



Connecting the world of software delivery

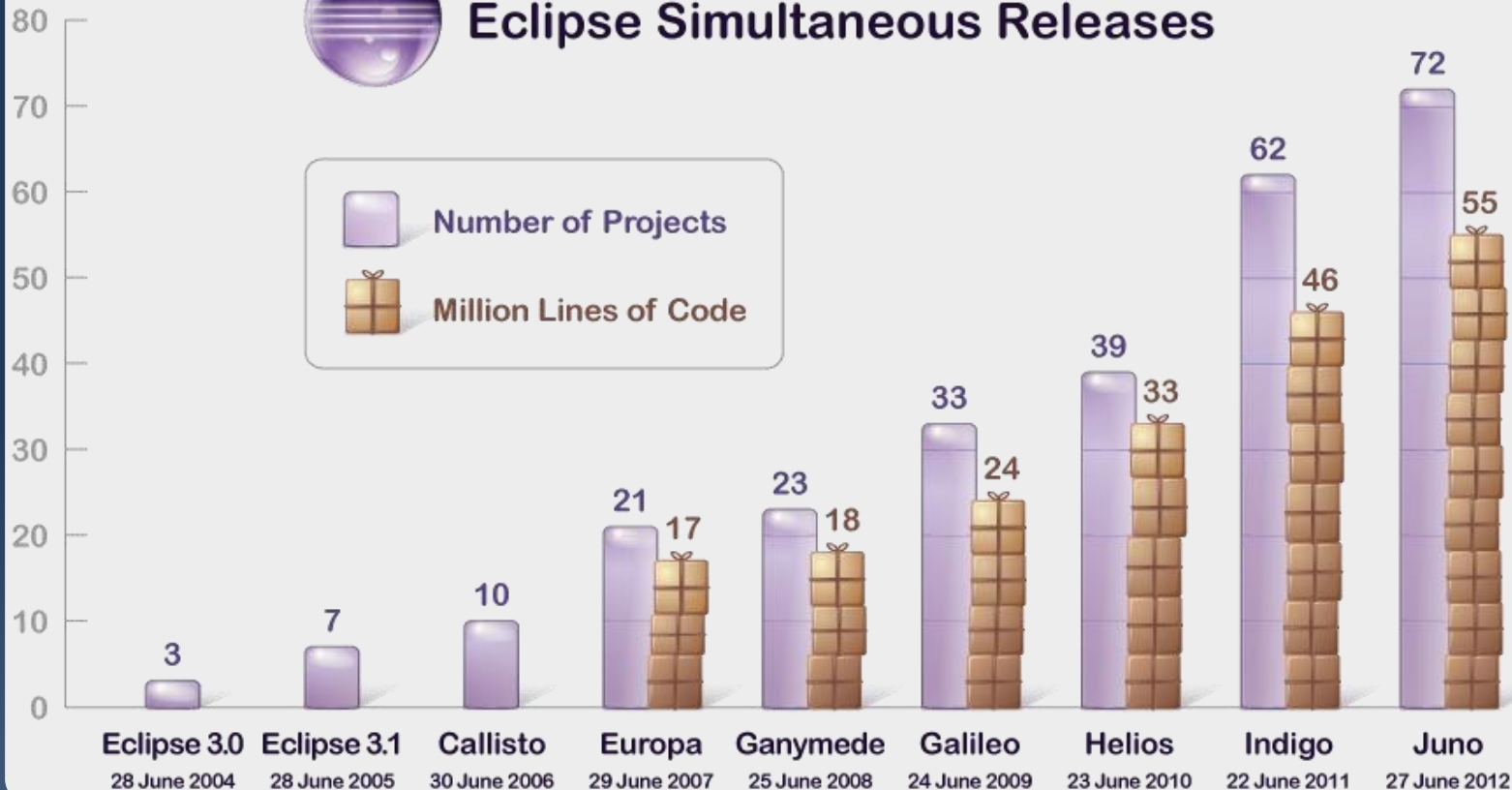


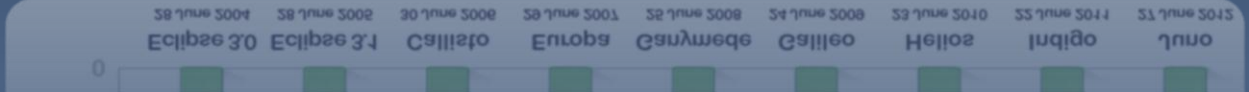
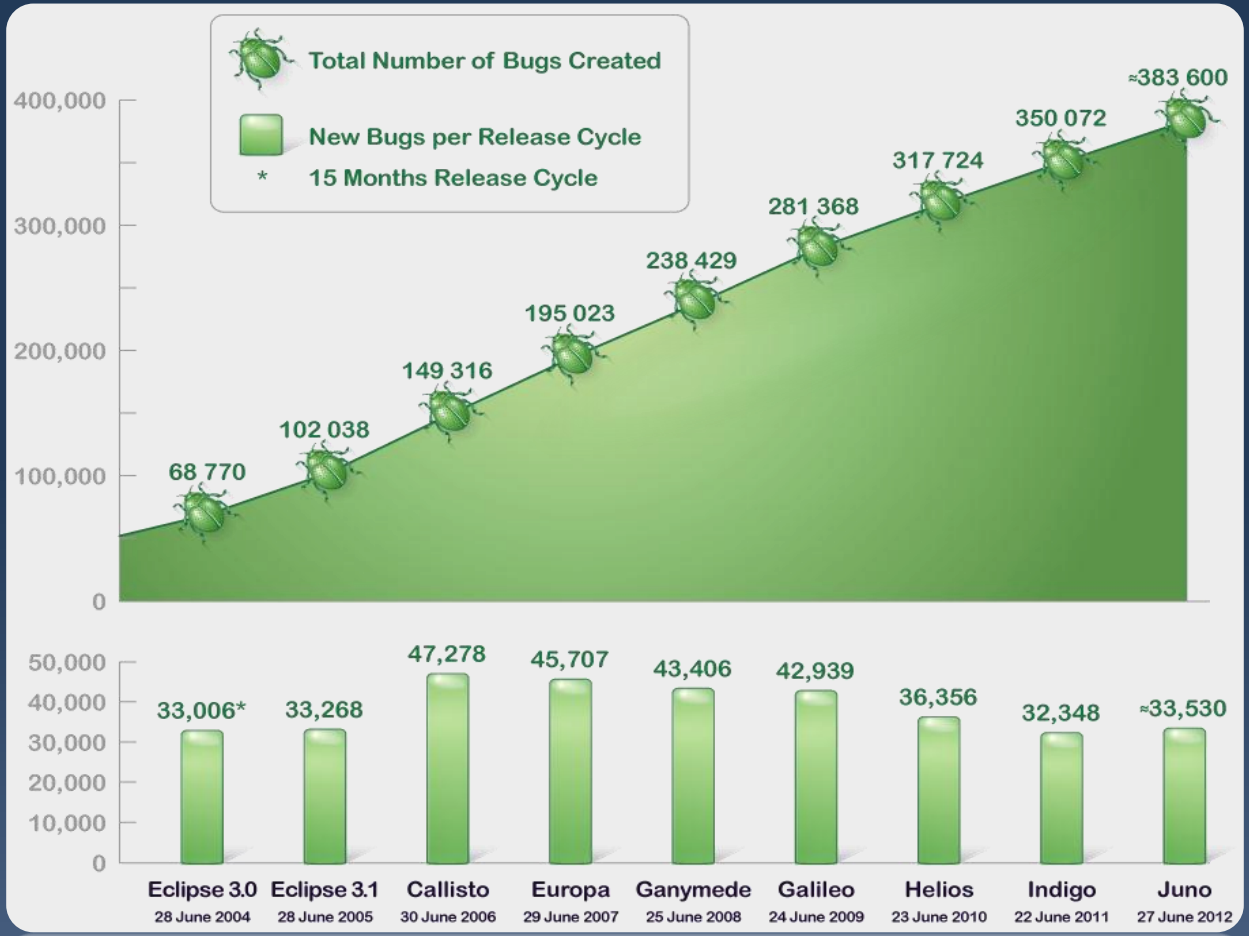
**Gaining traceability in the world  
of Agile ALM stacks**

