

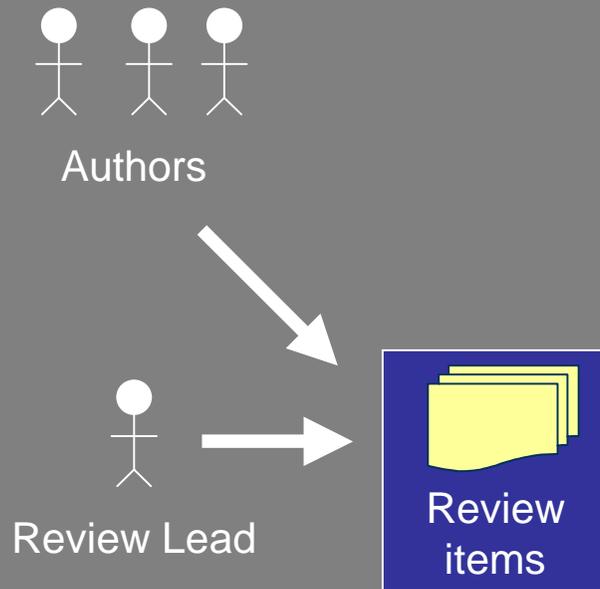
Review for Ericsson (R4E)

Description

- Electronic context sensitive review is one of the most efficient ways to improve software quality. Ericsson has developed an Eclipse based tool, framework and data model to perform electronic context sensitive review.
- This type of review is done without leaving the context where the artifact was created: the reviewing features integrate with the artifact creation context.
- It's applicable to many different types of artifacts like source code, UML, requirement, test cases, methods, etc.

