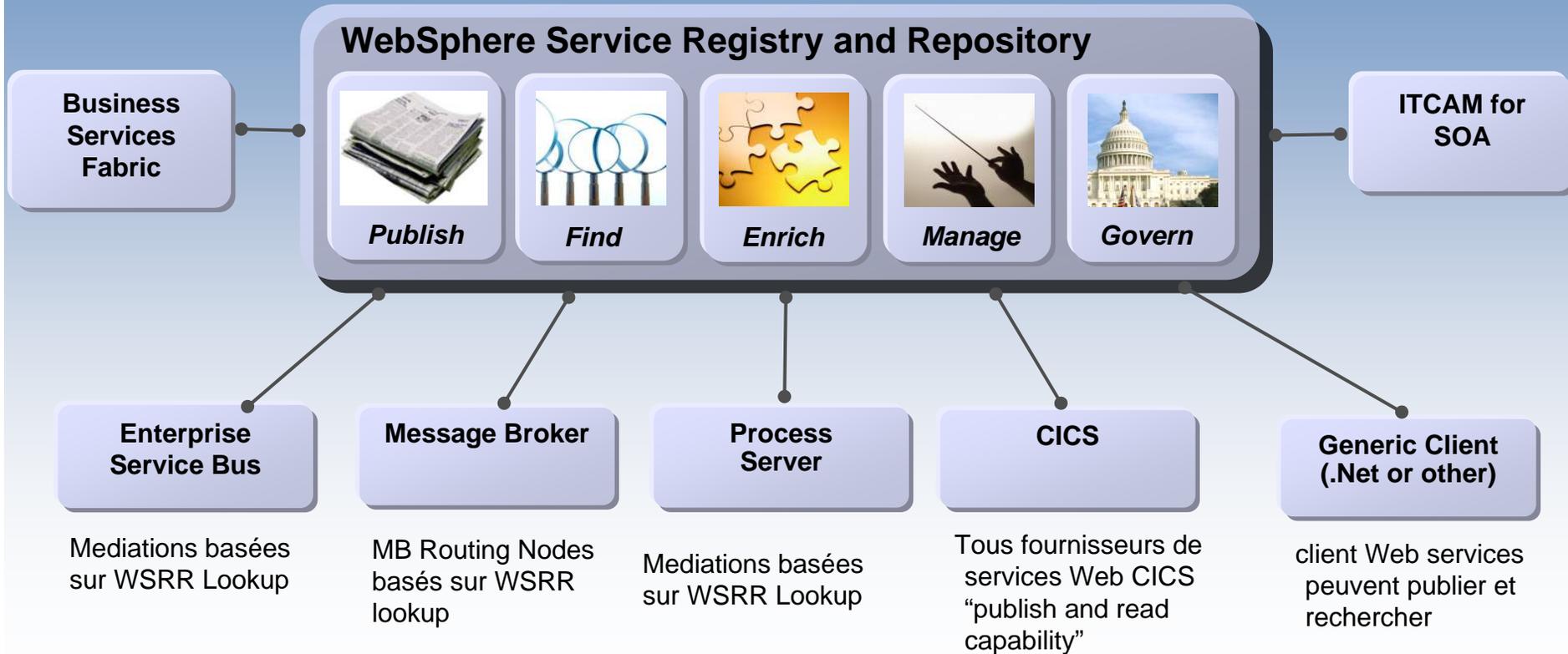
Au travers de noeuds prédéfinis (SCA)

- WebSphere Message Broker
- WebSphere Enterprise Service Bus

Bus



WebSphere Service Registry & Repository Integration Runtime



- A
- d
- D
- D
- Définir des règles de validation et de notification

Shared Libraries > New

Specifies a container-wide shared library that can be used by deployed applications.

Configuration

General Properties

* Name

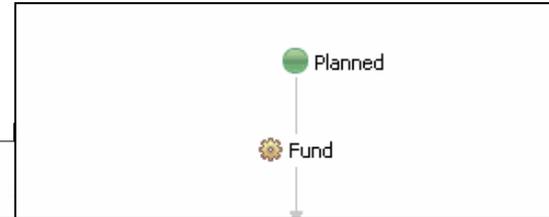
Description

* Classpath

Native Library Path

Apply OK Reset Cancel

Permissions



Effector

Enterprise Applications > ServiceRegistry > Library Reference > New

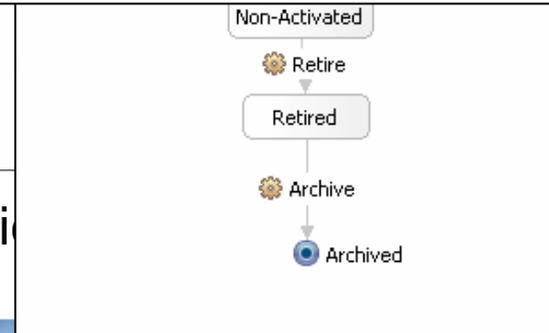
A library reference specifies a shared library file used by this application. Define a library reference for each library file that your application uses.

