

Enable Requirements Reuse Via Advanced Workflows And Work Item Links

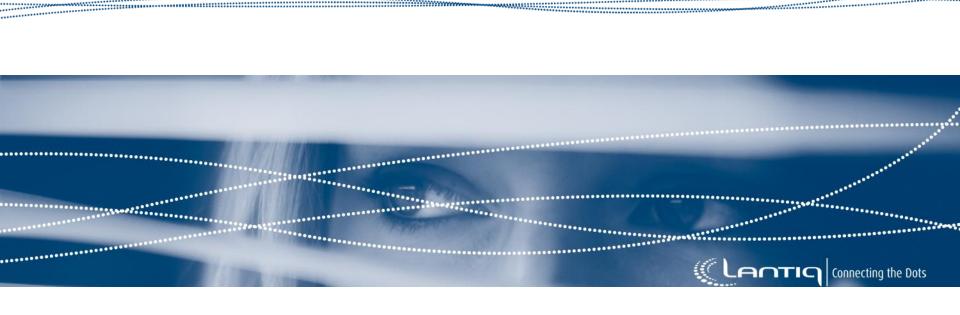
A different way to combine release, feature and requirement linking with workflow capabilities at Lantiq

Polarion User Conference 2014

Bernhard Doleschel

Stuttgart, 2014-10-14

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Why Do We Need Advanced Workflows and Linking?

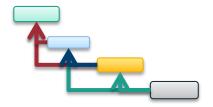
Challenge @ Lantiq



Options



Solution



Benefits





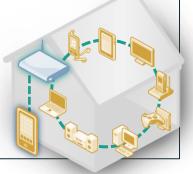
Lantiq at a Glance

Key Facts

- ~800 employees
- Broadband industry leader
- 100M+ chips shipped/year
- Fabless

Focus Markets

- High Speed Broadband & Services
- Connected Home
- Home Automation
- Voice Products



Continuous Innovation

- 70% R&D employees
- Strong IP position: 2,000+ patents
- Premier customer base
- Very active in standards committees

Clobal Presence Locations Main R&D Locations Other Locations



Polarion @ Lantiq

2012: Evaluation Req. Tools

2013: Setup of Polarion

2014: Change Usage Model



- 17 Projects
- 10k Work Items
- 200 pot. Users
- ~20 active Users
- Linux VM on ESXi Cluster, 4 CPU
- 8 GB RAM
- 10 GB NFS Filer Share
- HP ALM & Atlassian Jira sync
- Ext: Wiki Scripting, LDAP sync, Visio Plugin with REST

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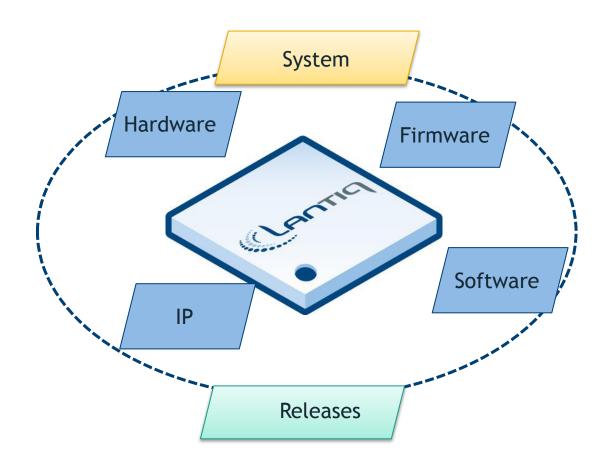
IT Business Analyst



Requirement Engineering Verification & Test Management Technical Documentation



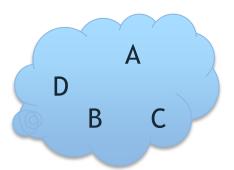
Product Development



Roles: Marketing, System Engineering, Architect, System Development, Verification, Documentation, ...



