2540 – PLE design validation and playback

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Innovate2014

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Abstract

Design studio group session to validate PLE scenarios, key personas and UX storyboards.

We will deep dive into the 2014 release hills and design exploration. We will provide an overview of the PLE scenarios developed by the PLE delivery team.

Attendees will contribute by examining and validating the design scenarios, the scenario personas and the development practices.

Attendees will also be invited to work with the members of the Rational Design Factory team to explore parts of the scenario and contribute their user experiences and practices into the design work.



Agenda

- IBM Design Thinking
- Release Hills
- Introduction to the PLE Scenario
- Scenario Deep-Dive
 - Explore design scenario's for 2015
 - Act 0: Create product variant
 - Act 1: Reproduce Defect
 - Act 2: Create Delivery Configuration
 - Act 3: Update Product Line
 - Act 4: Report on Release



IBM Design Thinking





Hills focus your project on big problems and outcomes for users, not just a list of feature requests.

Sponsor Users help you design experiences for real target users, rather than imagined needs.



Playbacks align your team, stakeholders, and clients around the user value you will deliver, rather than project line items.



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IBM Design Thinking





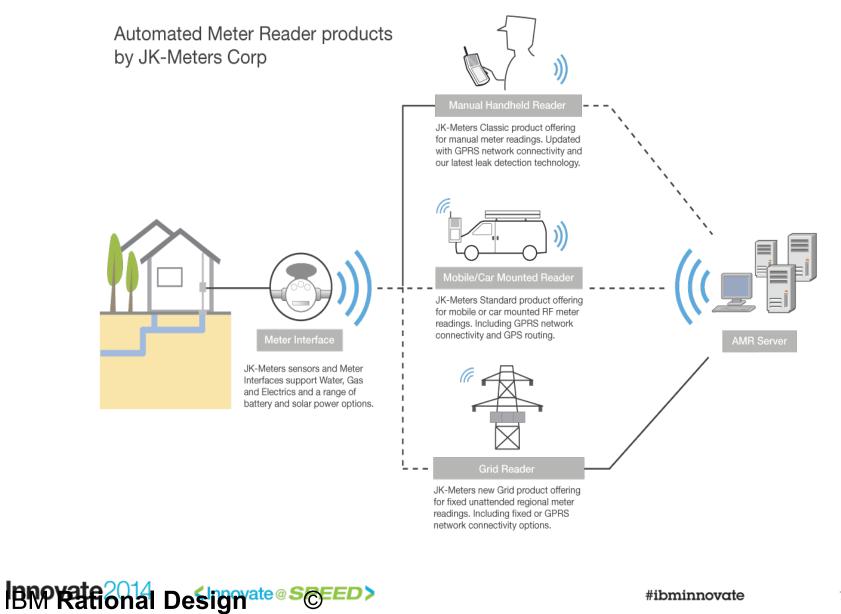


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Release Hills for PLE

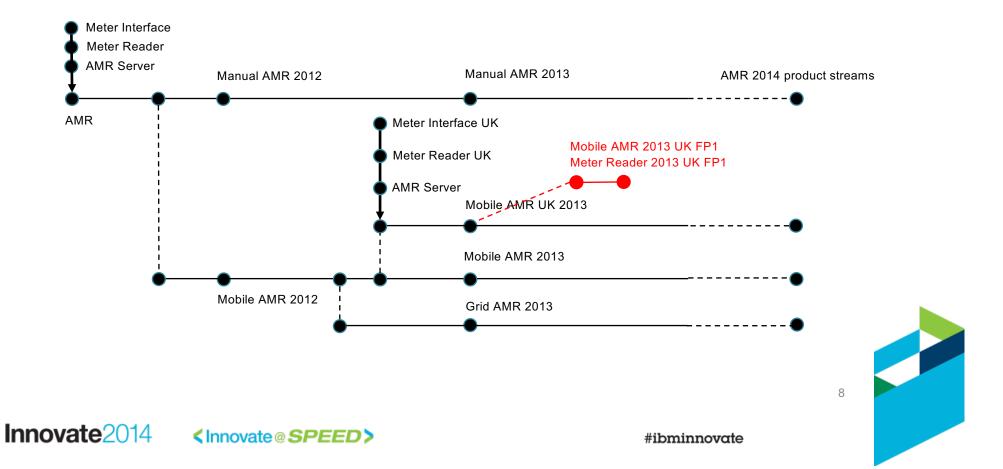
Hill #1	Work in configurations with artifacts and links
	An engineer working in an environment with 1000s of configurations can see and use artefacts and their links that were delivered from any other configuration.
Hill #2	Create and use product definitions
	A configuration lead or product line manager can define a complex product as a set of hierarchical component configurations. This single source of truth enables engineers to work with the right artifacts and links in their tools.
	•A configuration lead or product line manager can define a new product variant and visualize its structure within 5 minutes.
	 An engineer can find and select the right configuration within 30 seconds to populate his/her workspace
Hill #3	Track and report on configurations of engineering artifacts
	An engineer working in an environment of 1000s of configurations can create reports in the context of any configuration.
	•An engineer can generate a document with requirements, tests and design artifacts (and their links) associated with a configuration
	 An engineer can run queries in the context of any one global configuration
	 An engineer can generate a real-time or historical report or view dashboards with information associated with a configuration
Hill #4	Technical Foundation
	•Deliver a PLE solution with VVC, LQE and triple store performance and scalability. SSO and LQE Access Controls 2.0
	 Improvements on install, upgrade and setup for PLE playbacks and demonstrations

