IBM Rational Asset Manager
Governing the Assets of your Enterprise

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IBM Rational Software Development Conference UK 2007

What keeps me **Rational**?

IBM ®

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering

Agenda

- Concepts
  - ▶ Governance
  - ▶ Community
  - ▶ Process
- Configuring Rational Asset Manager for Governance
- Sample SOA Catalog
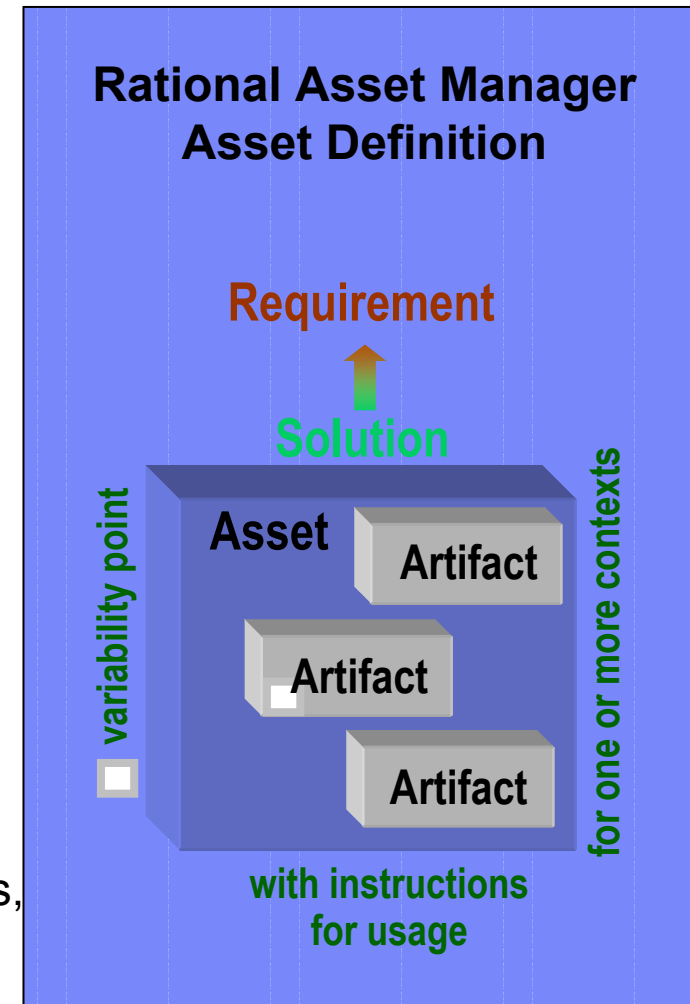- Rational Asset Manager Modular Service Offering

Asset Governance

- The establishment of
  - ▶ **Chains of responsibility** to empower people
  - ▶ **Measurement** to gauge effectiveness
  - ▶ **Policies** to guide the organization to meet their goals
  - ▶ **Control mechanisms** to ensure compliance
  - ▶ **Communication** to keep all required parties informed

Rational Asset Manager governance:

Review and approval

Metrics and reporting

Communities, Information Model, Asset Versioning

Access control

Notification, Subscriptions

What is an Asset?

- An Asset is
  - ▶ a collection of Artifacts
  - ▶ which provides a solution to a requirement or business need
    - for one or more contexts
    - with instructions for usage
    - and variability points
- What are Artifacts?
  - ▶ Workproducts from the software process
    - Requirements, Designs, Models, XML, XSD, Source code, Data, Tests, User Interfaces, Documentation, Service Interfaces, Estimates and so on…
- Kinds of assets
  - ▶ Applications, components, business process, information model, patterns, services, frameworks, templates, …

Rational Asset Manager Asset Definition

Requirement

Solution

variability point

Asset

Artifact

Artifact

Artifact

for one or more contexts

with instructions for usage

What is a Community?

- A community is a target audience for assets.

- A community may produce, consume, and manage assets.

- A community may be aligned on organizational boundaries, or for a role, or a project, and so forth.

- Asset may be shared amongst communities.

Service Development Community	Business Analyst Community	Division X Community

Asset Governance Process
Roles and Their Activities For Establishing Asset Governance

Asset-based Development Manager

Create Asset Governance Board
Define Asset Gov and Dev Org
Determine Metrics to Track — **Metrics and reporting**

...

Review and approval

Asset Governance Board

Information Model

Define Asset Review Workflows
Define Asset Types
Specify Asset Version Strategy

...

Asset Versioning

Apply the asset governance process to define the policies and artifacts for implementing governance in the repository.

Best practice

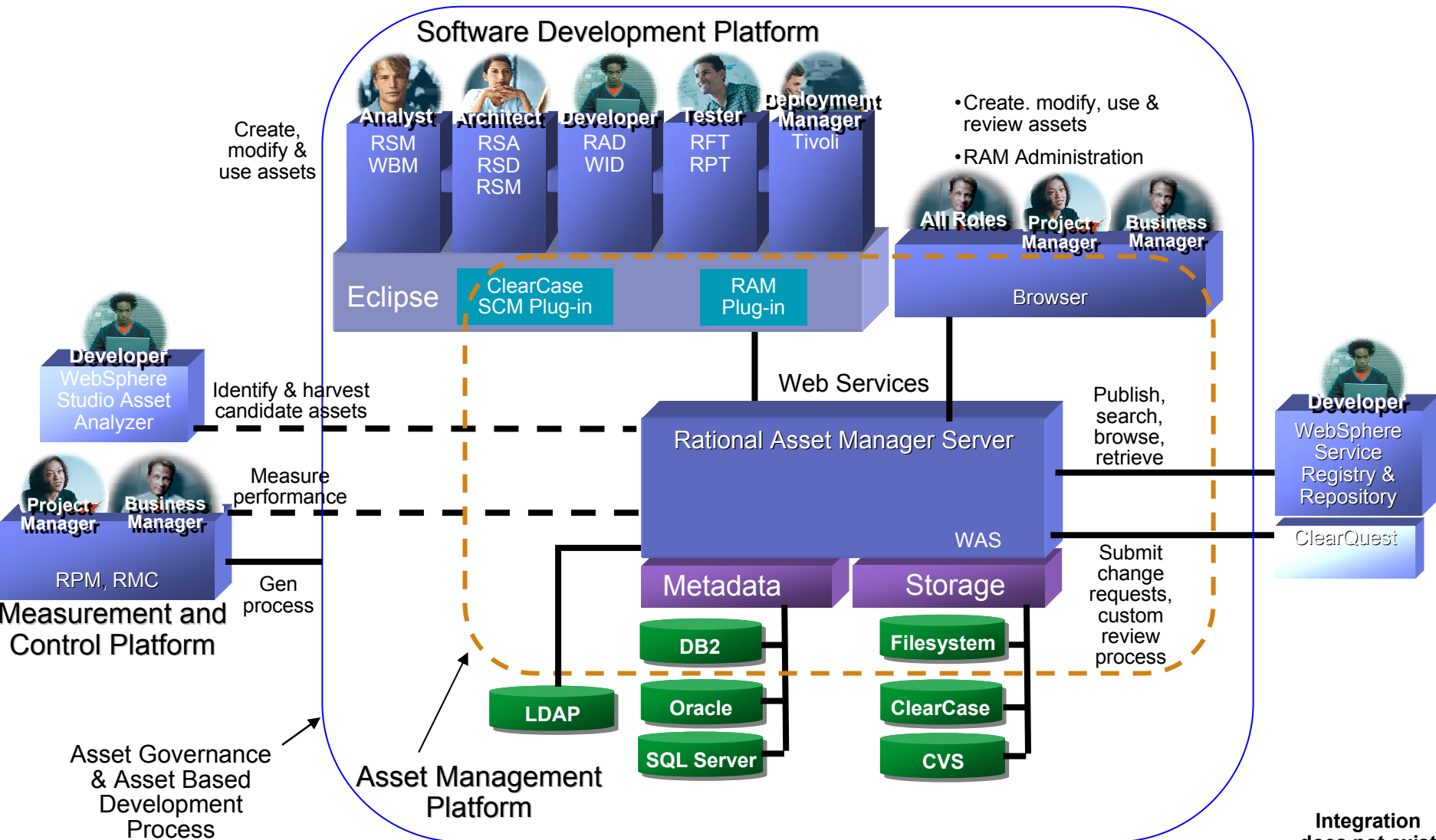**Asset-based Development Administrator**

Notification, Subscriptions

Determine Tools to Support ABD
Specify Repository Community

Communities, Access control

Preparing for Rational Asset Manager governance

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Rational Asset Manager Architecture

Software Development Platform

Create, modify & use assets

Analyst
RSM
WBM

Architect
RSA
RSD
RSM

Developer
RAD
WID

Tester
RFT
RPT

Deployment Manager
Tivoli

- Create. modify, use & review assets
- RAM Administration

All Roles   **Project Manager**   **Business Manager**

Eclipse | ClearCase SCM Plug-in | RAM Plug-in | Browser

Developer
WebSphere Studio Asset Analyzer

Identify & harvest candidate assets

Web Services

Rational Asset Manager Server

Publish, search, browse, retrieve

Developer
WebSphere Service Registry & Repository

Measure performance

WAS

Submit change requests, custom review process

ClearQuest

Project Manager   **Business Manager**

RPM, RMC

Gen process

Measurement and Control Platform

Metadata

Storage

DB2

Filesystem

Oracle

ClearCase

SQL Server

CVS

LDAP

Asset Governance & Asset Based Development Process

Asset Management Platform
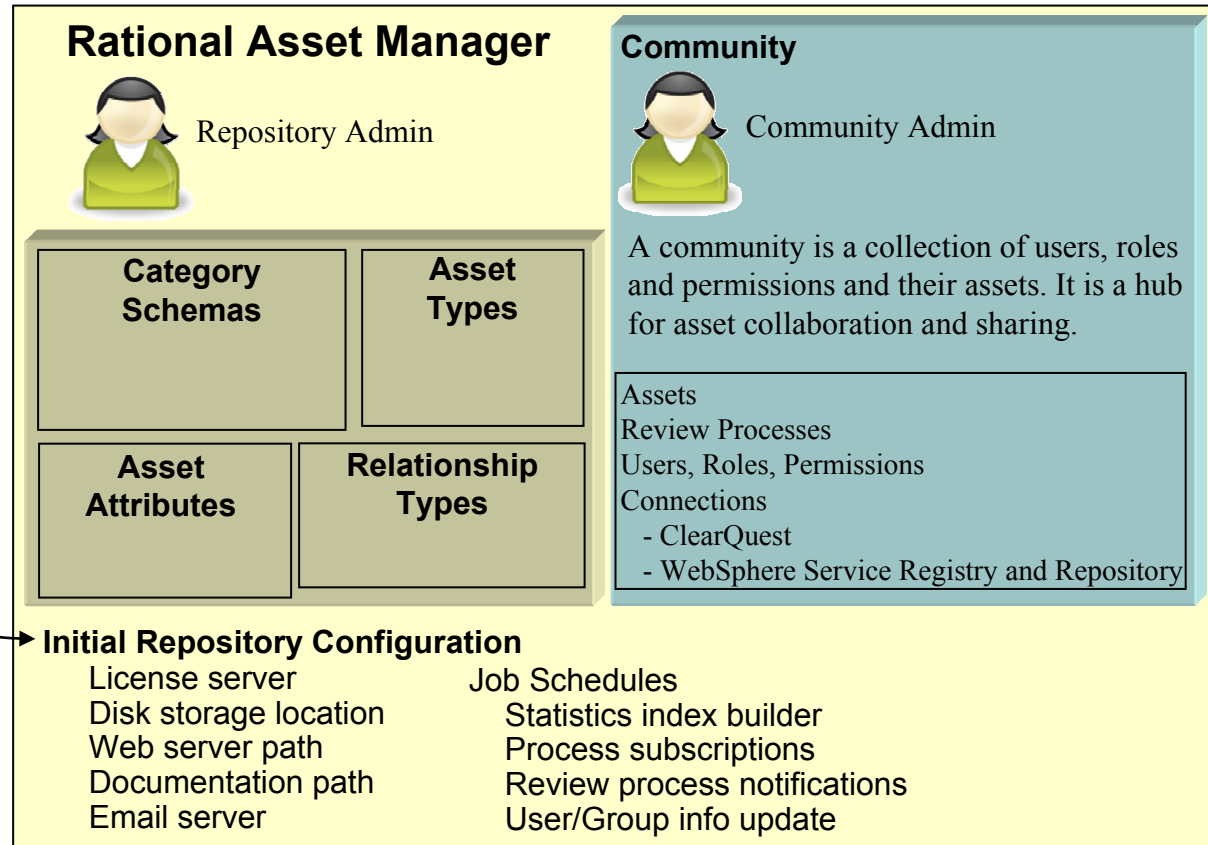
Integration does not exist