@bmuskalla

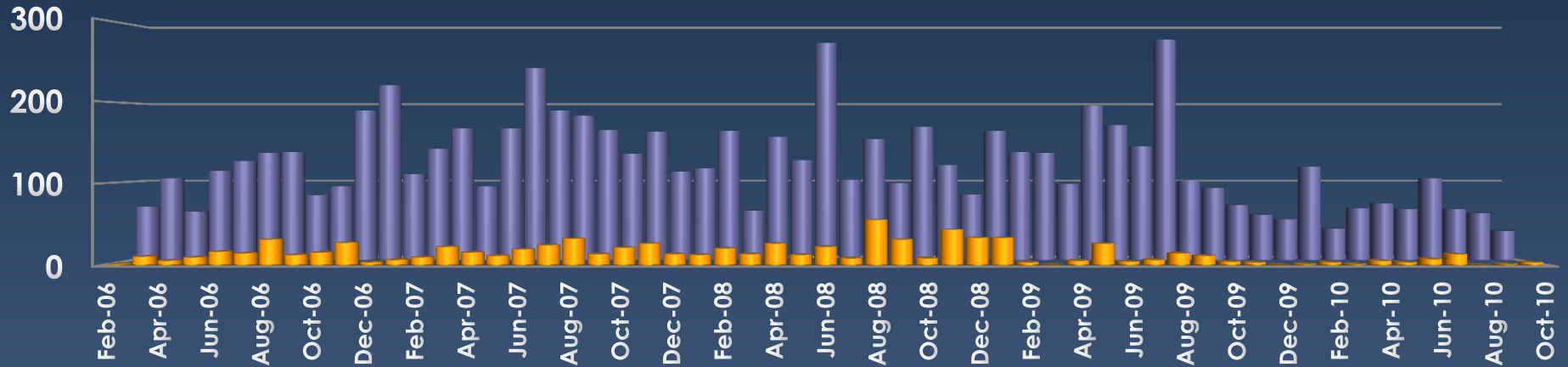


## Eclipse Simultaneous Releases





# Mylyn Bugzilla



■ # Patches Applied ■ Resolved

Source: Eclipse.org

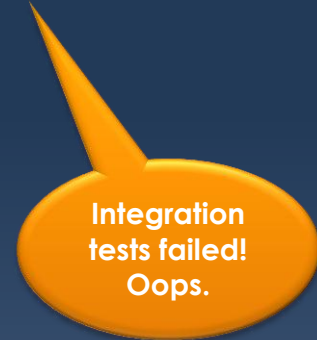
# Contribution Workflow

```
Code
Create Patch
Attach Patch
Update Patch
Attach Patch
```

```
Apply Patch
Compile
Test
Review
```



```
Apply Patch
Compile
Test
Review
```



