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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

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.

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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.



IBM Design Thinking

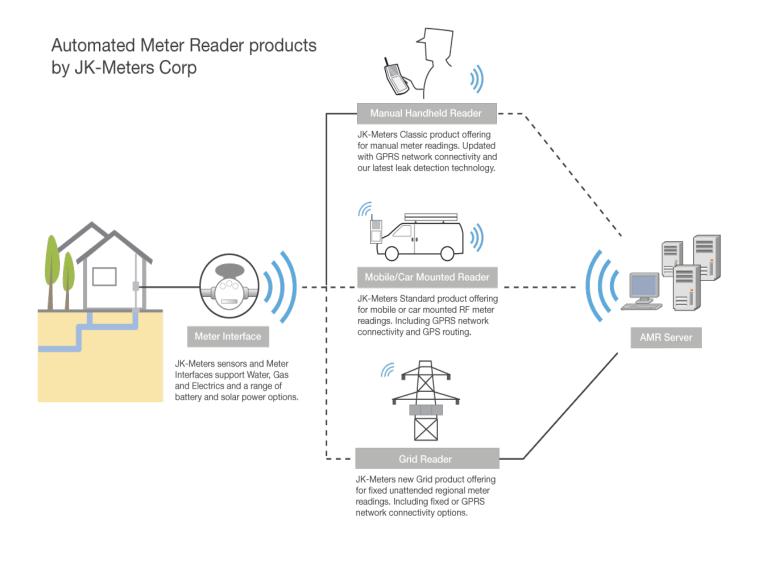




Release Hills for PLE

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

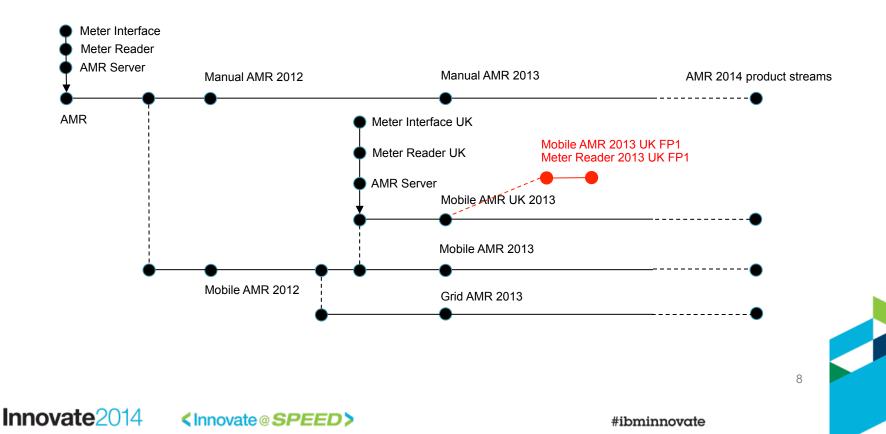


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PLE Scenario Context

- 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



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			
	S 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	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			
5 5 1 1	Charles		Replace baselines			
Hill 3	👰 Tammy	Create requirements / q	uality coverage query			
Visibility into configurations of engineering artifacts	🕵 Pete	Track progress to release	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

Agenda

- IBM Design Thinking
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 - Act 3: Update Product Line
 - 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	<u>?</u>]				i 🖹	ā 🗐 🚼 👼 🛷
ummary: * Communica	ation error in mobile water sensor				⇒ New	\$ Saved: May 16, 2014
Overview Links	Approvals History Time Tra	cking				
Details						Quick Information
Туре:	Defect	•	Owned By:	Dan	•	i Subscribers (2): M
Severity:	Oritical	-	Priority:	High	•	
Found In:	Mobile AMR 2013 UK.GA 2013-12-0	1 👻	Planned For:	Unassigned	•	
Creation Date:	Oct 3, 2013, 12:35:00 PM		Estimate:	Corr	ection:	
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	- 72	Planned Start Date:	None		
Tags:			Planned End Date:	None		
			Due Date:	None	<i>…</i>	
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Open and Load Workspaces



