

Experience with Polarion as ALM-Tool

Alcon[®]

Werner Motzet – WaveLight GmbH – 14th October 2014

a Novartis company

Overview

- Introduction
- Why Polarion (and not XX or YY or ZZ)?
- Our Rollout
- Result: What does WaveLight do with Polarion?
- Your Questions
- “Closing Tips”
- Contact data

Introduction

- **Introduction**
 - **Disclaimer**
 - **The company WaveLight (- Alcon – Novartis)**
- Why Polarion (and not XX or YY or ZZ)?
- Our Rollout
- Result: What does WaveLight do with Polarion?
- Your Questions
- “Closing Tips”
- Contact data

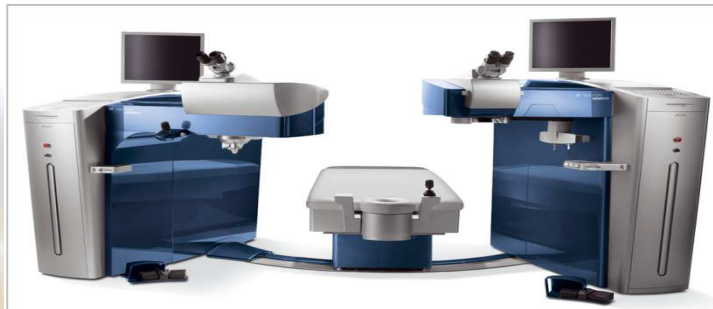
Overview product portfolio

Lasersystem

www.refractivesuite.com



WaveLight® Refractive Suite



WaveLight® FS200

WaveLight® EX500



ALLEGRETTO WAVE® Eye-Q

Diagnostic devices



WaveLight® Analyzer II



WaveLight® Oculyzer II



WaveLight®
Topolyzer VARIO



WaveLight® OB820



WaveLight GmbH

Company profile

Alcon[®]

a Novartis company

Company profile WaveLight GmbH

- Founded in 1996
- Since 2009 100% subsidiary of Alcon (US-Company) and thereby part of Novartis
- market- and technology leader in the development and production of modern diagnostic- and surgery technology for the correction of myopia and hyperopia
- Est. 250 employees on 3 locations: Erlangen, Pressath and Berlin
- since November 2004 all WaveLight®-Products are produced in Pressath

Why Polarion?

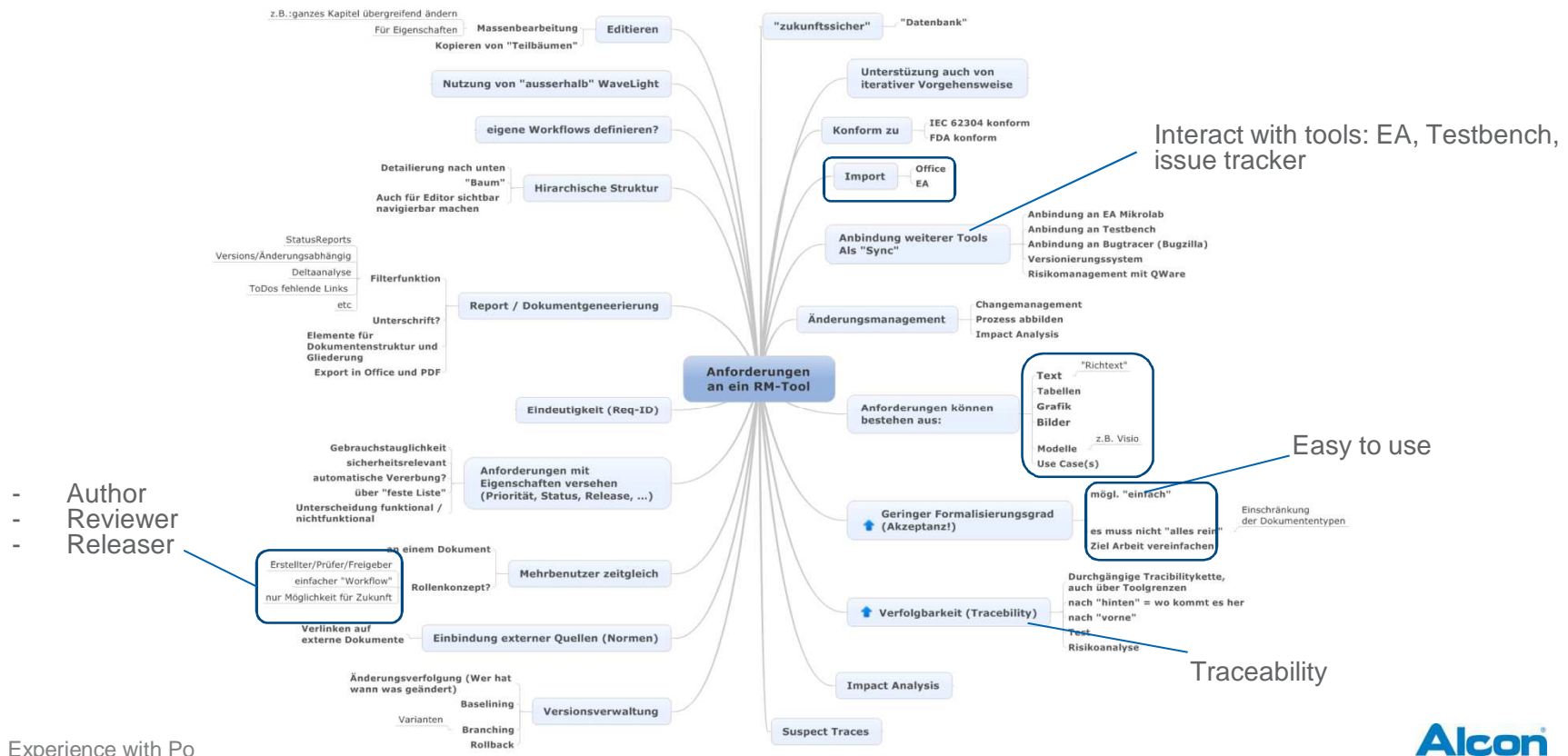
- Introduction
- **Why Polarion (and not XX or YY or ZZ)?**
 - Previous history
 - Product (RE/ALM) Requirements
 - Support Requirements (Supplier) and “Crash-Test”
 - Decision
- Our Rollout
- Result: What does WaveLight do with Polarion?
- Your Questions
- “Closing Tips”