**Bugzilla**

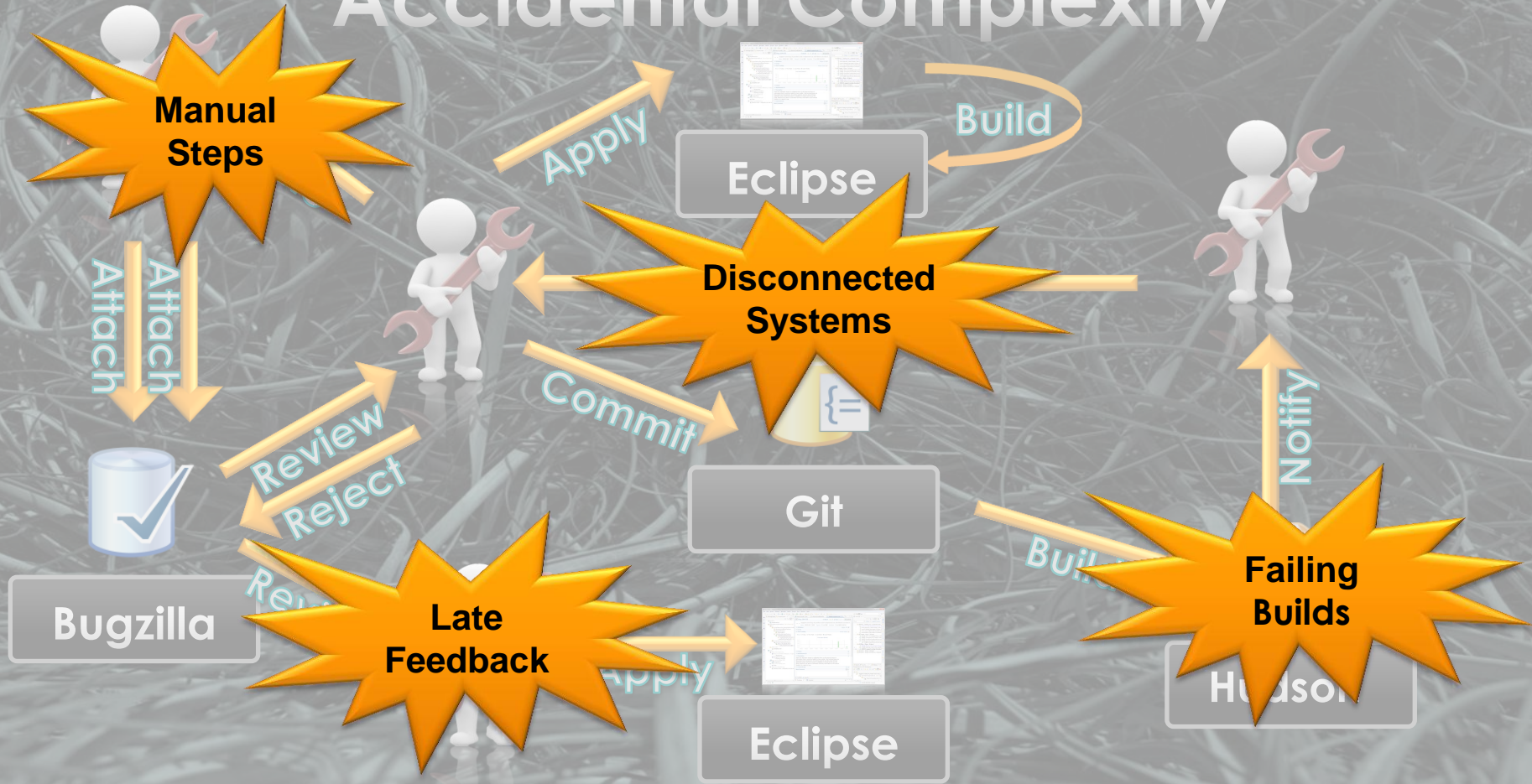


**Git**



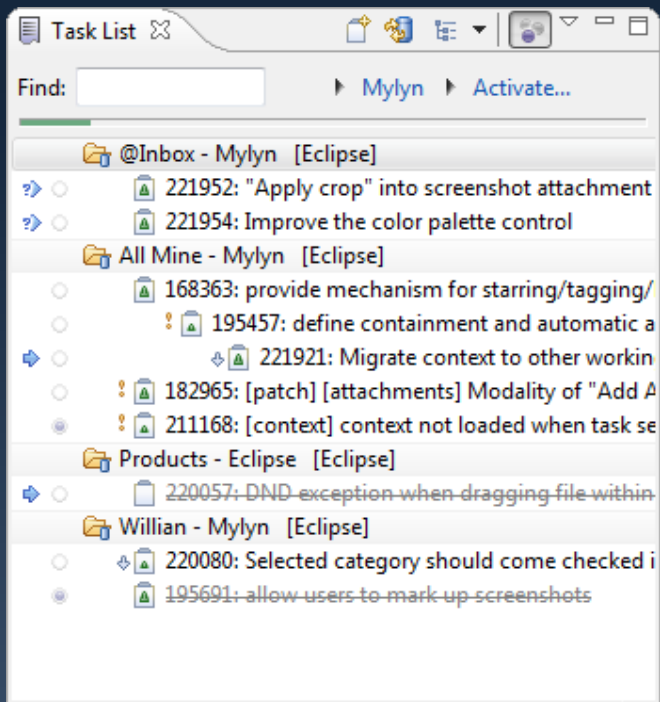