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance

  ▸ Getting Started

  ▸ Information Model

  ▸ Asset Versioning

  ▸ Communities

  ▸ Metrics and reporting

  ▸ Notification, Subscriptions

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering

Getting Started

- The initial repository configuration gets Rational Asset Manager running and optimized for notifications

- Additional configuration to support asset governance are addressed next

Rational Asset Manager

Repository Admin

Category Schemas	Asset Types
Asset Attributes	**Relationship Types**

Community

Community Admin

A community is a collection of users, roles and permissions and their assets. It is a hub for asset collaboration and sharing.

Assets
Review Processes
Users, Roles, Permissions
Connections
- ClearQuest
- WebSphere Service Registry and Repository

Initial Repository Configuration

License server
Disk storage location
Web server path
Documentation path
Email server

Job Schedules
Statistics index builder
Process subscriptions
Review process notifications
User/Group info update

Demo: RAM overview, Tools & Config pages
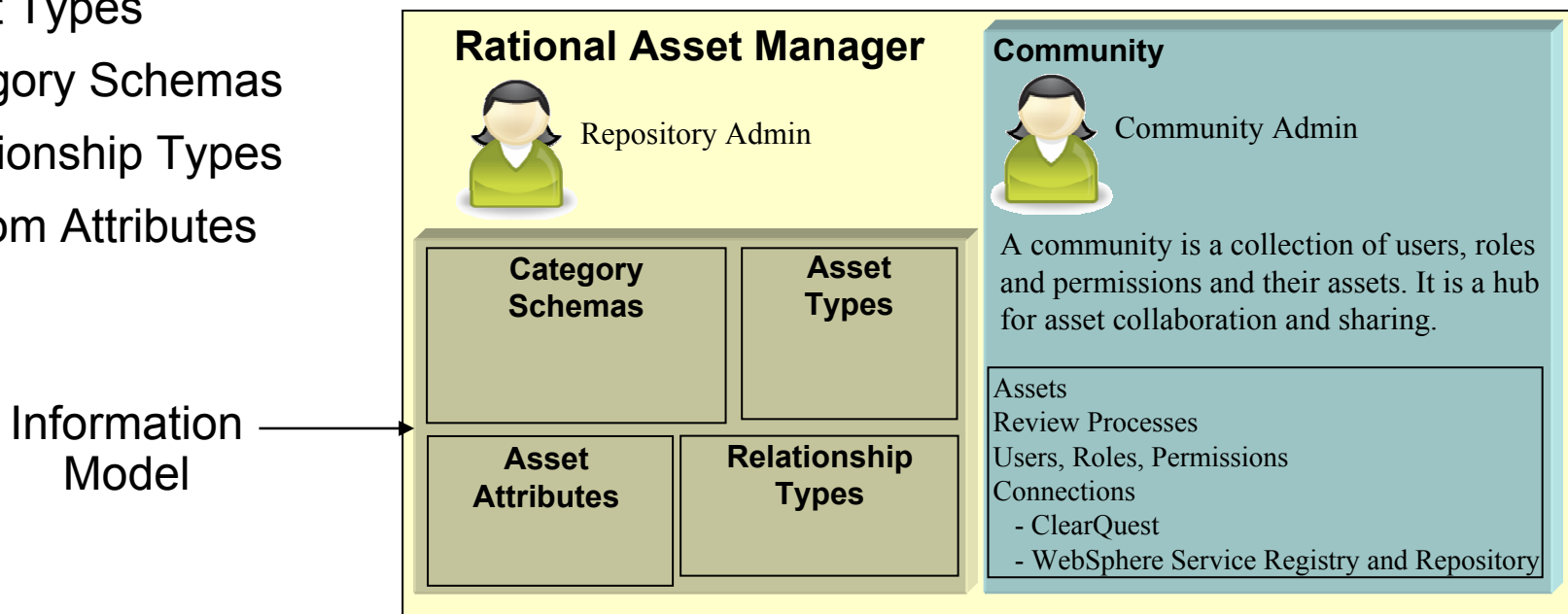
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Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
  - ▶ Getting Started
  - ▶ Information Model
    - Asset Types
    - Category Schemas
    - Relationship Types
    - Custom Attributes
    - Import / Export
  - ▶ Asset Versioning
  - ▶ Communities
  - ▶ Metrics and reporting
  - ▶ Notification, Subscriptions

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering
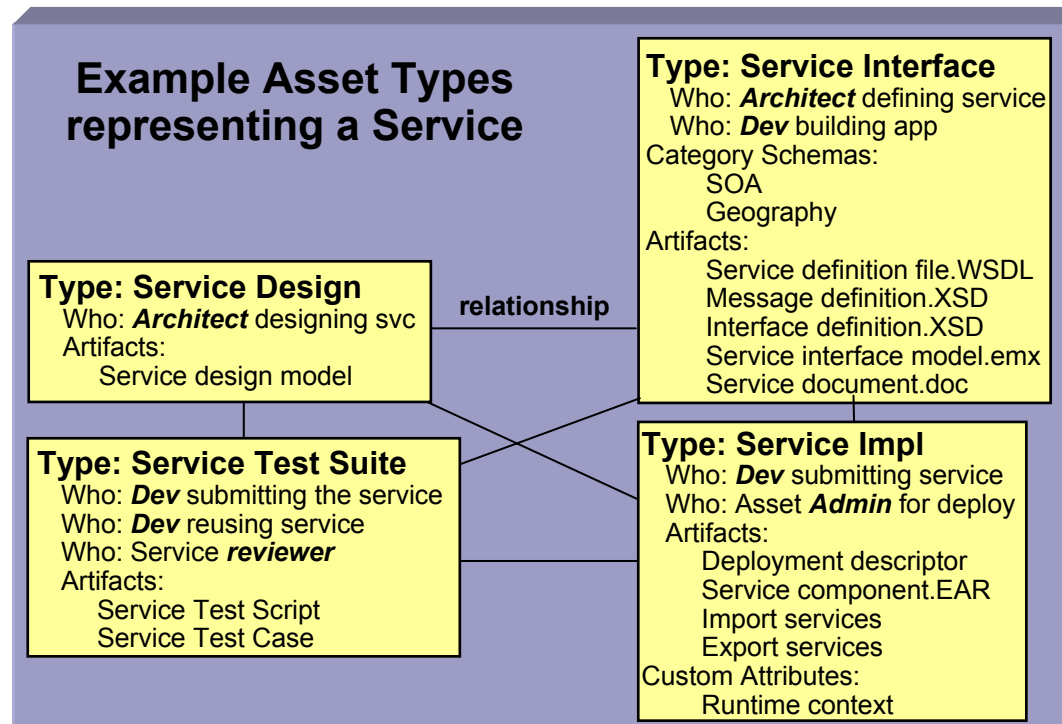
What keeps me **Rational**?

Information Model

- The Rational Asset Manager repository is configurable to govern the assets that are relevant your organization

- This configuration is done at the repository level

- The communities use this information model to configure access

- This is done by defining your

  ▸ Asset Types
  ▸ Category Schemas
  ▸ Relationship Types
  ▸ Custom Attributes

Information Model

Rational Asset Manager

Repository Admin

Category Schemas

Asset Types

Asset Attributes

Relationship Types

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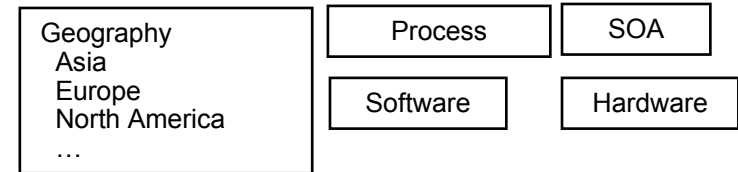 - WebSphere Service Registry and Repository

Information Model: Asset Types

- An asset type describes the structure of assets

- An asset is of one asset type

- When defining asset types, do so from the perspective of the target asset consumer **Best practice**

Example Asset Types representing a Service

Type: Service Design
Who: *Architect* designing svc
Artifacts:
    Service design model

relationship

Type: Service Interface
  Who: *Architect* defining service
  Who: *Dev* building app
Category Schemas:
    SOA
    Geography
Artifacts:
    Service definition file.WSDL
    Message definition.XSD
    Interface definition.XSD
    Service interface model.emx
    Service document.doc

Type: Service Test Suite
Who: *Dev* submitting the service
Who: *Dev* reusing service
Who: Service *reviewer*
Artifacts:
    Service Test Script
    Service Test Case

Type: Service Impl
  Who: *Dev* submitting service
  Who: Asset *Admin* for deploy
  Artifacts:
    Deployment descriptor
    Service component.EAR
    Import services
    Export services
Custom Attributes:
    Runtime context