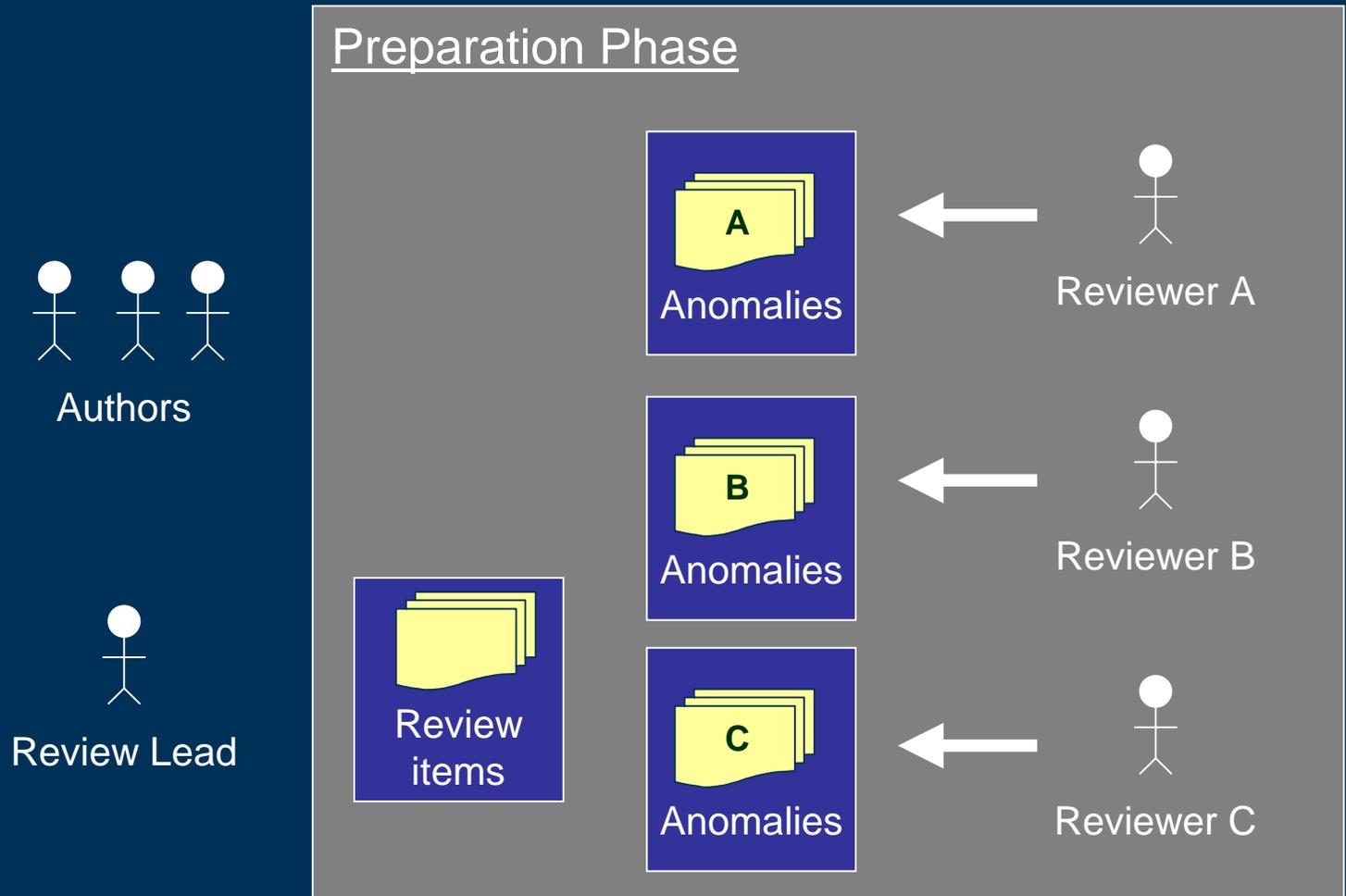
Review Process Overview

Planning Phase



An author may also be the leader to allow reviews of 2 or 3 participants.