**Hudson**

# Accidental Complexity



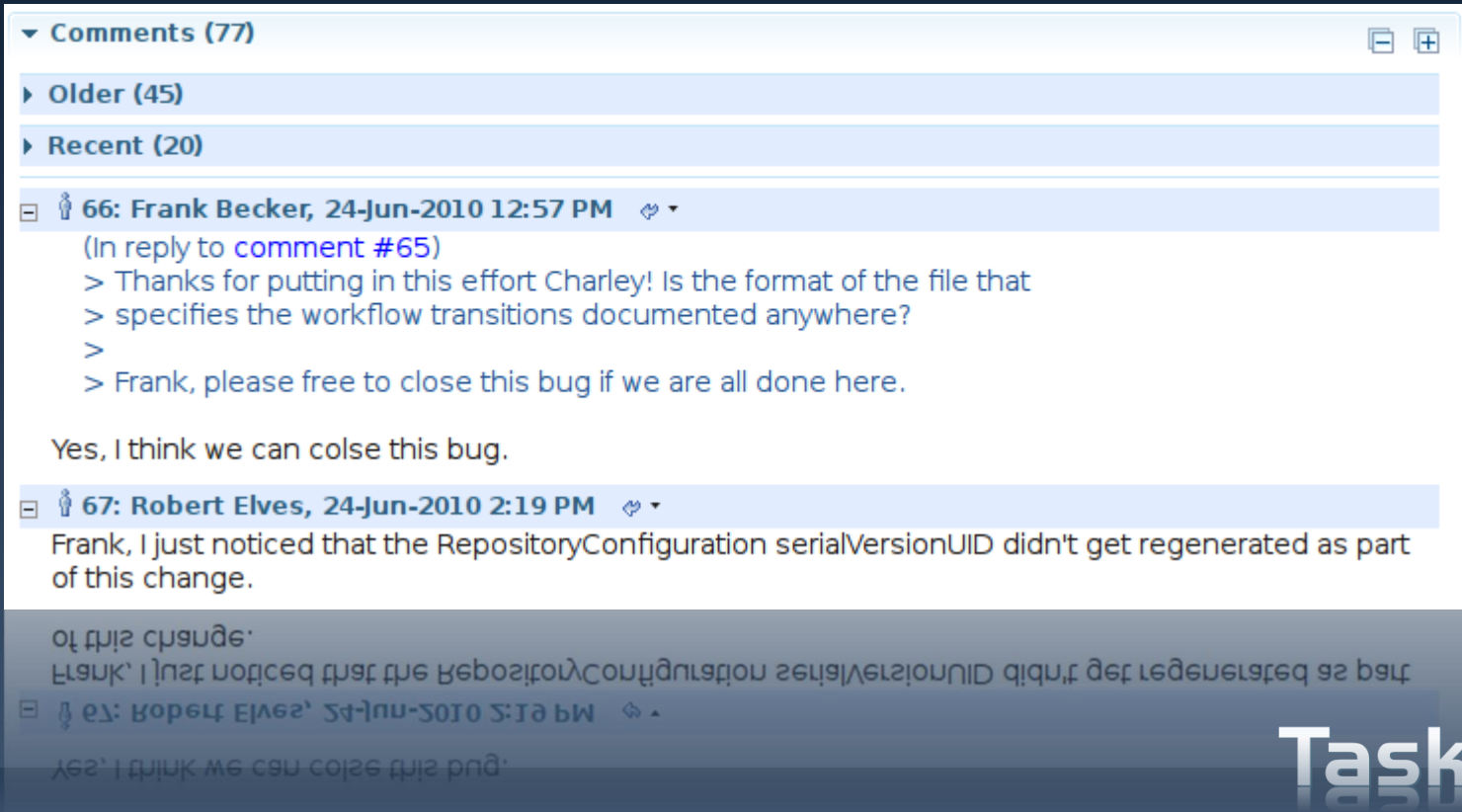
Friction + Distraction = :-(  
Flow + Focus = :-)

