Tools for Software Change Control and Defect Tracking
About Software development...

- Did you try implementation alternatives?
- Were you uncertain whether a significant change would work?
  - Did you make local copies as backups?
  - Did you sometimes wish to revert to a previous version?
- Were you not sure whether all features have been implemented?
- Did you forget about an idea?
- Did you forget a bug again?
- Did you work in a team?
Motivation

- All reasons to use...
  - Version Control
  - Issue Tracker
  - or both!
Kinds of tools?

1. Version Control Systems
   - basics
   - open source and commercial tools
     - CVS, Subversion, others

2. Feature, Bug and Defect Tracking
   - Bugzilla
   - Jira

3. Integrated Project Management
   - Trac
   - MACE
Part I: SCC Tools

- synonyms:
  - Source Code Control (SCC),
  - Source Code Management (SCM),
  - Version Control,
  - Revision Control

- open source
  - CVS
  - Subversion

- commercial tools
Why SCC

• Version Control
  • Backup solution
  • Change tracking
    • Who, what, when

• Concurrency
  • Multiple Developers can work simultaneously
  • Conflict resolution

• Release Planning
  • Working on different stages
    • try new technology/concepts in separate branches
  • Reverting back to recent releases
Historic: Revision Control System

• Revision Control System
  • Manages multiple revisions of text files
  • Developed by Walter Tichy at Purdue University in the early 1980s
  • RCS System was the predecessor of CVS
  • RCS stores the most recent version and reverse differences (deltas)

• RCS format
  • Also: Patch, Diff
  • File format to manage differences between two text files
CVS

- “Reference” version control software - many different client applications
  - Does the job well enough to require serious thought before replacing
- Used for many open-source projects
  - sourceforge.org
  - mozilla.org
- Supports Tags and Branches
- Unreserved checkouts
  - multiple developers can work on the same file
TortoiseCVS
- Windows Explorer Integration
SVN (subversion)

- A newer CVS alternative, core syntax is identical
  - Released Feb. 2004, Open Source
- Server configuration:
  - Apache web server
  - svnservice & ssh - custom server with encryption layer
  - HTTP/WebDAV access
  - All directories and files in a subversion repository are addressed by an URL
    
    `http://oms.ars.usda.gov/svn/prj/trunk/forage`

    - protocol
    - host
    - repository
    - directory

- Graphical Client Tools
  - **TortoiseSVN, eclipse plugin...**
SVN improvements

- Designed to overcome limitations of CVS
  - Directories, renames and file meta-data are versioned
    - Can now delete directories (not in CVS)
    - One version number for the whole repository
  - More configuration options
  - Overcomes security limitations
  - Efficient handling of binary files
  - Performance guarantees
    - Branching and Tagging are constant time operations (copy operations)
    - Costs are proportional to change size, not data size
Main concepts throughout

- Import/Checkout
- Commit/Update
- Merge
- Branch/Tag

Central Repository

Synchronization

Local Workspace(s)

B

A

B

Local Workspace(s)
Import

- Add a local directory structure to an existing repository
- Make it available for other developers
Checkout

- Create a working copy from the repository on the local file system
- **The working copy is linked to its origin**
Commit

- Apply local changes to the repository = synchronize repository with changes
  - content modifications
  - file deletion
  - files added (usually need to be marked to be included)
When to commit

- Best: one conceptual change at a time
- Group all affected files into one change
  - Usually gets a unique revision number (in CVS, SVN)
  - Easier to reverse, test change
- Should have tested the code before
  - Can associate automatic regression testing
  - Can also trigger automated builds
- **Code should AT LEAST compile**
  - Not hindering other developers
- Document changes
  - Most SCC define a field for „change comment“ + author
  - Easier to track down defect injection
What to commit

- **Source Code files**
  - *.C; *.java, *.php, *.pl, *.for, *.txt, ...

