

Data and the Need for Visualization for Continuous Integration

Project name: Visualization of Continuous Integration

Research theme: Continuous Delivery

Project number: 18

Partners:

- Linköping University
- Ericsson
- Axis Communication
- Grundfos Holding A/S

Vision and Mission

To understand how information processing pipelines affect companies' abilities to use data on continuous integration effectively in their transition to continuous delivery.

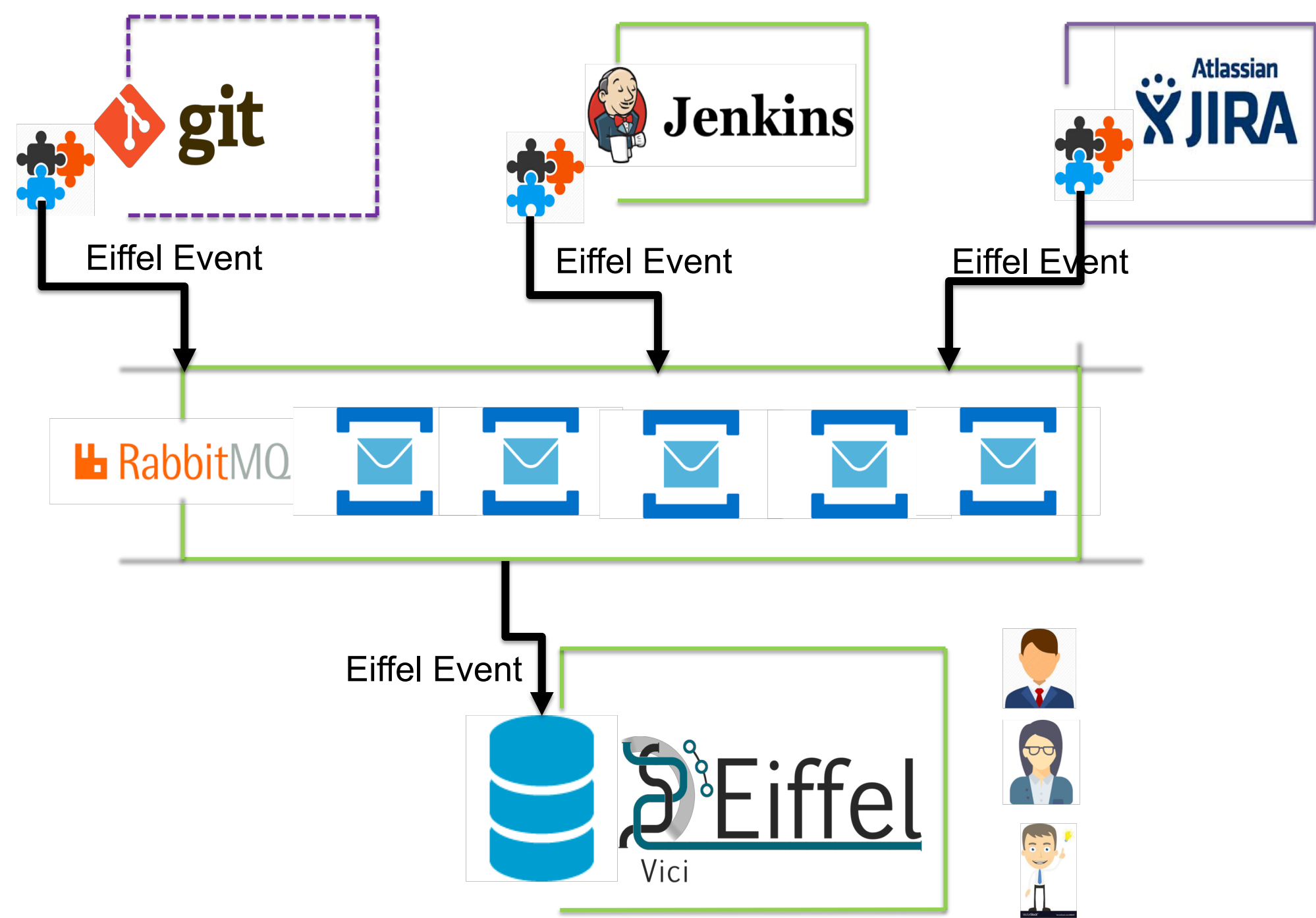
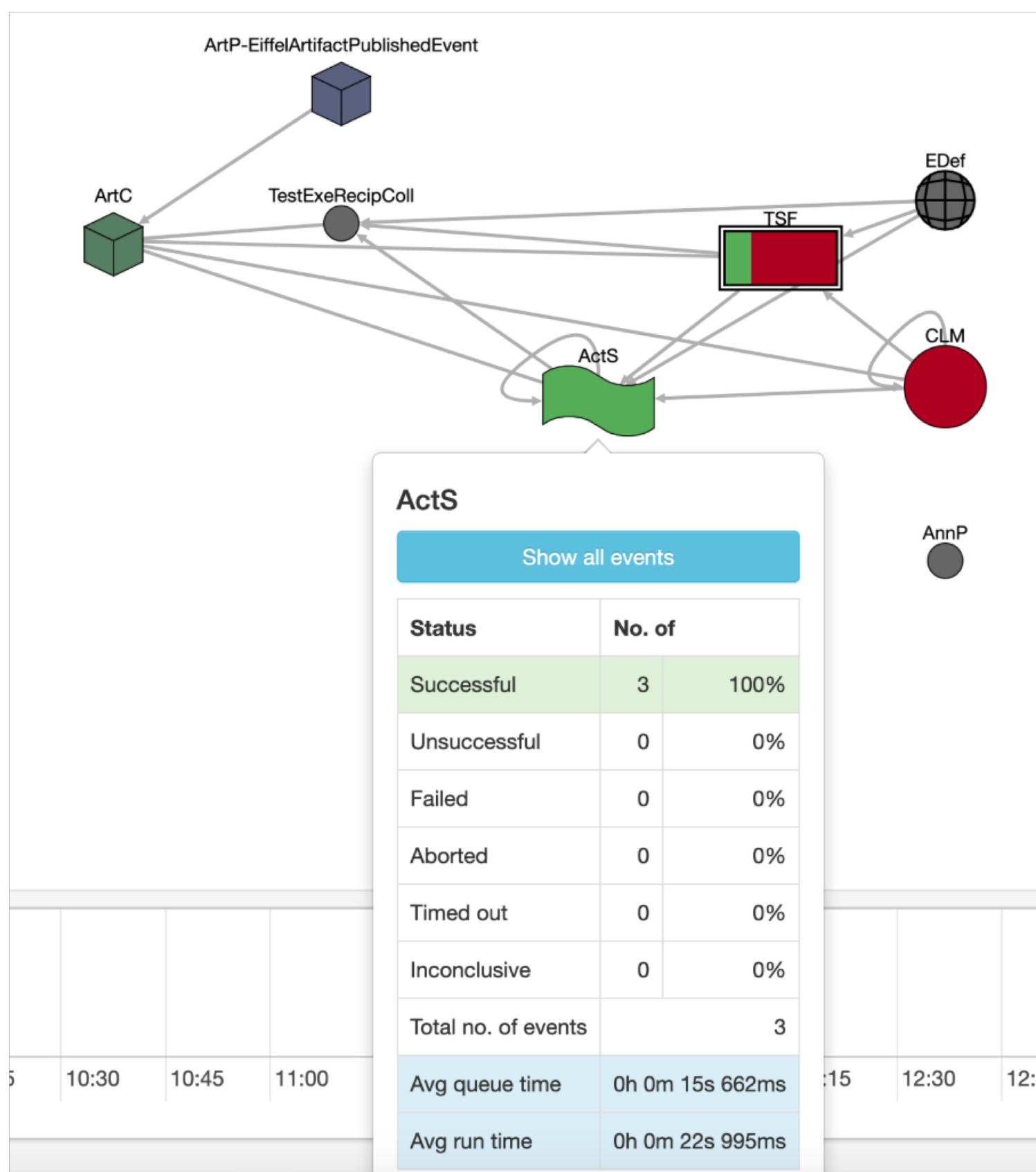
Current Progress / Deliverables:



- Migrated Eiffel protocol and visualization tool from 1.0.0 to 3.0.0 [1]
- Axis has developed a plug-in for Jenkins [2], and have started populating Vici with live data, an example is shown in the figure below
- Produced a persistence solution that acts as an extension of our Vici visualization tool and is capable of consuming Eiffel events produced by JIRA and other Eiffel-producing components [1].

Next Sprint Deliverables:

- A scientific paper where we objectively state the present knowledge in the need of visualization in CI/CD flows.
- A demonstrator that will help the uptake of the visualization by other companies in software center.
- We expect both to revise our own ideas about good use-cases as well as discovering new ones for visualizing data in CI/CD flows.

Snapshot of the Real Time Data from CI Pipeline at SC Company



 Plugin to Generate Eiffel Data
 Completed
[\[1\] https://github.com/eiffel-community/eiffel-store](https://github.com/eiffel-community/eiffel-store)
[\[2\] https://plugins.jenkins.io/eiffel-broadcaster](https://plugins.jenkins.io/eiffel-broadcaster)

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