# Mylyn – From tasks...





# ...over collaboration...



Comments (77)

Older (45)

Recent (20)

66: Frank Becker, 24-Jun-2010 12:57 PM

(In reply to [comment #65](#))

- > Thanks for putting in this effort Charley! Is the format of the file that
- > specifies the workflow transitions documented anywhere?
- >
- > Frank, please free to close this bug if we are all done here.

Yes, I think we can colse this bug.

67: Robert Elves, 24-Jun-2010 2:19 PM

Frank, I just noticed that the RepositoryConfiguration serialVersionUID didn't get regenerated as part of this change.

of this change.  
Frank, I just noticed that the RepositoryConfiguration serialVersionUID didn't get regenerated as part

68: Robert Elves, 24-Jun-2010 2:20 PM

Yes, I think we can colse this bug.

The image shows a screenshot of a comment thread in a software development tool. The thread is titled "Comments (77)" and has two sections: "Older (45)" and "Recent (20)". The first comment, #66, is by Frank Becker, dated 24-Jun-2010 12:57 PM. It is a reply to comment #65 and contains three lines of text: "Thanks for putting in this effort Charley! Is the format of the file that specifies the workflow transitions documented anywhere?", a blank line, and "Frank, please free to close this bug if we are all done here." Below this is a response: "Yes, I think we can colse this bug." The second comment, #67, is by Robert Elves, dated 24-Jun-2010 2:19 PM. It says "Frank, I just noticed that the RepositoryConfiguration serialVersionUID didn't get regenerated as part of this change." Below this is a response: "of this change." The third comment, #68, is by Robert Elves, dated 24-Jun-2010 2:20 PM. It says "Yes, I think we can colse this bug." The text "colse" is misspelled as "colse" in the original image. The image is partially obscured by a dark blue gradient at the bottom, which contains the Tasktop logo.

# ...doing code reviews...

```
/**
 * @return an immutable DirCache instance. A new instance is created
 *         current instance is outdated
 * @throws NoWorkTreeException
 * @throws CorruptObjectException
 * @throws IOException
 */
public UnmodifiableDirCache getDirCache() throws NoWorkTreeException,
        CorruptObjectException, IOException {
```

**Shawn Pearce** 23-Jan-2011 3:55 PM

Because the field is volatile, its bad to read it multiple times in the method. Instead do:

```
DirCache ro = readOnlyDirCache;
if (ro == null || ro.isOutdated()) {
    ro = new UnmodifiableDirCache(getIndexFile(), getFS());
    readOnlyDirCache = ro;
}
return ro;
```

Press 'F2' for focus.