- **Related files such as**
  - Build / Configuration files
  - Documentation
  - Test code + data sets

- **NOT**
  - Files which can be reproduced out of sources.
  - Temporary/Intermediate Files
    - *.o; *.obj, *.dll, *.exe, *.dvi
  - Exceptions (e.g., automated builds)
<table>
<thead>
<tr>
<th>Rev</th>
<th>Path</th>
<th>Author</th>
<th>Age</th>
<th>Log message</th>
</tr>
</thead>
<tbody>
<tr>
<td>9267</td>
<td>/trunk/</td>
<td>sommer</td>
<td>2 days</td>
<td>changed project name and maven files</td>
</tr>
<tr>
<td>9266</td>
<td>/trunk/</td>
<td>sommer</td>
<td>2 days</td>
<td>initial import of a copy of the reasoner project</td>
</tr>
<tr>
<td>9265</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>1.1 days</td>
<td></td>
</tr>
<tr>
<td>9163</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9162</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9160</td>
<td>/trunk/</td>
<td>troeger</td>
<td>2 weeks</td>
<td>Extended patching of incoming WSDL, in order to consider default namespace usage in attribute values</td>
</tr>
<tr>
<td>9159</td>
<td>/trunk/</td>
<td>troeger</td>
<td>2 weeks</td>
<td>Updated application script</td>
</tr>
<tr>
<td>9158</td>
<td>/trunk/</td>
<td>troeger</td>
<td>2 weeks</td>
<td>Included, but commented out a check if placement is valid; needs further work</td>
</tr>
<tr>
<td>9157</td>
<td>/trunk/</td>
<td>troeger</td>
<td>2 weeks</td>
<td>Bruessel's preparation: Fixed service detail and service overview pages, removed non-working statistics rendering for services, removed non-working statistics page, fixed copyrights</td>
</tr>
<tr>
<td>9156</td>
<td>/trunk/</td>
<td>grobelny</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9155</td>
<td>/trunk/</td>
<td>grobelny</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9154</td>
<td>/trunk/</td>
<td>grobelny</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9153</td>
<td>/trunk/</td>
<td>grobelny</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9152</td>
<td>/trunk/</td>
<td>grobelny</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9151</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9149</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td>[maven-scm-plugin] prepare release</td>
</tr>
<tr>
<td>9148</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9147</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td></td>
</tr>
<tr>
<td>9145</td>
<td>/trunk/</td>
<td>hmeyer</td>
<td>2 weeks</td>
<td>[maven-scm-plugin] prepare release</td>
</tr>
</tbody>
</table>
This comparison shows the changes necessary to convert path /trunk/Scenarios/DynamicSupplyChain/Client/src/ (Rev 7480) TO /trunk/Scenarios/DynamicSupplyChain/Client/src/ (Rev 7510)

Reverse comparison

org/asg/platform/bsc/scenario/handlers/SavePaymentDetailsHandler.java

@@ -46,7 +46,7 @@
    String currency = request.getParameter("currency");
    String amount = request.getParameter("amount");

    String creditCardValue = MessageFormat.format (CREDITCARD_TEMPLATE, type, year, month, exp);
    String creditCardValue = MessageFormat.format (CREDITCARD_TEMPLATE, type, month, year, exp);
    params.put("CC", creditCardValue);

    String amou = MessageFormat.format (AMOUNT_TEMPLATE, currency, amount);

org/asg/platform/bsc/scenario/handlers/SavePersonalDetailsHandler.java

@@ -77,7 +77,7 @@
    fax, faxarea, faxnumber);
    params.put("C", customerValue);

    String adminValue = MessageFormat.format (CUSTOMER_TEMPLATE, firstName, lastName,
    String adminValue = MessageFormat.format (CUSTOMER_TEMPLATE, firstName, lastName,
    street1, street2, city, zip, state, country,
    organization, email,
    phonecc, phonearea, phonenumber,
Update

- Brings the local workspace in synchronization with the changes being made in the central repository
- Should check before for repository changes
Merge

Central Repository

Synchronization

Local Workspace(s)

Local Workspace(s)

Two concurrent changes

depending on the system and file format

automatic merge

line-based

manual merge

compare and choose
TortoiseSVN

- Client for Subversion
- Windows Explorer Extension
SVN repository layout

- trunk
  - main development code base
- branches
  - subproject branches
- tags
  - tagged releases
<table>
<thead>
<tr>
<th>Path</th>
<th>Log</th>
<th>Tarball</th>
<th>feed</th>
<th>XML</th>
</tr>
</thead>
<tbody>
<tr>
<td>branches/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tags/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trunk/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Build/</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Composition/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CompositionImpl/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>bin/</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>conf/</td>
<td></td>
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</tr>
<tr>
<td>src/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>com/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>org/</td>
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<td></td>
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</tr>
<tr>
<td>asg/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>platform/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>composition/</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>impl/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CompositionPlannerImpl.java</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PlaengineIntegration.java</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>test/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CompositionMockImpl/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contracting/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ContractingImpl/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discovery/</td>
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## Revision Information

