



IBM Software Group

Rational Asset Analyzer Technology Preview

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Rational Asset Analyzer Technology Preview

Rational Asset Analyzer Development team would like your feedback

The Development team has been working on an number of technology improvements for the Asset Analyzer products, both the Rational Asset Analyzer (RAA) and the WebSphere Studio Asset Analyzer WSAA). Beyond the usual work that improves the product's performance and the "user experience", the team has been adding capabilities for practical business rule mining in concert with the WebSphere ILOG team using enhanced web interface technologies. The Web Services interfaces in RAA and WSAA are being displaced by comprehensive RESTful access protocols. The integration with Rational Developer for System z (RDz) is being expanded with Remote Project support. To allow more comprehensive analysis, the team is adding the ability to scan for just about any token or symbol in a broad set of files, incorporating the results into the RAA meta data repository. The Windows instance of these technology efforts is being made available as a Technology Preview for IBM and client feedback.

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Rational Asset Analyzer Technology Preview - Logistics

Driver is available from the Rational Asset Analyzer Support Portal

▶ <http://www.ibm.com/support/docview.wss?uid=swg24027557>

- Driver is “as is” - no formal support
- Documentation is limited to the Help files
- Development will answer questions on a “best can do” basis

- Feedback is encouraged

▶ developerWorks forum:

<http://www.ibm.com/developerworks/forums/forum.jspa?forumID=2046&cat=24>

Support & downloads >

IBM® Rational® Asset Analyzer Technology Preview

Downloadable files

Abstract

This IBM® Rational® Asset Analyzer Technology Preview provides an insight into the technology being developed for a future release of RAA.

Download Description

The Development team has been working on a number of technical improvements for the Asset Analyzer products, both the Rational Asset Analyzer (RAA) and the WebSphere Studio Asset Analyzer (WSAA). Beyond the usual work that improves the product's performance and the “user experience”, the team has been adding capabilities for practical business rule mining in concert with the WebSphere ILOG team using enhanced web interface technologies. The Web Services interfaces in RAA and WSAA are being displaced by comprehensive RESTful access protocols. The integration with Rational Developer for System z (RDz) is being expanded with Remote Project support. To allow more comprehensive analysis, the team is adding the ability to scan for just about any token or symbol in a broad set of files, incorporating the results into the RAA meta data repository.

The Windows instance of these technical efforts is being made available as a Technology Preview for IBM and client feedback.

Prerequisites

Rational Developer for System z v7.6 for use with the RDz integration plugin.

Download package
RAATechPreview.zip

Installation Instructions

To install the technology preview, first download the RAATechPreview.zip package and unzip it in a local directory. Then, refer to the readme (readmeTechPrev.htm) and installation guide (admhins.pdf) files located in the /documentation directory for specific installation instructions.



Document information

Product categories:

Software
Software Development
Analysis, Modeling,
Design & Construction
[Rational Asset Analyzer](#)

Operating system(s):

Windows

Software version:

5.5.1

Reference #:

4027557

IBM Group:

Software Group

Modified date:

2010-08-10

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Rational Asset Analyzer Technology Preview

Key new/updated technologies include

- Business Rule Mining
- RESTful Interface
- RAA Integration - RDz Remote z/OS Project Support
- Unstructured “token” scan support in Inventory, custom queries and relationships
- Significant speed, memory usage, and scalability improvements in JEE analysis along with simplification of the scanning of JEE artifacts
- Support for Windows 7 - COBOL and PL/I compiler front-ends included eliminating an RDz dependency
- Incremental User Interface enhancements – including case insensitive search support
- FITS requested functions and enhancements



Technology Preview – Business Rule Mining

New functionality to assist clients in their business rule mining efforts

- Allows you to identify, capture and relate business rule assets to its existing set of IT assets.
- Introducing seven new asset types:
 - ▶ Business activity (activity)
 - ▶ Business category (category)
 - ▶ Business process model (process model)
 - ▶ Business rule (rule)
 - ▶ Business rule mining project (BRM project)
 - ▶ Business term (term)
 - ▶ Business term property (property)
- New dialogs, Source views and relationship detection
- Leveraging Web 2.0 technologies
- Import function for WebSphere ILOG JRules vocabulary

The screenshot shows the Rational Asset Analyzer web interface. The main heading is 'Explore rule mining assets'. Below the heading is a search bar with the text 'Search names: A' and a 'Go' button. To the right of the search bar is a checkbox labeled 'Ignore case' and a link for 'Advanced search'. Below the search bar is a table with the following data:

Rule mining assets	Total
Business activity	2
Business process model	1
Business rule	1
Business term	10
Business term property	53

The interface also features a navigation bar with tabs for 'Home', 'Explore', 'Impact analysis', and 'Database'. The user's name 'boyerpl' and a help icon are visible in the top right corner. The IBM logo and the date 'Aug 10, 2010 5:23:09 PM' are at the bottom.