Configuration

General Properties

Library name

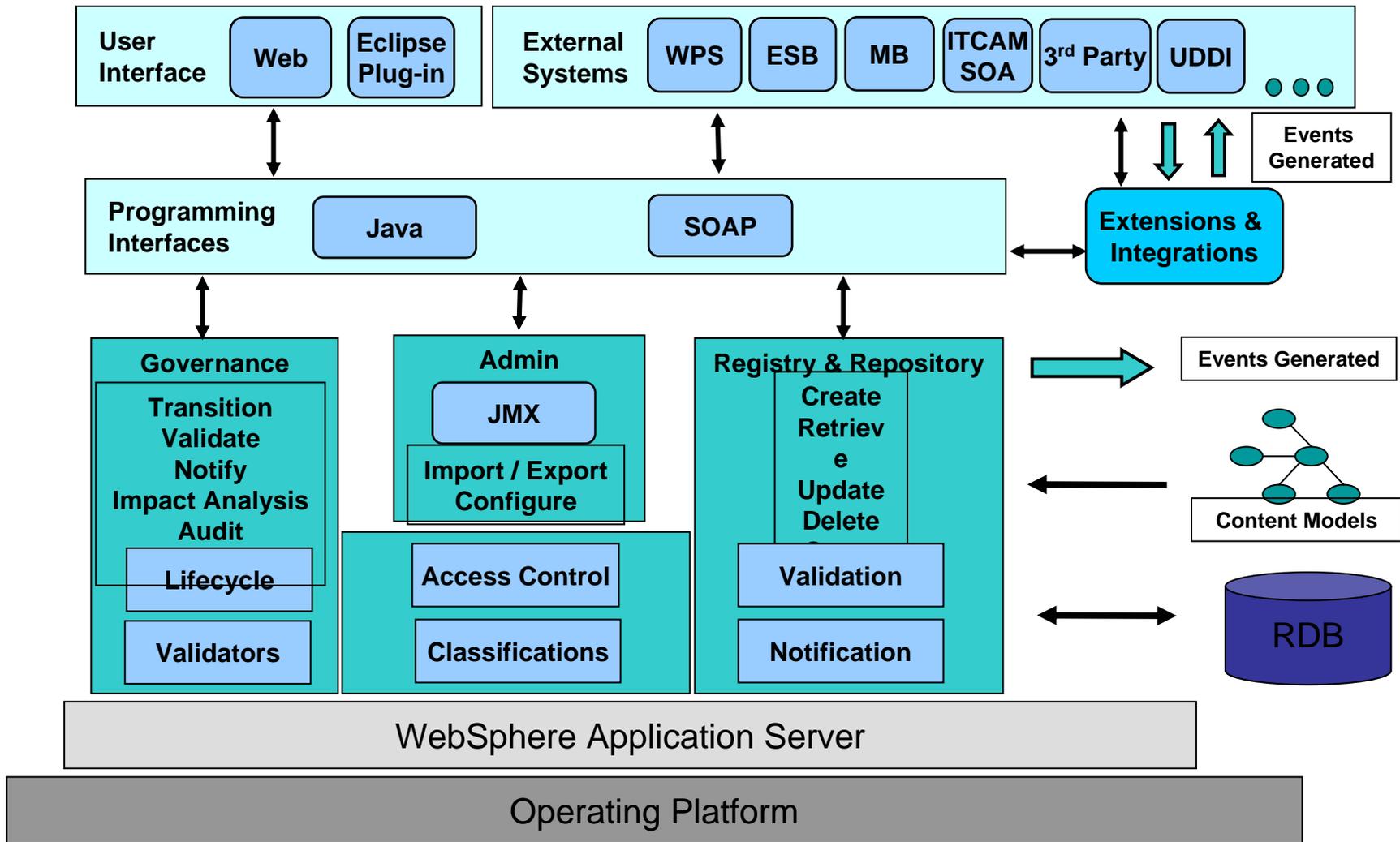
Apply OK Reset Cancel



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- **Architecture**
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WebSphere Service Registry & Repository Architecture



Pour aller plus loin ...

- Troubleshooting & Support section in the InfoCenter
 - <http://publib.boulder.ibm.com/infocenter/sr/v6r0m2/index.jsp>
- WSRR Support pages
 - <http://www-306.ibm.com/software/integration/wsrr/support/>
- For the latest System Requirements please see
 - <http://www-306.ibm.com/software/integration/wsrr/sysreqs/index.html>
- Technotes
 - <http://www-1.ibm.com/support/search.wss?tc=SSWLGf&rs=3163&rank=8&dc=D B520+D800+D900+DA900+DA800&dtm>



Operating System & Database Support

O/S	Level	Server	Client	DB2 32-bit	DB2 64-bit	Oracle
AIX	AIX 5L V5.3	✓	✓	✓	✗	✓
HP-UX	HP-UX Operating Environment 11.23	✓	✓	✓	✗	✗
Linux on Intel and POWER	Red Hat Enterprise Linux AS 4.0	✓	✓	✓	✗	✓
	SuSE Linux Enterprise Server (SLES) 9.0	✓	✓	✓	✗	✓
Linux on zSeries	Red Hat Enterprise Linux AS 4.0	✓	✓	✗	✓	✗
	SuSE Linux Enterprise Server (SLES) 9.0	✓	✓	✗	✓	✗
Solaris SPARC	Solaris 9	✓	✓	✓	✗	✓
	Solaris 10	✓	✓	✓	✗	✓
Windows	Windows 2003	✓	✓	✓	✗	✓
	Windows XP	✗*	✓	✓	✗	✓
z/OS	z/OS® V1.7 or V1.8	✓	✓	✓	✗	✗

Hardware Requirements

- Minimum 2GB memory, recommended 3GB.

Software Requirements

- WAS or WAS ND 6.0.2.11
- DB2 8.2 FP5 (aka DB2 8.1 FP12)
- Oracle 10g Enterprise Edition Release 10.2.0.1.0