



# **Atlassian Jira® hat Luft nach oben: Requirements Engineering mit R4J**

## **(Atlassian Jira® has room for improvement: Requirements Engineering with R4J)**

ReConf Stammtisch  
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A photograph of a hand pointing at several orange sticky notes on a whiteboard. The sticky notes contain handwritten text, and the scene is dimly lit, focusing on the hand and the notes.

# Overview

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03 | Challenges and Solutions

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# Ease Solutions – an Atlassian Solution Partner



# About Me

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## **BERNHARD DOLESCHEL**

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*“The difficult is done at once;  
the impossible takes a little longer”*



# Profile Ralf Bürger

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Ralf Bürger has coded software in the **80's**, became a project manager and self-employed consultant in the **90's**, a specialist for software development methods in the **00's**, and a development process designer and coach in the **10's**.

**In the 20's now he focuses on designing Processes as Requirements for agile development and for platform-based product development.**

Ralf lives in Germany, is married and when he is not working, he is usually riding his bicycles or driving his Tesla.

<https://RalfBuerger.de>

<https://ProcessesasRequirements.info>



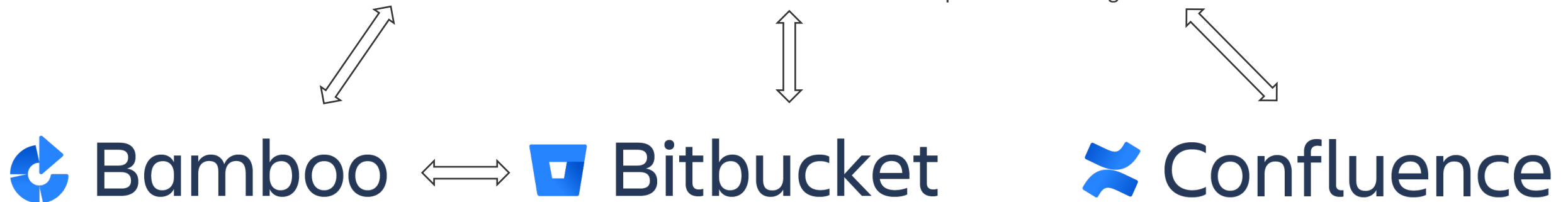


What does Atlassian offer for  
Requirements Management?

# Software Development with Atlassian Jira



R4J - Requirements Management for Jira







# Challenges and Solutions

# Topics to cover

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- Project challenges
  - increased complexity: single product → multi product → variants from platforms
  - more compliance: safety, cybersecurity, certification
  - blending classical and agile in large projects (not just scaling agile)
- **PaR Methodical Approach**
  - Define regulations (rules and standards) as what they are: requirements what to consider
  - Define processes and HowTos as what they are: requirements how to work
  - Reuse engineering project process requirements in the projects
  - Define products with features and functions as requirements, also in platforms for reuse
  - **Derive Epics from the requirements to ensure traceability from the regulations to the product review**
  - Write Stories for the Epics for the agile development of the product
- **R4J Tool Solutions**
  - Define tree structure for requirements with types and linkage
  - Reuse requirement sets
  - **Embedded in Jira for bringing the requirements into the daily work of the agile development team**
  - Proof coverage and compliance by traceability across levels
  - Template based export, also for documentation of versions