# to continuous integration!

The screenshot shows a Jenkins build page for 'mylyn-integration-e3.7#38'. The build status is 'Unstable' and the duration is '02:08:37'. The build was completed on '12.03.2011 00:45:09.000 -0800' and was started by the upstream project 'mylyn-integration-standalone' build number 14. The page is divided into several sections: 'Test Results' showing 1983 passed, 4 failed, and 0 ignored tests; 'Artifacts' which is currently empty; and 'Changes' listing several new bugs and resolved issues. The 'Test Results' section shows a tree view of test classes: 'org.eclipse.mylyn.reviews.r4e.core.R4ECoreAllTests' (with sub-tests 'testSerializeStub', 'testVerifyLoading', and 'testLoadGoldenGroup') and 'org.eclipse.mylyn.tests.AllTests' (with sub-test 'testSynchChangedReports'). The 'Changes' section lists items such as 'NEW - bug 336294: update bug reporting attributes spingel', 'NEW - bug 336657: improve Task List appearance on blank workspace spingel', 'NEW - bug 336655: improve welcome screen for Mylyn 3.5 spingel', 'Bug 338669: Include workspace information in generated ScmArtifacts aleon', 'RESOLVED - bug 336657: improve Task List appearance on blank workspace spingel', 'updated to 3.7M6 spingel', and 'NEW - bug 326252: add scm locations to manifests spingel'. The 'Details' section is partially visible at the bottom.

mylyn-integration-e3.7#38

● Build 38

Plan: mylyn-integration-e3.7 Build: 38 Status: Unstable Duration: 02:08:37

Completed on: 12.03.2011 00:45:09.000 -0800 [Show tests results in JUnit View.](#)

Cause: Started by upstream project "mylyn-integration-standalone" build number 14. [Show output in Console.](#)

### Test Results

Passed: 1983 Failed: 4 Ignored: 0

- org.eclipse.mylyn.reviews.r4e.core.R4ECoreAllTests
  - testSerializeStub 00:00:02
  - testVerifyLoading 00:00:03
  - testLoadGoldenGroup 00:00:00
- org.eclipse.mylyn.tests.AllTests
  - testSynchChangedReports 00:00:16