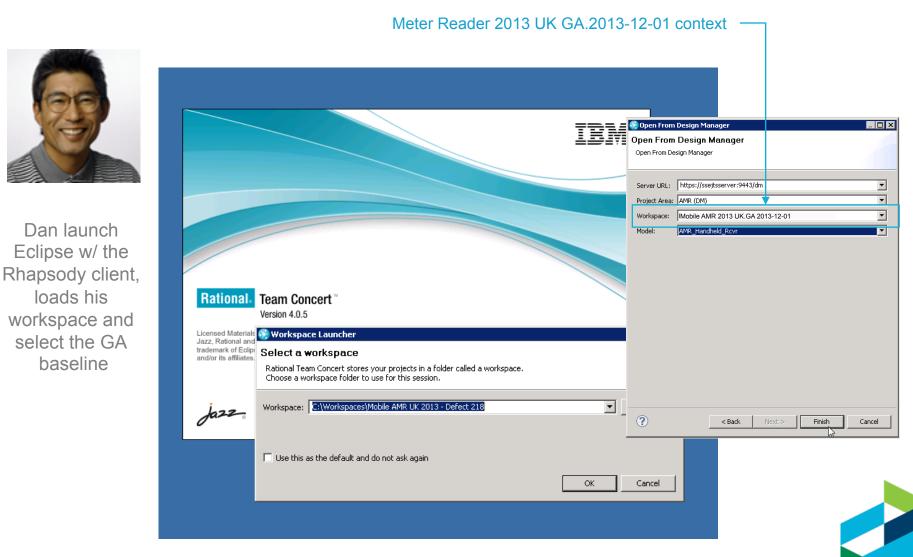
Dan is notified of the defect in the Eclipse client

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

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Close Close All	Ctrl+W Ctrl+Shift+W	-	tion error in mobile water sensor	Rew ▼	9 E£ 🛷 5:
Save	Ctrl+S	▼ Details		▼ Description	6
Save As Save All Revert	Ctrl+Shift+S	Type: 🔅 Severity: 0	Defect Critical	UK customer reporting error messages with the Mobile Meter Read	
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Rename	F2	Creation Date:	Oct 3, 2013 6:35 AM		
🗞 Refresh	F5	Created By:	Marco		
Convert Line Delimiters To	+	Project Area:	AMR (CCM)		
🖻 Print	Ctrl+P		Internet ine/Mobile		
Switch Workspace	•	C:\Users\Administrator	workspace		
Restart		Other			
Mport		Owned By:	Dan 💌		
ZExport		Priority:	High 💌		
Properties	Alt+Enter	Planned For:	Unassigned 💌		
1 42: Communication error in mobile wat		Estimate:	Correction:		
Exit		Time Spent:			
		Constraint Type:	As Soon As Possible		
		Constraint Date:	None		
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		Overview Links Approva	ls History Time Tracking		
₽ • 42		ssejtsserver			

Open and Load Workspaces



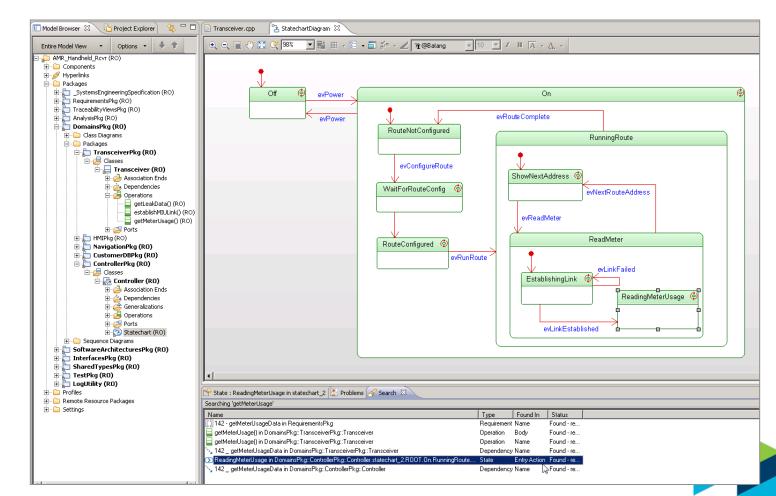
Open and Load Workspaces



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.



