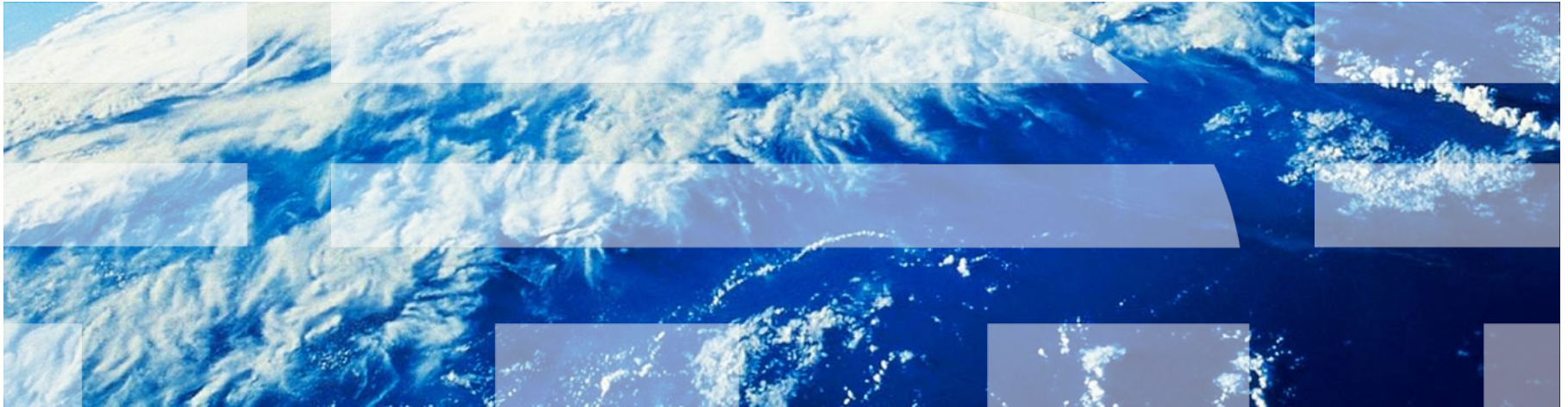Chris Jenkins
21st March 2012

IBM

Configuring SOA Governance on WebSphere Service Registry and Repository (WSRR) using WSRR Studio

Agenda

- **Introduction**

- Brief Introduction to SOA Governance

- What is WSRR?

- Introduction to WSRR Studio

- Introduction to the Governance Enablement Profile
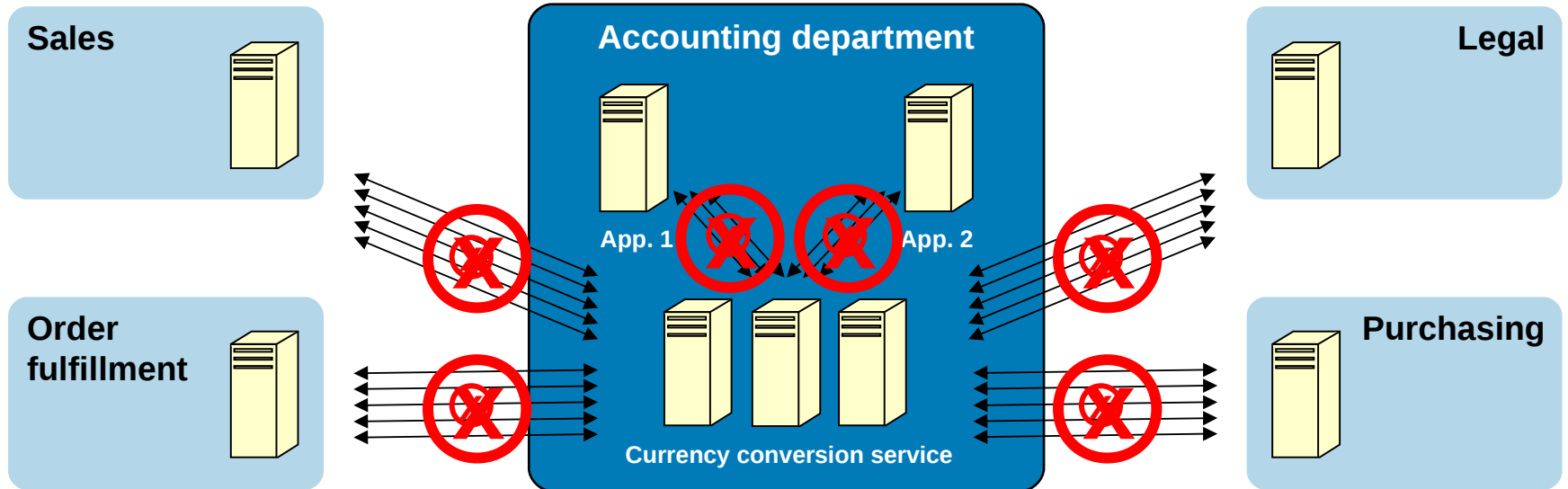
- Demo of WSRR Studio