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<tr>
<th>Current Directory:</th>
<th>/branches/</th>
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<tr>
<td>Rev:</td>
<td>9271</td>
</tr>
<tr>
<td>Author:</td>
<td>boehme</td>
</tr>
<tr>
<td>Last modification:</td>
<td>Rev 9271 - 2006-11-10 15:32:33 +0100 (Fri, 10 Nov 2006)</td>
</tr>
<tr>
<td>Log message:</td>
<td>[maven-release-plugin] prepare for next development iteration (Show changed files)</td>
</tr>
</tbody>
</table>

### File List

<table>
<thead>
<tr>
<th>Path</th>
<th>Log</th>
<th>Tarball</th>
<th>RSS feed</th>
</tr>
</thead>
<tbody>
<tr>
<td>branches/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
<tr>
<td>CompositionImplWithParallel/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
<tr>
<td>CompositionWithoutDb/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
<tr>
<td>CompositionWithPlaengine/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
<tr>
<td>DeploymentHbr/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
<tr>
<td>InvocationDC/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
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<tr>
<td>InvocationHbr/</td>
<td>View Log</td>
<td>Tarball</td>
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<td>Reasoner/</td>
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<td>XML</td>
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<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
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<td>tags/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
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<td>View Log</td>
<td>Tarball</td>
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<tr>
<td>Path</td>
<td>Log</td>
<td>Tarball</td>
<td>RSS feed</td>
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</tr>
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<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
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<td>View Log</td>
<td>Tarball</td>
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<td>asg-invocation-els-2.1.0/</td>
<td>View Log</td>
<td>Tarball</td>
<td>XML</td>
</tr>
</tbody>
</table>
Commercial Version Control

- **Visual SourceSafe**
  - Excellent integration in MS Visual Studio
  - Does not scale very well

- Perforce

- Rational ClearCase

- ...
## Comparison

<table>
<thead>
<tr>
<th></th>
<th>Repository operations</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Atomic commit</td>
<td>move/ rename of files and directories</td>
</tr>
<tr>
<td>CVS</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Subversion</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Visual Source</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Safe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perforce</td>
<td>Yes</td>
<td>No (not directly)</td>
</tr>
<tr>
<td>ClearCase</td>
<td>?</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Part II: Feature Tracking Systems

- Bug
- Feature
- Defect
- Issue

Tracking

- Bugzilla
- Jira

Wiki-based
- trac
- Mase
Why Version Control - Revisited

- **Backup solution**
  - Protection of information lose
  - Usually separate server with automatic backup solutions
- **Concurrency**
  - Multiple Developers can work simultaneously
  - Merging later
- **Release Planning**
  - Working on different stages
    - try new technology/concepts in separate branches
  - Reverting back to recent releases
- **Change Tracking**
  - see who did what and when
Why Issue Tracking

- Support during development process
  - Management Tool
    - See progress
    - Evaluate risks
    - Estimate time
  - Give details about new features
    - Integrated requirements tracking
    - How important is it
    - Who is responsible
    - When must it be finished

Comprehensive information about development state
Defects, Tickets, Issues – Basics

• Describe each feature by
  • Unique Identifier
  • Status
  • Severity = how critical is it?
  • Priority = when will be dealt with it?
  • Component, Subsystem
  • Affected Release
  • Who is responsible
  • Affected Infrastructure
  • Textual description

• Additionally provide information on defects
  • How to reproduce them
Bugzilla

- [http://www.bugzilla.org](http://www.bugzilla.org)

- Generic web-based bug tracking system, developed and used by the Mozilla foundation