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

▽ Q AMR Project Dashborad	(CCM) Work Items Plans Source	e Control Reports				arles 🛱 v I 🎲 v I 🕐 V Search Work Items
Vork Items > Task 238						ළු ත් 🤇 🗂 Save
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Details Type:	Task	2	Owned By:	Charles		Quick Information
Severity: Creation Date:	Critical Jan 25, 2014 3:51:27 PM		Priority: Planned for:	High Meter Reader 2013	UK V	
Created By: File Against:	Pete Mobile AMR	·	Time Spent:			
Description			Due Dute.		_] ===	
@Charles, pleas	se create a new delivery configu 3 in RELM.	uration with local stree	am contributions to	deliver the patch for Met	er	
Created By: File Against: Description @Charles, pleas	Pete Mobile AMR	-	Time Spent: Due Date:			

Request new delivery configuration

Collaboration in context of Plans, Tasks and Configurations

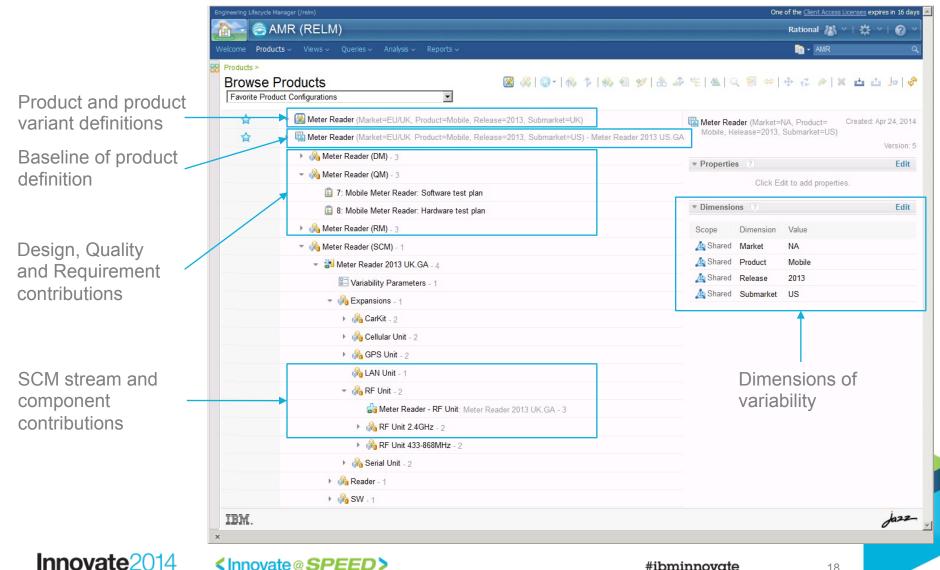
Task 238 - Change and Configuration Management - Mozilla FireFox



C C × A C ⊂ × A Project Dashbor Work Items > Task 238	MR (CCM)		Ch E T	arles 街 v I 袋 v I ⑦ v 7 Search Work Items Q 學 1 句 Q 白 Save
Charles is assigned a task to create a delivery configuration for a Meter Reader FP1 He may follows links to product configurations Description @Charles, p Reader UK	Pete Mobile AMR ↓▼	Time Owned By: Charles Priority: High Planned for: Meter R Time Spent: Due Date: 1 /	eader 2013 UK	Quick Information

Product configurations

Organization of product configurations w/ lifecycle components



Create product configuration stream from baseline



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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👻 😹 Meter Reader (Market=EU/UK, Produ	ct=Mobile, Release=2013, Submarket=UK)	Meter Reader (Market=NA, Product= Created: Apr 24, 20
Meter Read	======================================	Mabla Kalansa=2013 Submarkat=US)
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GPS Unit - 2		
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► 🖓 Serial Unit - 2		
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Branch action on product configurations (global configurations)