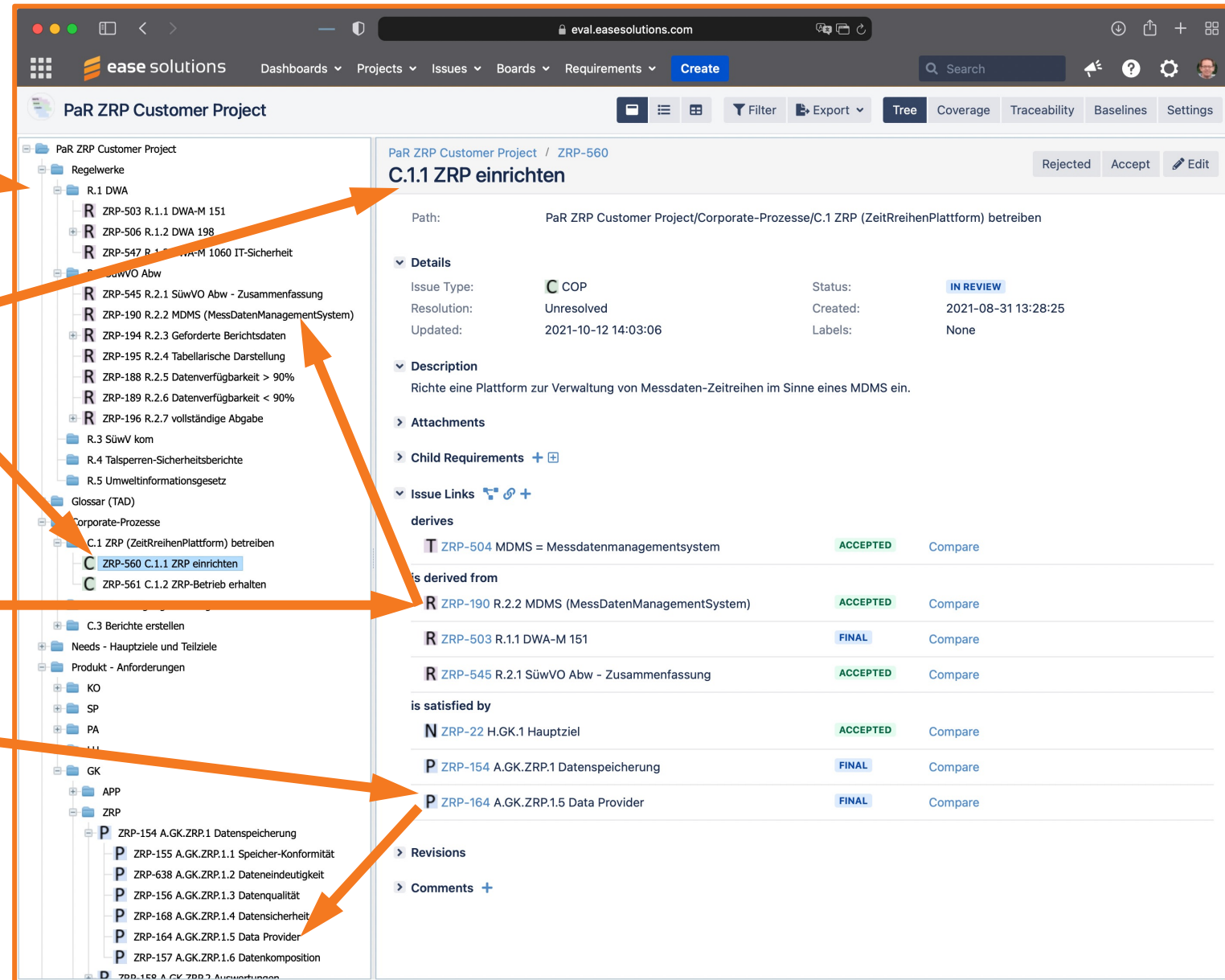




Live Demo  
PaR with R4J

# R4J Tree, process

- tree of requirements, not Backlog
- selected requirement is a process activity (German description due to German company)
- activity is linked upstream (derived from) regulatory
- activity is linked downstream (satisfied by) product requirements



The screenshot displays the ease solutions R4J interface for a project named 'PaR ZRP Customer Project'. The left sidebar shows a hierarchical tree of requirements, with 'C.1.1 ZRP einrichten' selected. The main panel shows the details for this requirement, including its path, issue type (COP), status (IN REVIEW), and description. The 'Issue Links' section shows that this requirement is derived from 'R ZRP-190 R.2.2 MDMS (MessDatenManagementSystem)' and is satisfied by 'P ZRP-154 A.GK.ZRP.1 Datenspeicherung' and 'P ZRP-164 A.GK.ZRP.1.5 Data Provider'.