Information Model: Category Schemas

- Category schemas are a form of communication

- A perspective or view of the business or technical domain or …

- Used by asset consumers to discover assets

- Are captured in a basic tree structure

Geography
  Asia
  Europe
  North America
  …
	Process	SOA

	Software	Hardware

- Used to constrain

  ▸ Asset Types

  ▸ Review Processes

  ▸ Roles

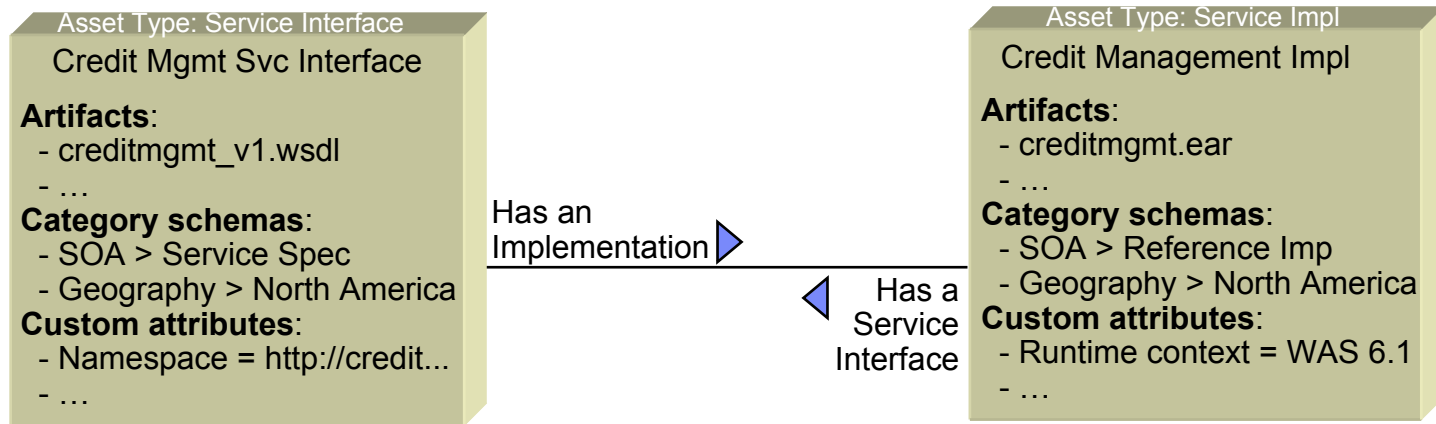- When defining category schemas, do so from the perspective of asset consumers and other stakeholders   **Best practice**

Information Model: Relationship Types

- Asset relationships are bi-directional

- Each relationship end has a type

Asset Type: Service Interface
Credit Mgmt Svc Interface

Artifacts:
- creditmgmt_v1.wsdl
- …
Category schemas:
- SOA > Service Spec
- Geography > North America
Custom attributes:
- Namespace = http://credit...
- …

Has an Implementation ▷

◁ Has a Service Interface

Asset Type: Service Impl
Credit Management Impl

Artifacts:
- creditmgmt.ear
- …
Category schemas:
- SOA > Reference Imp
- Geography > North America
Custom attributes:
- Runtime context = WAS 6.1
- …

- When defining the relationship type in the repository, define both ends

- Relationship Types can be used as constraints on Asset Types

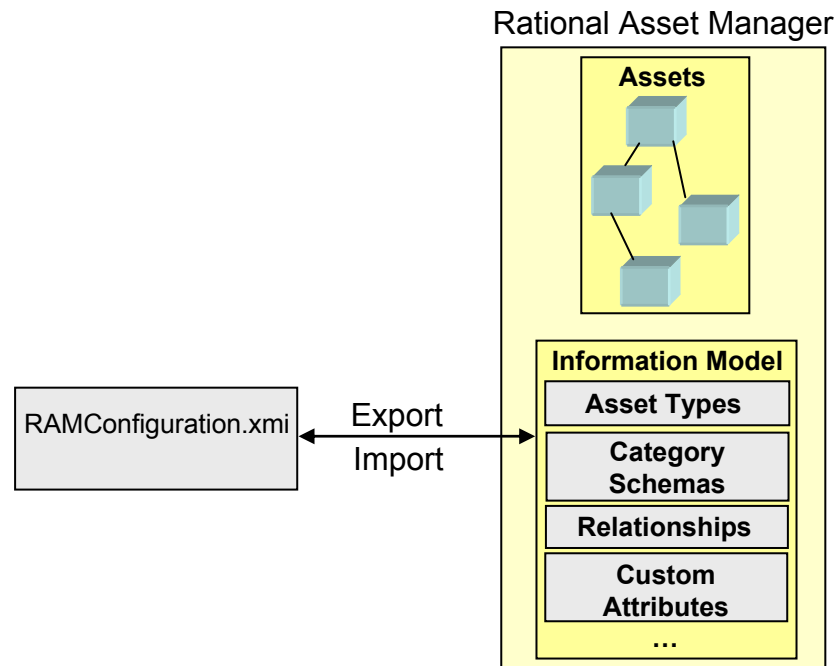# Information Model: Custom Attributes

- The core metadata elements for assets in the repository are defined by RAS (Reusable Asset Specification)
  - ▶ This is extended using Asset Types
  - ▶ Which adds constraints on artifacts, relationships as well as category schemas

- Custom Attributes are metadata elements which contain either strings or pre-defined lists

- They are defined at the repository level

- They are associated with Asset Types, and may be required or optional on the Asset Type
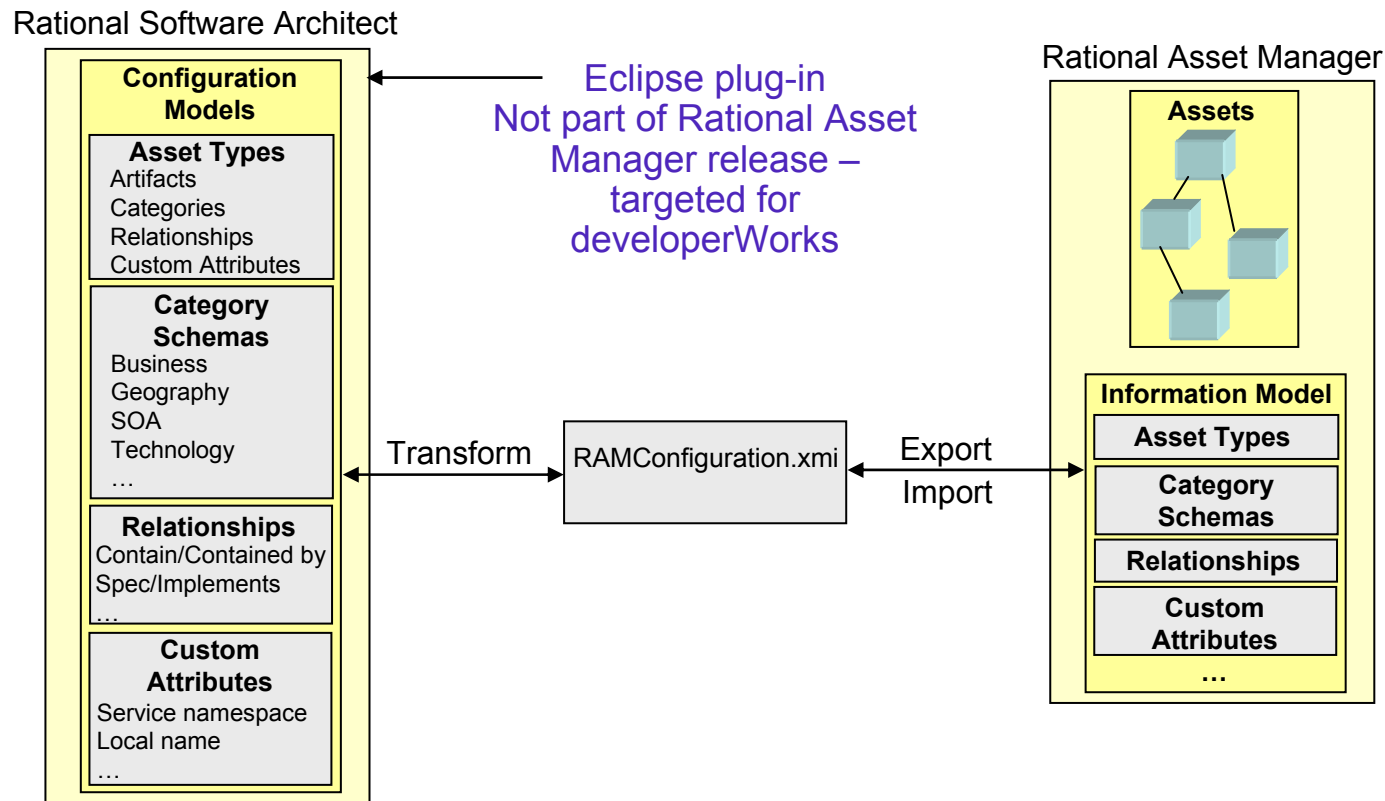
Demo: Info Model

Information Model: Import / Export

- The key elements of the information model can be imported and exported

- The repository administrator performs the import/export

- This allows for exchanging and external manipulation of the information model

Rational Asset Manager

Assets

RAMConfiguration.xmi	Export Import

Information Model

Asset Types

Category Schemas

Relationships

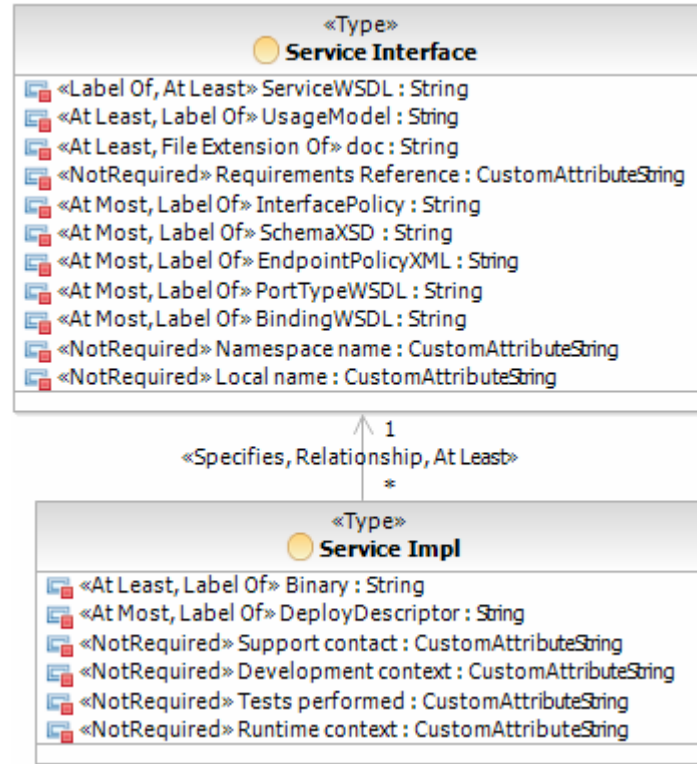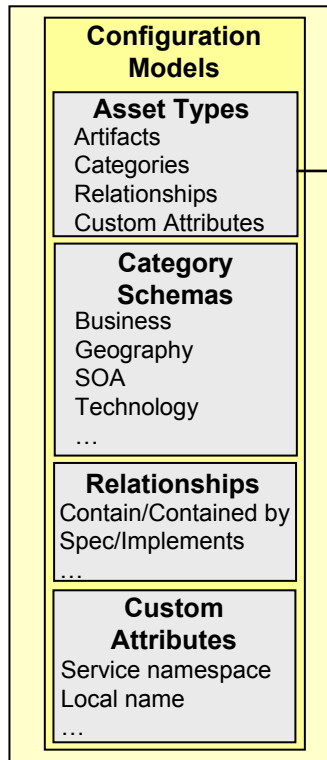**Custom Attributes**

...