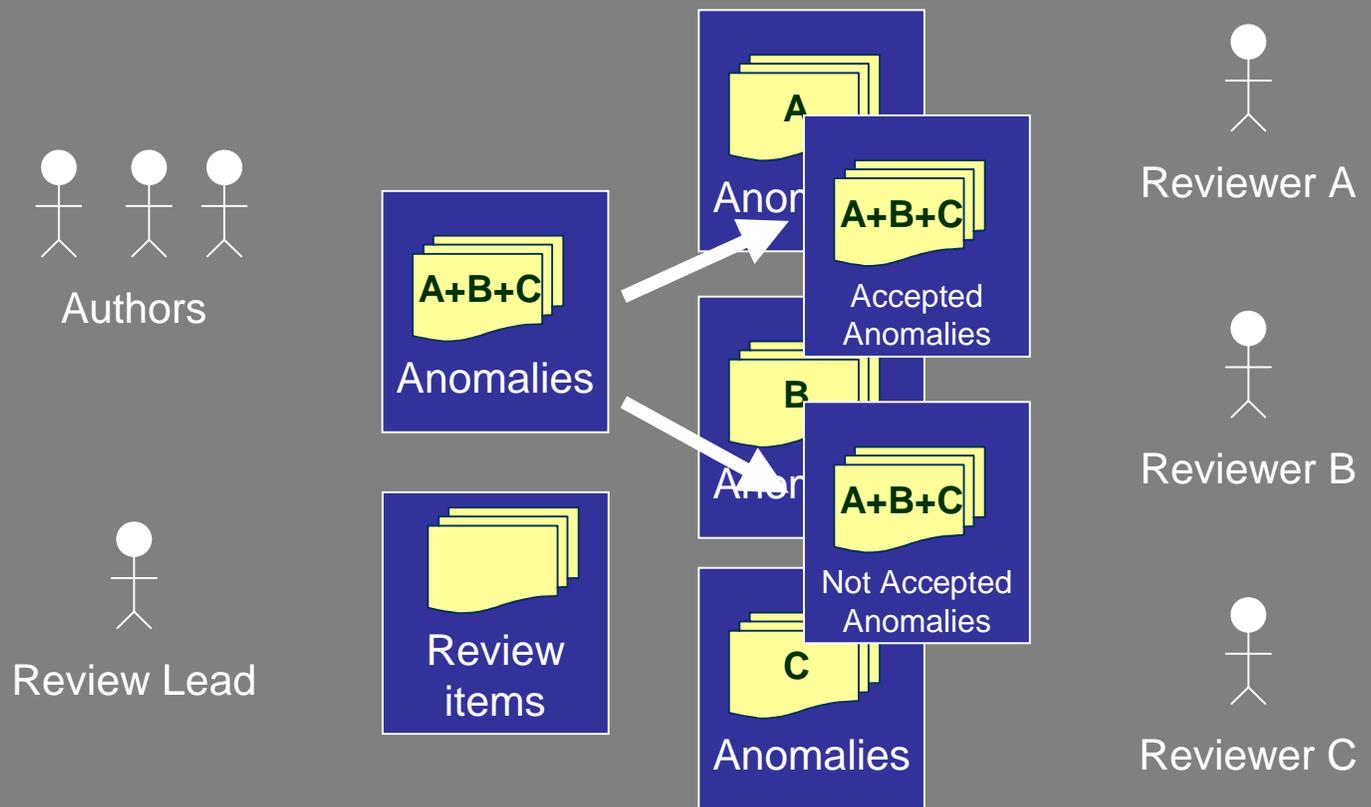
Review Process Overview



The authors and leader are also reviewers

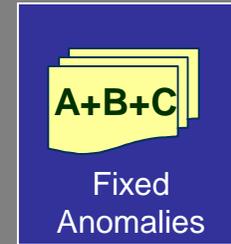
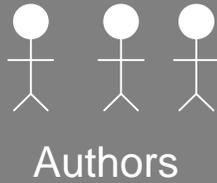
Review Process Overview

Decision Phase



Review Process Overview

Rework Phase



Planning Phase

The author provides the following input to the leader:

- Review items
- **Suggested** (found outside a review) and **postponed** (not fixed from previous review) anomaly list
- Reference material (optional)
- Specify if the entry criteria's have been fulfilled (optional)

The leader is responsible for the following activities:

- Participants identification and roles
- Viewpoint assignment to each reviewer (optional)
- Sending the input provided by the author
- Scheduling of the decision phase
- An overview meeting can be scheduled where the author presents an overview of the review item (optional)

Preparation Phase

All reviewers are responsible for the following activities:

- Examination of the review items
- Creation of anomalies in state **created**

Decision Phase

The leader is responsible for the following activities:

- Assessment of reviewers readiness for the review
- Reaching a **decision** with reviewers on the status of each anomaly. At the end of the decision phase each anomaly status shall either be in status **accepted**, **rejected**, **duplicated** or **postponed**
- Recording of who is assigned to each **accepted** anomaly and what is the due date
- Recording the exit decision of the review
- Recording of who will do the follow-up, when a follow up is required
- Recording of which participants attended the decision phase and the duration of the decision phase

Rework Phase

- The assigned participant fixes all accepted anomalies and set their status to **fixed**.
- When a follow-up is required the designated participant sets the state of anomalies to **verified**.

Some Benefits

- **Faster understanding of the artifact**
 - Reviewers have access to creation context features, e.g. finding where a method is used with the IDE
- **Always review the right things**
 - review item/anomaly location (e.g. file and line number) and version (e.g. from the file version tree) are automatically managed by the tool
- **Important review data is show with artefact meta-data**
 - Review status and suggested/postpone anomalies are shown in the file version tree
- **Scheduling review based on resource availability**
 - automated meeting request creation, scheduling data always in synch between R4E and Outlook
- **Ability to perform a quick review or a very formal inspection**
 - Support for Technical Review, Walk-through, Inspection, Management Review.

Some Benefits

- Automatic generation of review items
 - Wizards help users find review items, e.g. find all lines of code not reviewed for a component
- Anomalies are never lost
 - Anomalies found outside a review and unfixed anomalies found in previous reviews are automatically included when creating a new review of the artefact
- Nothing to print
 - Reviews are performed using the electronic version of the artifact
- Knowing if Reviews are really done in your project
 - Statistical reports on review data

Without those benefits, most projects don't perform code review

ERICSSON 

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