

Streamlining Engineering Work Tracking in GitHub

AT A GLANCE

Challenges

- Multi-platform work tracking
- Complex field mapping
- GitHub API constraints
- Accelerated migration timeline

Methods

- GitHub-native automation
- Collaborative field mapping
- Migration testing
- Client knowledge transfer

OBJECTIVES

A leading semiconductor manufacturer wanted to consolidate engineering work tracking from Azure DevOps Boards and Jira Projects into GitHub Projects and Issues. The goal was to bring project management and development workflows into a more unified environment while giving teams a consistent way to plan and track work. The migration also supported a broader GitHub strategy. Centralizing work within GitHub would position engineering teams to take greater advantage of GitHub Copilot agent flows and other AI-assisted development capabilities. The client needed a solution that could support immediate migrations while remaining reusable as additional teams moved to GitHub.



SOLUTIONS

IntelliTect built a GitHub-native migration solution using PowerShell, GitHub Actions, GitHub Issues, and the GitHub API. Teams initiate migrations through a custom Issue template, which triggers an automated workflow to export source data, transform and map fields, and import the resulting work into GitHub Projects and Issues. Built-in rate-limit handling improves reliability for larger migrations. IntelliTect also worked directly with client teams on field mapping, testing, validation, and training so the organization could continue using and extending the solution independently.



BENEFITS



Repeatable Migration Process

A reusable GitHub-native workflow gives teams a consistent way to request, execute, and track future migrations.



Unified Engineering Environment

Consolidating project tracking in GitHub brings work management closer to development workflows and supports expanded use of GitHub Copilot.



Greater Client Self-Sufficiency

Training and maintainable PowerShell automation enable the client to operate and extend the migration process as additional teams transition to GitHub.