Information Model: Import / Export

- Visualize and socialize a RAM information model using an RSA model

- Run a transform which produces XMI file to be imported into RAM

Rational Software Architect

Configuration Models

Asset Types
Artifacts
Categories
Relationships
Custom Attributes

Category Schemas
Business
Geography
SOA
Technology
…

Relationships
Contain/Contained by
Spec/Implements
…

Custom Attributes
Service namespace
Local name
…

Eclipse plug-in
Not part of Rational Asset
Manager release –
targeted for
developerWorks

Rational Asset Manager

Assets

Transform

RAMConfiguration.xmi

Export
Import

Information Model

Asset Types

Category Schemas

Relationships

Custom Attributes

…

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Information Model: Import / Export

- Sample Asset Types in RSA model to configure the RAM information model

Rational Software Architect

Configuration Models

Asset Types
Artifacts
Categories
Relationships
Custom Attributes

Category Schemas
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SOA
Technology
…

Relationships
Contain/Contained by
Spec/Implements
…

Custom Attributes
Service namespace
Local name
…

«Type»
Service Interface
«Label Of, At Least» ServiceWSDL : String
«At Least, Label Of» UsageModel : String
«At Least, File Extension Of» doc : String
«NotRequired» Requirements Reference : CustomAttributeString
«At Most, Label Of» InterfacePolicy : String
«At Most, Label Of» SchemaXSD : String
«At Most, Label Of» EndpointPolicyXML : String
«At Most, Label Of» PortTypeWSDL : String
«At Most, Label Of» BindingWSDL : String
«NotRequired» Namespace name : CustomAttributeString
«NotRequired» Local name : CustomAttributeString

1
«Specifies, Relationship, At Least»
*

«Type»
Service Impl
«At Least, Label Of» Binary : String
«At Most, Label Of» DeployDescriptor : String
«NotRequired» Support contact : CustomAttributeString
«NotRequired» Development context : CustomAttributeString
«NotRequired» Tests performed : CustomAttributeString
«NotRequired» Runtime context : CustomAttributeString

Demo: Update Info
Model with RSA
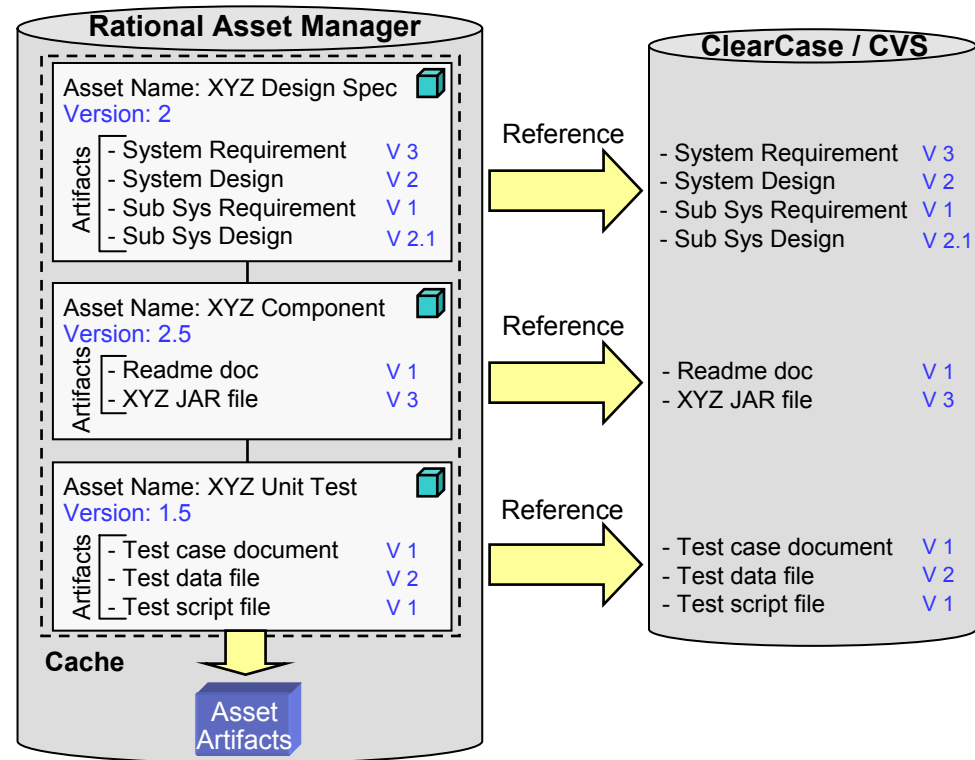
What keeps me **Rational**?

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Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
  - ▶ Getting Started
  - ▶ Information Model
  - ▶ **Asset Versioning**
  - ▶ Communities
  - ▶ Metrics and reporting
  - ▶ Notification, Subscriptions

- Sample SOA Catalog

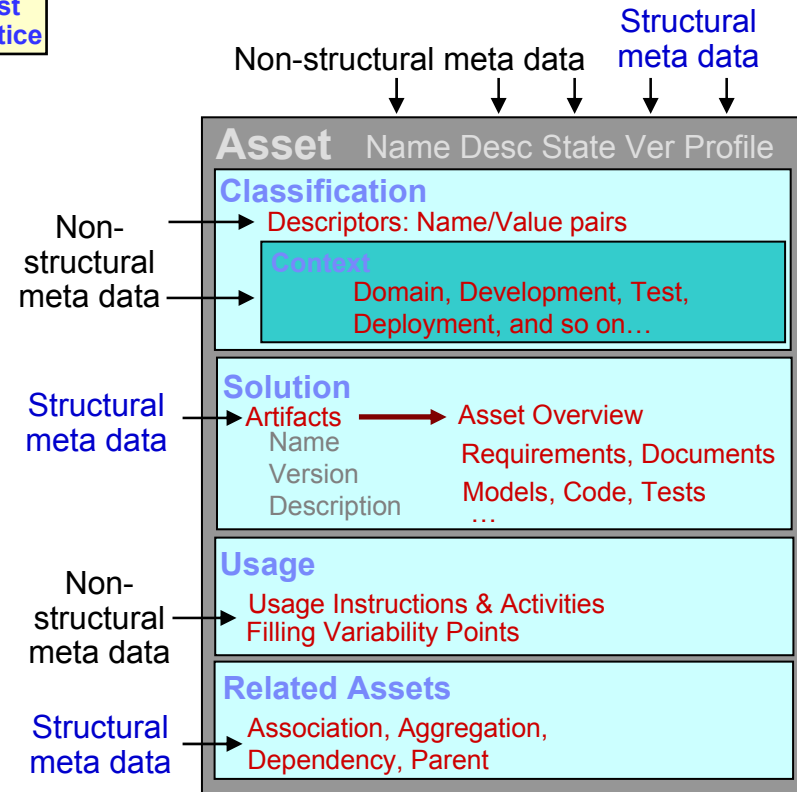- Rational Asset Manager Modular Service Offering

Asset Versioning

- **Every asset's artifacts is cached in the repository**

- **Versioning is handled at two levels**
  - ▶ Asset
  - ▶ Artifact

- **Asset**
  - ▶ Each asset can be versioned in the repository
  - ▶ Asset versioning is dictated by the policies of the organization

- **Artifact**
  - ▶ Asset artifacts can be also be located in ClearCase or CVS
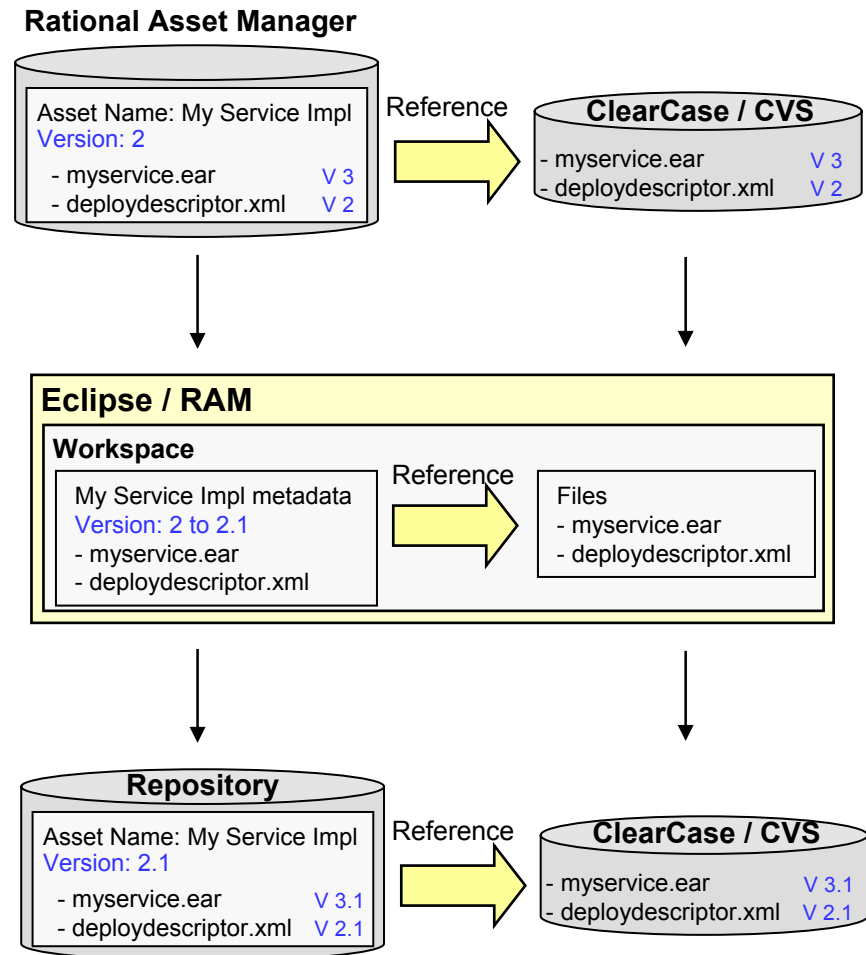 - ▶ Artifact versioning is handled by ClearCase or CVS

Rational Asset Manager

Asset Name: XYZ Design Spec
Version: 2
Artifacts
- System Requirement   V 3
- System Design   V 2
- Sub Sys Requirement   V 1
- Sub Sys Design   V 2.1

Asset Name: XYZ Component
Version: 2.5
Artifacts
- Readme doc   V 1
- XYZ JAR file   V 3

Asset Name: XYZ Unit Test
Version: 1.5
Artifacts
- Test case document   V 1
- Test data file   V 2
- Test script file   V 1

Cache

Asset Artifacts

Reference

Reference

Reference

ClearCase / CVS

- System Requirement   V 3
- System Design   V 2
- Sub Sys Requirement   V 1
- Sub Sys Design   V 2.1

- Readme doc   V 1
- XYZ JAR file   V 3

- Test case document   V 1
- Test data file   V 2
- Test script file   V 1

What keeps me **Rational**?