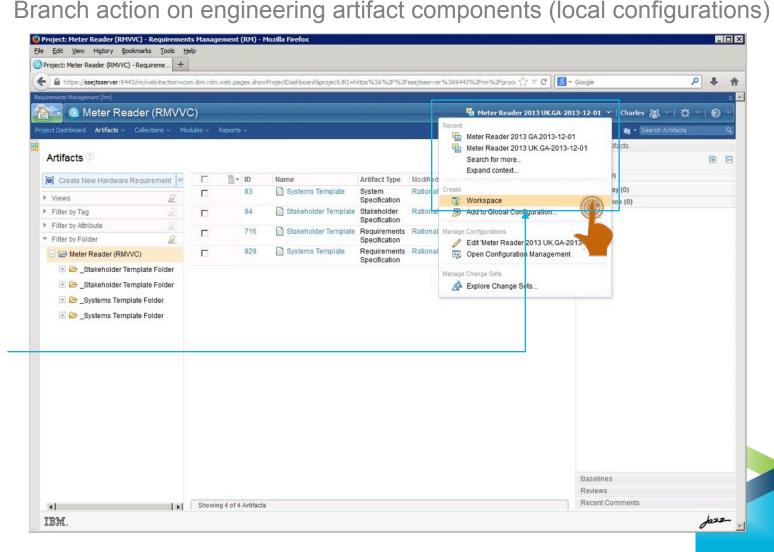
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Create engineering artifact stream from baseline



Charles creates streams for the engineering artifact contributions to the FP1 configuration



Replace baseline with stream contribution

🙈 AMR (RELM)



Charles returns to the product configuration and chooses the 'Replace' command He then picks the new streams created in QM, RM, etc.

Products ~ - AMR Products > Browse Products 📓 🖓 - 🕼 🌾 🧠 🧐 🖋 🚖 🦆 😤 🗛 🔍 🗑 👄 🛧 🦽 🖄 📩 👘 Favorite Product Configurations K Create Product Configuration... Meter Reader (M) bmarket=UK) A Create Product... Meter Reader (Market=NA, Product= Created: Apr 24, 2014 Mobile, Release=2013, Submarket=US) Meter Reader (M) bmarket=US) - Meter Reader 2013 US.GA i Check Out... Version: 5 Meter Reade Check Out New Branch... Properties Edit Meter Reade 🕥 Manage Stream **Replace Configuration** 1 7: Mobile ┓ Add Product or Configuration... Configuration Management (/vvc) Application: Edit 8: Mobile Add Link to Artifact... Meter Reade Meter Reader (RM) • Component: 49 Add URL... 🝷 🗞 Meter Reade Replace Version Select a configuration to repalce with 👻 📩 Meter 🖡 A Replace Contribution Q Varia 4 Swap with New Product Content uration Type: All 🔻 🔻 💸 Expa A Start Analysis Meter Reader 2013 UK.FP1 Ale Ale Open View... Heter Reader 2013 UK - CA-2013-12-01 ۱ 🇞 ۱ G Find Use [Show Audit History A A 1 Arr Move 🝷 🔏 l 🦽 Reuse Remove... E Rename... Import Products.. Items per page 20 Previous I 1-20 of 20 | Next 1 Export la Redact... * Create configuration Repla Cancel 🕨 🖓 Read Properties.. 🕨 💑 SW Jazz IBM.