About this talk

- What this talk covers:
  - A brief look at configuring SOA governance using WSRR Studio

- What this talk doesn't cover:
  - High level strategy
  - Runtime service invocation

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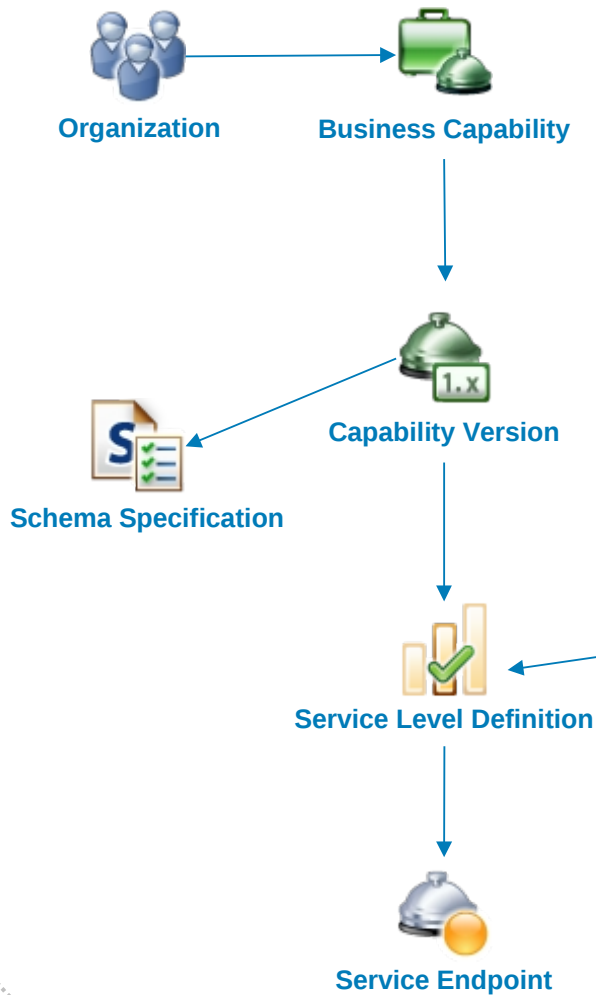
A scenario on the importance of SOA governance