**Tree Structure (Left Panel):**

- PaR ZRP Customer Project
  - Regelwerke
    - R.1 DWA
      - R ZRP-503 R.1.1 DWA-M 151
      - R ZRP-506 R.1.2 DWA 198
      - R ZRP-547 R.1.3 DWA-M 1060 IT-Sicherheit
    - SüwVO Abw
      - R ZRP-545 R.2.1 SüwVO Abw - Zusammenfassung
      - R ZRP-190 R.2.2 MDMS (MessDatenManagementSystem)
      - R ZRP-194 R.2.3 Geforderte Berichtsdaten
      - R ZRP-195 R.2.4 Tabellarische Darstellung
      - R ZRP-188 R.2.5 Datenverfügbarkeit > 90%
      - R ZRP-189 R.2.6 Datenverfügbarkeit < 90%
      - R ZRP-196 R.2.7 vollständige Abgabe
    - R.3 SüwV kom
    - R.4 Talsperren-Sicherheitsberichte
    - R.5 Umweltinformationsgesetz
  - Glossar (TAD)
  - Corporate-Prozesse
    - C.1 ZRP (ZeitReihenPlattform) betreiben
      - C ZRP-560 C.1.1 ZRP einrichten
      - C ZRP-561 C.1.2 ZRP-Betrieb erhalten
    - C.3 Berichte erstellen
  - Needs - Hauptziele und Teilziele
  - Produkt - Anforderungen
    - KO
    - SP
    - PA
    - PH
    - GK
      - P ZRP-154 A.GK.ZRP.1 Datenspeicherung
