15000 USERS, ONE UPDATE SITE

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Problem Statement

- Stand-alone repository
- Accumulate versions
- Pre-validated for a given stream
- Categorized for our users
AGGREGATION & VALIDATION

External repos

Eclipse b3 aggregator

Ericsson repo

› Validate
› Copy
› Create a final repo
› Categorize
Mirror internally

› Sources are unstable

› Remove references

ACCUMULATE VERSIONS

New repo

Old repo

Complete repo

p2 mirror
CATEGORIES

› P2 category publisher

› Composite repositories
Repository validator
  › Collect all the categorized elements
  › Install then uninstall in distros

Final repo
TESTING - PRESENT RESULTS

Upstream Projects
- eecs.Kepler.ValidateCatalog

Permalinks
- Last build (#47), 1 day 20 hr ago
- Last stable build (#47), 1 day 20 hr ago
- Last successful build (#42), 1 day 20 hr ago
- Last failed build (#43), 7 days 1 hr ago
- Last unsuccessful build (#43), 7 days 1 hr ago
Testing - Present Results

12 Failures (-11), 697 skipped (-50)

All Failed Tests

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Duration</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt;&gt; Installable Units.org.eclipse.epp.package.automotive.feature.feature_group/2.0.2.20140224-0000</td>
<td>2.9 sec</td>
<td>2</td>
</tr>
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<td>&gt;&gt;&gt; Installable Units.org.eclipse.epp.package.reporting.feature.feature_group/2.0.2.20140224-0000</td>
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All Tests

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<tr>
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<th>Duration</th>
<th>Fail</th>
<th>(diff)</th>
<th>Skip</th>
<th>(diff)</th>
<th>Total</th>
<th>(diff)</th>
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<td>0</td>
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<td>15</td>
<td>-1</td>
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<td>-1</td>
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<td>installable Units</td>
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<td>12</td>
<td>-11</td>
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<td>-12</td>
<td>576</td>
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<td>682</td>
<td>-59</td>
<td>682</td>
<td>-59</td>
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</table>
WHAT HAS BEEN ADDED?

› Tool to diff two p2 repos
  › http://eclipsesource.com/blogs/2012/10/10/introducing-p2diff/

Final repo
P2 DIFF

> com.ericsson.commonpref.dsc.feature.group [1.2.2.ericsson-51]
> com.conformiq.designer.feature.group [4.5.3.41416]
> com.ibm.rational.clearcase.ide.feature.feature.group [8.0.1.w201311272219]
> com.vmware.studio.eclipse.feature.group [2.6.0.0-631426]
> net.sourceforge.eclipseccase.feature.group [2.2.34.201308231215]
*** Summary ***
file:/project/eecs/automatedBuilds/kepler/staging/repo contains 5 unique IUs
PUTTING IT ALL TOGETHER!

category.xml

Jenkins
LESSONS LEARNED

› Jenkins is not an SCM!
  – Keep the list of sites to mirror in your SCM

› Minimize the number of jobs
  – We use Matrix builds

› Work on a shared drive or specific Jenkins workspace
  – Save time by saving on files copy
  – Does not clutter slaves

› Problems
  – Duplication of URLs between what the b3 files refer to and our list of sites
  – Build avoidance not supported on p2 metadata
  – Can’t go back to specific build
FUTURE WORK

› Reduce repo size

› “Standardize” structure of Eclipse repos to make discovery more easy

› Explore ways to use Artifactory more fully to not copy the jars around
Many tools with their strengths and weaknesses, but we love them for what they are!
QUESTIONS
Evaluate This Session

1. Sign-in: [www.eclipsecon.org](http://www.eclipsecon.org)

2. Select session from schedule

3. Evaluate: 
   - [ ] +1
   - [ ] 0
   - [ ] -1