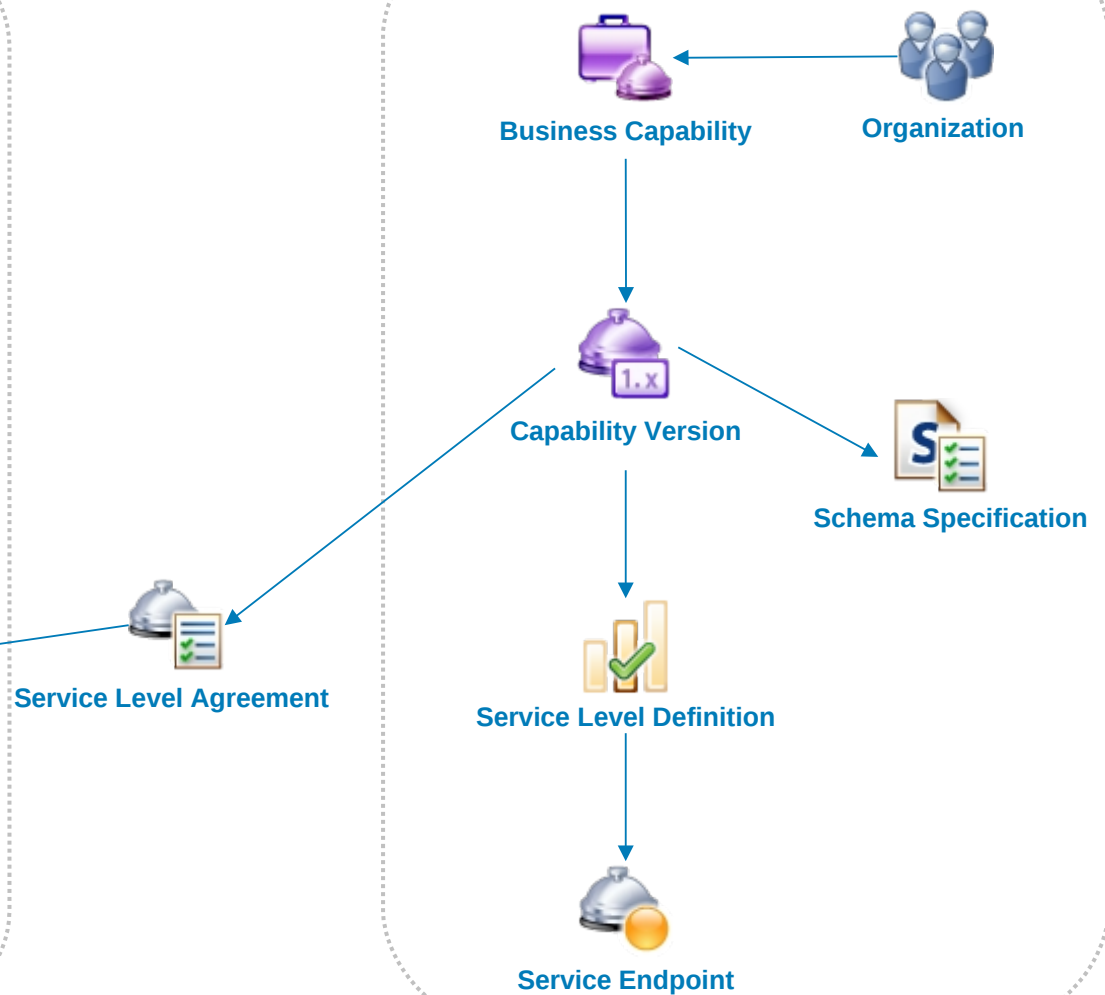## Client focusing on service control

Sales

Accounting department

App. 1   App. 2

Currency conversion service

Legal

Order fulfillment

Purchasing

| 1. Provide a currency service that fills a specific line of business (LOB) | 2. Other LOBs start using the service | 3. LOBs increase use of services / quality suffers | 4. Service is fixed at provider's expense | 5. Fix works temporarily but problem reappears | 6. Maintenance costs soar / provider ends service |

