Rational. software

IBM Rational Asset Manager

Highlights

- ***Accelerates service delivery and improves overall SOA lifecycle governance***
- ***Speeds project timelines and drives innovation with asset-based development, warehousing and best practices***
- ***Helps enable secure communication across disparate teams and helps eliminate rework***
- ***Mitigates risks and lowers costs of meeting compliance mandates***

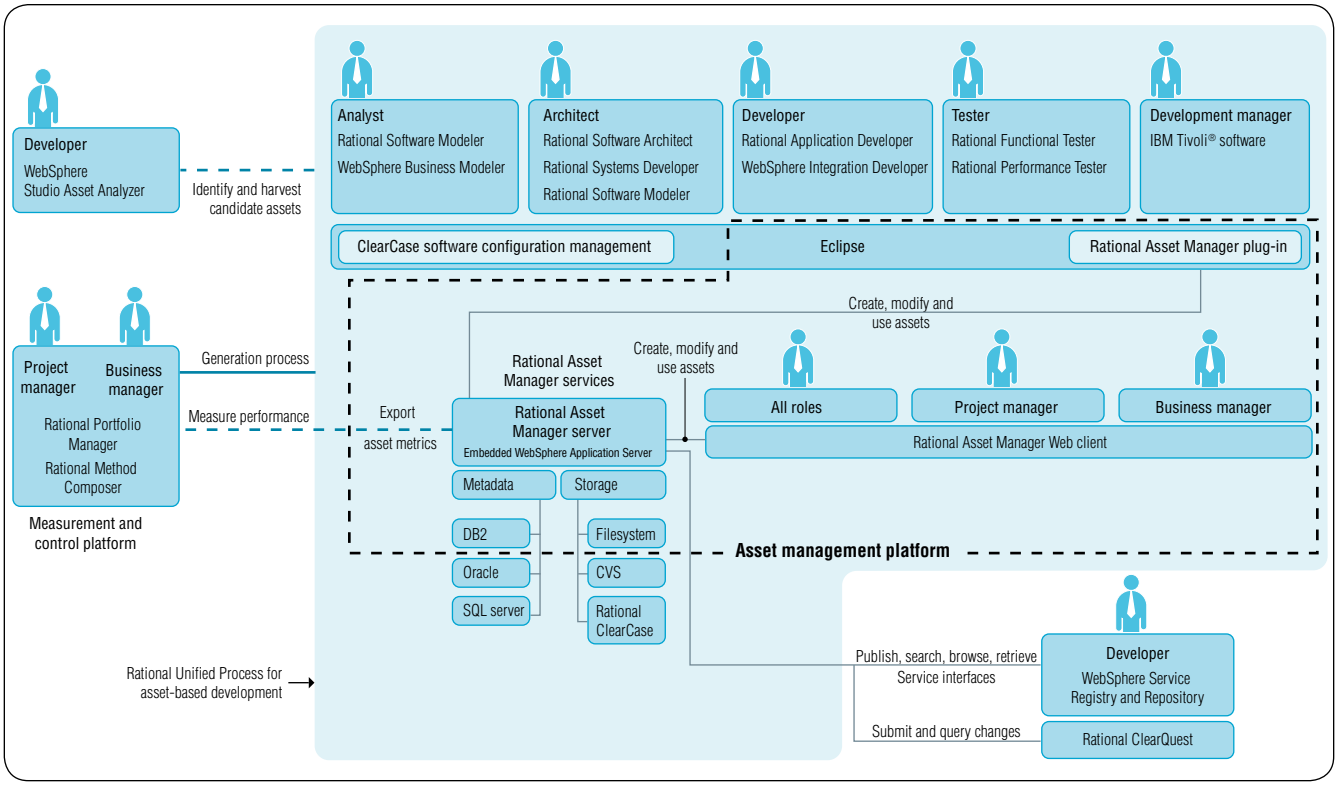
A collaborative software development asset management solution, IBM® Rational® Asset Manager software enables organizations to identify, manage and govern the design, development and consumption of software assets, including services as part of a service-oriented architecture (SOA) initiative. The software helps IT organizations deliver innovative IT solutions while controlling costs, reducing application backlogs and improving business flexibility and responsiveness by facilitating software asset reuse.

Using Rational Asset Manager, you can increase application development productivity and enable developers to reuse software development-related assets. For example, Rational Asset Manager allows you to create, discover and trace service assets throughout the SOA lifecycle. The software also helps you monitor asset integrity and utilization through a defined, enforceable and auditable process that includes fine-grained permissions and review approval flows.

Enabling effective asset management

Rational Asset Manager includes a development-time asset repository that manages all types of assets (including, but not limited to, applications, components, services, patterns and Java™, Microsoft® .NET and COBOL assets) relevant to development roles, such as technical managers, analysts, architects, developers and testers. As you submit assets, the repository governs, categorizes and provides access control to those assets, and measures their usage.