Asset Versioning Policy

- Identify what kinds of changes to an asset require a new asset version to be created

  Best practice

- For example, one approach to consider is to define structural changes versus non-structural changes

- Structural changes would **require** a new asset version, non-structural changes would not require a new asset version

- Structural changes

  ▶ Asset name(?), version, changes to artifacts or new artifacts, relationships

- Non-structural changes

  ▶ Asset name(?), description, classification, and supporting artifacts (readme files, …)

- Determine these policies early and communicate them

Non-structural meta data   Structural meta data

Asset   Name Desc State Ver Profile

Classification
Descriptors: Name/Value pairs

Non-structural meta data →

Context
Domain, Development, Test, Deployment, and so on…

Solution
Structural meta data → Artifacts → Asset Overview
Name
Version   Requirements, Documents
Description   Models, Code, Tests
                         …

Usage
Non-structural meta data → Usage Instructions & Activities
Filling Variability Points

Related Assets
Structural meta data → Association, Aggregation, Dependency, Parent

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Modify an Asset – Create a New Asset Version

- Find an asset in RAM

- Import the asset into Eclipse / RAM
  - ▸ Select branch on which to import asset
  - ▸ Asset artifacts populated in Eclipse workspace

- Modify asset
  - ▸ Artifacts / Files
  - ▸ Metadata

- According to asset versioning policy
  - ▸ Change asset version #

- Update asset (submit to RAM)
  - ▸ Asset artifacts checked in
  - ▸ Metadata references updated

Rational Asset Manager

Asset Name: My Service Impl
Version: 2
- myservice.ear   V 3
- deploydescriptor.xml   V 2

Reference →

ClearCase / CVS
- myservice.ear   V 3
- deploydescriptor.xml   V 2

Eclipse / RAM

Workspace

My Service Impl metadata
Version: 2 to 2.1
- myservice.ear
- deploydescriptor.xml

Reference →

Files
- myservice.ear
- deploydescriptor.xml

Repository

Asset Name: My Service Impl
Version: 2.1
- myservice.ear   V 3.1
- deploydescriptor.xml   V 2.1

Reference →

ClearCase / CVS
- myservice.ear   V 3.1
- deploydescriptor.xml   V 2.1

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Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
  - ▸ Getting Started
  - ▸ Information Model
  - ▸ Asset Versioning
  - ✓ ▸ Communities
    - Access control
    - Review and approval
    - Repository Configuration Community
    - Change management
    - Service registry
  - ▸ Metrics and reporting
  - ▸ Notification, Subscriptions

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering

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Create Communities, Roles & Access Control

Business Analyst

Analyst Community

Access Control:
search, read, browse, download, update all assets in Analyst Community

Asset Owner

Reviewer

Service Dev Community

Access Control:
search, read, browse, download, update all assets in Service Dev Community

Claims Processing Community

Architect/ Developer

Access Control:
search, read, browse, download, update all assets in Claims Processing and Analyst Community

Community Admin

Access Control:
full entitlement across all assets in one or more Communities

A Community is a collection of users, their roles and permissions, and their assets and review processes

Criteria For Creating A Community

- You create a community when you identify a target audience which has (or wants to use) assets which need to be governed. **Best practice**

- The community may be built along many different boundaries.
  - ▸ *Organization*: you may create a community based on the organization chart.
  - ▸ *Role*: you may create a community based on some common role (Analyst) that crosses organizational boundaries.
  - ▸ *Project*: you may create a community based on a project, or initiative, although this is often a less permanent boundary, the overhead and organization may be justified.

Access Control

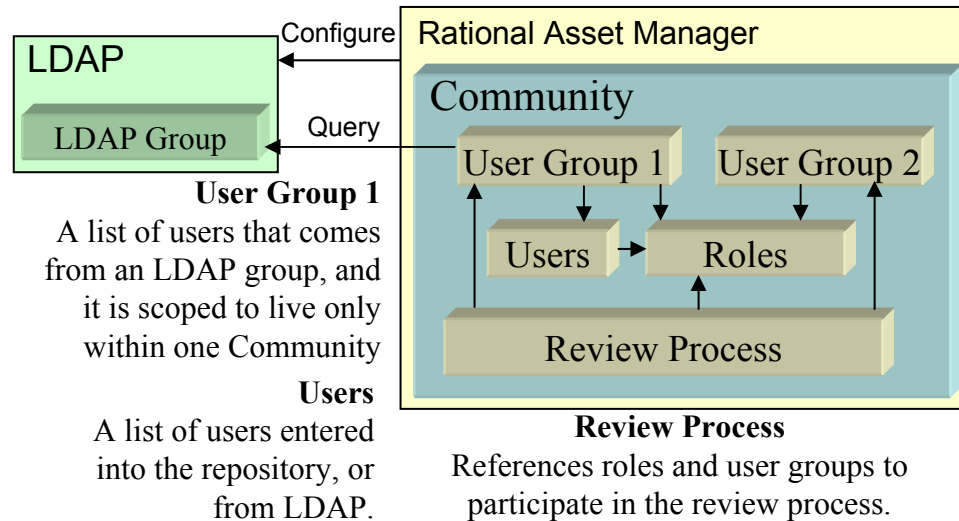Access control defines what you can do in the repository and with what assets you can work.

Jill in the Role of Business Analyst in the Analyst Community

Jill in the Role of Tester in the Service Testing Community can access assets of type Test

Rational Asset Manager

Analyst Community

Role: Business Analyst

Permissions	**Constraints**
Create	Asset Type = Business Process
Update	Category Schema = Financial Services
Search	

User Group A

User: Jill

Asset Type: Business Process
Open Account Process
Artifacts:
- Business Process Model
Category schemas:
- Financial Services > …

Asset Type: Business Process
To Be: Sales Management
Artifacts:
- Business Process Model
Category schemas:
- Business Planning > …

Cannot access

Service Testing Community

User Group B

User: Jill

Role: Tester

Permissions	**Constraints**
Create	Asset Type = Test
Update	
Search	

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Rational Asset Manager Community Users and Roles

- The community defines the user groups, roles, and permissions.

LDAP

LDAP Group

Configure

Query

Rational Asset Manager

Community

User Group 1

User Group 2

Users

Roles

Review Process

User Group 1
A list of users that comes from an LDAP group, and it is scoped to live only within one Community

Users
A list of users entered into the repository, or from LDAP.

Review Process
References roles and user groups to participate in the review process.

User Group 2
A list of users that entered into the repository, and it is scoped to live only within one Community

Roles
A list of roles and their permissions, and it is scoped within one Community

There are default "users" added to a new community.

Name	Roles		
All users		Edit roles	
Signed-in users		Edit roles	
Bill Walker	Architect Service Developer	Edit roles	Remove
Jill Allred	Service Metadata Maintainer	Edit roles	Remove
Peter Jensen	Administrator Service Dev Manager	Edit roles	Remove

Configuring LDAP

- The LDAP connection is configured at the repository level.

- If a connection is configured to LDAP, then each community can connect via a query for a specific user group.

- All queries use the single LDAP connection.

LDAP → Configure → Rational Asset Manager

Community
- User Group 1
- User Group 2
- Users → Roles
- Review Process

LDAP Group ← Query
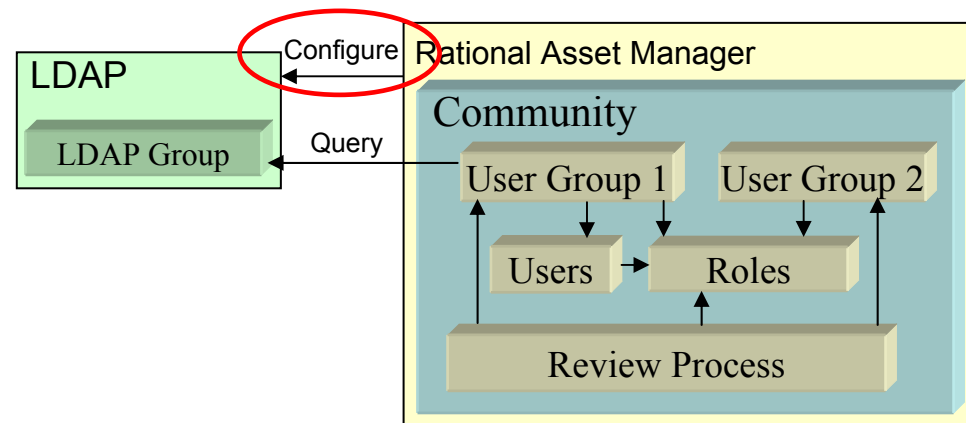
Class Configuration: com.ibm.ram.repository.custom.LDAPUserInformationFactory

LDAP server's URL:	ldap://<url>:389
User's distinguished name:	(rdn),(rdn),(rdn)…
	User's distinguished name to use when accessing the LDAP server
User's password:	
User's unique ID property:	uid
	Which property designates the user's unique identifier. This may not be the same as the login id
User's login ID property:	mail
User's phone number property:	telephonenumber
User's e-mail property:	mail
LDAP user base searching:	(rdn),(rdn)…
	When searching a user, where to start the search from
User search filter:	(&(objectclass=person)(|(mail=%v)(cn=%v)))
	This is the LDAP search query for a user. %v designates the search input
LDAP group base search:	(rdn),(rdn)
	When searching for a Group, where to start the search from
Group search filter:	(&(|(objectclass=groupOfUniqueNames)(objectclass=
	This is the LDAP search query for a group. %v designates the search input
Image URL template:	https://<ImageServer url>/photo/${uid}.jpg
	RAM can form a url to point to a user's photo. You can use ${value} to construct a URL, where 'value' represents an LDAP user property

Update Configuration   Cancel

Configuring Roles

- Roles are defined per community.

- There are some default roles added to a new community.

- Roles are used by other items
  - ▸ Users
  - ▸ User Groups
  - ▸ Review Processes

Configure

LDAP

LDAP Group

Query

Rational Asset Manager

Community

User Group 1   User Group 2

Users   Roles

Review Process

Users	User Groups	**Roles**

Modify, add, or remove the roles of me

☑ ☐	Role
	🔋 Administrator
	🔋 Asset Owner
	🔋 Asset Review Board
	🔋 Asset Reviewer
☐	👤 Asset Consumer
☐	👤 Asset Producer

Delete Roles | New Role...
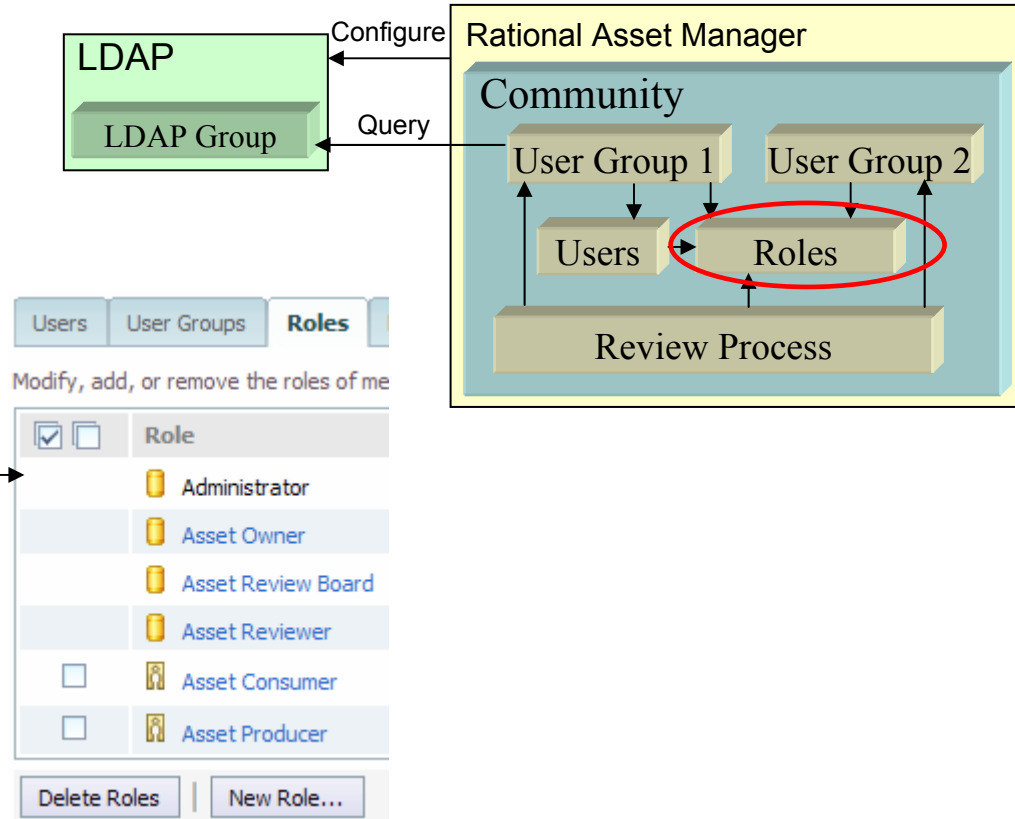
Configuring Roles (2)

- On each role identify the permissions.