Automated Meter Reader Scenario



PLE Scenario Context

- JKE Meters delivering Automated Meter Readers
- Multi-stream PLE practice to manage an evolving product line
- Scenario: Need to fix a product variant defect and deliver a fix pack



Scenario personas



Charles – Configuration Lead | Product Line Engineer

-I configure and manage configurations for components and product variants

-I need to define and view products with their variants and dependencies as a set of

hierarchical product definitions and reusable component configurations

-I am responsible for assembling global baselines



Dan - (Embedded) Software Developer

- -I develop features in reusable components
- -I need to easily start working on a Change Request in context of a configuration
- -I need to trace links and edit artifacts in context of my selected configuration



Tony – Tester

- -I verify features and changes to artifacts in context of a delivery configuration
- -I need to reuse test artifacts across components and product variants
- -I need to report on test results in context of a configuration



Pete – Project Manager

- -I plan work and track the delivery of my product variant(s)
 -I need to manage project milestones and work and link tasks to artifacts in context of my delivery configurations
- -I need to report on project readiness metrics on my project dashboard



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PLE Scenario - Scenes and Acts

PLE Scenario Acts	Personas	Hill 1 Work in configurations with artifacts and links	Hill 2 Create and use product definitions
	🔯 Pete	Triage and assign a defect	
Act 1 Depreduce a defect	🧕 Dan	Open and load workspaces	Open and load workspaces using RELM
Act 1- Reproduce a defect	🧕 Dan	Reproduce defect using engineering artifacts	
	🔯 Pete	Plan fix and release	
	Charles	Create delivery streams	Create delivery streams using RELM
Act 2 - Create delivery	🧕 Dan		Resolve defect
configuration	Kang Tony		Validate defect resolution
	Charles	Baseline delivery streams	Baseline delivery streams using RELM
	Charles	L	Analyze dependencies
Act 3 - Deliver and baseline changes to product line	👰 Pete		Review and approve release
	Charles		Replace baselines
Hill 3	👰 Tammy	Create requirements / q	uality coverage query
Visibility into configurations of engineering artifacts	🔯 Pete	Track progress to relea	se using Dashboards
Act 4 - Report on release	Charles	Generate release	documentation

The PLE scenario explores the activities taken by the AMR product line delivery team to progress towards delivery of a Mobile AMR 2013 UK FP1 release resolving a product variant defect



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 - Act 4: Report on Release



Triage and Assign the Defect



The CCB reviews this defect on the – Mobile AMR 2013 UK product.

Pam, the product line manager, request that the defect should be fixed with high priority.

The defect is assigned to Dan, – a developer in the Meter Reader team.