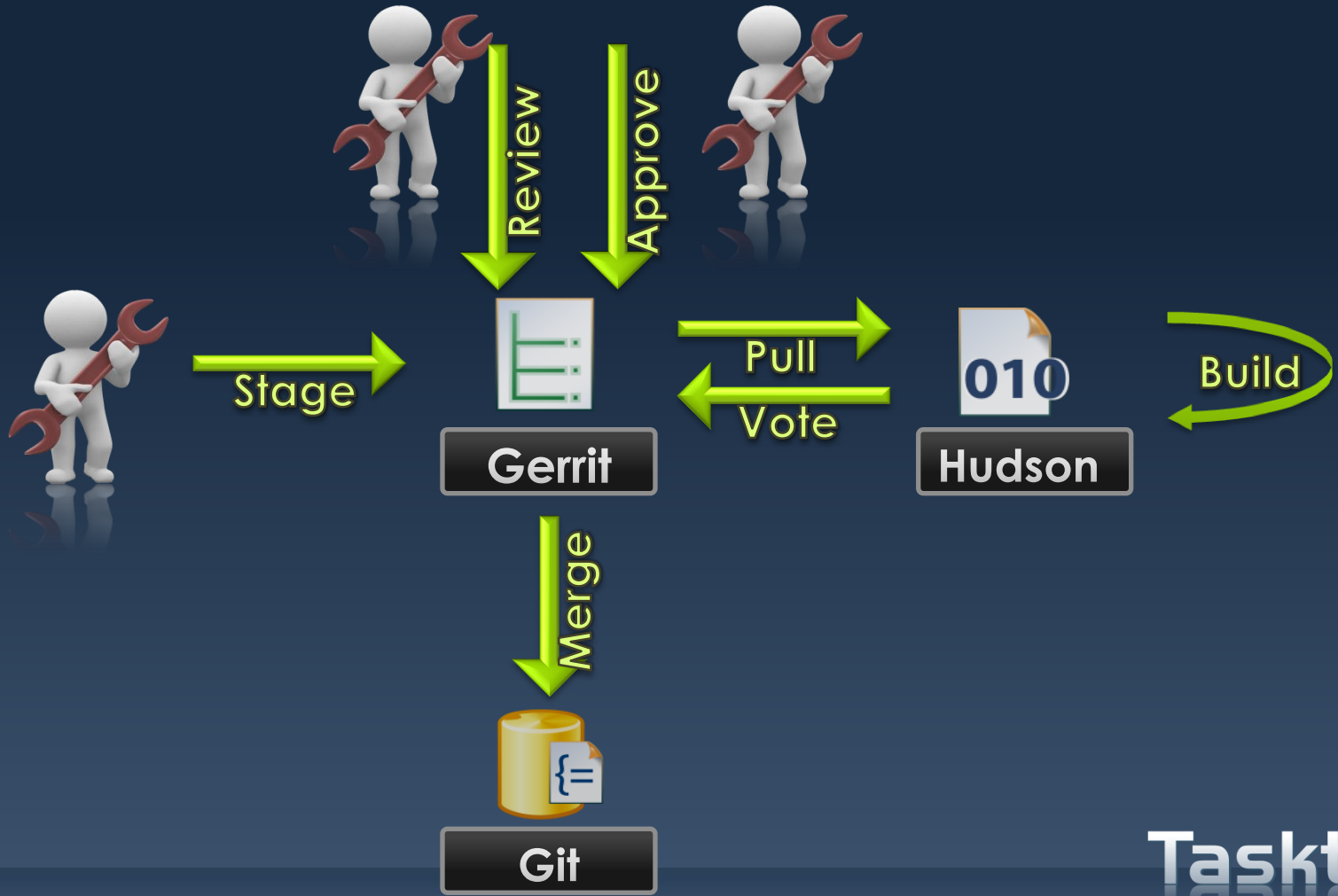
### Artifacts

--- No artifacts.

### Changes

- NEW - bug 336294: update bug reporting attributes spingel
- NEW - bug 336657: improve Task List appearance on blank workspace spingel
- NEW - bug 336655: improve welcome screen for Mylyn 3.5 spingel
- Bug 338669: Include workspace information in generated ScmArtifacts aleon
- RESOLVED - bug 336657: improve Task List appearance on blank workspace spingel
- updated to 3.7M6 spingel
- NEW - bug 326252: add scm locations to manifests spingel

Details



# Mylyn - Application Lifecycle Tools



Tasks

Bugzilla

Trac

OSLC



Context

Java

C/C++



Versions

CVS

Git

OSLC



Docs

WikiText

RichText



Builds

Hudson

OSLC



Reviews

Gerrit



Git

—

60M LOC



Bugzilla

—

380K tasks



Hudson

—

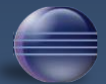
350 jobs



Gerrit

—

8000 reviews



Ops

—

35TB/month

ALM at Eclipse

# Developer Populism

I use to tell my developers what tools to use, but now they are increasingly telling me. Next thing you know I will be letting them bring their own laptops into work!

CIO, Large Financial Company

## Development

Issue  
Tracking  
(CM)



SCM



CI



IDE



eclipse



## Application Lifecycle Management (ALM)

Requirements  
Management  
(RM)



Agile  
Planning



Quality  
Management  
(QM)



## Development

Issue  
Tracking  
(CM)



SCM



CI



IDE



eclipse

# Project and Portfolio Management

CA Clarity



HP PPM



## Application Lifecycle Management (ALM)

Requirements  
Management  
(RM)



Agile  
Planning



Quality  
Management  
(QM)



## Development

Issue  
Tracking  
(CM)