Why Polarion - Previous history

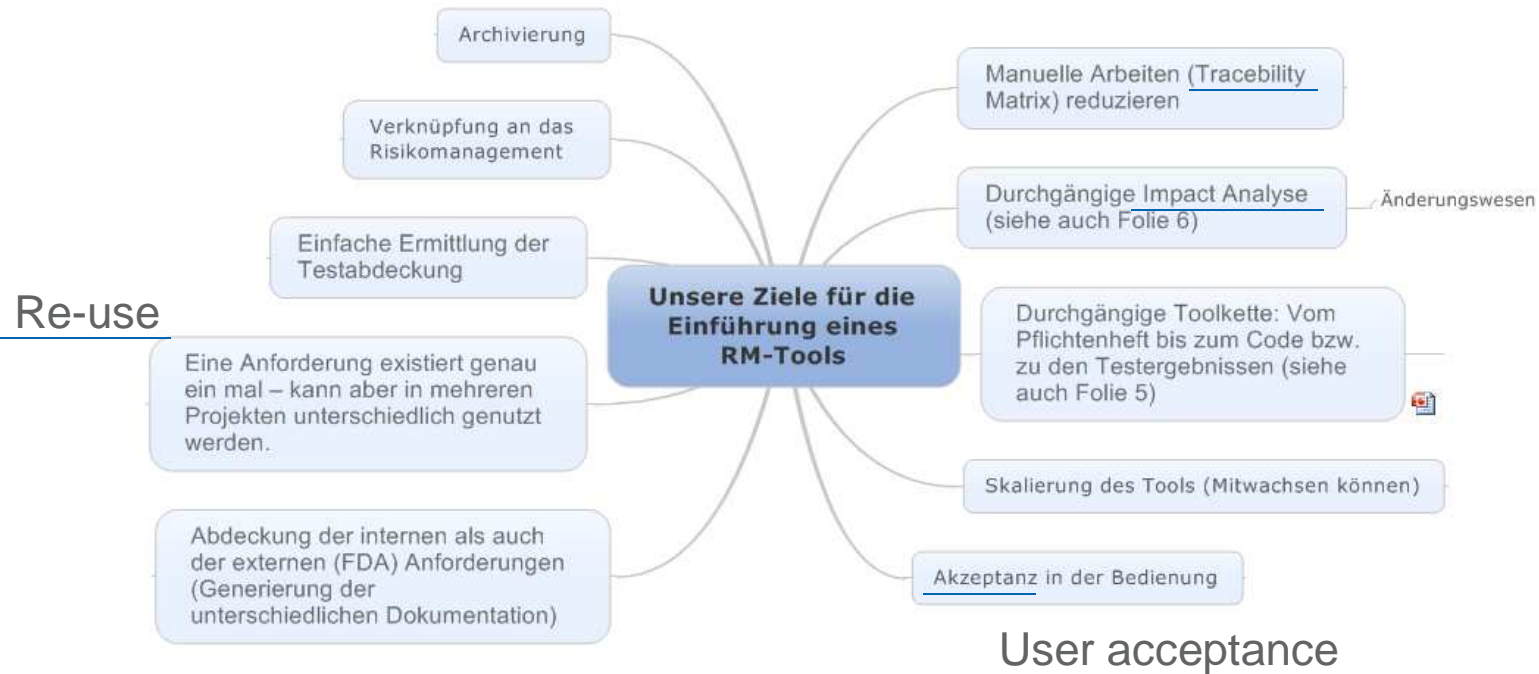
- Document orientated –
- Regulatory (RA) orientated – (62304 – FDA ...)
- MS Office orientated
- Traceability done manually with MS Excel
- Project orientated (7 or 9 different Projects parallel !)
- Module / Segments only realized on Supplier side (SW-Dev and Testhouse)
- “1½” failed “rollouts” of the RE-Tool Bxxland C ✓ €®
- Growing Complexity - by the new “WaveNet®” (*amongst others*)

- 16. November 2011 – The new Position “Coordinator” starts ...

Why Polarion? – Product Requirements for the RE-Tool (1)



Why Polarion? – Product Requirements for the RE-Tool (2)



Why Polarion? – „Support“ Requirements and „Crash Test“

- key account / Sales support by *“Uwe Bucher”* ✓
- Phone contact ✓ *Doris Kastner*
- Test installation – *Michael Bischops* ✓
- Polarion road map ✓



- Crash Test -

- 29th Feb. 2012 Workshop with test installation and “Crash Test”:
 - Import of complex Word documents with big tables works
 - “Usability test” by Req-Engineer Sabrina Saettele:
 - Easy to use (like Word) [no special training needed]
 - Stable enough for “Dummy user” [strained the nerves of Mr. Bischops]
 - Meets our needs (“Document-orientated”...)
 - “IT”-test:
 - Small sever is “big enough” (for the start)
 - No installation for users needed



Why Polarion? – WaveLight's Steps for the Decision

Date	Topic
Jan-Feb. 2012	Colleting, defining and fixing the Requirements for the RM-Tool.
3 rd Feb. 2012	Close collecting and fix the Requirements for the RM-Tool.
10 th Feb. 2012	Fix the goals for the RM-Tool.
13 th Feb. 2012	Workshop with Caliber.
29 th Feb. 2012	Workshop with Polarion and test import.
March - May 2012	Decision finding by creating Transparency and integrate all Stakeholders in to the decision.
May 2012	Order Polarion.

Why Polarion?

- Introduction
- Why Polarion (and not XX or YY or ZZ)?
- **Our Rollout**
 - **Preparation & supporting activities**
 - **Rollout & training**
- Result: What does WaveLight do with Polarion?
- Slide-in “Myth buster” (“Tools solve Problems”)
- Your Questions
- “Closing Tips”
- Contact data

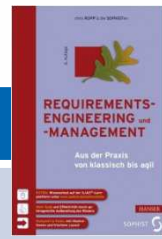
Rollout – Preparation & supporting activities

- With Michael Bishops (Polarion)

Date	Topic
12. July 12	Workshop 1 (Segment, ReUse, Branch)
10. Sept. 12	Workshop 2 (Admin) (Structure, Traceability macro, ReUse ...)
19. Sept. 12	Workshop 3 (Workflow, Wiki, modularization)
18. Okt. 12	Workshop 4, Training and Start Rollout

- With  www.sophist.de/en/start/

Date	Topic
June/July 12	RE-Workshop 2 Days
July 12	UML-Training 1 ½ Days



Rollout and Training

- How to create „Trust“? (“1½” failed “rollouts” of a RE-Tool – before!)
 - TT = Transparency creates Trust
 - Information to R&D Department “Why Polarion”? (= internal “marketing”)
 - What are the benefits of using Polarion as RE-Tool (= internal “marketing”)
 - No „must“ start – but „you are allowed“ to start
- Training takes only one hour on two different days (as „Start is so easy“)
 - Starts with the Information “Why Polarion”?
 - Give a short overview and a understanding how to start
 - “Sandbox” is the best “Self”-Training
- User-Support-Projects:
 - “HelpWL” (= “Content” /WL-Help, FAQ, Forum)
 - “Bugs and Wishes”

Benefit:

- Training extremely fast and product so easy to use new users „begged“ to join Polarion projects

What does WavLight (Alcon) do with Polarion?