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Defect 42	(?) ation error in mobile water sensor			è ® •	ā 🗐 🕌 🗞 🧇
Overview Links	Approvals History Time Tracking				Saved: May 16, 2014
Details					Quick Information
Туре:	Defect	▼ Owned By:	Dan	•	i Subscribers (2): N
Severity:	Oritical	✓ Priority:	High		
Found In:	Mobile AMR 2013 UK.GA 2013-12-01	✓ Planned For:	Unassigned	•	
Creation Date:	Oct 3, 2013, 12:35:00 PM	Estimate:	Correction:		
Created By:	Marco	Time Spent:			
Project Area:	AMR (CCM)	Constraint Type:	As Soon As Possible	-	
Team Area:	AMR (CCM)	Constraint Date:	None		
Filed Against: *	Mobile AMR 👻	Planned Start Date:	None		
Tags:		Planned End Date:	None		
		Due Date:	None		
Description K customer reporting e	error messages with the Mobile Meter Reader.				
Discussion					

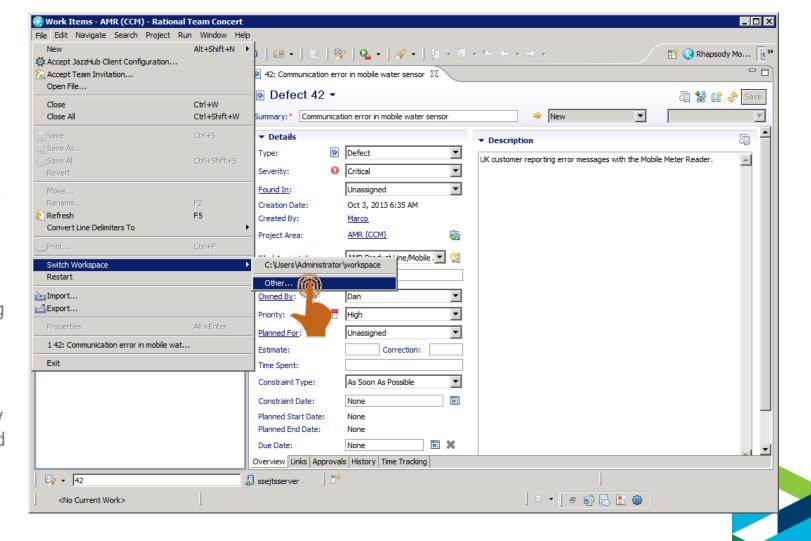
Open and Load Workspaces



Dan is notified of the defect in the Eclipse client

He suspends the task he is working on and starts reproducing the defect

He creates a new workspace to load the 2013 Mobile AMR UK GA baseline



Open and Load Workspaces

Meter Reader 2013 UK GA.2013-12-01 context _ 🗆 × 🔋 Open From Design Manager Open From Design Manager Open From Design Manager Server URL: https://ssejtsserver:9443/dm • Project Area: AMR (DM) -Mobile AMR 2013 UK.GA 2013-12-01 -Workspace: AMR Handheld Rovr • Mode Rational. Team Concert Version 4.0.5 Licensed Materia 💮 Workspace Launcher Jazz, Rational and trademark of Eclip: Select a workspace and/or its affiliates Rational Team Concert stores your projects in a folder called a workspace. Choose a workspace folder to use for this session. Jazz. Workspace: C:\Workspaces\Mobile AMR UK 2013 - Defect 218 • ? < Back Finish Cancel 🔲 Use this as the default and do not ask again OK Cancel



select the GA baseline



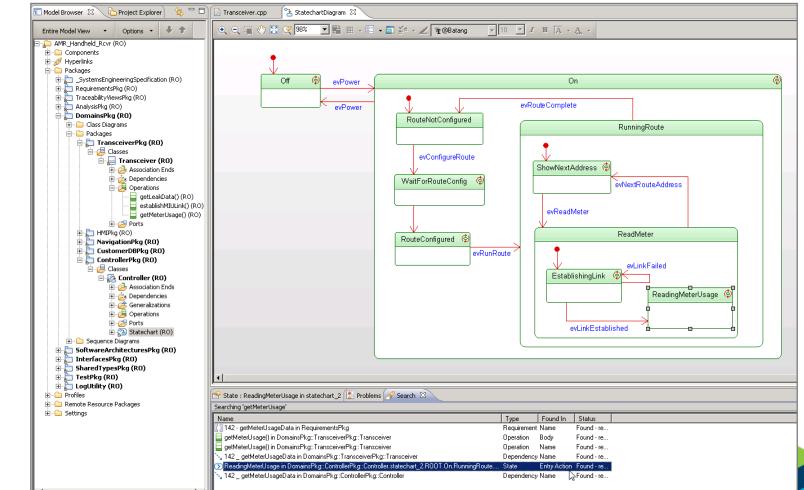
Open and Load Workspaces



Dan suspects the getMeterUsage() is causing the reported error.