Technology Preview – Business Rule Mining Asset Types

Business activity (activity) - a named, structured process or task that produces a specific service or product for a particular customer or customers of a business. A business activity may be a collection of related business activities.

The screenshot shows the Rational Asset Analyzer interface. The context is 'Explore rule mining assets' and the view is 'Business activity summary'. The table below lists two business activities related to 'Rent a car'.

Row	Name	Parent activity	Process model	Description
1	Create the RentalAgreement		Rent a car	This is what happens in order to actually rent a car
2	Return the car		Rent a car	This is what happens when the car is returned

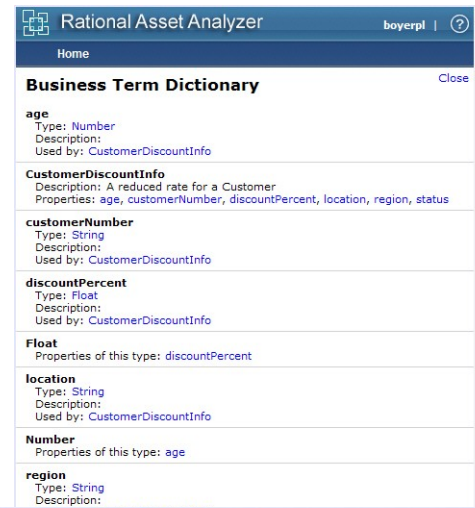
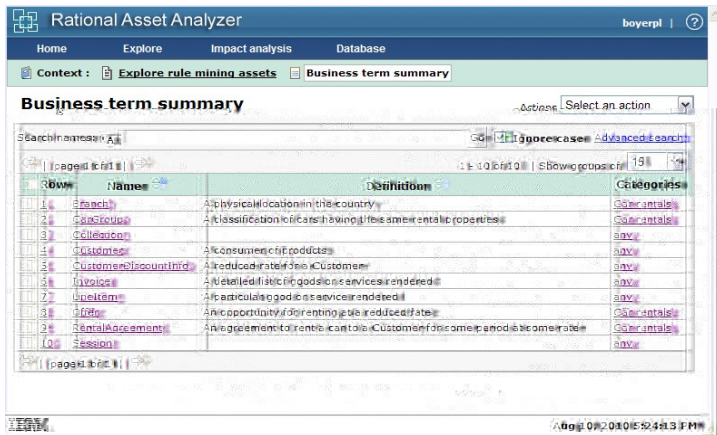
Business process model (process model) - a named collector of business activities used to represent a core aspect of a business.

The screenshot shows the Rational Asset Analyzer interface. The context is 'Explore rule mining assets' and the view is 'Business process model summary'. The table below lists one business process model.

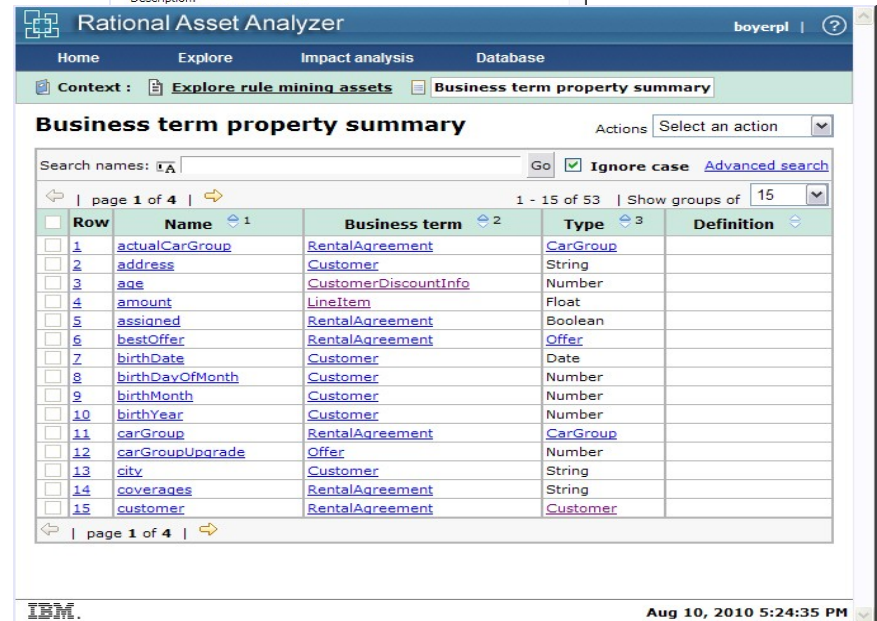
Row	Name	Description	Business activity
1	Rent a car		Create the RentalAgreement Return the car

Technology Preview – Business Rule Mining Asset Types ...