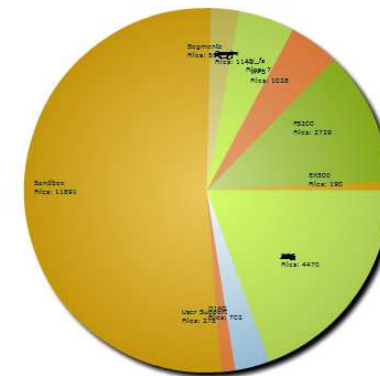
- Introduction
- Why Polarion (and not XX or YY or ZZ)?
- Our Rollout
- **Result: What does WaveLight do with Polarion?**
 - Overview / Statistics
 - Requirements Engineering
 - Traceability
 - Interfaces
 - Future plans
- Your Questions
- “Closing Tips”

What does Wavelight (Alcon) do ? Overview / Statistics

- Overview

- Statistics

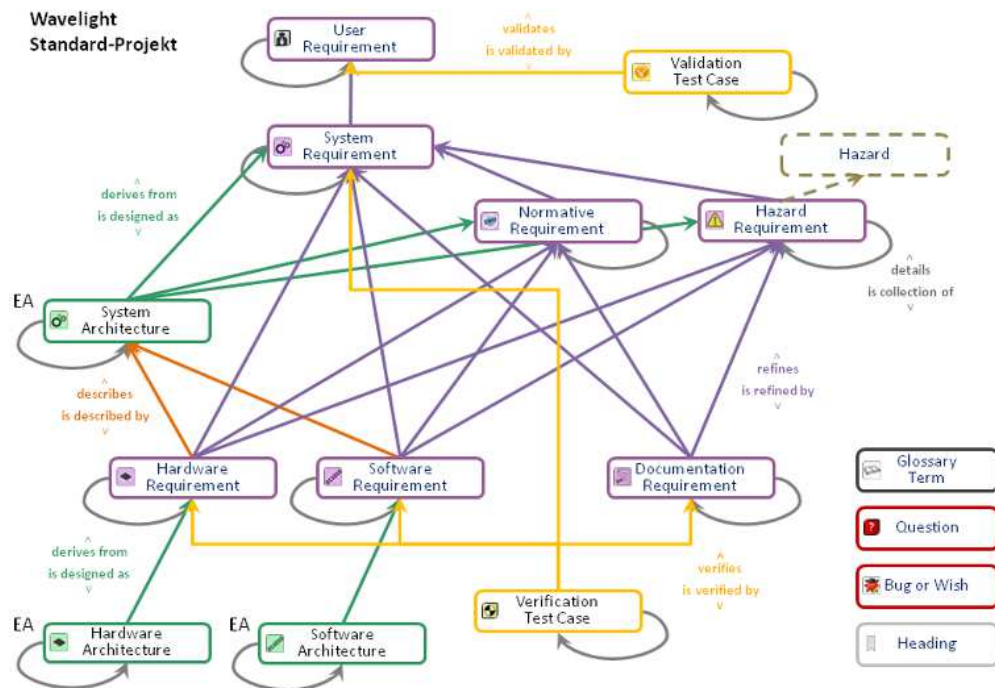
Projects: 117 project(s)
Users: 66 project user(s)
64 system user(s)
Files: 23,001
Repository URL: <http://localhost/repo/>



Update | Updated: 2014-09-06 06:02

What does Wavelight (Alcon) do ? Overview / Statistics

- Overview



- Statistics

- 65 user (max. 20 /now 5 daily active)
- 21 Active Projects (75 Sandboxes)
- 2 User support project
- 7 Document Templates
- 2 Export-Templates for interface to EA and Imbus Testbench
- Integrated Departments (partial)
 - EN (Engineering) /MTO
 - QM / RA
 - **LCM** / PM / Tech. Doc.
 - Tester / Testhouse

RE

Default Repository
WaveLight Projects
• EX500
• FS200
• WNS
• WPS
• Segmente
• AdvancedDiagnostics
• BasicDiagnostics
• Database
• DataIO
• Patientenverwaltung
• Service
• SystemSetup
• UpdateUpgrade
• WaveNet
• WLServerTool
• DIAG
• Analyzer II
• Oculyzer II
• Topolyzer Vario
• Alcon ITC Projects
• ITC
• User Support Projects
• Sandbox
• (Trial projects for individual users)
• User Support
• Help_WL
• BugsAndWishes

Alcon
FS200
Search
Motzet, Werner
My Polaron
Default Space
Common
DBPSW
Firmware
WES7
Index
AF_macro_tryout_2014-01-2
Partition C Specification
Partition D Specification
ProdReq x TestCases
ProdReq x TestCases Scripts
SRS RegMonAgent
SRS WES7-Scripts
Test Plan Partition C WES7
Test Plan Partition D
Test Plan WES7-Scripts

WaveLight FS200
Art.No. 1025
Product Requirements
WES7 Partition C
WaveLight
Partition C Specification WES7 GUI-PC FS200
1 Objective / Purpose
This document describes the product requirements for Windows Embedded Standard 7 located in partition C of the system.
Author: (Function/Name) (Date/Signature)
Reviewed: (Function/Name) (Date/Signature)
Released: (Function/Name) (Date/Signature)
1.1 Source / Template
V_05
2 Scope
WaveLight GmbH
2.1 Target Group
All authors creating documents in the course of software development.
3 Terms / Abbreviations
none
4 History
Rev. Date Author Change / Reasons
0.0 07.02.2012 L. Pang, P. Martin Initial version based on WES7-2009 (XPe)
0.1 27.09.2012 P. Martin Incorporating the results of the meetings dated 21. and

Tracability

Trace Table: Requirements -> Test Cases

project.id:FS200 AND ((document.id:"WES7/Partition D Specification") OR (document.id:"WES7/Partition C Specification")) AND (type:sys_req OR type:doc_req)	((document.id:"WES7/Test Plan Partition C WES7") OR (document.id:"WES7/Test Plan Partition D")) AND project.id:FS200 (role=verifies)
FS-16 - Interfaces of the mainboard used	FS-3180 - Mainboard interface RS422
	FS-3181 - Mainboard interface USB
	FS-3182 - Mainboard interface Network
	FS-3183 - Mainboard interface SATA
	FS-3184 - Mainboard interface IDE
	FS-3185 - Mainboard interface PS/2 Keyboard/Mouse
FS-18 - Mass storage 2	FS-3186 - Mass Storage 2
FS-19 - Mass storage 1	FS-3187 - Mass Storage 1
FS-20 - Windows Embedded Standard 7 E 32bit	FS-3188 - Windows Embedded Standard 7 E 32bit
FS-21 - Data carrier	FS-3190 - Data Carrier
FS-22 - Update data carrier	FS-3192 - Update Data Carrier
FS-23 - Write protection OS	FS-3193 - Write Protection OS FileCreation
	FS-3194 - Write Protection OS FileModify
FS-26 - Version info WES7	FS-3196 - Version Info C
	FS-3499 - Version info WES7
FS-27 - Version info	FS-3331 - Verification Stub
	FS-3462 - Version Info
FS-28 - Version info C	FS-3196 - Version Info C
FS-29 - Version info D	FS-3477 - Version Info D
FS-30 - Legacy systems	FS-3466 - Legacy Systems
FS-32 - Conf COM2	FS-3199 - Conf COM2
FS-34 - Function USB 1-2	FS-3200 - Function USB 1-2
FS-35 - Function USB 3-6	FS-3201 - Function USB 3-6
FS-36 - Conf USB 1-6	FS-3202 - Conf USB 1-6

- **Cost saving**
 - ~100% for new Requirements
 - ~ 90 % for changed Requirements (suspect analysis)
- **Quality**
 - “Every” user can do it.
 - “Every” user can review it.