He finds the defect in getMeterUsage()

He updates the work item with a link to the model element.





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Plan Fix and Release



Pete plans the delivery of the fixpack.

He creates a release plan.

He creates a task for Charles (Configuration Lead) to create a delivery configuration for FP1

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Overview	Links Approvals History	y Time			
Details					Quick Information
Туре:	Task 🛡	Owned By:	Charles	V	Subscribers (3): Charles, Pam, Susan
Severity:	Critical	Priority:	High		,,
Creation Date:	Jan 25, 2014 3:51:27 PM	Planned for:	Meter Reader 20	13 UK 💌	
Created By:	Pete	Time Or onto			
File Against:	Mobile AMR	Time Spent:			
		Due Date:	11		
Description					
@Charles, pleas Reader UK 201	se create a new delivery configuration v	with local stream contributions to	deliver the patch for M	leter	
https://ssejtsse	3 in RELM. erver:9443/relm/web/projects/AMR%2 e.view_pathpath=item_11%23branch_2				

Request new delivery configuration

(□ ⊂) × (∴)

Collaboration in context of Plans, Tasks and Configurations

https://jazz.net/jazz/web/projects/AMR%20Foundation%20%28Change%20Management

Task 238 - Change and Configuration Management - Mozilla FireFox

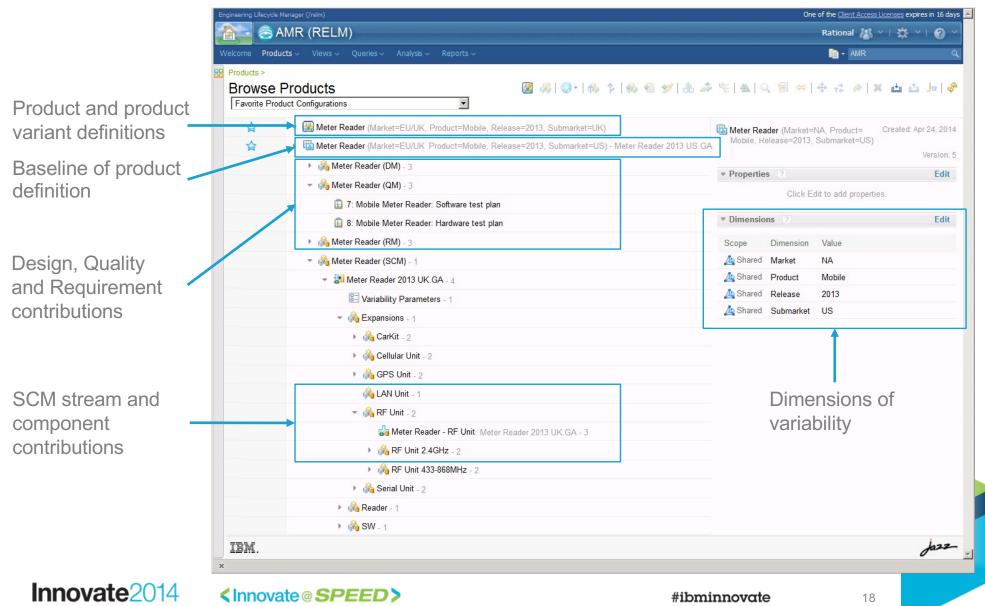


	Work Items > Task 238 Summary: Create a new delivery configuration for Meter R	eader UK 2013 FP1	Boot Q C Save
Charles is issigned a task to	Overview Links Approvals History Details	Time	Quick Information
create a delivery onfiguration for a Meter Reader FP1 He may follows	Type:TaskSeverity:CriticalCreation Date:Jan 25, 2014 3:51:27 PMCreated By:PeteFile Against:Mobile AMR	Priority: High	 Subscribers (3): Charles, Pam, Susan
links to product – configurations	Description @Charles, please create a new delivery configuration with lo Reader UK 2013 in RELM. <u>https://ssejtsserver:9443/relm/web/projects/AMR%20%2</u> <u>%29#action=ple.view_pathpath=item_11%23branch_2show</u> Discussion	8RELM	- -

(Q

Product configurations

Organization of product configurations w/ lifecycle components



Create product configuration stream from baseline

Branch action on product configurations (global configurations)



Charles creates a patch from the Meter Reader 2013 UK GA baseline

This command creates a product configuration stream without changing the versions of contributions