WebSphere. software

Governing Service Consumers as well as the Service Provider

Service Provider

Organization → Business Capability → Capability Version → Schema Specification

Service Level Definition → Service Endpoint

Service Consumer

Business Capability ← Organization → Capability Version → Schema Specification

Service Level Definition → Service Endpoint

Service Level Agreement
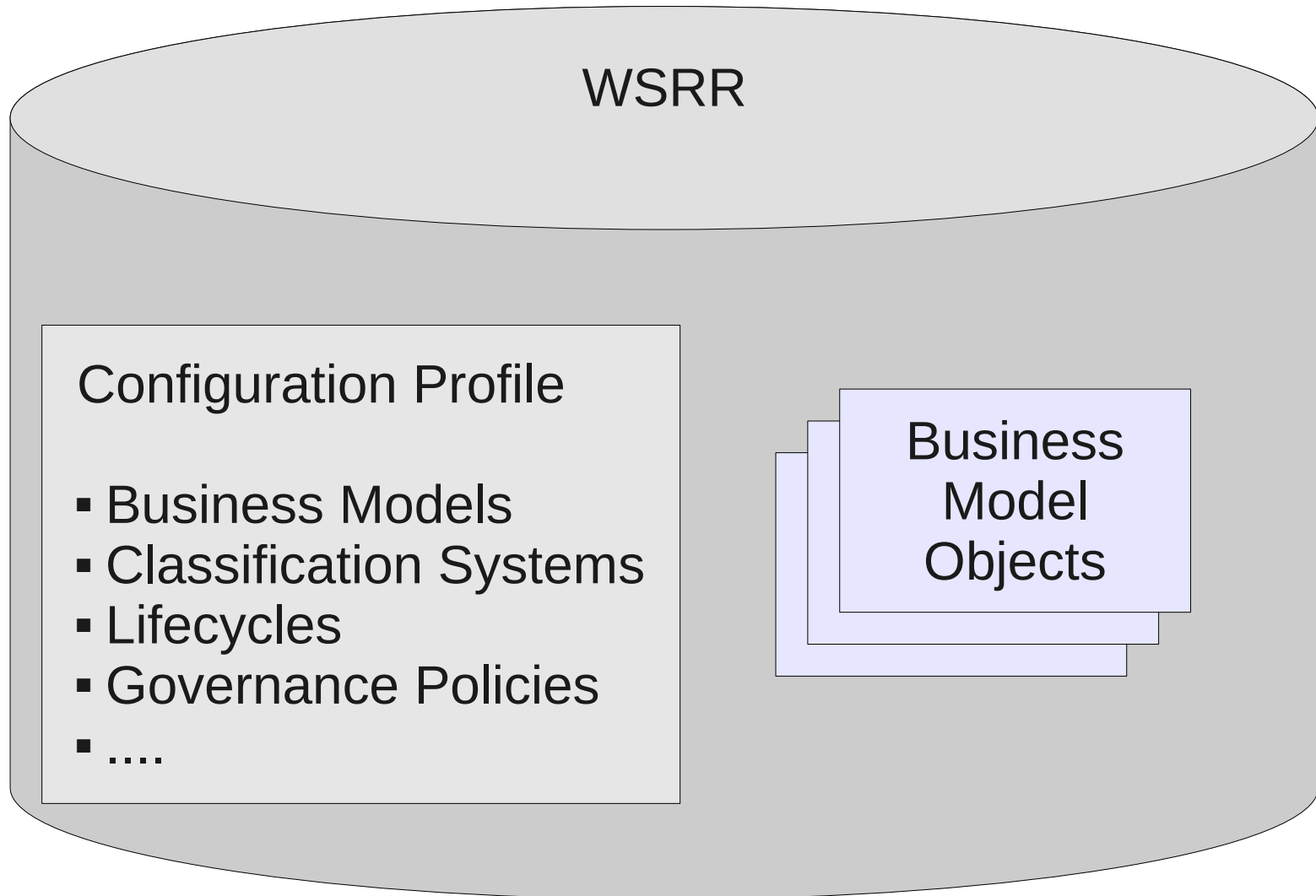
6

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WebSphere Service Registry and Repository (WSRR)

WSRR

Configuration Profile

- Business Models
- Classification Systems
- Lifecycles
- Governance Policies
- ....