Re-Use

12.1 Test Cases with special preconditions

FS-3372 - IconCache

Icon cache for user TECHNIK shall be deleted before activating write protection for drive C: on generation of image.

Comment: During update procedure on existing machines links on desktop become invalid. Slower desktop display is accepted as tradeoff.

Comment: Windows Explorer shall not run while deleting IconCache.db due to referencing the database.

Verification Test Case, FS-3596 - IconCache

Important Precondition:

UNUSED SYSTEM IMAGE CF-CARD WHICH HAS NEVER BEEN USED FOR BOOTING A SYSTEM

It must be checked that in C:\users\TECHNIK\AppData\Local file IconCache.db is not present.

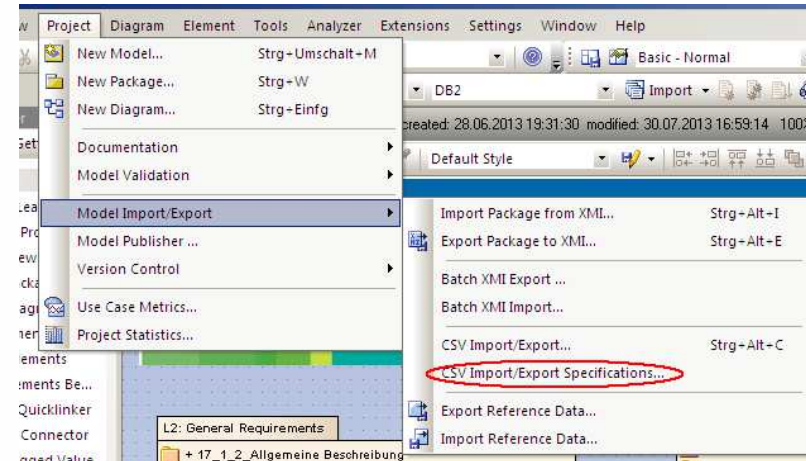
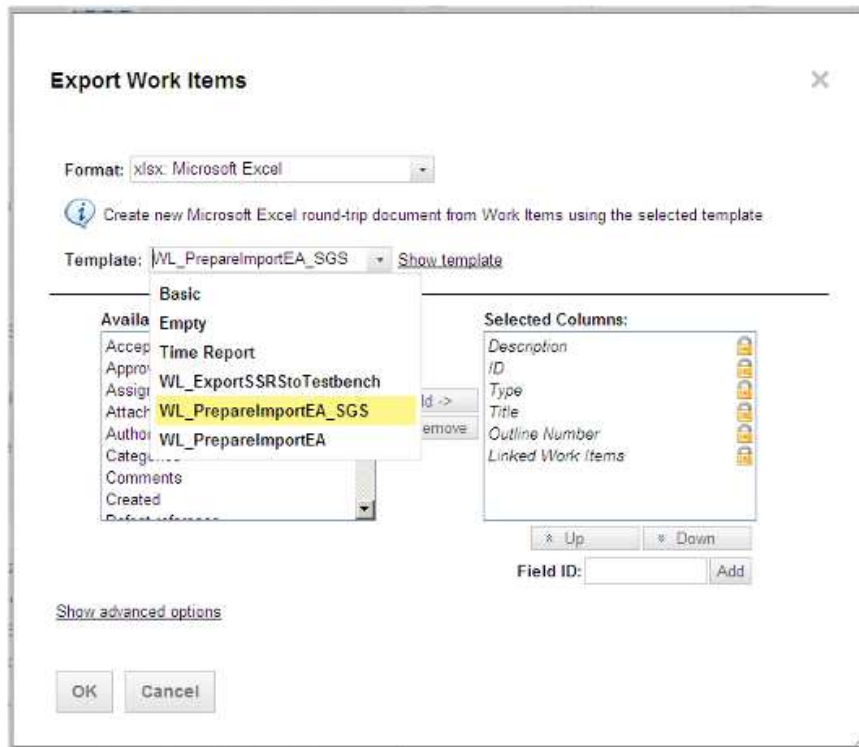
Observation	_____
Result	[] OK [] Not OK

FS-3476 - Write Protection on Deployment

Write protection shall exclude system registry hive on deployment to manufacturing.

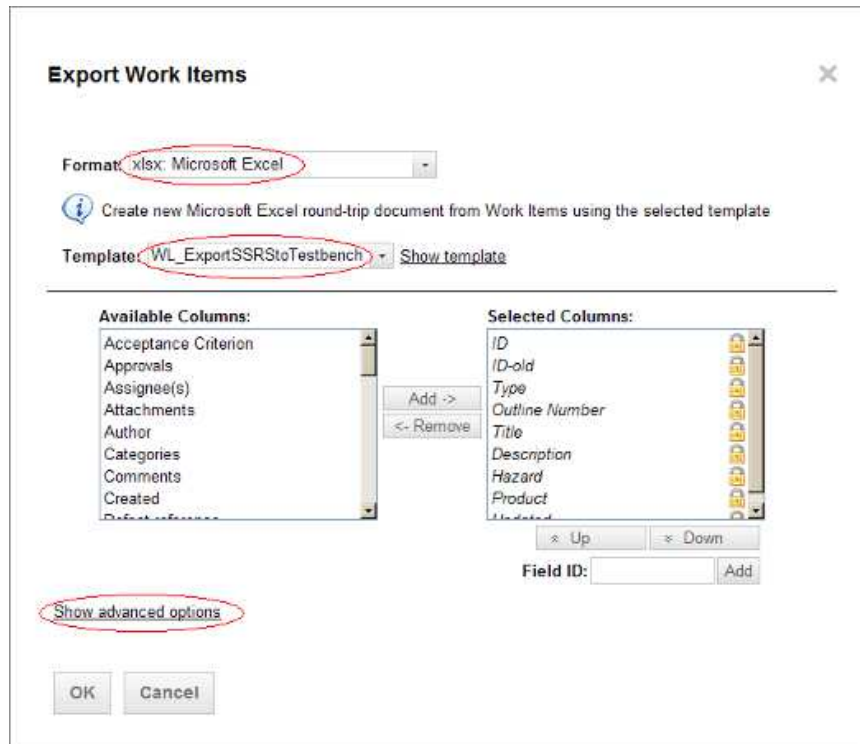
- Time Savings
 - ~20% (no Searchtime)
- Quality
 - Req. + Test Case „on one view“

