

IBM Rational Requirements Composer V4.0

Lab exercise: Working with traceability relationships

Objectives

In this lab, you complete these tasks:

- ▶ View traceability relationships
- ▶ Create traceability relationships between artifacts
- ▶ Upload multiple files

Given

- ▶ The JKE Banking Money That Matters project

This lab is provided **AS-IS**, with no formal IBM support.

Task 1: View traceability relationships

In this task, you review the traceability relationships of a story artifact.

1. If necessary, log in as Bob (user ID: bob, password: bob) and navigate to the Artifacts page of the JKE Banking (Requirements Management) project.
2. Navigate to the `JKE Business Recovery Matters Project\User Story Elaboration\Elaborated Stories` folder, and open the **Donor Chooses an Organization** story artifact.
3. In the right sidebar, review the links that are established for this artifact. Notice how the traceability relationships are expressed through the links.
4. Find the **Illustrated by** links. Notice that this story was elaborated through storyboards, sketches, and screen flows.
5. Find the **Implemented by** link. Hover over the link and notice this artifact was implemented in Sprint 1.
6. Click the **Donor Chooses an Organization** Implemented by link to open the story work item in Rational Team Concert that implemented this story.
7. Click the back button in the Browser to return to the Donor Chooses an Organization artifact.
8. Click the **Donor Chooses an Organization** Validated by link to open the test case in Rational Test Manager that validated this story.
9. Click the back button in the browser to return to the Donor Chooses an Organization artifact.
10. In the Links section of the sidebar, click the menu arrow next to the **Filter Links** icon; hover over **Link Types**, and select the **Implemented by**, **Satisfies**, and **Validated by** check boxes.

Notice that all other link types are now filtered from the view.

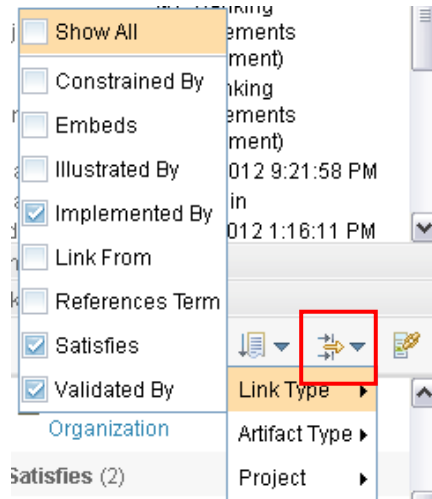


Figure 1.: Filter link types to focus on certain link types

11. In the Links section of the sidebar, click the Links Explorer icon.

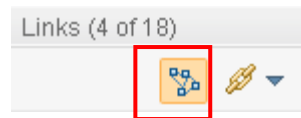


Figure 2.: The Links Explorer icon.

Notice how the traceability relationships display graphically in the Links Explorer.

12. Click the row on the Layout Type icon, and select other layout options on the menu to change the layout of the view. Change back to the Walker layout.

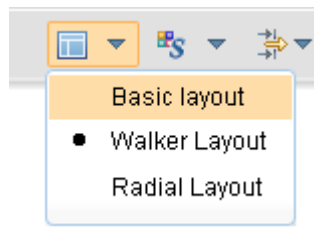


Figure 3.: Select different layouts from the Layout Type menu.

13. Click the arrow on the **Relations Tooltip** icon, check the **Satisfies** check box, set the Levels to expand to **2**, and then click **Apply**.

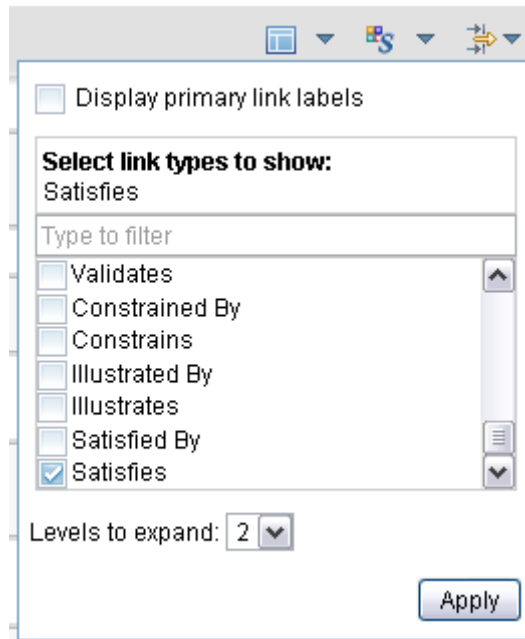


Figure 4.: Filter link types and select the number of levels you want to view.

14. Use the rich hover to view information about the linked artifacts

Notice that the view enables you to see the business goals to which this user story traces back.

15. Click the **Collapse Links** button on the **Allocating Dividends to a Cause** artifact to collapse the next level of links.



Figure 5.: Collapse links in the Links Explorer

Notice that the button changes to an **Expand Links** button.