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		🗞 Cellular Unit - 2						
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		🕨 🦓 RF Unit 433-86	58MHz - 2					
		鶨 Serial Unit - 2						
	► 🖓 F	Reader - 1						
	ا 🖓 خ	SW - 1						
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Create engineering artifact stream from baseline



Charles creates streams for the engineering artifact contributions to the FP1 configuration Branch action on engineering artifact components (local configurations) 🥹 Project: Meter Reader (RMVVC) - Requirements Management (RM) - Mozilla Firefox - 🗆 × File Edit View History Bookmarks Tools Help Project: Meter Reader (RMVVC) - Requireme... + ۴ ۹ https://ssejtsserver:9443/m/web#action=com.ibm.rdm.web.pages.showProjectDashboard&projectURI=https%3A%2F%2Fssejtsserver%3A9443%2Frm%2Fproce 🟠 🛡 🧷 📗 શ 🔻 Google 俞 € 8 Meter Reader (RMVVC) 🖥 Meter Reader 2013 UK.GA-2013-12-01 💉 🛛 Charles 🔉 👋 🗒 😤 2 ject Dashboard Artifacts - Collections - Modules - Reports -Search Artifacts Meter Reader 2013 GA 2013-12-01 Meter Reader 2013 UK.GA-2013-12-01 Artifacts Search for more... E E Expand context.. - ID Artifact Type Modifie Create New Hardware Requirement 🗸 Name Create 83 Systems Template System Rational ▶ Views A Specification Workspace (0) ▶ Filter by Tag 84 Stakeholder Template Stakeholder Ra Add to Global Con Specification Filter by Attribute 716 Stakeholder Template Requirements Rational lanage Configurations ▼ Filter by Folder A Specification Edit 'Meter Reader 2013 UK.GA-2013 829 Systems Template Requirements Rationa Beter Reader (RMVVC) Open Configuration Management Specification া 🗁 _Stakeholder Template Folder Manage Change Sets 🗉 🗁 Stakeholder Template Folder A Explore Change Sets. 🗉 🗁 Systems Template Folder 🗄 🧁 _Systems Template Folder Baselines Reviews Recent Comments Showing 4 of 4 Artifacts • 11 Jazz-IBM.

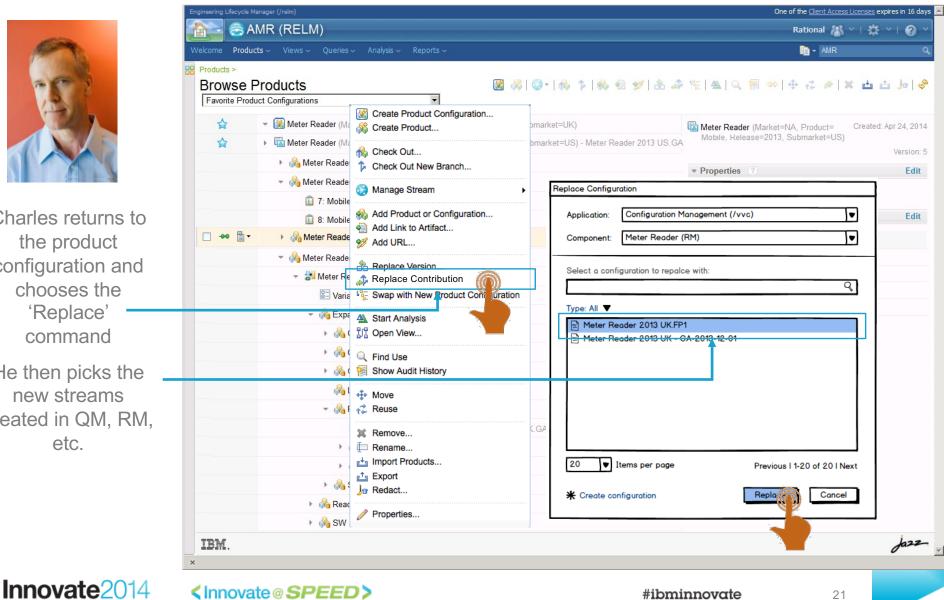
Replace baseline with stream contribution

Update action on product configuration to replace component variant



Charles returns to the product configuration and chooses the 'Replace' command

He then picks the new streams created in QM, RM, etc.