Business Model Objects

How can we edit WSRR configuration?

```
<owl:Class rdf:about="&gep63;CapabilityVersion">
        <rdfs:subClassOf>
                <owl:Restriction>
                        <owl:onProperty
rdf:resource="&gep63;consumerIdentifier"/>
                        <owl:minCardinality
rdf:datatype="&xsd;nonNegativeInteger">0</owl:minCardinality>
                </owl:Restriction>
        </rdfs:subClassOf>
        <rdfs:subClassOf>
                <owl:Restriction>
                        <owl:onProperty
rdf:resource="&gep63;consumerIdentifier"/>
```
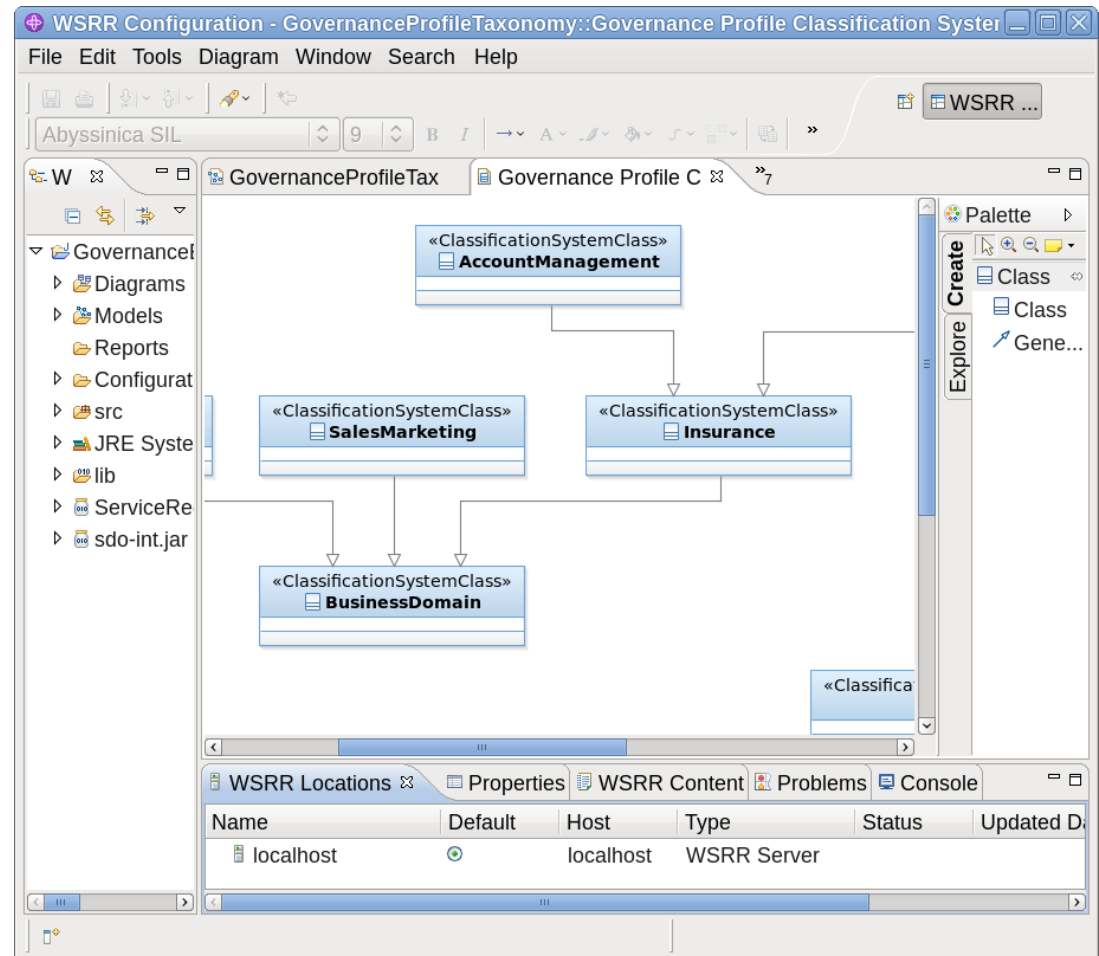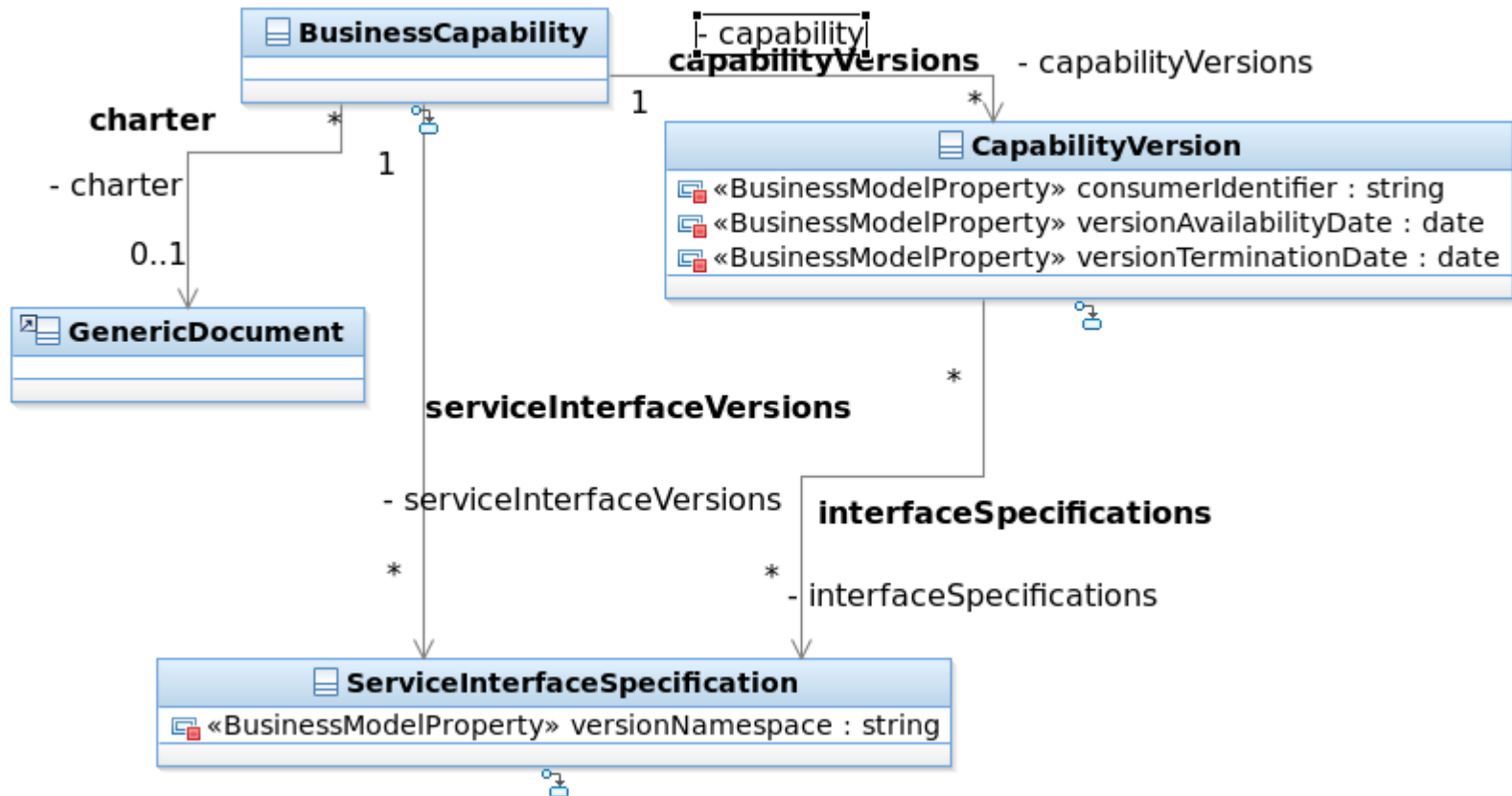
WebSphere. software

