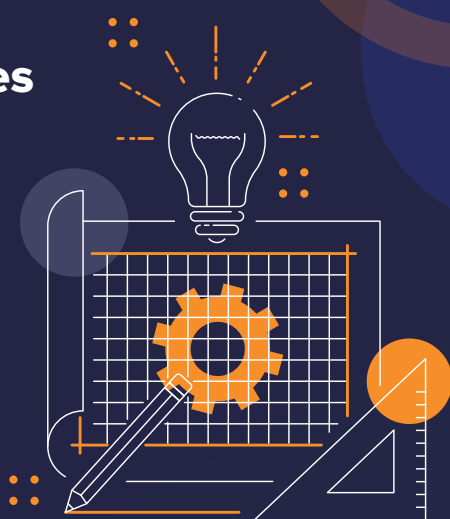Jama software®

10 Biggest Product Development Challenges Engineers Face...And How to Solve Them

Complexity is a fact of life when developing a product like a connected medical device or an autonomous vehicle. Multiple teams must collaborate, often over great distances, while numerous requirements and tests have to be consistently tracked and traced.

Let's look at 10 of these major challenges in more detail and how you can reliably manage them.

1. Move on from outdated legacy or document-based solutions

Over half of organizations see spreadsheets as risks to their businesses.[1] A modern platform provides a single source of truth, rather than disparate manually managed documents.

2. Simplify compliance and meet regulations or standards

FDA device recalls jumped 50% from 2018 to 2019.[2] But Jama Connect enables better compliance via ISO 14971:2019 and IEC 60812-aligned templates and export functionality.

3. Establish and implement effective review cycles

Short cycle time is a top indicator of efficient product development. With increased traceability and real-time collaboration in Jama Connect, **Grifols reduced its planning time by 80%.**[3]

4. Enable secure, cross-functional collaboration across teams, customers, and complex supply chains

Almost 40% of employees think there isn't enough collaboration in their companies.[4] In Jama Connect, teams can work together on clear requirements that address user needs.

5. Ensure product quality and improve change management with complete traceability

Spreadsheets with 1000s of rows hinder visibility and traceability. Jama Connect improves impact analysis by flagging downstream items and connecting key artifacts.
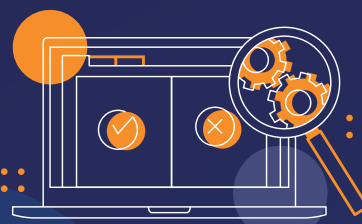
6. Manage development complexities across hardware and software teams

Software defects have become the top cause of medical device recalls.[5] Jama Connect offers a unified system of record for managing both software and hardware development.

7. Increase quality and efficiency by testing earlier in the lifecycle

Fixing a defect in production can be 30 times costlier than remediating it during planning.[6] By testing early and often in Jama Connect, RBC Medical saved an average of $150,000 per project.[7]

8. Implement effective requirements versioning, baselining, and change management

Changes to requirements can get lost amid disparate lists and matrices. A structured, "living" document in Jama Connect offers greater clarity and integrated risk management.

9. Make it easier to coordinate remote engineering teams

One in five remote workers thinks communication is a big obstacle.[8] Remote engineers benefit from having one shared and intuitive platform for all reviews and approvals.

10. Simplify compliance and meet regulations or standards

Product development often requires multiple tools across the lifecycle. Jama Connect enables a modern, integrated workflow through connections to solutions like Jira.

Learn more about Jama Connect by connecting with a member of our team today.

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