Navigate artifacts and links in configuration

Artifacts and links shown in selected configuration context

Meter Reader 2013 UK FP1 context



Dan edits artifacts and links in the context of the delivery configuration

He fixes the getMeterUsage() operation in RDM

He follows the link to the impacted requirement in the context of the delivery configuration

🔕 Meter Reader (RMVVC) 🔞 Meter Reader 2013 UK - FP1 Dan 🔏 🗠 | 🛱 ≚ 2 💼 👻 Search Projects Meter Reader (RMVVC) > Requirements > Meter Reader Requirements > 🖉 No Tags Defined 951: Meter Reader Subsystem Requirements Specification 🔞 🌆 🚰 🗐 💭 🖻 🔐 🔗 🔤 Edit Overview 📜 All 🝷 🔚 🔊 🔍 951: Meter Reader Subsystem Requirements Views ID Contents Specification Description ◄ ∎▼ ٠ Search Views 630 The Handheld Meter Reader unit provides configuration capability and can be used to Project Meter Reader (RM\A/C) configure Meter Interface units during installation time. Team Ownership: Meter Reader (RMVVC) Meter Reader Subsystem 631 The Meter Reader unit supports two-way communication (download/upload) capabilities to Content Folder: Requirements Specification download data from Meter Interface units, as well as to 'push' interval data requests, firmware artifacts updates, and updated monitoring schedules via the wired or RF connection. Created On: Dec 9, 2013, 5:29:10 AM The Handheld Meter Reader unit has two battery slots and operates for up to 16 hours with 632 Created By: Rational two batteries, and only takes a quick 2-4 hours to fully charge. The batteries are Modified On: Dec 9, 2013, 5:29:10 AM warm-swappable in the field, ensuring continued use without losing any data Modified By: Rational 633 The Grid Meter Reader has one battery position and operates for 1 week. The battery is Is Suspect: Select a profile recharged by a solar panel. 634 The Handheld Reader unit supplies a car mount kit that charges the unit and connects to the Type: Requirements Specification car audio system via Bluetooth technology Format 📄 Module 635 •2.3 User Characteristics Approved By Approver Position The Handheld Meter Reader unit has a touch-screen user interface and provides finger-friendly 636 on-screen keyboard. 637 •2.4 General Constraints **Derives From** 638 669: When commanded, the Meter Reader shall request and receive usage data the Meter Interface Unit (MIU) application updates. **□** 1004 The Meter Reader unit shall use IEEE-123 protocol for communication with the Meter Interface Uni 🐚 Save Artifact Mptions and Dependencies Cancel Edits to this Artifact The Meter R it shall be compatible with existing Meter Interface units in use Module Baselines The Meter P unit depends on the data communication protocol defined by the Meter 641 Interface. Module Comment ·3 Specific Requirements Artifact Comment: 642 Filter by Tag Module Links 640 0.4. Examplian al Disputies as Filter by Attribute Where Used Showing 77 of 77 Artifacts 1 selected (Clear All Selected) Jazz IBM

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Validate Defect Resolution



Tony validates the defect fix.

He searches for updated requirements and marks impacted test cases as suspect

He updates the test cases and runs the test plan

Meter Reader (QM) 🧕 Meter Reader 2013 UK.FP1 🗡 - Tony 🔠 👋 | 🛱 🕚 💼 - Search QM Resources Test Plans > Tracked by Quality. E, 1: Handheld Receiver: Software test plan Cancel Save 🗈 🖉 🔏 🖶 🗸 Related Sites IBM Rational Test Case Execution (Record) Progress: Sections 📝 Draft State: Action Change State • IBM Rational Quality Momt Summary • Originator: Mike Owner Mike Total: 0/0 h Estimated: 0% Progress:375 Total:375 Tests Development Plans Business Objectives Priority: 🗖 High • Test Suite Execution (Record) Progress: Meter Reader UK 2013 - FP1 Test Objectives Pelease Plan - Mobile AMR Formal Review **Reconcile Requirements** 13.FP1 Requirement Collection Links alidates Requirement Sets Pending Actions Development Plan Links Requirements changed since the last reconciliation Handheld Unit Software Reconcile Updated Items Risk Assessment The following requirements have changed so the Test Cases associated with them may be suspect. Mark Test quirements: Test view Test Schedules Cases as suspect by selecting requirements and clicking the Mark As Suspect icon, create Quality Task if there are Test Estimation follow up actions needed. Mark Test Cases as not suspect (clear suspicion), by selecting requirements and clicking the Clear Suspicion icon. Defer making a decision by selecting requirements and clicking the Ignore icon. Test Environments Quality Objectives Type Filter Text B_ Entry Criteria Exit Criteria Show All 💌 Items per page I I Previous | 1-1 of 1 | Next ► Ъ 🧶 🕺 Test Suites Summary Linked Test Cases Status Action Test Cases HHU-SW-163: The Han.. Test Case Execution Record Modified R HHU-SW-163: display Mark Suspect Resources IN Previous | 1-1 of 1 | Next ► Attachments Show All Sections Create a new Quality Task Manage Sections Finish Snapshots History Cancel Save 🗈 🖉 🔏 🖬 • 🖑 Jazz-IBM.