SCM



CI



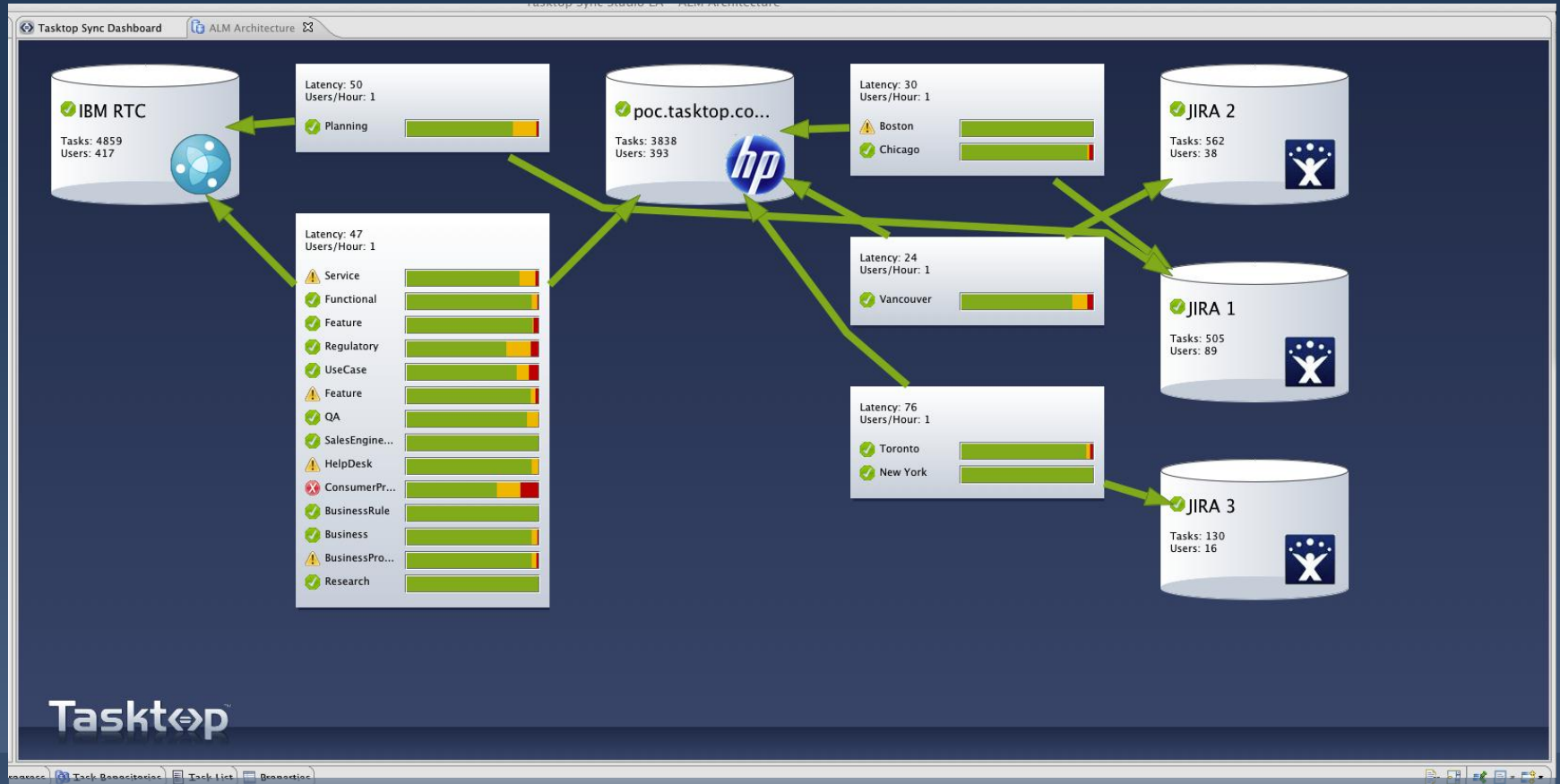
IDE



eclipse



# Real world is messier



Tasktop™



Agile Plans



Traditional Requirements



Mylyn

OSLC/Lyo



Tasks



Sources



Builds



Tests





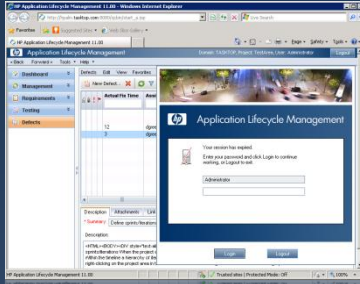
Tester



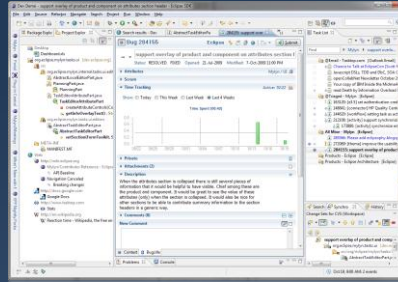
Developer



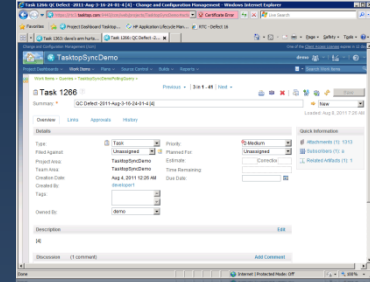
Manager



Browser



Mylyn



Browser



Tasktop

# Mylyn ecosystem

## Enterprise ALM



Agile Vision  
Product Vision



RTC, RRC  
ReqPro,  
ClearQuest



HP ALM, ALI,  
Quality Center



Microsoft  
TFS

## Agile ALM



## More



SmartBear



Perforce



CollabNet



Bugzilla



Trac



Mantis



Subversion



Git



CVS



Hudson



Jenkins



Tasktop

CERTIFIED

# Questions?

[eclipse.org/mylyn](https://eclipse.org/mylyn)

[tasktop.com](https://tasktop.com)





# OSLC Integration

- **Open Services for Lifecycle Collaboration**

- **Linking data through HTTP**

- HTTP
- RESTful based CRUD
- RDF / Linked Data

- **Linking data through HTML**

- Link to a new or existing resource
- Preview resource in another tool

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://...">
  <oslc_cm:ChangeRequest rdf:about="http://...">
    <rdf:type rdf:resource="http://...#ChangeRequest" />
    <dcterms:identifier> 00002314 </dcterms:identifier>
    <dcterms:title> Invalid instructions </dcterms:title>
    .
    .
    .
  </oslc_cm:ChangeRequest>
</rdf:RDF>
```

**Investigate timing error problem**

ID	DEF1	Status	Closed
Priority	5-Urgent	Created	May 20, 2011
Owner	administrator	Reporter	Administrator

Tasktop Sync

▼ Show More

Origin:

Comments

Links (3)

- Parent Of (1)
- 57: Dividend processing payment is a one
- Implemented By (2)
- Investigate timing error problem
- test monthly dividend transfers