Targets



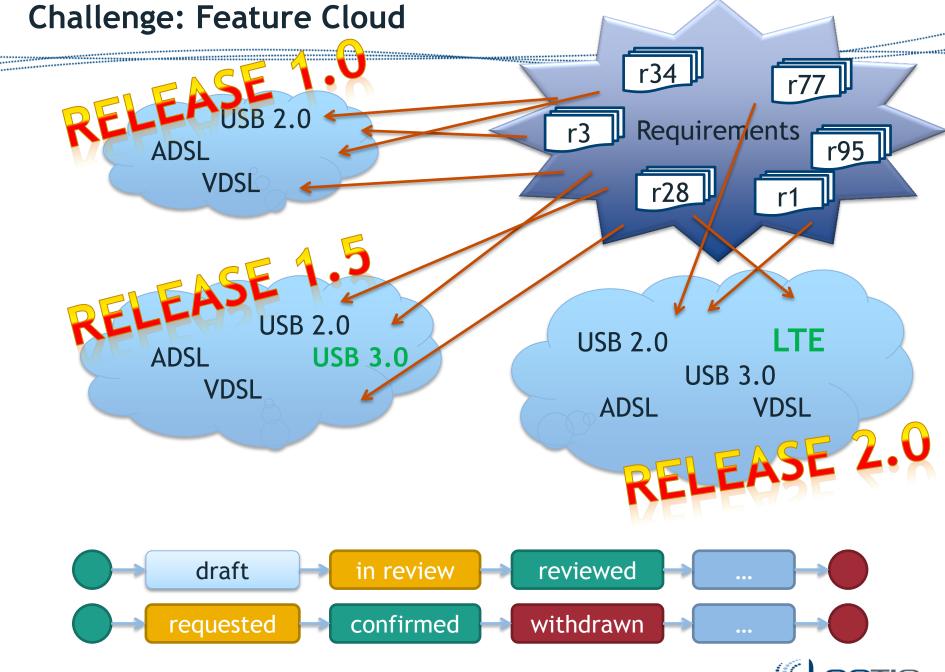
- Handling of
 - Release
 - Features
 - Requirements
 - Tests, ...
- Reuse items keep the overview!



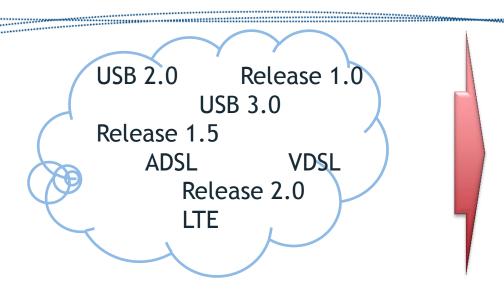
- Workflows for
 - Item status
 - Project planning
- Relation Management





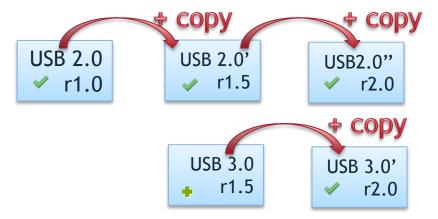


Option: Out-of-the-box-approach





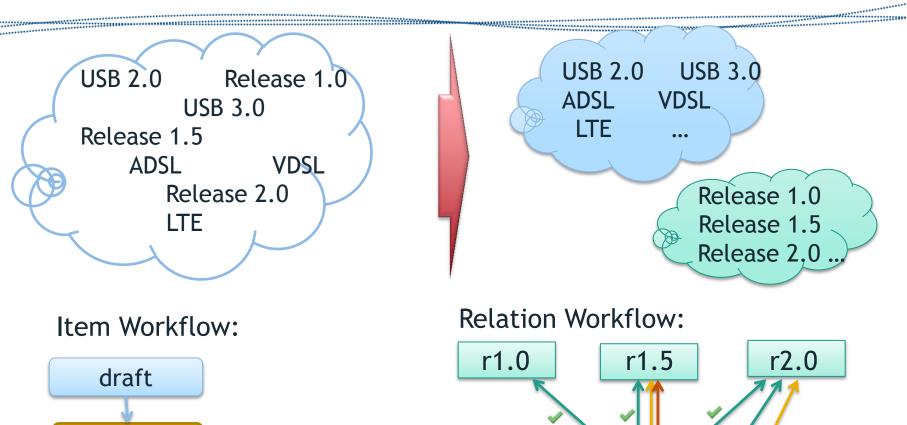
```
State: { + / x ...}
Release:
{1.0, 1.5, 2.0, ...}
```