Meter Reader 2013 UK FP1 context

Baseline engineering artifact stream

Baseline actions on component stream (local configurations)

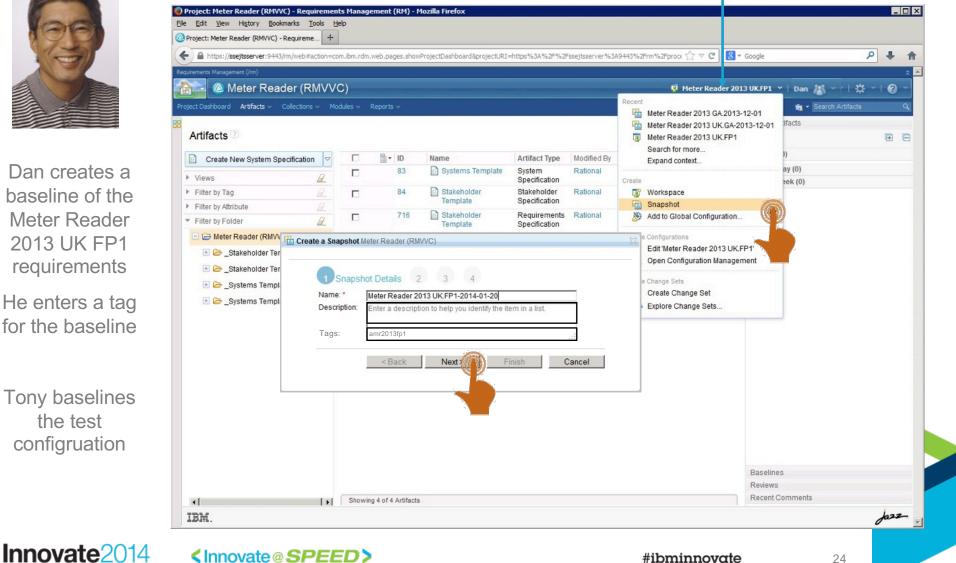


Dan creates a baseline of the Meter Reader 2013 UK FP1 requirements

He enters a tag for the baseline

Tony baselines the test configruation

Meter Reader 2013 UK FP1 context



Assemble baselines using tags

Assisted action on product configuration stream (global configurations)



Charles expand the Meter Read FP1 product configuration He selects the product configuration a assembles baselines for a streams in the configuration

	ingineering Lifecycle Manager (/relm)	One of the <u>Client Access Licenses</u> expires in 16 days 🛌
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	☆ Meter Reader (Market=NA, Product=Mobile, Release=2013, Submarket=US) - Meter Reader 2013 US.GA 2	01
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Find Use of Component



Dan has identified that the defect is in the 2013 UK variant of the RF-Unit (SCM)

Charles opens the Meter Reader.

He selects the RF Unit in the UK variant.

> He runs the Find Use command

	MR (RELM)	
	ts v Views v Queries v Analysis v Reports v Upgrade Status	i 🗈 👻 🗖 unit
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	Meter Reader.SS (DM) (Geography=UK, Product=Mobile, Release=2013) - 6	UK.GA - 2 Created: May 20, 2 Modified: May 20, 2
	Meter Reader.SS (QM) (Geography=UK, Product=Mobile, Release=2013) - 5	Rational
	Meter Reader.SS (RM) (Geography=UK, Product=Mobile, Release=2013) - 7	Connected Component:
	👻 🗞 Meter Reader.SS (SCM) (Geography=UK, Product=Mobile, Release=2013) - 4	Baseline: Meter Reader 2013 UK.GA
	- → → → → → → → → → →	Rational Team Concert Server: Rational Team Concert (/ccm) Original Stream ID: kii1J988EeO8cfrM4u_htw
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	Reader - 1	
	▶ 🆓 SW - 1	