- Anyone can submit bugs, assigned to developers, status updates, user notes, code examples
<table>
<thead>
<tr>
<th>Bug #</th>
<th>Dupe Count</th>
<th>Change in last 30 day(s)</th>
<th>Component</th>
<th>Severity</th>
<th>Op Sys</th>
<th>Target Milestone</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>357922</td>
<td>24</td>
<td>24</td>
<td>Installer</td>
<td>major</td>
<td>Windows XP</td>
<td>---</td>
<td>Bookmarks missing, tabs broken, etc. (Firefox 2 install over Firefox 1.5.0.7 failed to replace some files.)</td>
</tr>
<tr>
<td>319195</td>
<td>45</td>
<td>16</td>
<td>Startup and Profile System</td>
<td>critical</td>
<td>Windows XP</td>
<td>---</td>
<td>Customized toolbar always reset to default on restart, bookmarks and search engines lost, unable to add search engines (localstore.rdf corruption on upgrade or crash)</td>
</tr>
<tr>
<td>304370</td>
<td>29</td>
<td>15</td>
<td>Plug-ins</td>
<td>critical</td>
<td>Linux</td>
<td>---</td>
<td>Crash if flash is loaded and xserver (xorg) uses the composite extension and has the color depth set to 16 bit</td>
</tr>
<tr>
<td>349716</td>
<td>11</td>
<td>8</td>
<td>Keyboard Navigation</td>
<td>normal</td>
<td>Windows XP</td>
<td>Firefox 3 alpha1</td>
<td>Content accesskeys now require Alt+Shift</td>
</tr>
<tr>
<td>321402</td>
<td>7</td>
<td>7</td>
<td>Layout: Block and Inline</td>
<td>major</td>
<td>All</td>
<td>mozilla1.9alpha</td>
<td>bug 320502 caused text/inline inside XUL boxes (often -moz-inline-box) to disappear (Folder view does not display header info in Domino Web Mail (inoles))</td>
</tr>
<tr>
<td>951491</td>
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<td>6</td>
<td>Keyboard Navigation</td>
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<td>All</td>
<td>---</td>
<td>First click in a window does not follow a link with caret browsing on</td>
</tr>
<tr>
<td>844422</td>
<td>7</td>
<td>6</td>
<td>Find Toolbar / FastFind</td>
<td>normal</td>
<td>Windows XP</td>
<td>---</td>
<td>New Quick search doesn't have &quot;Find next&quot;, &quot;Find previous&quot; and other</td>
</tr>
<tr>
<td>358187</td>
<td>5</td>
<td>5</td>
<td>Preferences</td>
<td>normal</td>
<td>All</td>
<td>---</td>
<td>Bad merge of tab/window prefs can lead to Options UI showing wrong setting</td>
</tr>
<tr>
<td>347046</td>
<td>5</td>
<td>5</td>
<td>GFX: Mac</td>
<td>normal</td>
<td>Mac OS X 10.3</td>
<td>mozilla1.8.1</td>
<td>Mac 1.8.1: Progress spinner misplaced when starting with multiple tabs</td>
</tr>
<tr>
<td>40594</td>
<td>10</td>
<td>5</td>
<td>MailNews: Composition</td>
<td>major</td>
<td>All</td>
<td>Future</td>
<td>Allow edit of unsent message (Unsent folder messages should open to a compose window when double click)</td>
</tr>
</tbody>
</table>
Jira

- http://www.atlassian.com/software/jira/
- Free only for non-commercial use
- Web-based Issue-Tracking system
  - using tickets for each feature/bug
- Dashboard for additional information
  - Wiki-like
All Projects: Crowd (Key: CWD)

Project Lead: Justen Stepka
URL: http://confluence.atlassian.com/display/CROWD

Reports
- Recently Created Issues Report
- Created vs Resolved Issues Report
- Resolution Time Report
- Average Age Report
- Pie Chart Report
- User Workload Report
- Version Workload Report
- Time Tracking Report
- Single Level Group By Report

Preset Filters
- All
- Outstanding
- Unscheduled
- Resolved recently
- Added recently
- Updated recently
- Most important

Project Summary
- Open: 15 (50%)
- In Progress: 3 (10%)
- Resolved: 12 (40%)

Open Issues
By Priority
- Blocker: 2 (11%)
- Major: 15 (83%)
- Minor: 1 (6%)

By Assignee
- Justen Stepka: 17 (94%)
- Justin Koke: 1 (6%)

Components
- Administration Console: 4
- Backend / Domain Model: 3
- Connector: 8
- Distribution: 1
- Documentation: 1
- Integration Kit: 1
- Licensing: 1

Versions
- 0.2: 4
- 0.3: 11
- Unscheduled: 3
### Issue Navigator

Displaying issues 1 to 42 of 42 matching issues.