Export to EA (Enterprise Architect) ENTERPRISE ARCHITECT



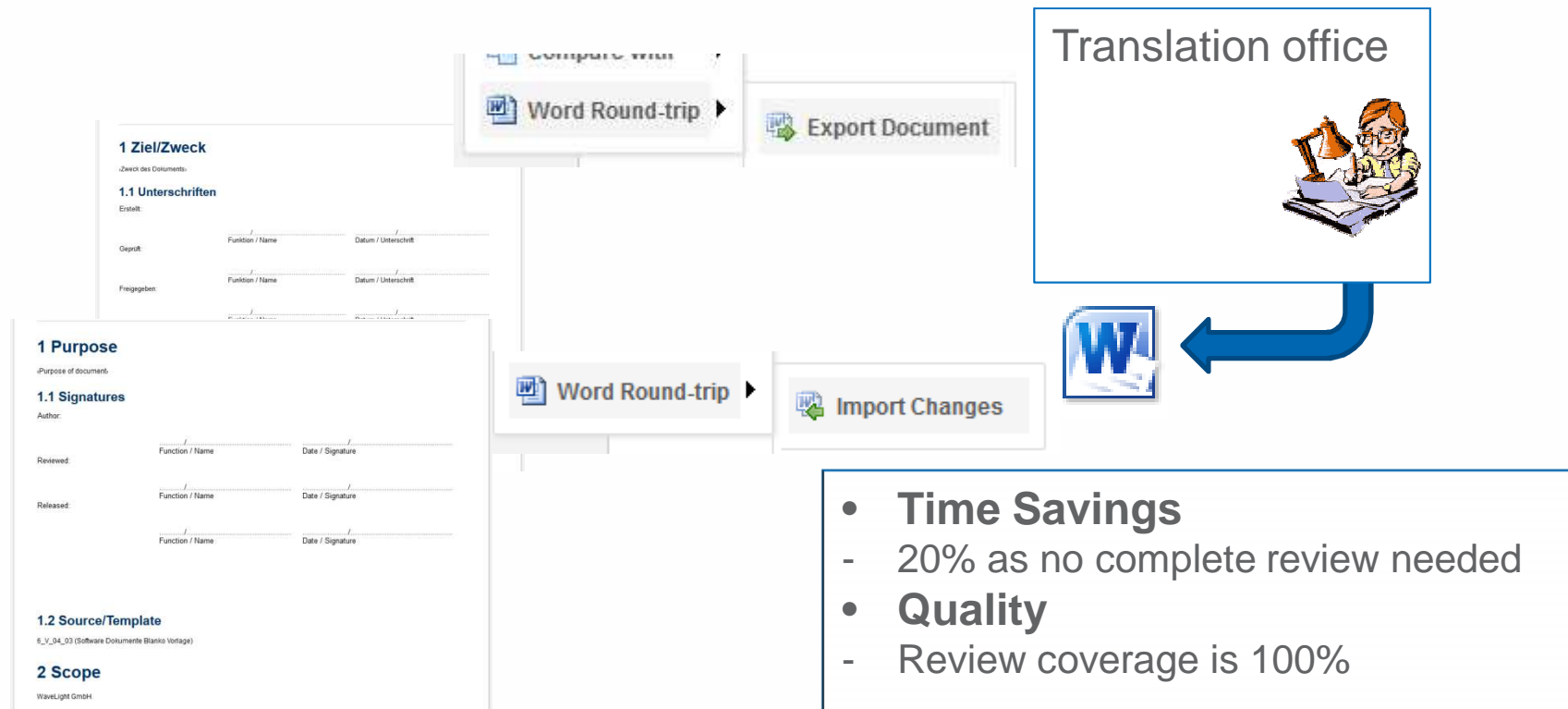
- **Time Savings**
 - 50% as no manual convert to csv is needed
- **Quality**
 - Solves errors of manual convert and review

Export to Imbus Testbench



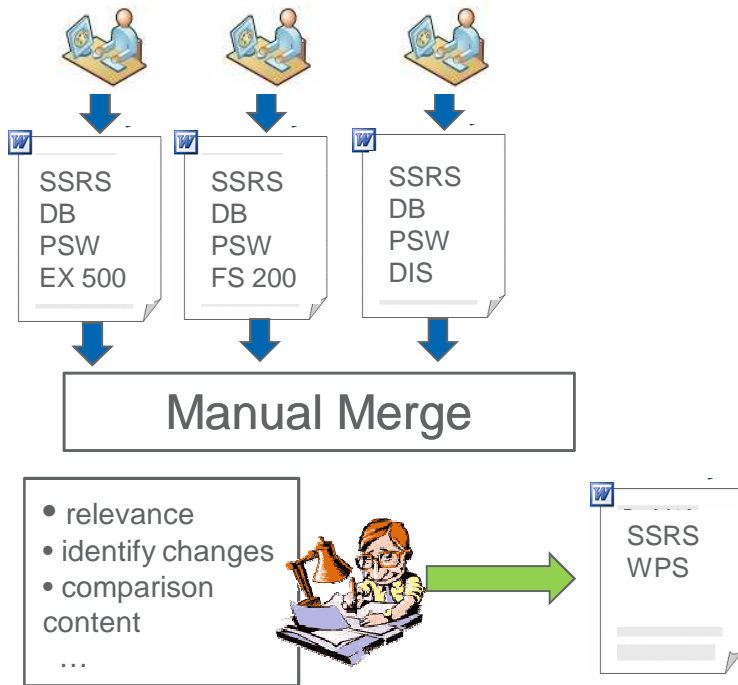
- **Time Savings**
 - 50% as no manual convert from Word to Excel is needed
- **Quality**
 - Solves errors of manual convert and review

„Ex-/Import“ via Roundtrip for Translation

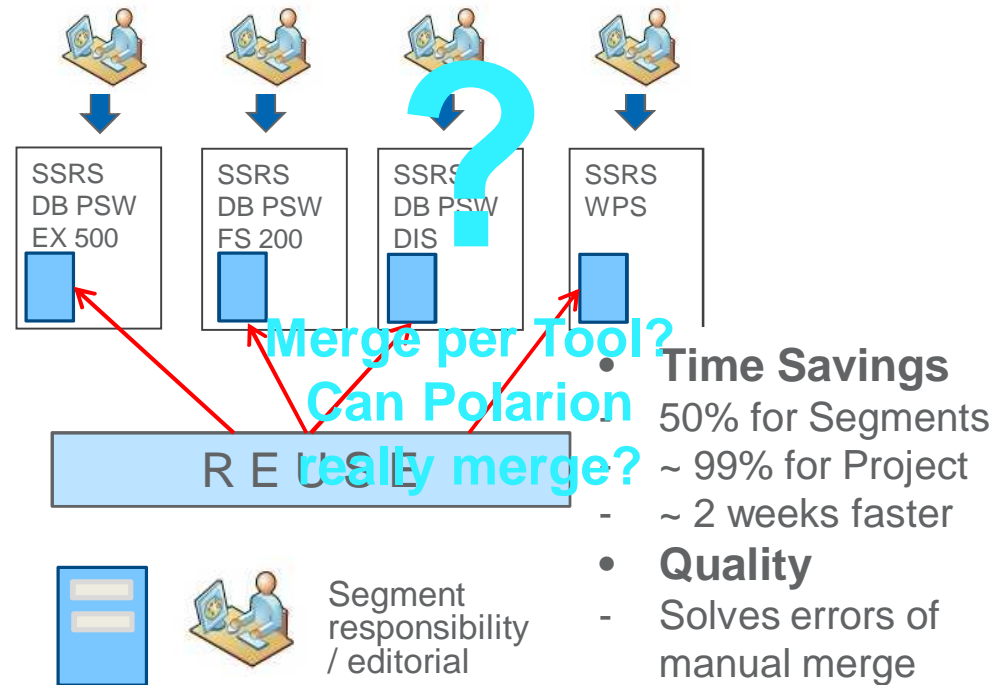


Segment – Re-Use

- Previous (Before Polarion):