Business term (term) - a noun representing a concept used in the business.



Business term property (property) - a noun, of a specific type, representing an attribute or abstract quality associated with a business term. The relationships between business terms and business term properties are most often stated with the verb *has* (for example, *car has driver*) or the preposition *of* (for example, *driver of car*).



Technology Preview – Business Rule Mining Asset Types ...

Business rule (rule) - a named statement, or set of statements, that defines or constrains some aspect of a business. Business rules can be captured in RAA in either an unstructured or structured form, or both.

The screenshot displays the Rational Asset Analyzer interface with the following components:

- Main Window:** Shows the 'Business rule summary' view. The context is 'Explore rule mining assets'. Search names are empty. There are checkboxes for 'Ignore case' and 'Advanced search'. A table with columns 'Row', 'Pr', and 'SE' is partially visible.
- Code Snippet (Left):**

```

31. 003100
32. 003200 IF HI
33. 003300 COMPUTE CUST-DISC-PCT = F1 + F2
34. 003400 ELSE
35. 003500 DISPLAY "NO DISCOUNT".
36. 003600
37. 003700 GOBACK.
38. 003800/
39. 003900 100-FACTOR2.
40. 004000
41. 004100 IF C-AGE > 55
42. 004200 COMP
43. 004300 ELSE
44. 004400 SET
            
```
- Context Menu (Over Code):**
 - Relate statement to a business rule
 - Relate data element to a business term or property
 - Show data element details
- Relate to a Business Rule Dialog (Bottom Left):**

Relate the IF Statement to a business rule.

Business rule: Provide discount for seniors

The statement has the following data elements with related terms and term properties:

Data element	Term or term property
C-AGE	age

Buttons: Relate, Cancel
- Add a Business Rule Dialog (Center):**

Name of the business rule: Provide discount for seniors

Documentation (optional): If a person's age is over some threshold, give them a discount.

Buttons: Add, Cancel
- Status Bar:** Aug 10, 2010 5:31:21 PM

Technology Preview – Restful Interface

RESTful Interface completely revamped

- Full support for relevant asset types, attributes and relationships
- Displacing Web Services interface technologies
- Added special content type for integration with Insight
- Added support for custom queries for easy report generation by many tools

Rational Asset Analyzer (RAA) - REST Interface

[up](#) - [about](#)

url	description
admin	Administrator functions
assets	Explore and search RAA assets
cq	Execute RAA custom queries
metrics	Explore RAA metrics
ping	Test RAA REST interface connection
signal	Callback signal interface

Available asset types

[up](#) - [about](#)