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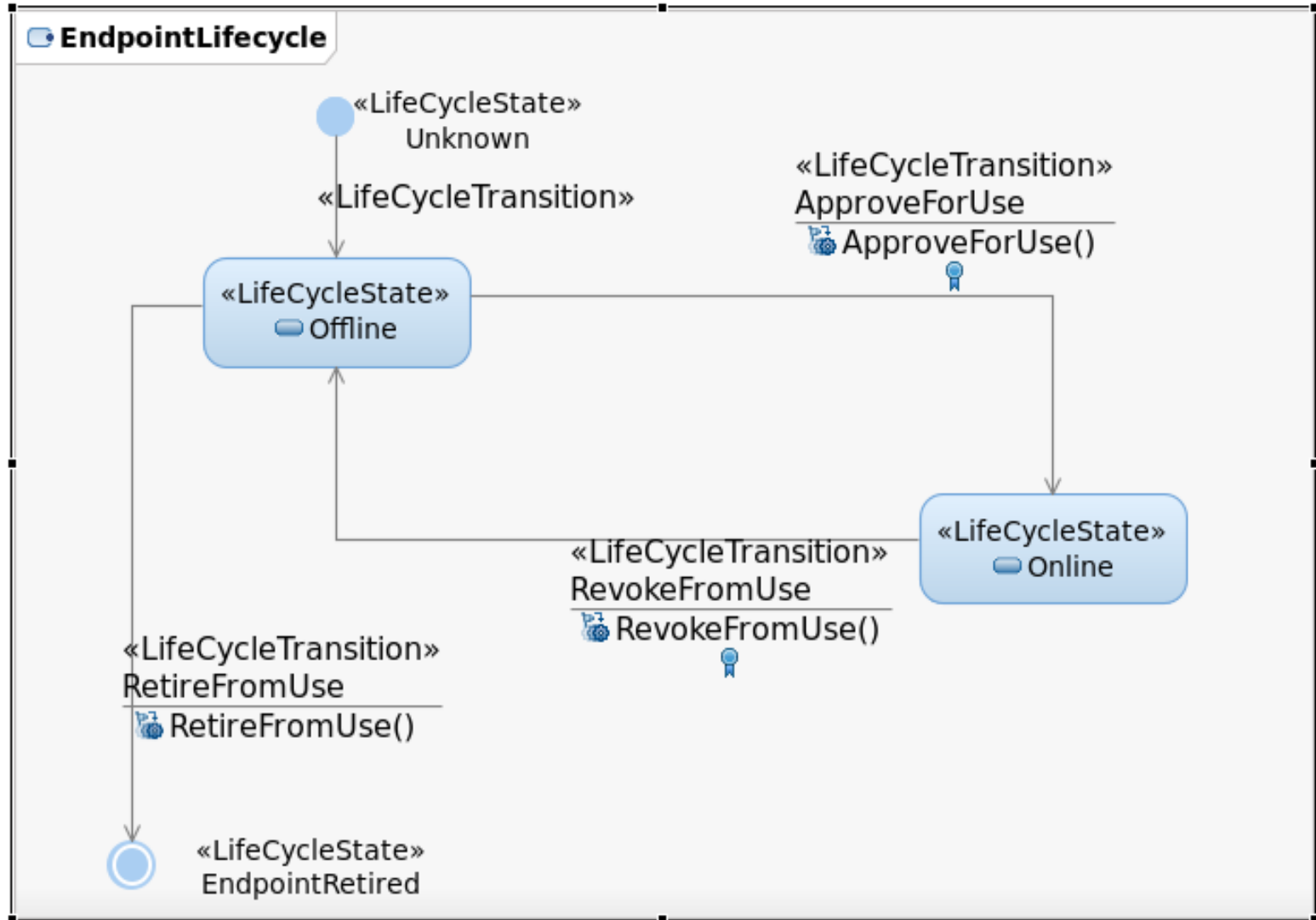
- Demo of WSRR Studio

WSRR Studio

- A tool for editing WSRR configuration profiles

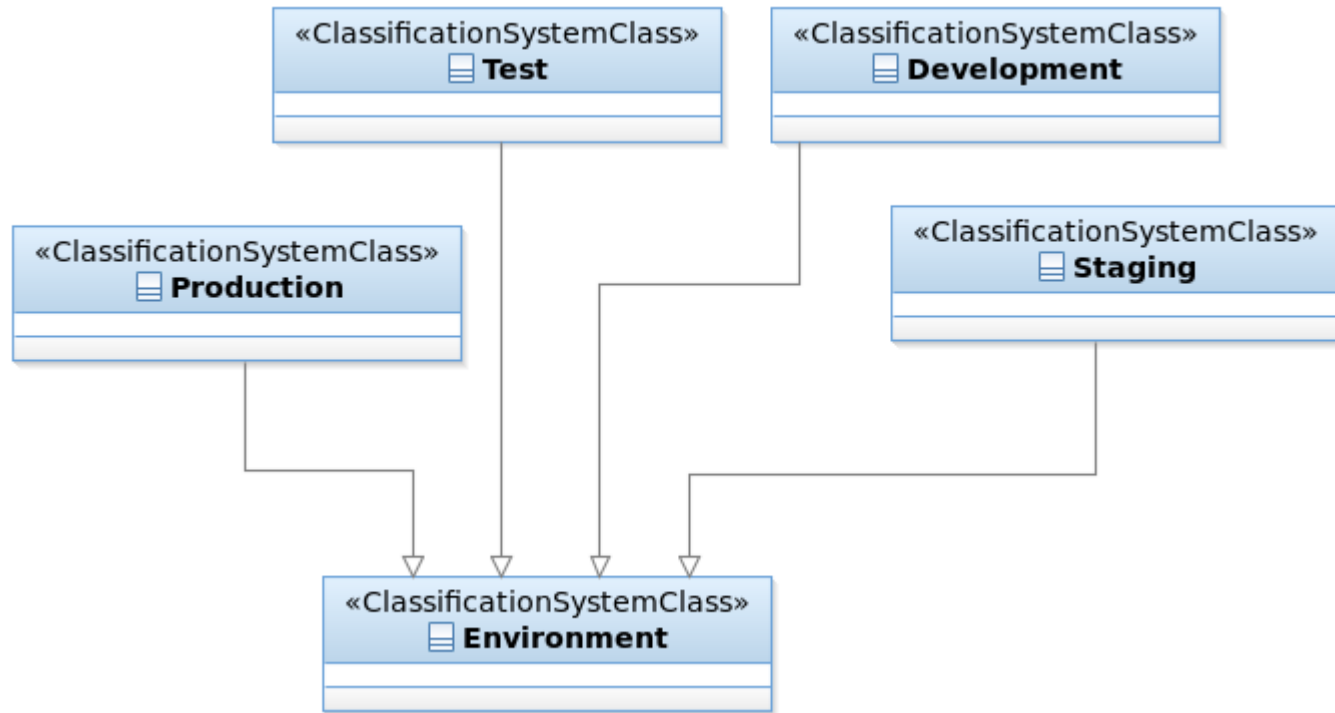- Has editors for many WSRR configuration objects