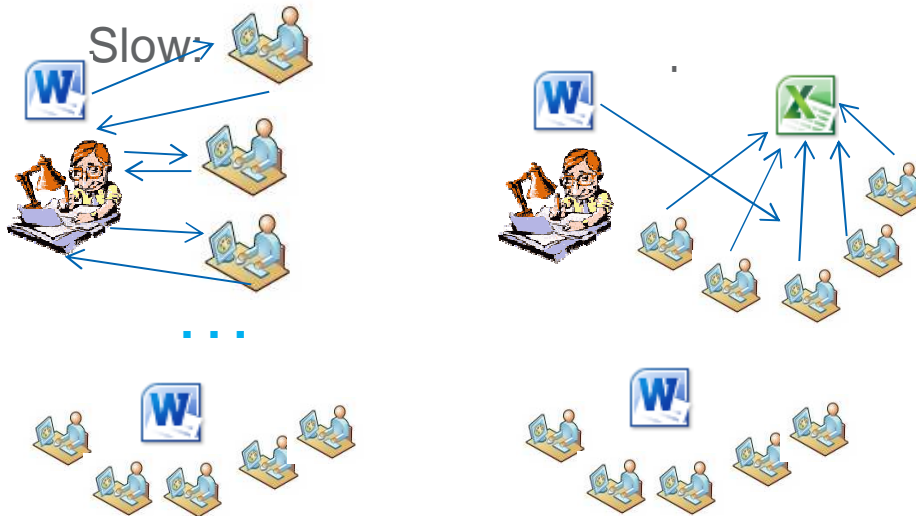
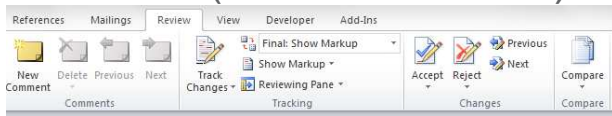


- With Polarion (reuse)



(Segment) – Review

- Previous (Before Polarion):



- With Polarion

please review and use comment:

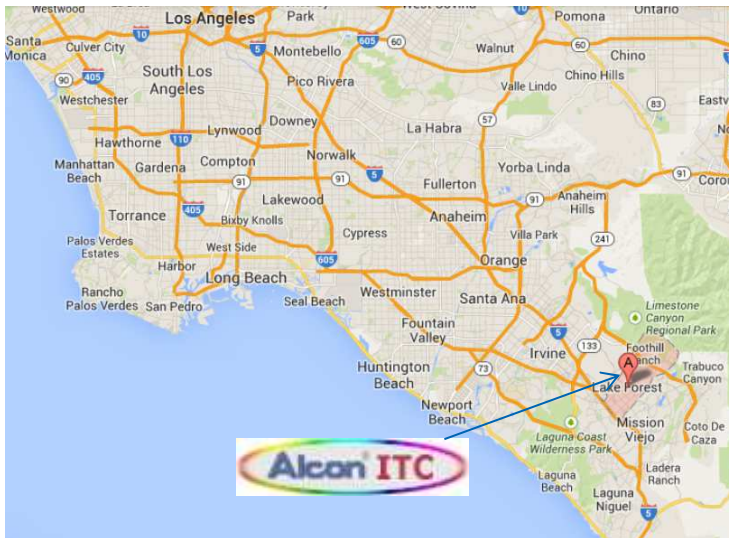


ID	Product	Comments
PV-70	EX500, FS200, WPS, DIS	Pan 21 T_01
PV-71	EX500, FS200, WPS, DIS	Das Bild bei
PV-73	EX500, FS200, WPS, DIS	
PV-75	EX500, FS200, WPS, DIS	zu 1.3: der
PV-76	EX500, FS200, WPS, DIS	
PV-77	EX500, FS200, WPS, DIS	
PV-78	EX500, FS200, WPS, DIS	was ist eigen
PV-79	EX500, FS200, WPS, DIS	
PV-80	EX500, FS200, WPS, DIS	beim EX500, RPS kann f
PV-81	EX500, FS200, WPS, DIS	"Standardwert" ist nicht f
PV-82	EX500, FS200, WPS, DIS	

- **Time Savings**
 - ~ 80% for author
 - ~ 2-4 weeks faster
- **Quality**
 - Solves errors of "double changes"

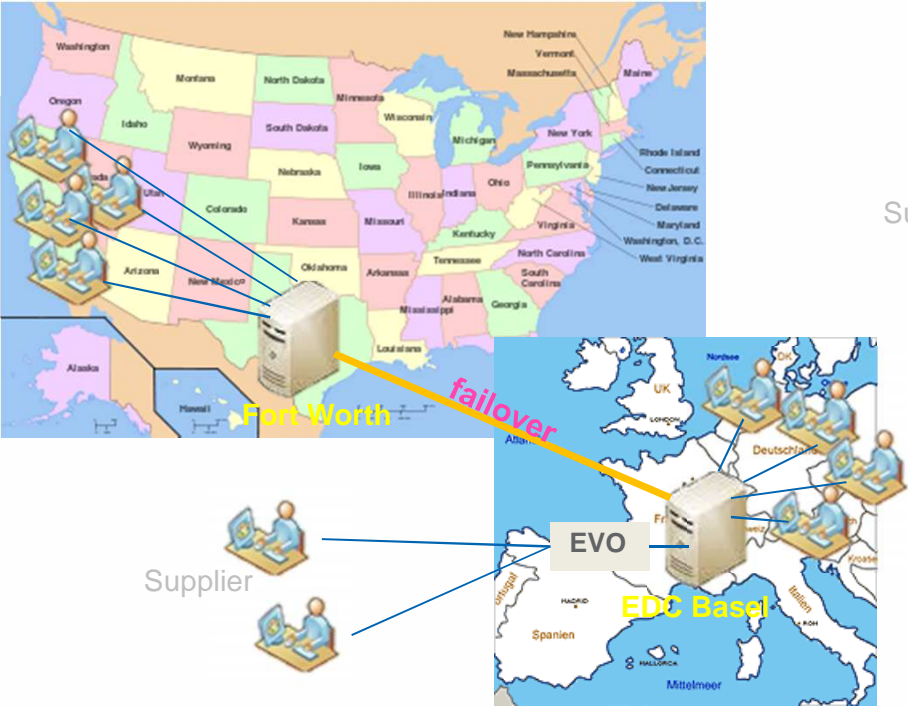
Futur plans

- Import all Project (Parts) Q4/2014-Q1/2015
- Integrate R&D Alcon Lake Forrest (ITC)