- X Handling of release: no details
- X No reuse
- ✗ Workflow combined
- X Relation setup additionally
- X Overview lost

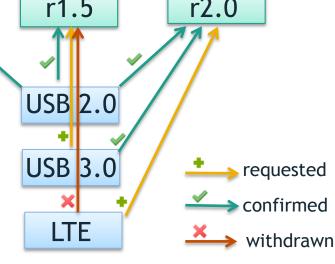


Option: Lantiq's Way

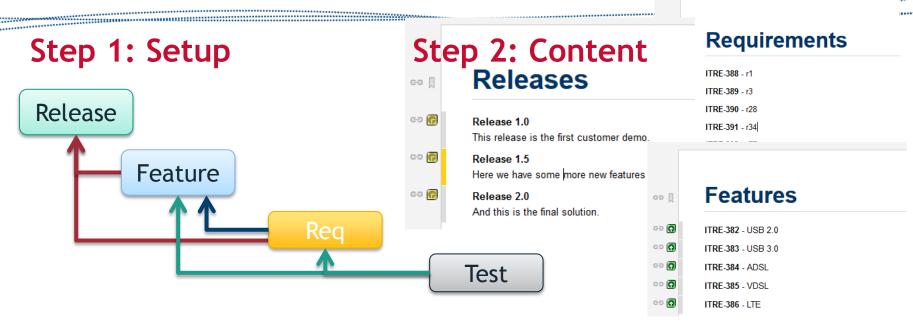


in review
reviewed

- ✓ Separate Handling of all kind of Items
- ✓ Reuse as Unique
- **✓** Different Workflows
- ✓ Organized Relations



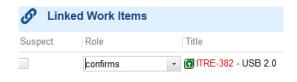
Setup of Lantiq's Way



Step 3: Link









But ...

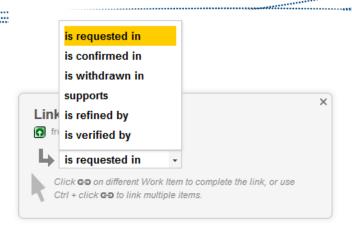
- Link Setup
 - > KISS-principle
 - > Think well on structure
 - > Planning workflow: few steps only

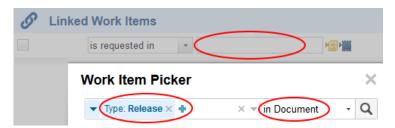
Linking Work

- > Time consuming: one-by-one
- > Remember ID's
- "Referenced Release" in requirement document

Overview

- > Slow work item properties window
- ➤ Long link lists
- Matrix view limited (order)







09/10/14



Lantiq Extension: Wiki Page "Workitem Matrix"

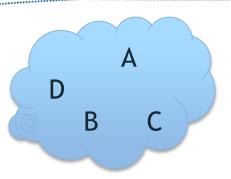
- Macro based
- Preset of Columns
- Preset of typical row items
- flat or structure listing
- Checkboxes for planning actions
- Export to PDF and Excel

- But ...
 - Development effort/cost
 - Usability / Performance

outlineNumber	WorkItem		Felease 1.0	
	ITRE-387 Features			
1	☐ ITRE-395 USB Features			
1-1			✓	✓
1-2		-		+
2	☐ ITRE-396 Communication			
2-1			✓	✓
2-2		-	✓	✓
2-3	☐ ITRE-386 LTE	+		✓
Amount of provided Workitems by role		✓ = 4	✓ = 3 + = 0 × = 0	✓ = 4+ = 1× = 0
9 items found				



Achievements



- Handling of
 - Release
 - Features
 - Requirements
 - Tests, ...

✓ Separate Handling of all kind of Items

Reuse items - keep the overview!



- Workflows for
 - Item status
 - Project planning
- Relation Management



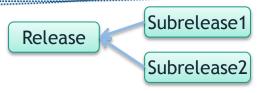
- ✓ Reuse as Unique
- ✓ Different Workflows

✓ Organized



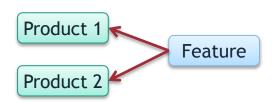
Additional Benefits

Product & Release Tree



■ Feature Overview Table for customer

■ Define Features, Requirements, ... only one time



Link Req to development specification / task







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Meeting January 2015