Figure 6.: Expand links in the Links Explorer

16. Close the Links Explorer and navigate back to the JKE Banking (Requirements Management) project Artifacts page.

Task 2: Create traceability relationships between artifacts

In this task, you create traceability relationships for the new mobile devices feature requirements.

1. Navigate to the JKE Business Recovery Matters project, select the Features folder, and find the Mobile Device Support – Android feature artifact in the artifacts list.

This feature might be imported from a CSV file in a previous activity. If you cannot find this artifact, create a new feature artifact and name it Mobile Device Support – Android.

2. Click the artifact edit menu, hover over **Add a link to the Artifact**, and select **Constrained by** from the links list.

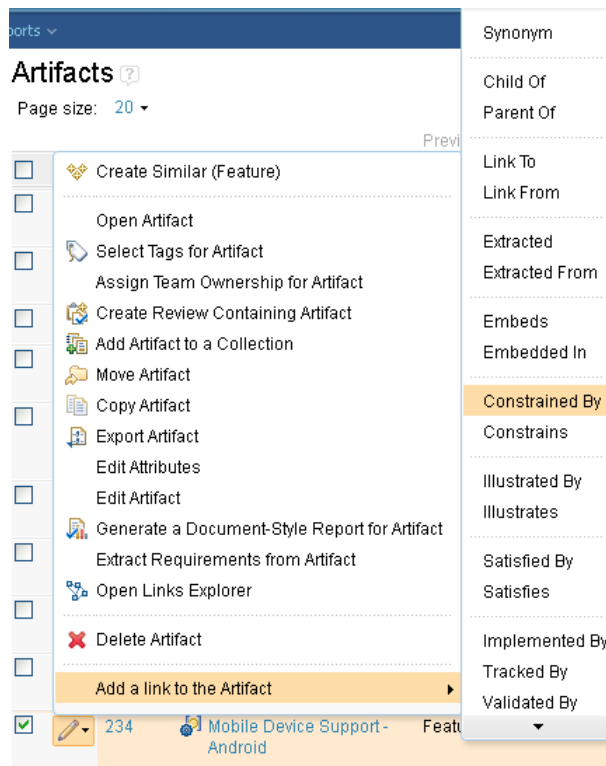


Figure 7.: Create a *Constrained by* link from the artifacts list

3. In the Create link dialog box, search or browse for the **Donor must be registered user to access account details** business rule, and then click **OK**.

Create Link

Linking from artifact: Mobile Device Support - Android
 Link type: Constrained By

What to link to: Link to an artifact Link to web
 Project Area: JKE Banking (Requirements Mai

Search for artifacts by id or for words contained in the name:
 donor must be a registered user

Select artifact: Displaying 1-4 of 4 matches (1 artifact selected)

- 78: Allocating Dividends to a Cause
- 174: Donor Chooses Multiple Organizations
- 122: Donor Chooses an Organization
- 209: Donor must be registered user to access account details

Figure 8.: Select the artifact that you want to trace to

4. Hover over the artifact to see the new link listed.
5. Add two additional links to the artifact:
 - a. **Constrained by: Security**
 - b. **Link to: Common User Access**
6. View the new links in a rich hover window.
7. Open the **Mobile Device Support – Blackberry** feature.
8. In the Links section of the right sidebar, click the **Add Link to Artifact** icon, and select **Constrained by** from the links list.
9. In the Link to dialog box, search or browse for the **Donor must be registered user to access account details**, business rule, and then click **OK**.
10. Add two additional links to the artifact:
 - a. **Constrained by: Security**
 - b. **Link to: Common User Access**
11. View the new links in the right sidebar.
12. Return to the project Artifacts page. Open the **Mobile Device Support – iPhone** feature.
13. In the Links section of the right sidebar, click the Links Explorer icon to open the Links Explorer.
14. Click the **Add Links** icon that is over the top of the artifact.

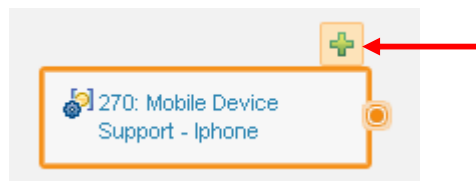


Figure9.: The Add Links icon in the Links Explorer

15. In the Link to dialog box, choose **Constrained by** as the link type, search or browse for the **Donor must be registered user to access account details**, business rule, and then click **OK**.
16. Add two additional links to the artifact:
 - a. **Constrained by: Security**
 - b. **Link to: Common User Access**
17. Close the Links Explorer and navigate back to the **JKE Business Recovery Matters Project\Features** folder.
18. In the artifacts list, select the three mobile device artifacts.
19. From the artifact menu, add a **Satisfies** link from the three artifacts to the **Support dividend processing via mobile devices** feature artifact.
20. Hover over the artifacts to confirm that the links were created.