        - P ZRP-155 A.GK.ZRP.1.1 Speicher-Konformität
        - P ZRP-638 A.GK.ZRP.1.2 Dateneindeutigkeit
        - P ZRP-156 A.GK.ZRP.1.3 Datenqualität
        - P ZRP-168 A.GK.ZRP.1.4 Datensicherheit
        - P ZRP-164 A.GK.ZRP.1.5 Data Provider
        - P ZRP-157 A.GK.ZRP.1.6 Datenkomposition

**Requirement Details (Right Panel):**

**PaR ZRP Customer Project / ZRP-560**  
**C.1.1 ZRP einrichten**

Path: PaR ZRP Customer Project/Corporate-Prozesse/C.1 ZRP (ZeitReihenPlattform) betreiben

**Details**

- Issue Type: COP
- Resolution: Unresolved
- Updated: 2021-10-12 14:03:06
- Status: IN REVIEW
- Created: 2021-08-31 13:28:25
- Labels: None

**Description**

Richte eine Plattform zur Verwaltung von Messdaten-Zeitreihen im Sinne eines MDMS ein.

**Issue Links**

**derives**

- T ZRP-504 MDMS = Messdatenmanagementsystem (ACCEPTED)

**is derived from**

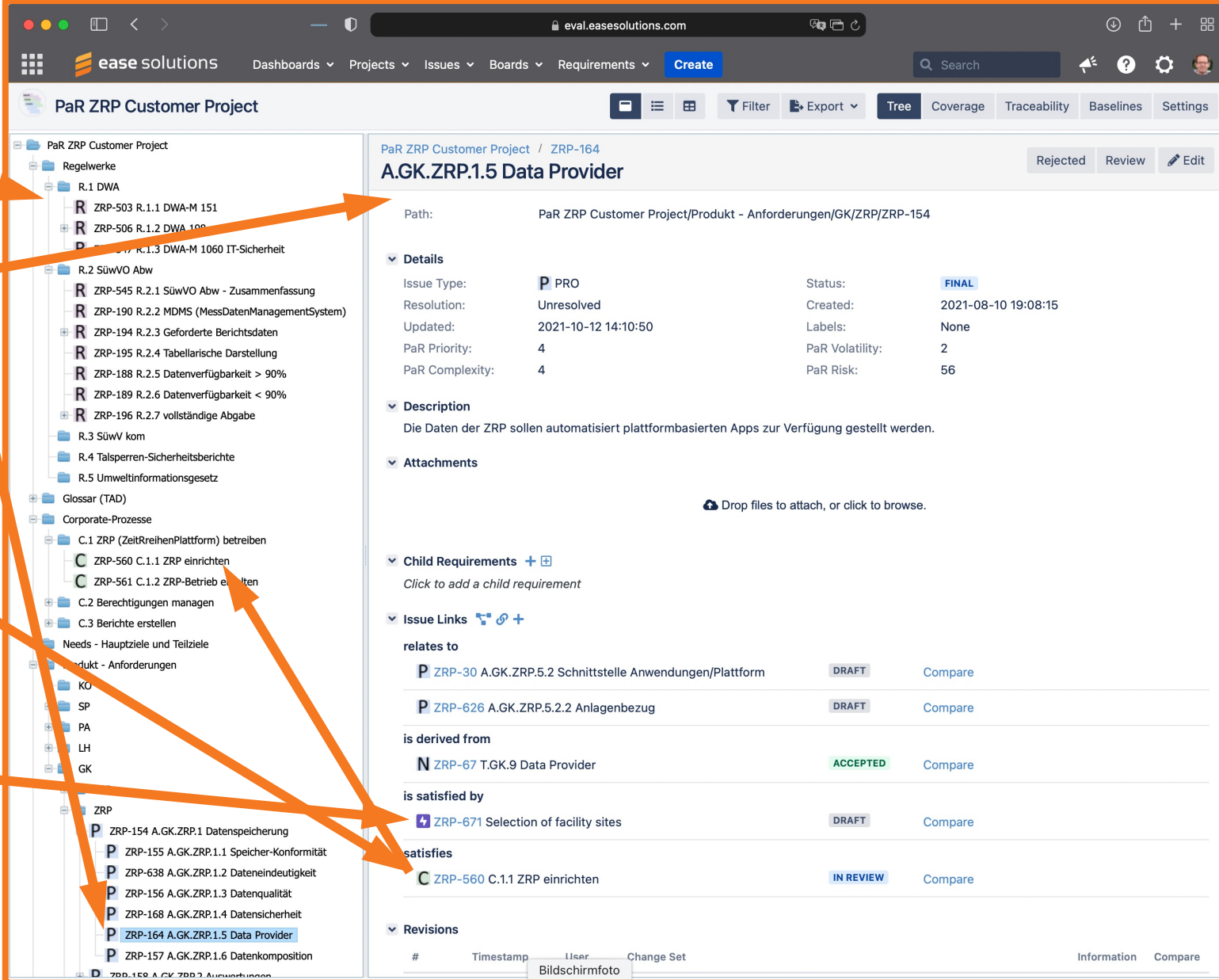
- R ZRP-190 R.2.2 MDMS (MessDatenManagementSystem) (ACCEPTED)
- R ZRP-503 R.1.1 DWA-M 151 (FINAL)
- R ZRP-545 R.2.1 SüwVO Abw - Zusammenfassung (ACCEPTED)