Rational Asset Manager integrates with other Rational and IBM software tools, including IBM Rational ClearCase®, IBM Rational ClearQuest® for change management and IBM Rational architecture management software for asset development. To help you manage SOA assets at run time, Rational Asset Manager closely integrates with IBM WebSphere® Service Registry and Repository software.



Rational Asset Manager provides a development-time repository for software assets, accessed either through a Web client or an Eclipse client, and integrated with other IBM software.

Facilitating asset reuse with Rational Asset Manager software

To support asset management scenarios, Rational Asset Manager manages asset metadata, such as the asset's name, description, version and state, as well as the name, description, version and reference (or location) of contained artifacts. To help you reduce development costs and time while improving software quality, Rational Asset Manager supports the Reusable Asset Specification, an industry standard from the Object Management Group. This specification describes assets as part of asset-based development, which complements Model Driven Architecture by describing asset production, asset consumption and asset management. Rational Asset Manager includes additional metadata required for integrating other repositories and registries such as WebSphere Service Registry and Repository software for complete SOA service lifecycle support.

Enabling scalable asset sharing and reuse

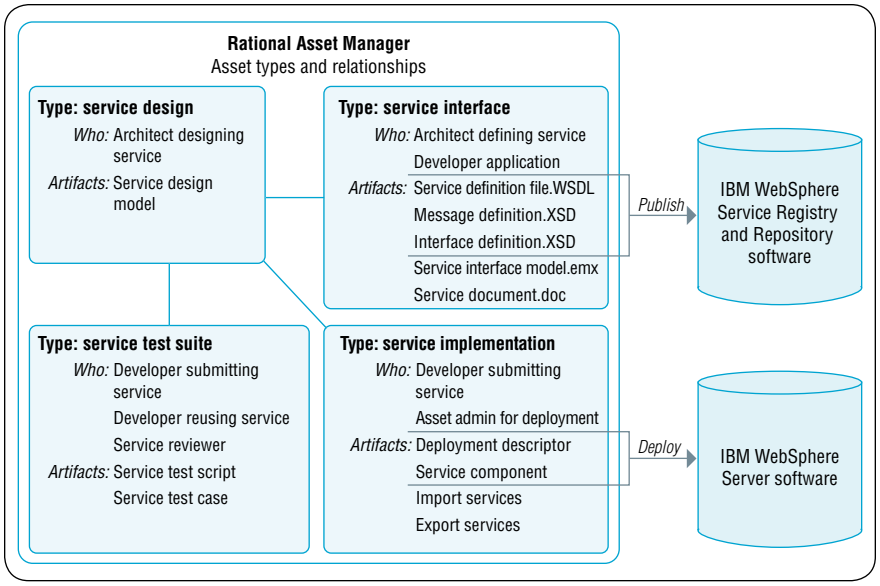
Today's companies are already trying to share components and assets within their organizations; many have reusable assets but lack effective strategies to reuse them. Most companies use spreadsheets to track these assets or have homegrown asset management frameworks that are based on asset storage on local or shared drives—all of which can lead to compliance issues. Spreadsheets simply don't scale as the number of assets and asset versions

increases, or if teams are globally distributed. Plus, custom-built solutions are expensive to maintain and enhance. Rational Asset Manager provides a scalable and cost-effective solution for reusing software by providing a framework that allows you to define, create, share and manage assets across your organization, either locally or globally—while helping to secure your intellectual property.

Managing open source components better

Many organizations are trying to identify and manage the complex variety of open source components in use across their enterprise. Teams need a central process through which to search for and find approved open source assets, and a method to identify which assets are using those open source assets. Moreover, organizations need to recommend which versions of those assets are compatible with their enterprise architecture—a key aspect of managing open source assets related to IT governance.

Rational Asset Manager helps enhance development team productivity by limiting the amount of time developers spend finding and understanding approved assets. With fewer disparate assets to maintain, you can more cost-effectively train people to maintain assets in your production systems.



You can define a service as a single asset type containing all necessary artifacts, or decompose the service into many asset types, such as service interface, service implementation and service test.

Enabling an end-to-end asset lifecycle

Rational Asset Manager helps you manage the development and maintenance of your service assets by integrating with development tools such as Rational ClearCase and Rational ClearQuest software.

Rational Asset Manager provides the tools (asset types and review boards) to define a service asset when it is created—for example, a service must have a test suite, test data, implementation and interfaces. Rational Asset Manager enforces compliance with the asset type definition, helping to ensure that the correct artifacts are submitted when you create a new asset. With Rational Asset Manager, you can determine which service assets are impacted by changes to or bugs in an implementation source code file, and help ensure that you can deploy services to your run time and publish them to your service registries.

Regardless of the asset type configuration for services in Rational Asset Manager, the service assets you create are designed to synchronize with WebSphere Service Registry and Repository software. The service asset, which has the Web Service Description Language (WSDL), XML Schema Definition (XSD) or XML, is the asset whose ID will be used for maintaining references between the repositories.