- You can constrain the permissions by asset type, and asset category

Community Role

Define a role that can be applied to members in this community.

Name: Asset Consumer

Description: Can browse and download assets.

Role Permissions

Check the permissions that this role assumes in this community.

☑ ☐	Permission	Description
☑	Browse assets	Users can browse the asset,
☐	Create assets	Users can create new assets
☐	Delete assets	Users can permanently delete
☑	Download assets	Users can download assets. I
☑	Read asset details	Users can view asset details
☑	Search assets	Users can search for assets.
☑	Subscribe to assets	Users can subscribe to assets
☐	Update assets	Users can update assets.

Role Scopes

Constrain the scope of the role by making permissions apply only to assets of specific types, classifications, or own

Applies to assets that match: ⦿ All of the following   ◯ At least one of the following
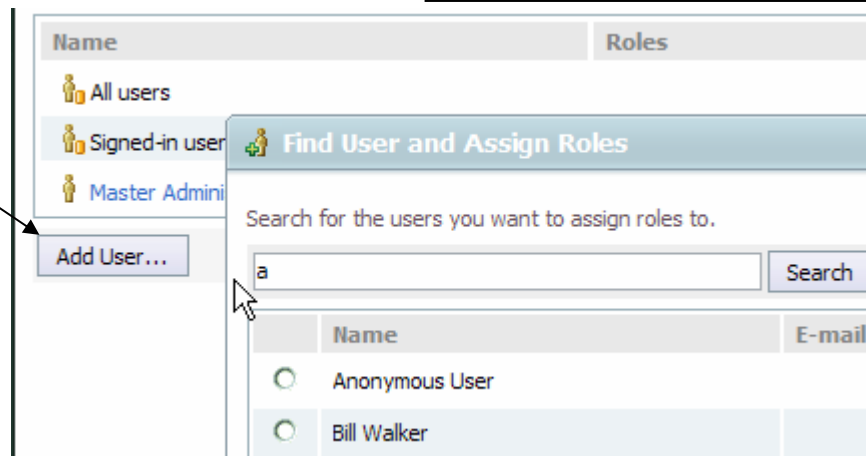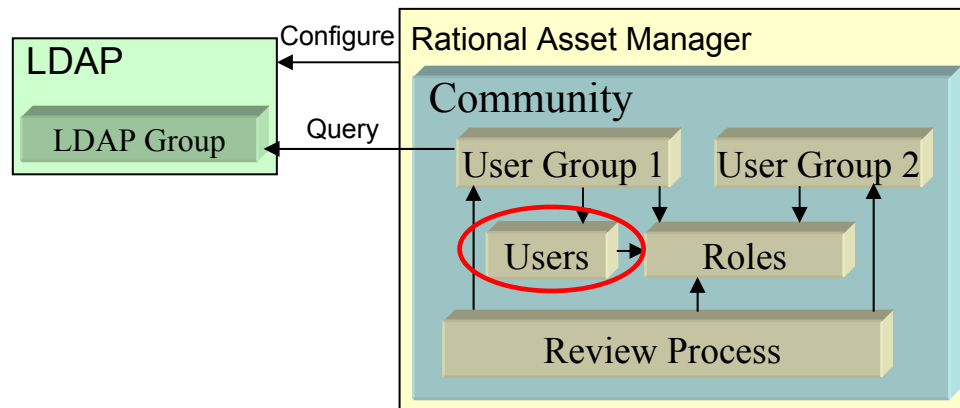
☑ ☐	Type	

| Remove Constraints | | Asset type ▾ | must be ▾ | Service Impl ▾ | Add Constraint |

Configuring Users

- Clicking the "Add User…" button assigns roles to a user.

  ▸ Users can be created manually in RAM, they register with RAM and the container manages security.

  ▸ Users can be retrieved from LDAP queries on User Groups.

- A User is assigned roles and permissions within a community. A user can have multiple roles.
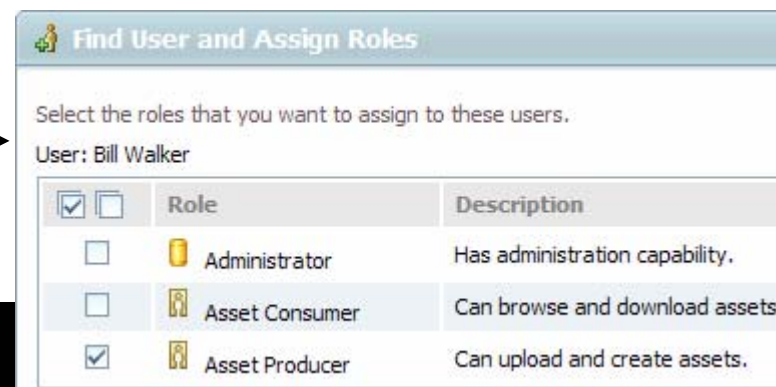
Configuring User Groups

- User Groups can be populated by manually adding Users.

- User Groups can be populated with Users retrieved from binding to an LDAP query.

- Users in User Groups are mapped to roles.

- The users in a User Group have the same roles and permissions for a particular community.
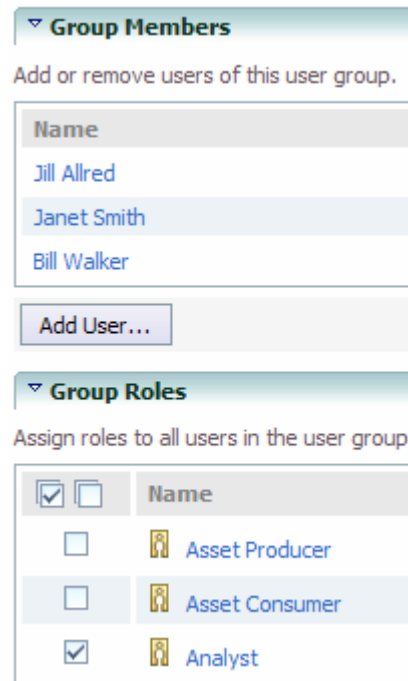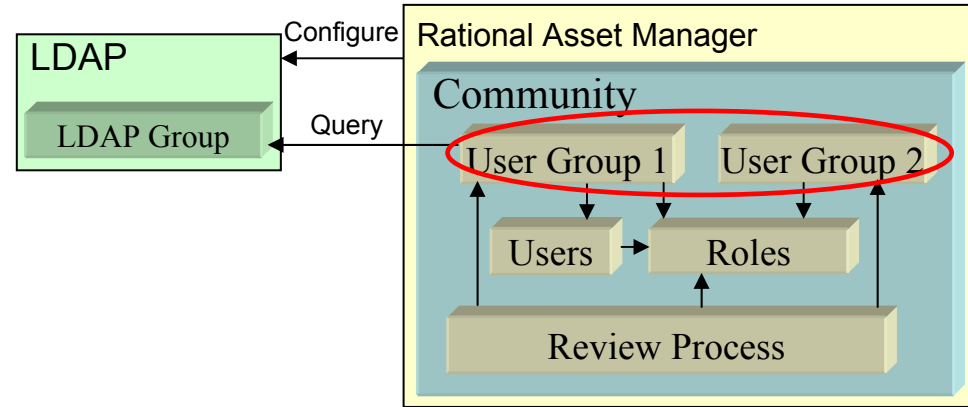
Demo: Communities, …

Community for "Repository Configuration"

- When users come to the repository they often don't understand many things about the repository
  - ▸ Information Model, Communities, Access Control, Asset Versioning Policy, …

- A **best practice** to consider is to create a community called "Repository Configuration" | Best practice |

- Configure all authenticated users as Asset Consumers to this community

- Create an Asset Type called "Policy"

- Populate community with assets such as
  - ▸ Repository configuration overview
  - ▸ Asset version policy
  - ▸ Category schemas
  - ▸ Workflows and review processes ◀—— These assets are workproducts from the Asset Governance process
  - ▸ Asset type specifications
  - ▸ Community map

Demo: Repos Config Community
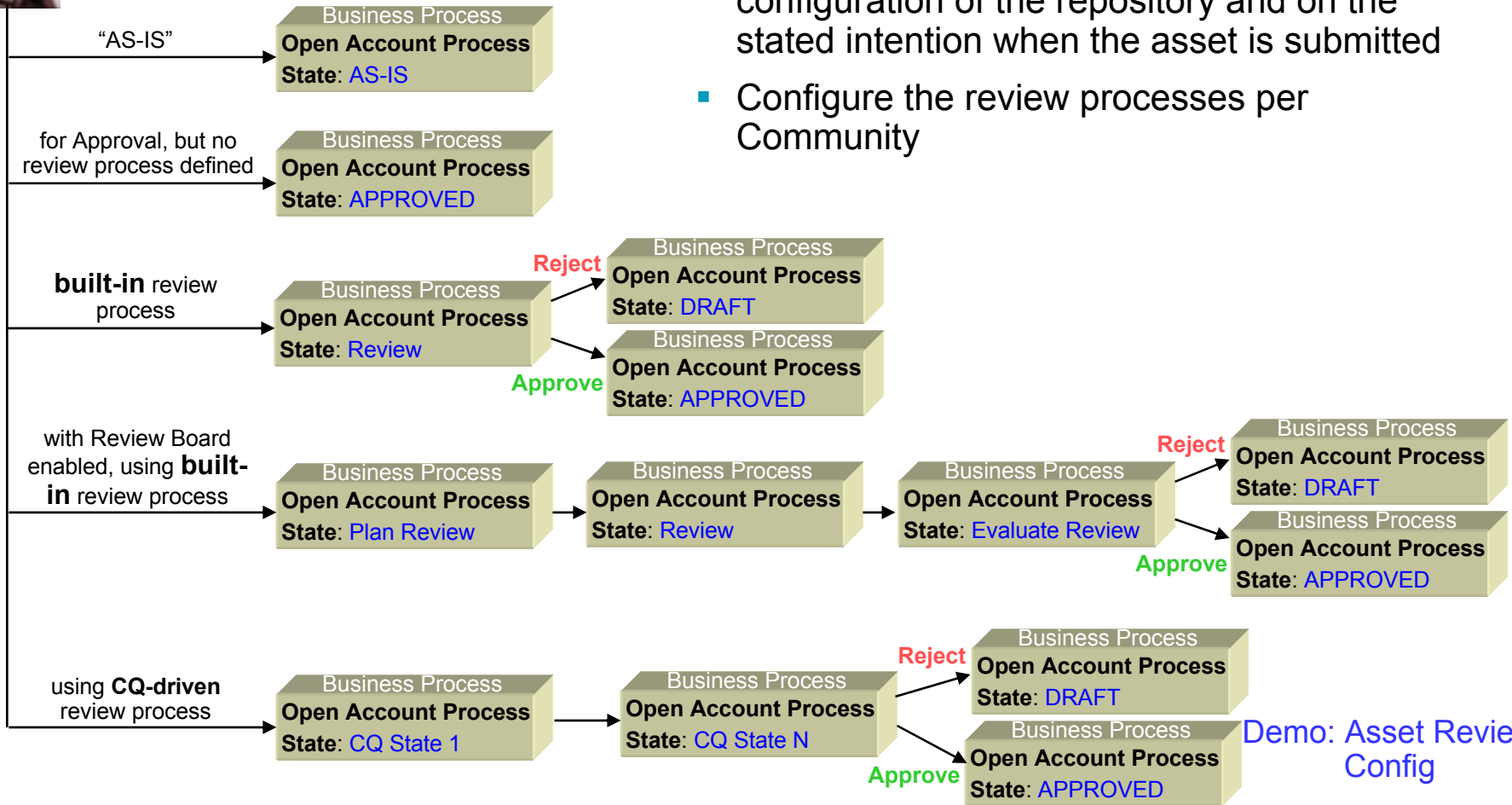
What keeps me **Rational**?