**is satisfied by**

- N ZRP-22 H.GK.1 Hauptziel (ACCEPTED)
- P ZRP-154 A.GK.ZRP.1 Datenspeicherung (FINAL)
- P ZRP-164 A.GK.ZRP.1.5 Data Provider (FINAL)

# R4J Tree, product

- same tree view as before
- selected requirement is a product requirement (German description due to German company)
- product requirement is linked upstream (satisfying) the process activity shown before
- product requirement is linked downstream to a Jira Epic defined to satisfy it (English for the development team)

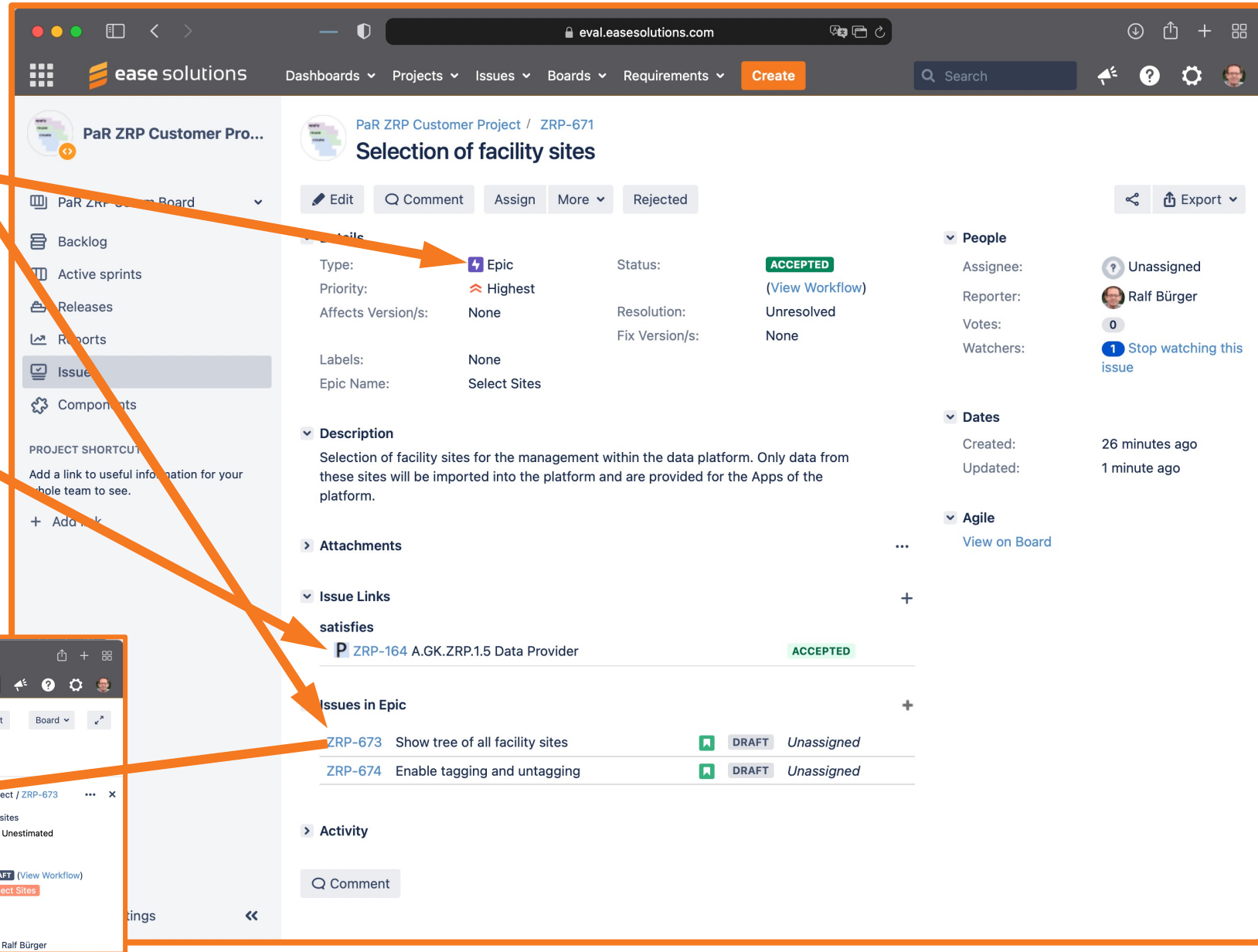


The screenshot displays the 'PaR ZRP Customer Project' interface. On the left, a tree view shows a hierarchy of requirements. The selected requirement, 'ZRP-164 A.GK.ZRP.1.5 Data Provider', is highlighted in blue. On the right, the detailed view for this requirement is shown, including its path, details (Issue Type: PRO, Status: FINAL, Created: 2021-08-10 19:08:15), description, and attachments. The 'Child Requirements' section shows 'ZRP-67 T.GK.9 Data Provider' as a child, and the 'is satisfied by' section shows 'ZRP-671 Selection of facility sites' as a parent. The 'is satisfied by' section also shows 'ZRP-671 Selection of facility sites' as a child of 'ZRP-671 Selection of facility sites'. The 'is satisfied by' section also shows 'ZRP-671 Selection of facility sites' as a child of 'ZRP-671 Selection of facility sites'.



# Jira Epic with Stories

- Jira Epic with Stories, defined to work off the product requirement (English for the development team)
- Epic is linked to the satisfied product requirement shown before, connecting the board with the tree



The screenshot displays the Jira interface for the 'PaR ZRP Customer Project / ZRP-671'. The main view is an Epic titled 'Selection of facility sites'. The Epic details include:

- Type: Epic
- Priority: Highest
- Affects Version/s: None
- Labels: None
- Epic Name: Select Sites
- Status: ACCEPTED
- Resolution: Unresolved
- Fix Version/s: None

The Description reads: 'Selection of facility sites for the management within the data platform. Only data from these sites will be imported into the platform and are provided for the Apps of the platform.'