- Based on Eclipse

Business Models

Lifecycles

Classifications

Governance Policies

▾ Policy Properties

Name   EndpointLifecycleDetailRights - Approve For Use

▾ Applies to

WSRR Operation

☐ Create   ☑ Transition

☐ Update   ☐ Make Governable

☐ Delete   ☐ Remove Governance   ☐ Validate

Transitions

Name	Lifecycle	URI	
ApproveForUse	EndpointLifecycle, DefaultLifecycle	http://www.ibm.com/xmlns/prod/serviceregistry/lifecycle/v	Add... Remove

Targets (XPath expression)

```
/WSRR/GenericObject[@primaryType='http://www.ibm.com/xmlns/prod/serviceregistry/v6r3/
ServiceModel#ServiceEndpoint' OR @primaryType='http://www.ibm.com/xmlns/prod/serviceregistry/v6r3/
ServiceModel#MQServiceEndpoint' OR @primaryType='http://www.ibm.com/xmlns/prod/serviceregistry/
v6r3/ServiceModel#SOAPServiceEndpoint' OR @primaryType='http://www.ibm.com/xmlns/prod/
```

Edit...

Roles

Role	
	Add... Remove

▾ Pass if   ✤ ✖   ☐ Display Names

The policy will pass if the following conditions are satisfied:
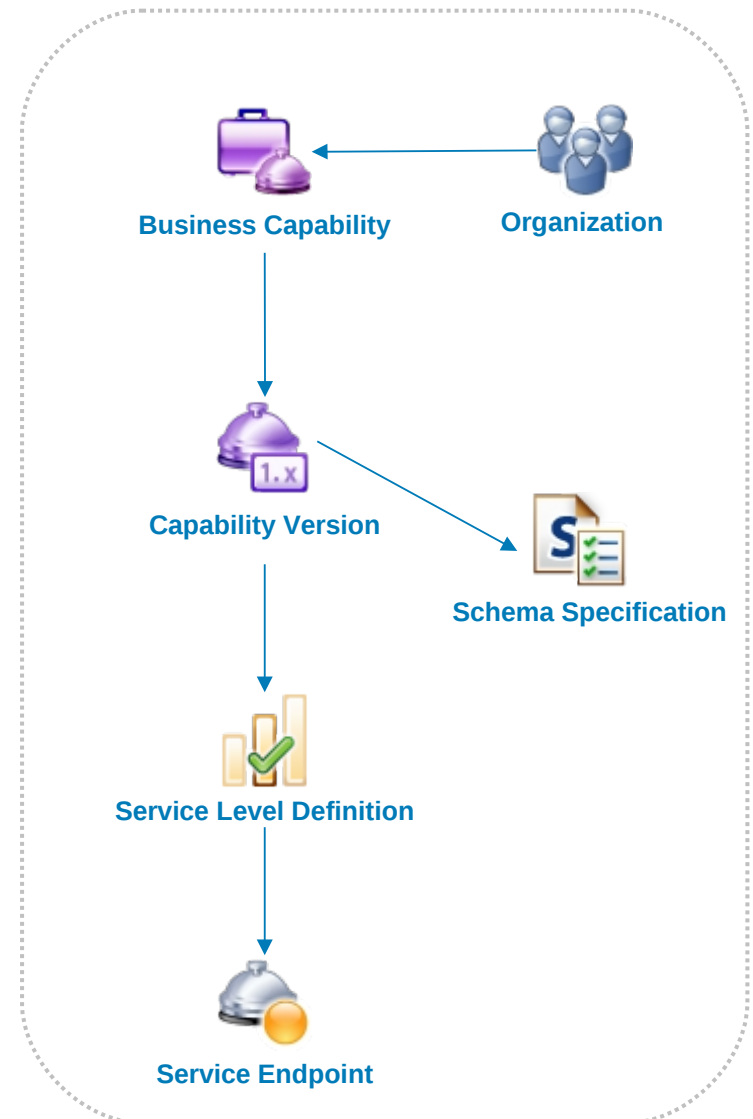
Classified as **Environment**