Asset Review Processes

User: Jill

Submit asset…

- There are several flows for review processes
- The flow selected depends on the configuration of the repository and on the stated intention when the asset is submitted
- Configure the review processes per Community

"AS-IS"

Business Process
Open Account Process
State: AS-IS

for Approval, but no review process defined

Business Process
Open Account Process
State: APPROVED

built-in review process

Business Process
Open Account Process
State: Review

Reject

Business Process
Open Account Process
State: DRAFT

Approve

Business Process
Open Account Process
State: APPROVED

with Review Board enabled, using **built-in** review process

Business Process
Open Account Process
State: Plan Review

Business Process
Open Account Process
State: Review

Business Process
Open Account Process
State: Evaluate Review

Reject

Business Process
Open Account Process
State: DRAFT

Approve

Business Process
Open Account Process
State: APPROVED

using **CQ-driven** review process

Business Process
Open Account Process
State: CQ State 1

Business Process
Open Account Process
State: CQ State N

Reject

Business Process
Open Account Process
State: DRAFT

Approve

Business Process
Open Account Process
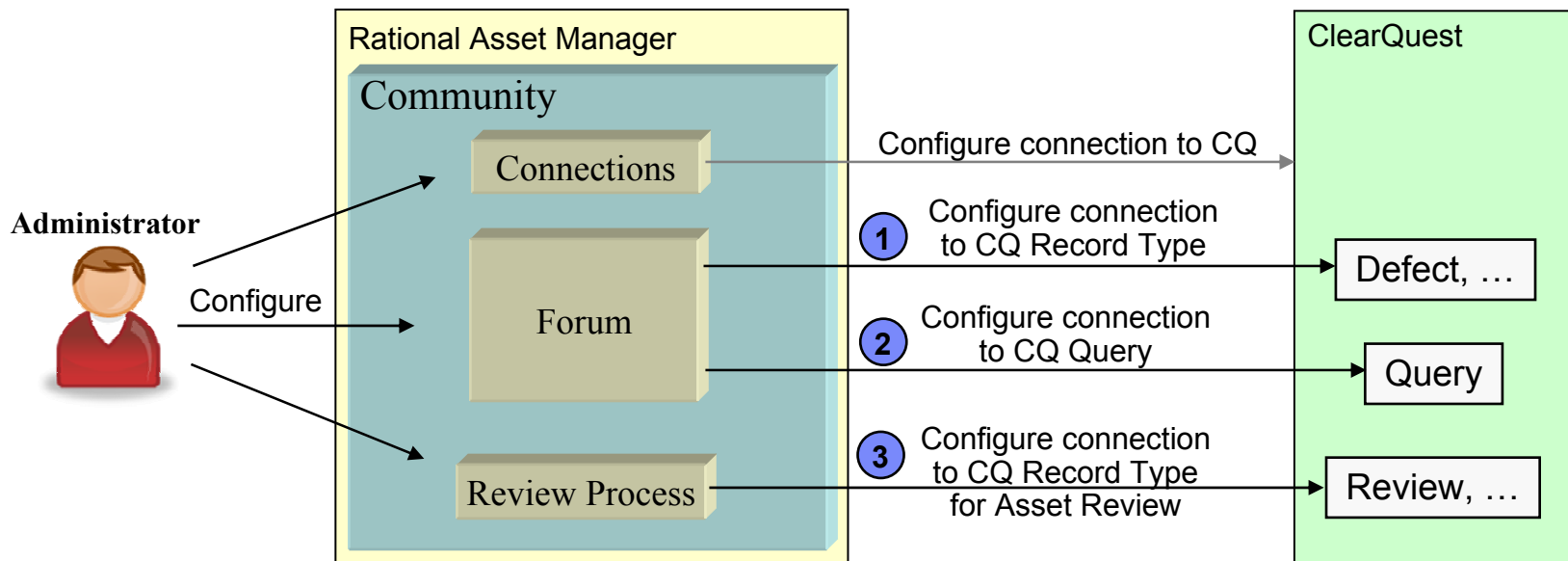**State**: APPROVED

Demo: Asset Review Config
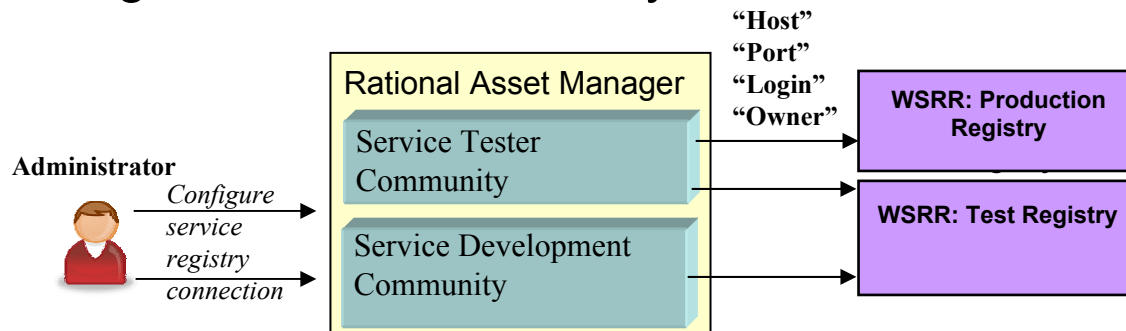
What keeps me **Rational**?

CRM8

Change Management

- Integrates with ClearQuest (CQ) to track defects on assets

- CQ connections are configured per community

- CQ fields are mapped to RAM fields

Service Registry

- The connection to WebSphere Service Registry and Repository (WSRR) is configured in the community

Administrator

Configure service registry connection

Rational Asset Manager

Service Tester Community

Service Development Community

"Host"
"Port"
"Login"
"Owner"

WSRR: Production Registry

WSRR: Test Registry

- The service documents are published from RAM to WSRR
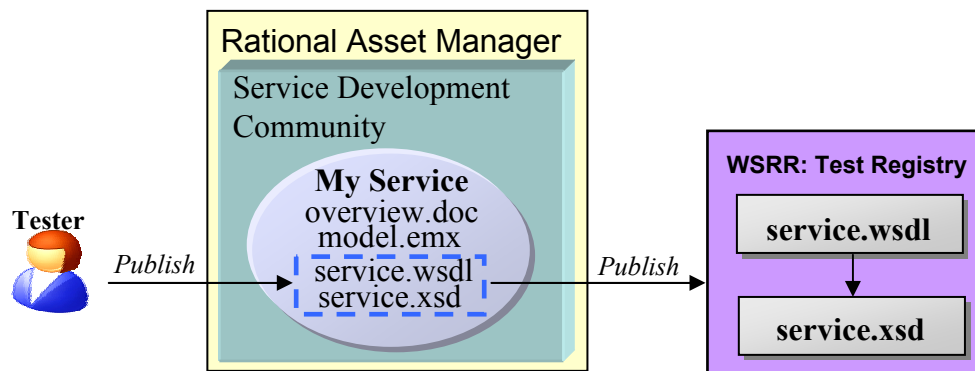
Rational Asset Manager

Service Development Community

Tester

Publish

My Service
overview.doc
model.emx
service.wsdl
service.xsd

Publish

WSRR: Test Registry

service.wsdl

service.xsd

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
  - ▶ Getting Started
  - ▶ Information Model
  - ▶ Communities
  - ▶ Metrics and reporting
  - ▶ Notification, Subscriptions

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering

What keeps me **Rational**?

CRM8

Metrics and Reporting

- Rational Asset Manager manages usage metrics at two levels
  - ▶ Asset
  - ▶ Repository

- Asset metrics are viewed in Eclipse and Web clients by administrators and other users
  - ▶ Amount of time to produce an asset
  - ▶ Expected time to reuse and asset
  - ▶ Total downloads
  - ▶ Average downloads for assets of given type
  - ▶ Unique downloads
  - ▶ Artifact browses

Metrics and Reporting (2)

- **Repository statistics**
  - ▸ Reports are viewed in Web client by administrators
  - ▸ Reports can be downloaded into .csv file formats

- **Reports**
  - ▸ Repository Contents ⟶
  - ▸ Asset Activity
  - ▸ User Activity
  - ▸ Search History
  - ▸ Activity Audit
    - ▪ Generate audit for up to 22 activities across date range
    - ▪ Who did what, when, on what asset
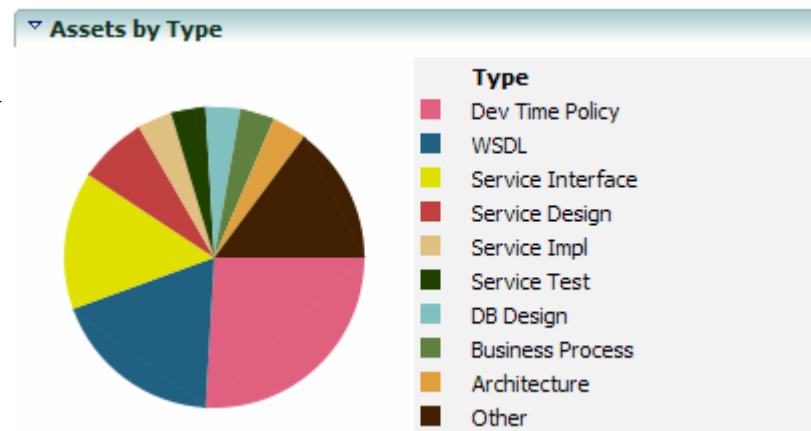
▽ **Assets by Type**

Type
- Dev Time Policy
- WSDL
- Service Interface
- Service Design
- Service Impl
- Service Test
- DB Design
- Business Process
- Architecture
- Other

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
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  - ▶ Communities
  - ▶ Metrics and reporting
  - ✔ ▶ Notification, Subscriptions
    - Notifications: RSS Feeds, Email
    - Subscriptions

- Sample SOA Catalog

- Rational Asset Manager Modular Service Offering

Notifications, Subscriptions

- Rational Asset Manager generates notifications for review processes

- Subscriptions
  ▸ Per asset
  ▸ Per search criteria
  ▸ Notifications sent on periodic basis

- RSS Feeds
  ▸ Per asset
  ▸ Per search criteria
  ▸ Notifications sent per event to RSS reader

Demo: Metrics, Subscriptions

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
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  - ▸ Metrics and reporting
  - ▸ Notification, Subscriptions
    - Subscriptions
    - Notifications: RSS Feeds, Email