Find Use of Component



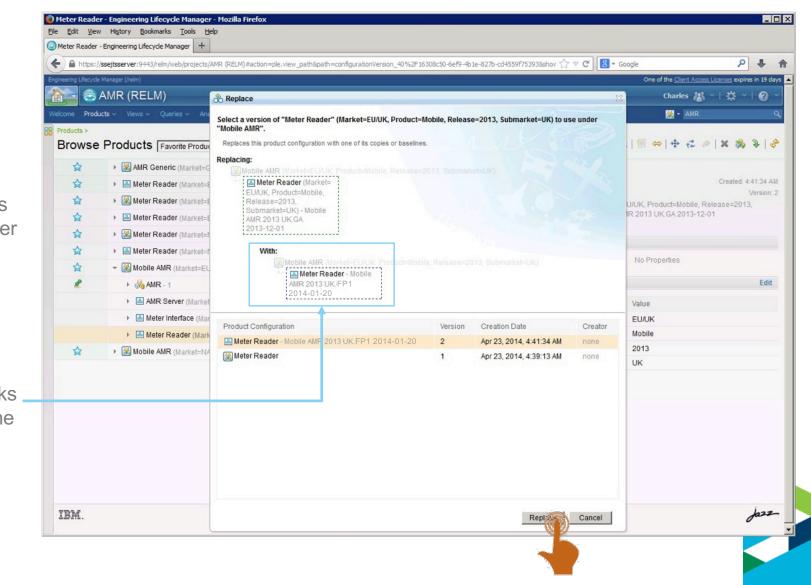
Con .	Welcome Products Views Velcome Queries V	Analysis 🗸 Reports 🗸 Upgrade Status			📑 👻 👖 unit	
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	Meter Reader.SS (Geography=UK, Product=Mobile, R Reader.SS Mobile 2013 UK.GA 2013	elease=2013) - Meter (Geogra	phy=UK, Product= Release=2013) - 4 (Geo	Reader - K graphy=UK, uct=Mobile) - 5	RF Uni: Unit 2.4GHz 1 1	- RF Unit 2.4Gi : Meter Reader 20' UK.GA - 2
arles identifies oduct variants ocluding the fect in Meter Reader			Show in product tr	<u> </u>		
confirms that only the < variant is						
acted by the efect in the variant of the RF-Unit						

Update Mobile AMR Product Baseline



Charles selects the Meter Reader 2013 UK GA baseline contribution

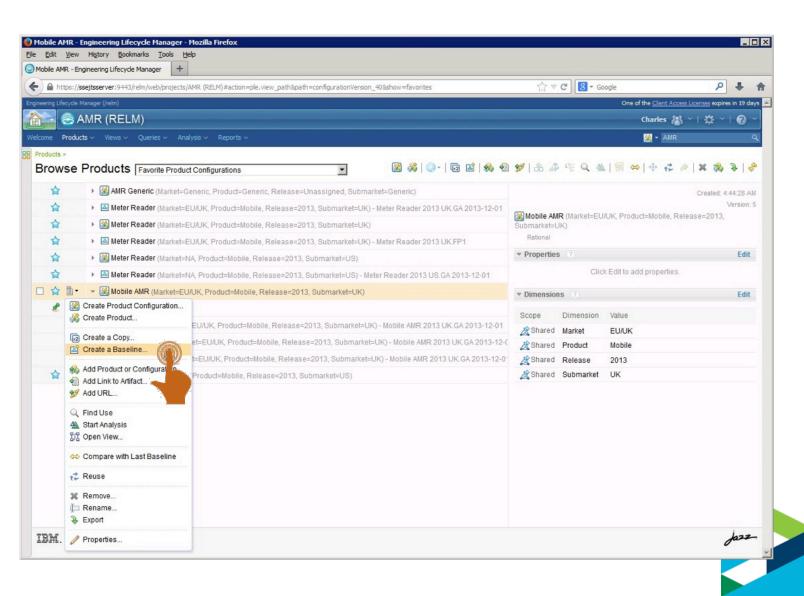
He chooses replace and picks the FP1 baseline



Update Mobile AMR Product Baseline



Charles creates a baseline of the Mobile AMR 2013 UK FP1 product



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