Update action on product configuration to replace component variant

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Navigate artifacts and links in configuration

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Showing 77 of 77 Artifacts

Cancel Edits to this Artifact

The Meter R

The Meter R

1 selected (Clear All Selected)

Interface

Artifacts and links shown in selected configuration context



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

He fixes the getMeterUsage() operation in RDM

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

Meter Reader 2013 UK FP1 context Meter Reader (RMVVC) 💀 Meter Reader 2013 UK - FP1 \vee 🛛 Dan 🗥 👋 | 🚔 🗡 | 2 📷 👻 Search Projects Meter Reader (RMVVC) > Requirements > Meter Reader Requirements > # No Tags Defined 🜔 951: Meter Reader Subsystem Requirements Specification 👻 🛱 🚰 🛱 💭 🛅 🔐 🚸 Edit Overview Create New System Requirem 📜 All 🝷 🔚 🖟 🔍 951: Meter Reader Subsystem Requirements Views ID Contents Specification Description ິ ___ ₪ Search Views 630 The Handheld Meter Reader unit provides configuration capability and can be used to Project: Meter Reader (RMVVC) configure Meter Interface units during installation time. Team Ownershin: Meter Reader (RMWC) 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 Γ 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 The Grid Meter Reader has one battery position and operates for 1 week. The battery is 633 Is Suspect Select a profile recharged by a solar panel. The Handheld Reader unit supplies a car mount kit that charges the unit and connects to the 634 Requirements Specification Type: car audio system via Bluetooth technology. 📄 Module Format 635 •2.3 User Characteristics Annroved By Approver Position: П 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.

The Meter Reader unit shall use IEEE-123 protocol for communication with the Meter Interface Unit ptions and Dependencies it shall be compatible with existing Meter Interface units in use Module Baselines Unit depends on the data communication protocol defined by the Meter Module Comment Artifact Comments 3 Specific Requirements Module Links 2.4. Europhian al Diaminana anta Where Used Jazz-

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Filter by Tag.

IBM.

Filter by Attribute

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

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)evelopment Plan Links Risk Assessment	Reconcile Updated Items	Requirements changed since the la	st reconciliation			Handheld Unit Software
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Baseline engineering artifact stream

Baseline actions on component stream (local configurations)

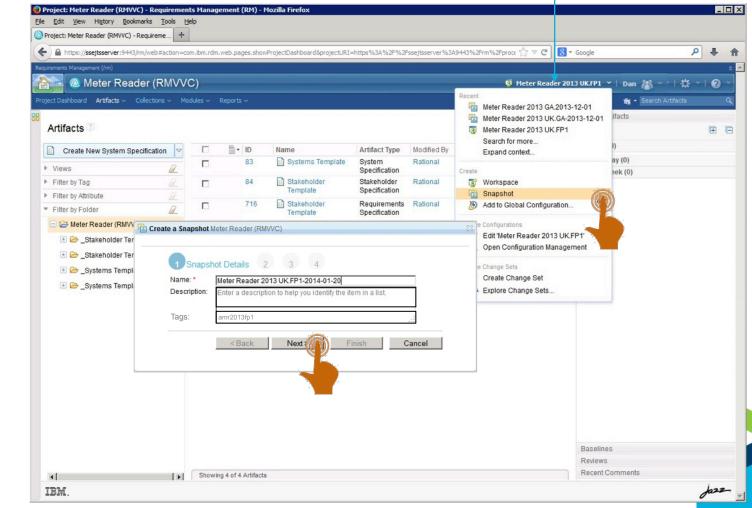


Dan creates a baseline of the Meter Reader 2013 UK FP1 requirements

He enters a tag for the baseline

Tony baselines the test configruation

Meter Reader 2013 UK FP1 context



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Assemble baselines using tags

Assisted action on product configuration stream (global configurations)



Charles expands the Meter Reade FP1 product configuration

He selects the product configuration and assembles baselines for all streams in the configuration

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습	Meter Reader (Market=EU/UK, Product=Mobile, Re Meter Reader (DM) - 3 Assemble Baselin	Meter Reader (Market=NA, Product= Created: Apr 24 Mobile, Release=2013, Submarket=US) Modified: Apr 24
	👻 💑 Meter Reader (QM) - 3	Properties
	🗉 7: Mobile Meter Reader: Software test plan	
	8: Mobile Meter Reader: Hardware test plan	Click Edit to add properties.
	Assemble Baseline	▼ Dimensions
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	Meter Reader (Market=NA, Product=Mobile, Release=2013, Submarket=US) - Meter Reader 2013	US.GA 201
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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