- **Sample SOA Catalog**

- Rational Asset Manager Modular Service Offering

Sample SOA Catalog

- The catalog contains repository configuration and assets

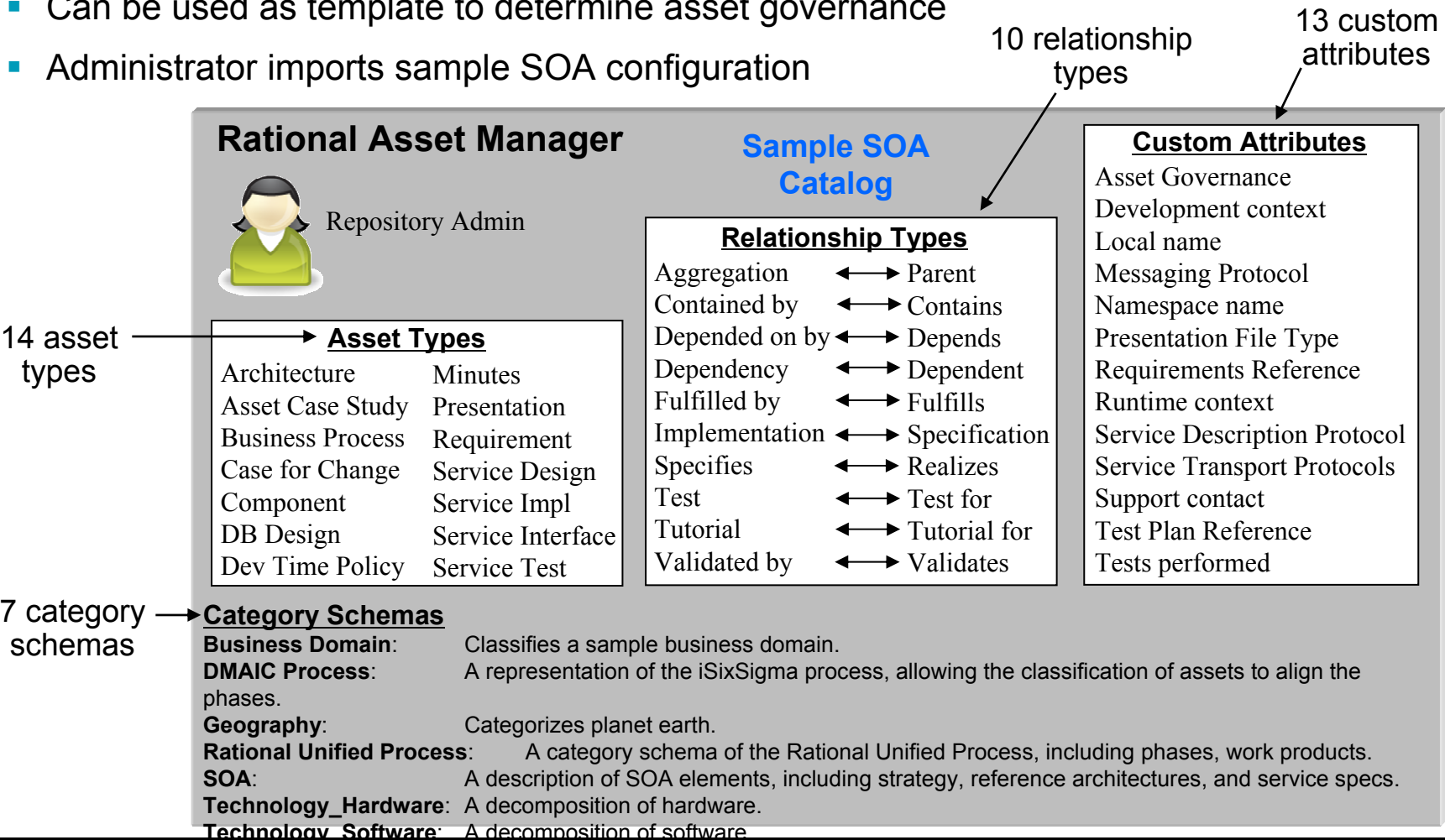- Saves time deploying Rational Asset Manager for SOA

- Can be used as template to determine asset governance

- Administrator imports sample SOA configuration

10 relationship types

13 custom attributes

Rational Asset Manager

Repository Admin

Sample SOA Catalog

Custom Attributes

Asset Governance
Development context
Local name
Messaging Protocol
Namespace name
Presentation File Type
Requirements Reference
Runtime context
Service Description Protocol
Service Transport Protocols
Support contact
Test Plan Reference
Tests performed

14 asset types

Asset Types

Architecture	Minutes
Asset Case Study	Presentation
Business Process	Requirement
Case for Change	Service Design
Component	Service Impl
DB Design	Service Interface
Dev Time Policy	Service Test

Relationship Types

Aggregation	⟷	Parent
Contained by	⟷	Contains
Depended on by	⟷	Depends
Dependency	⟷	Dependent
Fulfilled by	⟷	Fulfills
Implementation	⟷	Specification
Specifies	⟷	Realizes
Test	⟷	Test for
Tutorial	⟷	Tutorial for
Validated by	⟷	Validates

7 category schemas

Category Schemas

Business Domain: Classifies a sample business domain.
DMAIC Process: A representation of the iSixSigma process, allowing the classification of assets to align the phases.
Geography: Categorizes planet earth.
Rational Unified Process: A category schema of the Rational Unified Process, including phases, work products.
SOA: A description of SOA elements, including strategy, reference architectures, and service specs.
Technology_Hardware: A decomposition of hardware.
Technology_Software: A decomposition of software.

Sample SOA Catalog

4 communities   15 assets

Rational Asset Manager

Sample SOA Catalog

Community: Service Analysis

Il Allred,
Business Analyst

Master Admin,
Community Admin

Assets
Account Mgmt Busn Process
Credit Mgmt Case for Change
Credit Mgmt Service Case Study
Review Processes
Business Process Review

Community: Service Test

net Smith,
Service Tester

Master Admin,
Community Admin

Assets
Credit Mgmt Test

Review Processes
Service Test Review

Community: Service Development

Peter Jensen,
Service Dev Mgr

Master Admin,
Community Admin

Bill Walker,
Architect, Service Dev

Assets
Account Mgmt DB
Account Mgmt Service Design
Credit Mgmt Architecture
Credit Mgmt Service Design
Credit Mgmt Service Impl
Credit Mgmt Service Interface

Review Processes
Service Interface Review
Service Implementation Review
Service Design Review

Community: Repository Configuration

Master Admin,
Community Admin

Assets
Asset Versioning Policy
Category Schemas
Repository Workflow Specs
SOA Asset Type Specs
SOA Community Map

Demo: SOA import and assets

What keeps me **Rational**?

CRM8

Agenda

- Concepts

- Configuring Rational Asset Manager for Governance
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  - ▶ Metrics and reporting
  - ▶ Notification, Subscriptions
    - Subscriptions
    - Notifications: RSS Feeds, Email

- Sample SOA Catalog

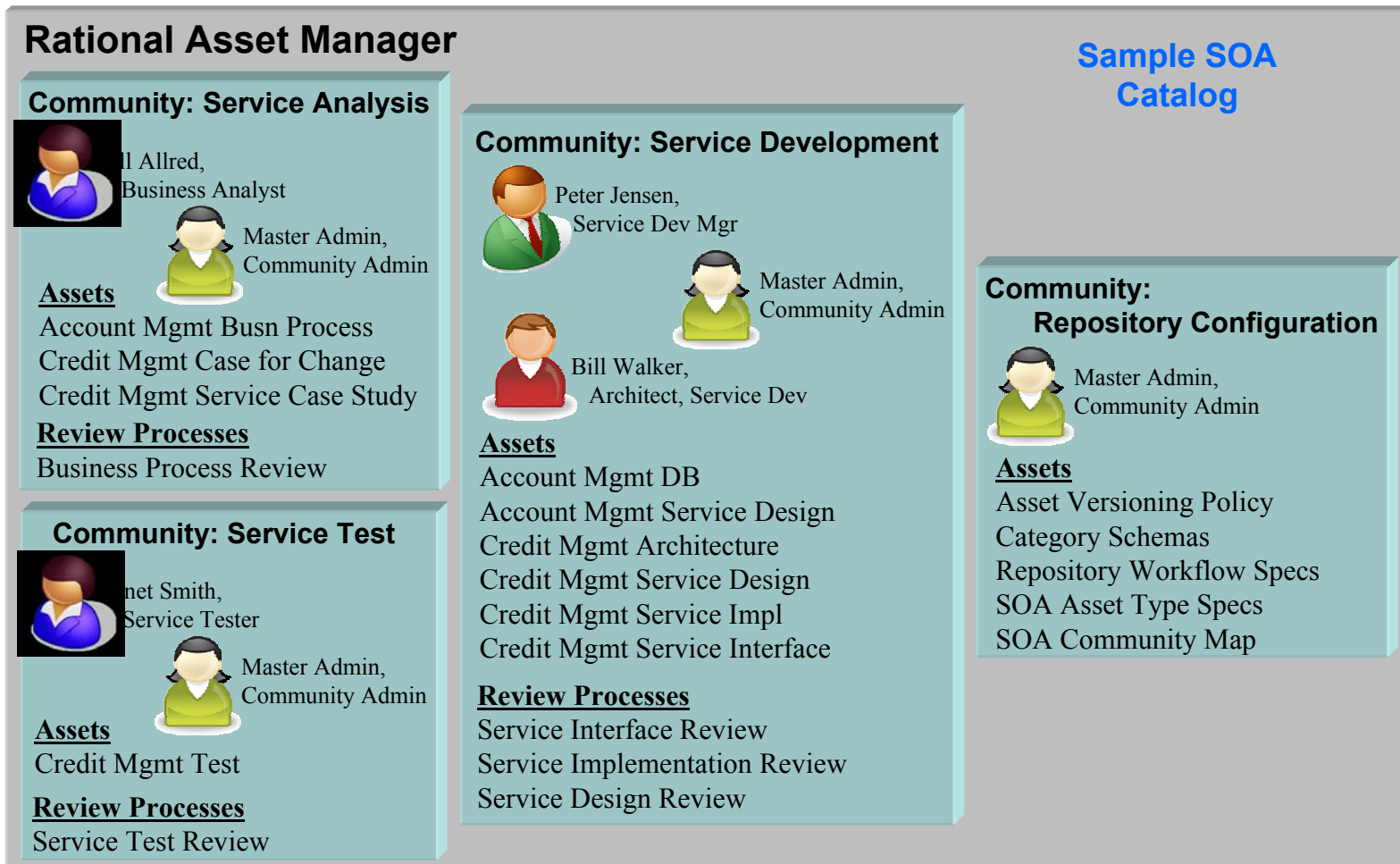- Rational Asset Manager Modular Service Offering

IBM Rational Asset Manager Modular Service Offering

New!

▸ IBM Rational Software Services engagement to quickly deploy RAM in a customer's environment

▸ Serves as a first iteration of an enterprise rollout of RAM

▸ Includes 10 days of consulting to do:

- Asset based readiness assessment

- Mentoring and training

- Deployment planning

- Product installation

- Define and implement a customer's specific RAM information model for a pilot team

  – Asset types, communities, roles, review processes & categorizations

Questions

Thank You