Features and benefits of IBM Rational Asset Manager software

Feature	Benefit
Define assets	Identify assets by: • Asset type • Category Out-of-the-box SOA categorizations and asset types to allow customers to quickly implement an SOA service lifecycle solution Integration with WebSphere Studio Asset Analyzer software Security and access control • Fine-grained access control based on user, role, group and asset type
Search/retrieve assets	Encourage reuse • Flexible search on asset metadata • Search and reuse of WebSphere Service Registry and Repository deployed services Enhanced traceability • Enables linkages between deployed services and related assets Quickly search for assets within the browser toolbar using the Rational Asset Manager search engine plug-in for Firefox
Create/modify assets	Asset upload, download, update, rating and packaging Workflow • Complex workflows through Rational ClearQuest integrations • Basic workflow built in Simplify development and collaboration • Change and version assets and artifacts via Rational ClearCase and Rational ClearQuest integrations • Discussions, e-mail and Really Simple Syndication (RSS)

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Features and benefits of IBM Rational Asset Manager software (continued)

Feature	Benefit
Measure	Metrics/reporting/traceability • Record usage statistics, user feedback, etc. • IBM Rational Portfolio Manager integration • Build, test and deployment integration Collaboration • Notifications and discussions
Govern assets	Enable service asset governance • Asset review boards • Workflow, customizable via Rational ClearQuest software • Access controls based on user, role, group and asset types Process guidance • IBM Rational Unified Process® (IBM RUP®) asset management process • IBM Rational Method Composer tool mentors Customizable categorizations • SOA classifications for compatibility with WebSphere Service Registry and Repository software
Use a flexible user interface	Eclipse client • Quickly find, use and package assets without leaving the development environment Web-based client • Find, use, package and review assets • Administrate using Rational Asset Manager software
Capitalize on an IBM technology foundation	• Built on embedded WebSphere Application Server software (out-of-the-box functionality) • Metadata stored in IBM DB2® database (out-of-the-box functionality) • Complex workflow through Rational ClearQuest software integration (optional) • Artifact version control through Rational ClearCase software and Concurrent Versions System (CVS) integration (optional)

Specifications

Software requirements

Operating systems

- Microsoft Windows® XP Professional with Service Pack 2
- Microsoft Windows Server 2003 Standard Edition with R2
- Microsoft Windows Server 2003 Enterprise Edition with R2
- SUSE Linux® 10
- Red Hat Linux Enterprise AS4
- IBM AIX® 5.3 POWER5™ (server only)

Application servers

- Includes embedded IBM WebSphere Application Server V6.1 Fix Pack 5
- WebSphere Application Server V6.0.2.15, V6.1
- Apache Tomcat V5.0, V5.5

Database

- Includes DB2 Enterprise Server Edition V9.1 (limited license)
- DB2 Enterprise Server Edition V8.2, V9.1
- Microsoft SQL Server 2005
- Oracle 9.2.0 (9i), 10g

Lightweight Directory Access Protocol (optional)

- Microsoft Active Directory Server 2003

Hardware requirements: server

- Processor: minimum 2GHz Intel® Pentium® 4, dual CPU (or higher for best results)
- Memory: minimum 1GB RAM (with embedded IBM WebSphere Application Server and DB2 software) or 2GB (with Rational ClearCase or Rational ClearQuest clients)
- Disk space: minimum 5GB (with embedded IBM WebSphere Application Server and DB2 software); if adding Rational ClearCase or Rational ClearQuest clients, consult their disk space requirements
- Display: 1024x768 display minimum using 256 colors (or higher for best results)
- Other hardware: Microsoft mouse or compatible pointing device

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Specifications (continued)

Hardware requirements: client

- Processor: minimum 1.4GHz Intel Pentium 4 (or higher for best results)
- Memory: minimum 512MB RAM
- Disk space: minimum 1GB
- Display: 1024x768 display minimum using 256 colors (or higher for best results)
- Other hardware: Microsoft mouse or compatible pointing device

This product supports the following clients:

- Eclipse V3.2.2
- IBM Rational Software Delivery Platform products, V7
- Browser: Firefox V1.5.x, V2 or Microsoft Internet Explorer V6.0 SP1, V7

Other

You can opt to use Rational Asset Manager software in conjunction with the following:

- Rational ClearCase V7.0.1
- Rational ClearQuest V7.0.1
- WebSphere Service Registry and Repository V6.0.0.1
- CVS V1.11.22
- E-mail server

Additional software requirements

One of the following Web browsers is required to view the readme files and the installation guide, and to support the Standard Widget Toolkit browser:

- Internet Explorer V6.0 SP1, V7
- Firefox V1.5.x, V2
- Adobe Acrobat Reader

For more information

To learn more about IBM Rational Asset Manager software, visit:

ibm.com/software/awdtools/ram

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