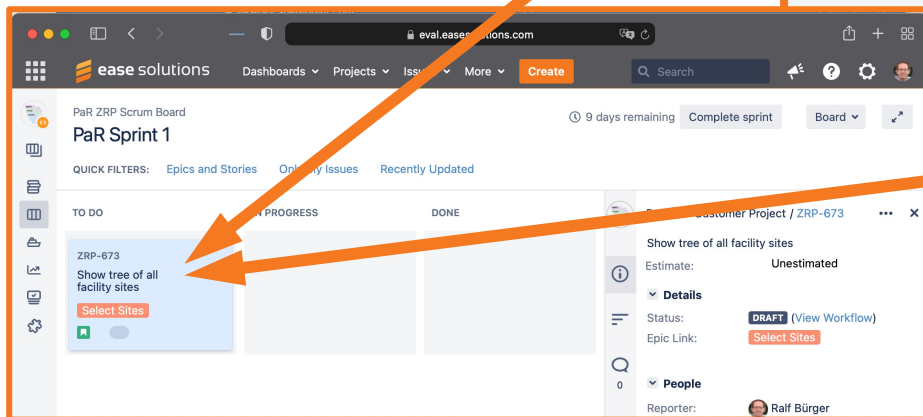
Below the description, the 'Issue Links' section shows that this Epic 'satisfies' the issue 'ZRP-164 A.GK.ZRP.1.5 Data Provider' (ACCEPTED).

The 'Issues in Epic' section lists two issues:

- ZRP-673 Show tree of all facility sites (DRAFT, Unassigned)
- ZRP-674 Enable tagging and untagging (DRAFT, Unassigned)

On the right side, the 'People' section shows the Assignee as 'Unassigned', Reporter as 'Ralf Bürger', and 0 votes. The 'Dates' section shows it was created 26 minutes ago and updated 1 minute ago. The 'Agile' section has a 'View on Board' link.

Arrows from the text on the left point to the Epic title, the 'satisfies' link, and the 'Issues in Epic' list.



This screenshot shows a 'PaR ZRP Scrum Board' for 'PaR Sprint 1'. The board has columns for 'TO DO', 'IN PROGRESS', and 'DONE'. A task card is visible in the 'TO DO' column:

- Issue: ZRP-673 Show tree of all facility sites
- Label: Select Sites

The card also shows a 'Select Sites' button and a progress indicator. Arrows from the text on the left point to this task card and the 'Select Sites' button.

# R4J Coverage View

- show coverage downstream based on the defined links (traceability)
- all the way down from regulatory to working

The screenshot displays the 'PaR ZRP Customer Project' coverage view. The interface includes a navigation menu on the left with 'ACTIVE VIEW' (PaR ZRP Coverage) and 'PUBLIC VIEWS' (Derivation Process, Derivation Product, PaR ZRP Coverage, Satisfaction). The main area shows a grid of requirements and their coverage status. Orange arrows and text labels illustrate the flow from regulatory requirements to process activity, product requirements, and finally to an Epic and Story.

Requirement ID	Status	Requirement Description	Coverage	Linked Item
R.2.3		Gerordnete Berichtsdaten		
R.2.2	ACCEPTED	MDMS (MessDatenManagementSystem)		
C.3.1.1		SuwVO Abw ertullen (is derived from ZRP-194)		
C.1.2		ZRP-Betrieb erhalten (is derived from ZRP-190)		
C.1.1	IN REVIEW	ZRP einrichten (is derived from ZRP-190)		
A.GK.APP.ABW.1	ACCEPTED	Unterstützung der SuwVO Abw (satisfies ZRP-563)	Not Covered	
A.GK.APP.ABW.5.2		Messdatenbezug (Zeitreihen) (satisfies ZRP-561)	Not Covered	
A.GK.ZRP.1		Datenspeicherung (satisfies ZRP-561)	Not Covered	
A.GK.ZRP.1.5	ACCEPTED	Data Provider (satisfies ZRP-560)		
A.GK.ZRP.1		Datenspeicherung (satisfies ZRP-560)	Not Covered	
ZRP-671	ACCEPTED	Selection of facility sites (satisfies ZRP-164)		ZRP-674 (DRAFT) - Enable tagging and untagging (has Epic ZRP-671)
ZRP-673	DRAFT	Show tree of all facility sites (has Epic ZRP-671)		
ZRP-189	ACCEPTED			
ZRP-198	DRAFT			
ZRP-622	ACCEPTED		Not Covered	

**regulatory (rules and standards)** → **process activity** → **product requirement** → **Epic** → **Story**





Take Away

# Take Away

- **define lightweight efficient processes as requirements**
- bring the processes where they belong: into the projects (by reuse)
- unite “what” (product) and “how” (process) requirements
- establish a culture of improvement by reusing requirements
- **work off the requirements from R4J by deriving Jira Epics directly**
- let bi-directional traceability become a project standard
- emphasize self-organization of teams with implicit compliance

try **PaR** with **R4J**





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