elcome Produc	ts v Views v Queries v Analysis v Reports v Upgrade Status	iliar y 🗗 unit
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	 Meter Reader.SS (Geography=UK, Product=Mobile, Release=2013) - Meter Reader.SS Meter Reader.SS (DM) (Geography=UK, Product=Mobile, Release=2013) - 5 Meter Reader.SS (QM) (Geography=UK, Product=Mobile, Release=2013) - 7 Meter Reader.SS (SCM) (Geography=UK, Product=Mobile, Release=2013) - 7 Meter Reader.SS (SCM) (Geography=UK, Product=Mobile, Release=2013) - 4 Meter Reader - Mobile UK (Geography=UK, Product=Mobile) - 5 Variability Parameters (Geography=UK, Product=Mobile) - 6 Water Reader - Mobile UK (Geography=UK, Product=Mobile) - 6 Meter Reader - Mobile UK (Geography=UK, Product=Mobile) - 6 Meter Reader - 1 Meter Reader - RF Unit: Meter Reader 2013 UK.GA - 2 Meter Reader - RF Unit 2.4GHz: Meter Reader 2013 UK.GA - 2 Meter Reader - RF Unit 2.4GHz: Meter Reader 2013 UK.GA - 2 	
	 Magazina Serial Unit - 1 Magazina Serial Unit - 1 	

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Find Use of Component



Charles identifies product variants including the defect in Meter Reader He confirms that only the UK variant is impacted by the defect in the

UK variant of the RF-Unit

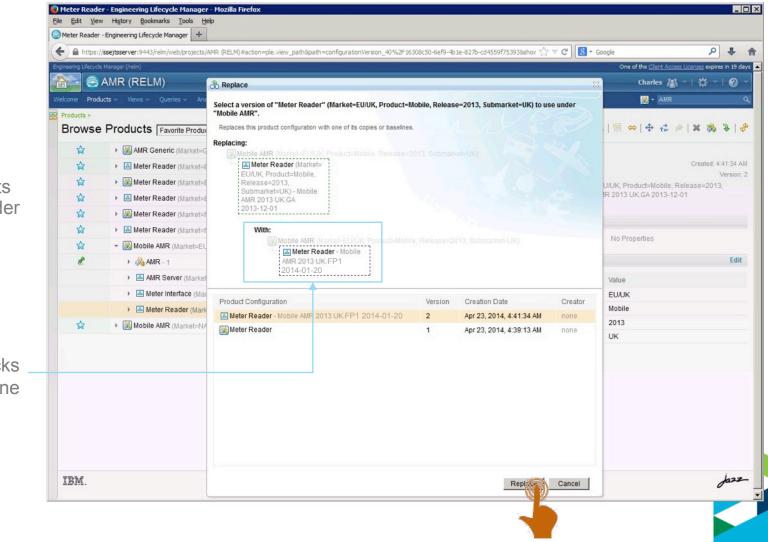
Find Use - Meter Reade Meter Reader - RF Unit 2.4GHz: Meter R			005'			Type to filte	er results	
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(Geography=UK, Product=Mobile, Reader.SS Mobile 2013 UK.GA 20	Release=2013) - Meter 13-12-01	Meter Reader.S (Geography=Uł Mobile, Release	(, Product= =2013) - 4	Meter Read Mobile UK (Geography Product=Me product tree	y=UK,	Expansions	RF Unit 1	- RF Unit 2.4
↓ ↑								1

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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	😡 Create a Copy	et=EU/UK, Product=Mobile, Release=2013, Submarket=UK) - Mobile AMR 2013 UK.GA 2013-12-0			Mobile		
	Create a Baseline	t=EU/UK, Product=Mobile, Release=2013, Submarket=UK) - Mobile AMR 2013 UK.GA 2013-12-0*	Shared		2013		
습	Add Product or Configuration Add Link to Artifact	Product=Mobile, Release=2013, Submarket=US)	Shared	Submarket	UK		
	1 Add Link to Annacc	A					
	Q. Find Use						
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