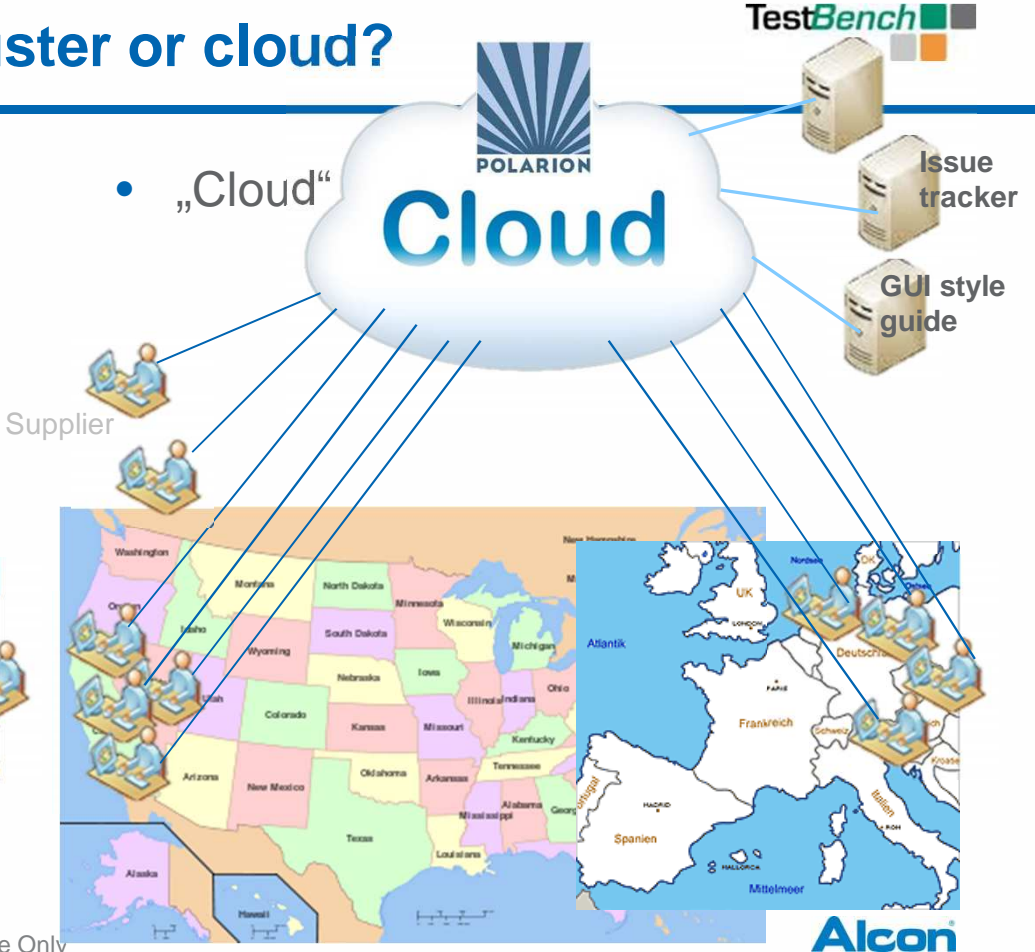


Longterm Futur plans – Cluster or cloud?

- Cluster



- „Cloud“

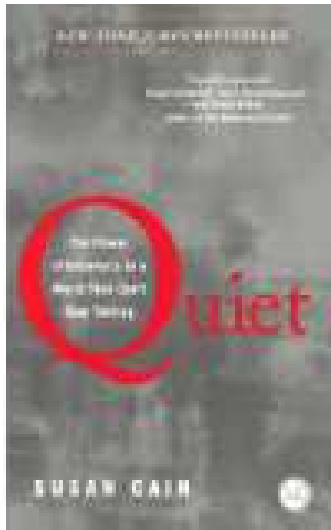


Your Question

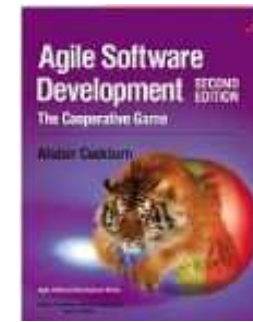
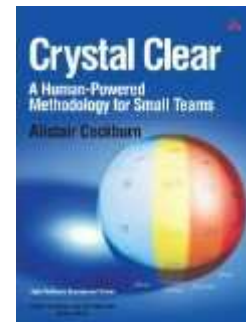


“Closing Tips”

- **Susan Cain – Quiet -**
The Power of Introverts in a World That Can't Stop Talking



- <http://alistair.cockburn.us/>



Contact

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E-Mail: werner.motzet@alcon.com

- **Werner Motzet (private)**

- **Twitter: @Werner_Mo**
- **Google+ Werner Motzet**
- **Blog: <http://blog.motzet.it>**



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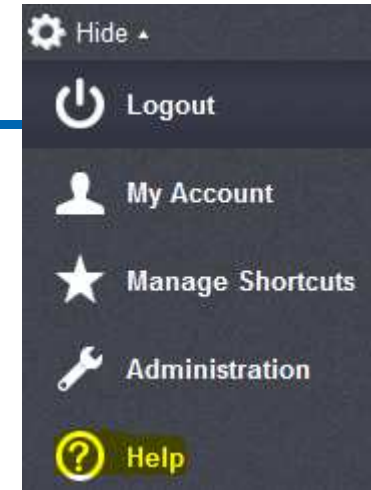
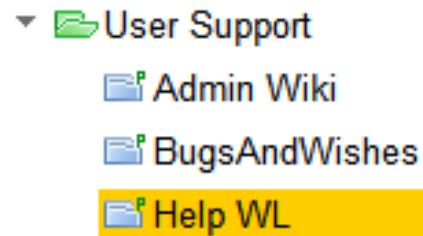
Backup slides