IBM Corporation

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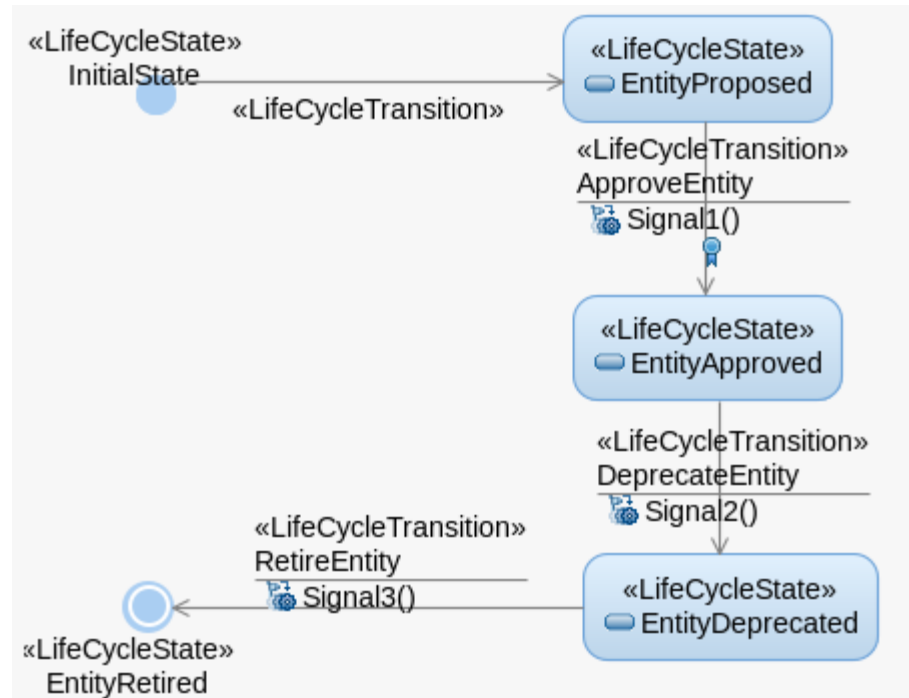WebSphere. software
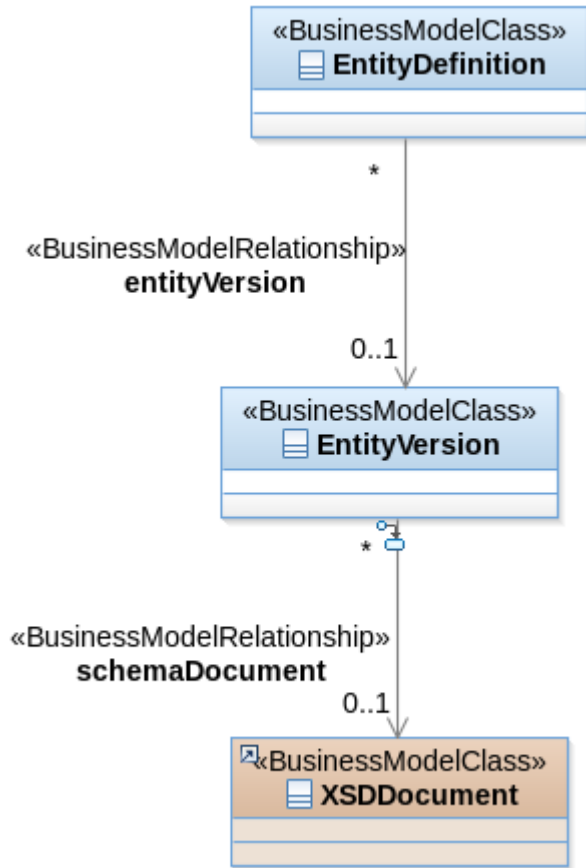
The Governance Enablement Profile

- A blueprint for best practices

- Business Models, Lifecycles, Governance Policies etc.

- It's big – but you don't need to use all of it

- If you're not using one part, maybe that's a hint that you need to look at that area

Business Capability

Organization

Capability Version

Schema Specification

Service Level Definition

Service Endpoint

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- **Demo of WSRR Studio**

Let's create a new business model and lifecycle

Questions?

?