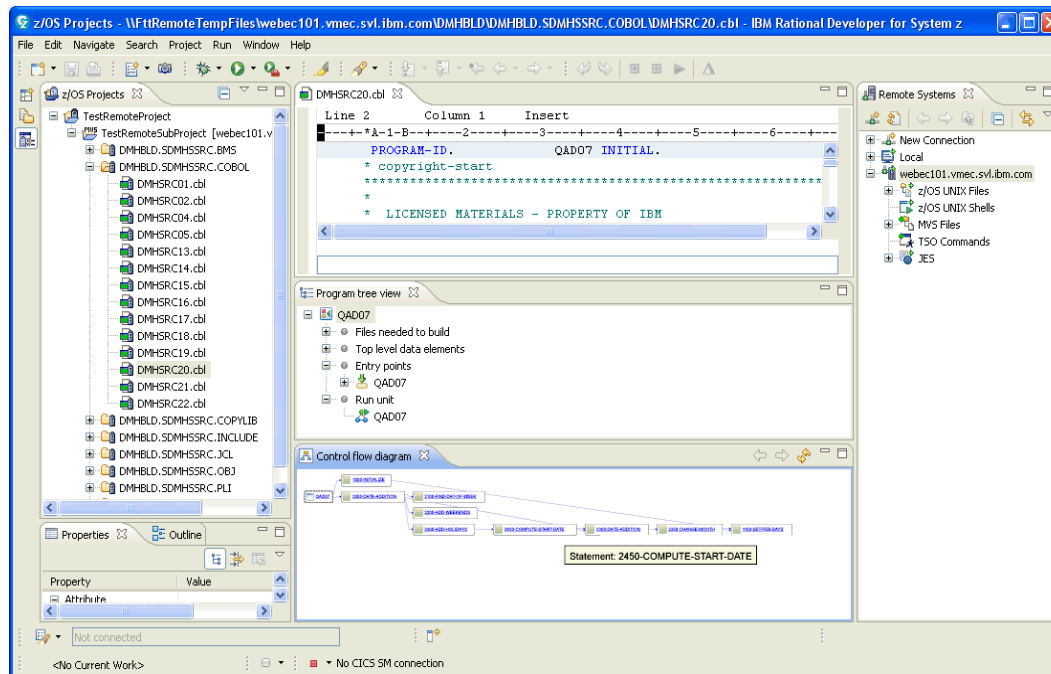
link	label	id	mainTable
Application	Application	26	DMH.DMH_APPLICATION
Archive	JAR file	100	DMH.DMH_ARCHIVE
ArchiveManifest	Archive manifest file	101	DMH.DMH_ARCH_MANIFEST
BatchJob	Batch job	7	DMH.DMH_BATCH_JOB
BmsMapDef	BMS map definition	13	DMH.DMH_MAP
BmsMapSetDef	BMS map set definition	20	DMH.DMH_MAPSET
BpModel	Business process model	430	DMH.DMH_BP_MODEL
BpProcess	Business activity	431	DMH.DMH_BP_PROCESS
BrRule	Business rule,Business rules	480	DMH.DMH_BR_RULE
BrmCategory	Category	400	DMH.DMH_BRM_CATEGORY
BTerm	Business term	401	DMH.DMH_BT_TERM
BTermProperty	Business term property	402	DMH.DMH_BT_TERM
BytecodeClass	Java bytecode class	102	DMH.DMH_BYTECODE_CLASS
BytecodeField	Java bytecode field	103	DMH.DMH_JBC_FIELD
BytecodeMethod	Java bytecode method	104	DMH.DMH_JBC_METHOD
CicsGroup	CICS group	33	DMH.DMH_CICS_GROUP
CicsOnlineRegion	CICS online region	11	DMH.DMH_ONLINE_REGION
CicsTransaction	CICS transaction	6	DMH.DMH_TRANSACTION
Container	Container	23	DMH.DMH_CONTAINER
Cpp	C++	105	DMH.DMH_CPP
DataElement	Data element	9	DMH.DMH_DATA_ELEMENT



Technology Preview – Remote Project Support

RAA Integration with RDz enhanced to scan assets in Remote Project workspaces

- Technology Preview Pre-req is Rational Developer for System z (RDz) 7.6
- Logical extension of existing Local Project scan support
- Uses Remote System Explorer (RSE) capabilities within RDz access, download and scan source files



Technology Preview – Unstructured “token” Scans

Enhancing RAA analysis capabilities through unstructured “token” scan support

- Ability to identify and capture almost any token or symbol in a broad set of files as additional meta data
- Expanded meta data can be included in Inventory, custom query and relationship analysis

symbol

A sequence of characters with the following properties:

- First and last characters can be any of the following: A-Z a-z 0-9 _
- Internal characters can be any of the following: A-Z a-z 0-9 _ .
- At least 3 characters in length.
- Is not a common dictionary word.

The screenshot shows the Rational Asset Analyzer interface. The main window displays a 'Symbol summary' table with the following data:

Row	Name	Source location
1	0000-DISPLAY-ERROR-MESSAGE	C:/brm/testdata/BusinessRuleMining/src/SYSERR.CBL
2	006-COVERAGE	C:/dmh/sample/source/DMHSRC02
3	2000-SEND-TERMINATION-MESSAGE	C:/brm/testdata/BusinessRuleMining/src/INVMENU.CBL
4	500-COVERAGE	C:/dmh/sample/source/DMHSRC02
5	C-AGE	C:/brm/testdata/BusinessRuleMining/src/CUSTDISC.CPY C:/brm/testdata/BusinessRuleMining/src/DISCONC.CBL C:/brm/testdata/BusinessRuleMining/src/DISCOSE.CBL C:/brm/testdata/BusinessRuleMining/src/DISCOWE.CBL
6	END-OF-SESSION-MESSAGE	C:/brm/testdata/BusinessRuleMining/src/INVMENU.CBL
7	ERROR-MESSAGE	C:/brm/testdata/BusinessRuleMining/src/SYSERR.CBL
8	EX-RPT-PAGE-CNT	C:/brm/testdata/BusinessRuleMining/src/PRODUPD.CBL
9	LOCAL-STORAGE	C:/dmh/sample/source/DMHSRC01
10	MESSAGEA	C:/dmh/sample/source/DMHSRC12 C:/brm/testdata/BusinessRuleMining/src/INOSSET1.CPY C:/brm/testdata/BusinessRuleMining/src/MENSET1.CPY