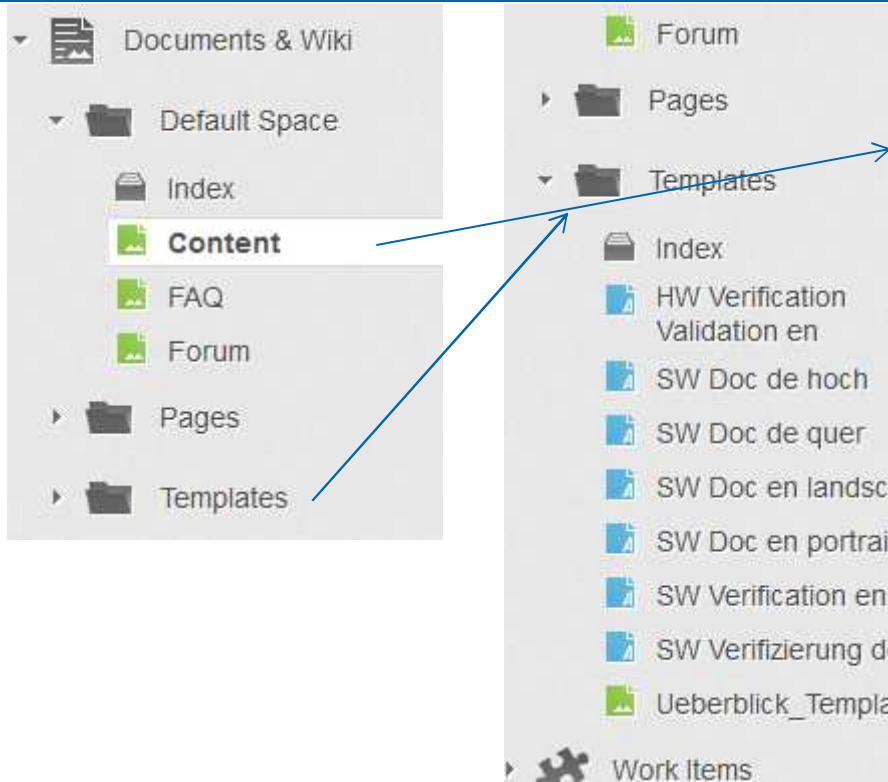
„Polarion = All in one“

Polarion's Help is really good.

- This Help can not explain WaveLight's customization
- **User Support:**
 - Help WL
 - Bugs and Wishes
- **Admin Wiki**



User Support - Help WL



Hilfe

- FAQ
- Wo finde ich ... ?
- Forum

Strukturen in Polarion

- Strukturen: Überblick (auch Startseite für einen Rundgang durch die anderen Struktur-Seiten)
- Strukturen: Projekte
- Strukturen: Dokumente und Wikiseiten
- Strukturen: Workitems
- Strukturen: Ansichten

Weitere Konzepte in Polarion

- Templates (Vorlagen)
- Suspect-Mechanismus
- Index (interner Name) eines Objekts

WaveLight-spezifische Konfiguration

- Update 2013 und ALM: neue Features
- Workitem-Typen
- Felder im Workitem
- Workflow
- Segmente
- Projektstruktur


So wird's gemacht...

- Firefox konfigurieren
- Internet Explorer konfigurieren (relevant für Internet Explorer 8)
- Templates (Vorlagen) benutzen
- Dokument verschieben
- Import aus Word
- Polarion-Properties in Word einbinden, z. B. Release
- Import/Export Excel
- Word Roundtrip
- Satzschablonen für Anforderungen


Schnittstellen

- Schnittstellen (Übersicht)

User Support - Help WL



Help WL



Home

Documents & Wiki

- Default Space
 - Index
 - Content
 - FAQ
 - Forum
- Pages
- Templates
- Work Items

Expand Tools

Created: 2012-10-26 16:32, Upc

Forum

Polarion bei WaveLight: Fragen und Änderungswünsche

- Fragen (Questions)
- Fehler und Wünsche (Bugs & Wishes)
- Erläuterungen zu dieser Seite

Bitte nicht vergessen:

⚠ Wenn du deine Anfrage im Status Resolved vorfindest, dann setze sie auf Closed, falls du zufrieden bist, oder wieder auf Open, falls nicht (mit Begründung im Feld Comment).

Fragen (Questions)

Verwende **Questions**, wenn du eine **Auskunft** bekommen möchtest.

- Questions in Tabellenansicht öffnen »
(neues Item anlegen, ganze Liste sehen)

Open:

- HLP-2 - Gibt es eine Rechtschreibprüfung (oder ein Addon für eine Rechtschreibprüfung)?
- HLP-5 - Wie erstelle ich Checklisten zur Prüfung der verschiedenen Normen?

Pending (Polarion):

- HLP-1 - Übungsfrage

Fehler und Wünsche (Bugs & Wishes)

Verwende **Bugs & Wishes**, wenn du eine **Änderung** veranlassen möchtest.

- Bugs & Wishes in Tabellenansicht öffnen »
(neues Item anlegen, ganze Liste sehen)

Open:

- Bug-33 - WORD- and PDF-output not acceptable in document layout

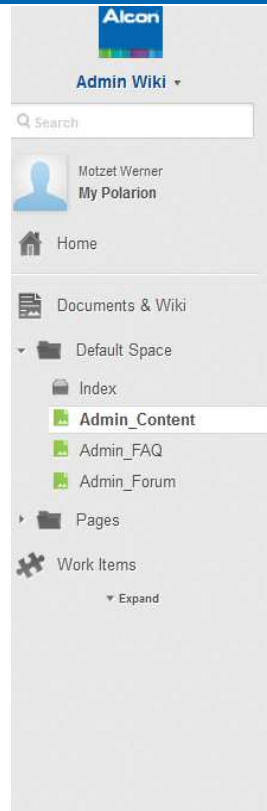
Pending (Polarion):

- Bug-23 - Wünsche an Polarion: WORD- und PDF-Dokumente
- Bug-31 - Baselines - Sortierung nach Outline-Numbers funktioniert nicht in table-Ansicht
- Bug-30 - Baseline Vergleichsprozess der User listet eine lange Liste

Zuletzt geändert

- HLP-251 - Distribution List
Fischer Andreas 2014-07-30 13:41
- HLP-242 - Description of the System / Process:
Fischer Andreas 2014-07-30 13:41
- Bug-18 - Springen der Position in der Dokumentenansicht
«old» Buckert Thomas 2014-02-11 13:37
- Bug-11 - Im QueryBuilder sind Stati mehrfach:
«old» Fischer Andreas 2014-01-27 16:10

Admin Wiki



The sidebar contains the following elements from top to bottom:

- Alcon logo
- Admin Wiki dropdown
- Search bar
- User profile: Motzet Werner, My Polarion
- Home icon
- Documents & Wiki section:
 - Default Space
 - Index
 - Admin_Content** (highlighted)
 - Admin_FAQ
 - Admin_Forum
 - Pages
- Work Items
- Expand button

Thematisch

Portalseiten

- Admin FAQ
- Admin Forum

⚠ Neue Seiten bitte im Space Pages ablegen und hier auf der Seite Admin_Content ver

Seitenüberschrift und Seitenname sollten identisch sein; jedoch bitte im Namen alle Z (auch Leerzeichen), durch Unterstrich ersetzen.

So wird's gemacht...

- Neuen User anlegen
- User löschen
- Mail an alle User senden
- Momentan aktive User ermitteln
- Outlook-Mailverteiler Polarion (*Zugriff einrichten, aufrufen*)

- Update manuell vervollständigen
- Logo ändern
- Logfiles automatisch löschen
- Release-Liste erweitern

- Revisionierung und Baselines (*in Arbeit, soll später in Help_WL veröffentlicht werden*)
- Rechteverwaltung (WL) (*in Arbeit, soll später in Help_WL veröffentlicht werden*)

Übersichtsseiten

- Project Content
Übersicht über Dokumente und Wikiseiten in den Projekten
- Users Overview (WL)
Übersicht über alle User, nach jeder Spalte sortierbar
- Support durch Polarion