#### Current View:

- Browser: [XML], [RSS (Issues)], [RSS (Comments)], [Printable], [Word], [Full Content], [Full Content (HTML)]
- Tools: [Excel], [All fields], [Current fields], [Charts]

<table>
<thead>
<tr>
<th>Key</th>
<th>Summary</th>
<th>Reporter</th>
<th>Pr</th>
<th>Status</th>
<th>Res</th>
<th>Created</th>
<th>Updated</th>
<th>Votes</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRA-11530</td>
<td>Need to decide whether to put in redirects for Excel, Printable and Word views of a filter</td>
<td>Anton Mazhovoi</td>
<td>Open</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>13/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11528</td>
<td>Check that the optimise job is running OK on JAC</td>
<td>Anton Mazhovoi</td>
<td>Open</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11527</td>
<td>In Reolin 2 the href for the link of the printable icon in the top right corner blows up during generation</td>
<td>Anton Mazhovoi</td>
<td>Verified</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11529</td>
<td>The multi key searcher in JIRA Toolkit uses the request object in thread local to pass the issue keys around</td>
<td>Anton Mazhovoi</td>
<td>Verified</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11524</td>
<td>The excel view leads up all the issues into memory just to check if there are any results</td>
<td>Anton Mazhovoi</td>
<td>Verified</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11523</td>
<td>Search request views do not respect tempMax parameter</td>
<td>Anton Mazhovoi</td>
<td>Open</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JRA-11522</td>
<td>Need to investigate whether to remove the check for null body from the Comment object</td>
<td>Anton Mazhovoi</td>
<td>Open</td>
<td>UNRESOLVED</td>
<td>12/Nov/06</td>
<td>12/Nov/06</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
Part III: Integrated Project Management

- **Issue Tracker + Version Control**
  - Feature Tracking, e.g., using tickets
  - Project Management Capabilities
    - Release Planning, Timelines, Milestones, etc.
- **Integration of SCC**
  - CVS or SVN
  - Link Issues to Code and vice versa

- **trac**
  - http://trac.edgewall.org/
- **MASE**
Trac

- Minimalistic approach to web-based project management
- Wiki & Issue/bug tracking database (SQLite)
  - Links in Wiki to all elements
  - Issue tracking system based on tickets
    - Milestones, Progress Reports
- Relatively good support from the community:
  - Scripts for ticket and bug data importing and conversion from other systems (Bugzilla, SourceForge, Mantis)
  - Python, easily extendible with plugins
- Integration of a Subversion repository
  - Future integration with CVS, Arch
Documentation Structure

You can find the beginning of this document in share/documentation/FinishedDocuments/FinalDocument.odt

Lists all upcoming documentation artefacts including short description:

Bachelor project "Semantic SOA - Realization of the Adaptive Services Grid"

- goal/motivation
- chronology
- work in cooperation with industry partners (reference to artefacts):
  - Niwa: paper "An adaptive solution for interner services' supply chains"
  - Daimler Chrysler:
    - Development of Mobile Service Provider Scenarios based on the ASG architecture
    - Migration of Service Grid Infrastructure from Open-Source to commercial products
- Definition of a scenario
- MexMan4AS
- evaluation and implemention of ASG-architecture concepts
- annotations on the project itself and the team
- conclusion and final remarks concerning the intended goal

Dynamic Supply Chain Scenario for Internet Service Provider

- reuse topics of paper ("An adaptive solution for interner services' supply chains") and presentation (Semantics 05)
- description and specification
- sample processes (see presentation of semantics)
Timeline

10/19/05:

21:52 Organisation edited by shuetten
16:56 MultimonitorSupport edited by steinhauer
16:52 ALTKEY edited by steinhauer
16:51 KnowledgeBase edited by steinhauer
16:49 Ticket #21 resolved by steinhauer
   fixed - starts X from the mac using the following shellscript: ...
16:45 Ticket #21 reopened by steinhauer
16:36 Ticket #21 resolved by steinhauer
   worksforme - ALT issue can not be resolved together with special chars. ...
16:22 Changeset [100] by steinart
   Added asg maven repo url.
16:18 StefanHuettenrauch edited by shuetten
16:17 StefanHuettenrauch edited by shuetten
16:11 Changeset [99] by queck
   - file creation reimplemented - dependencies added to the project.xml - unused code deleted (parts of CreationAgent) - code from MavenThirdPage moved to CreationAgent
16:06 Ticket #37 created by queck
   Integration
16:05 Ticket #36 resolved by queck
   fixed
16:05 Ticket #36 created by queck
   Configure Project Object Model
16:02 Ticket #35 resolved by queck
Milestone CheckDomainExampleRunning
12/21/05 18:00:00

- running simple example that can only check domains with the directCheckDomainService
- all layers of ASG software stack are being used including PXE and CS layer that is ported to Websphere AS and DB2

Status by component

<table>
<thead>
<tr>
<th>Component</th>
<th>Tickets</th>
<th>Percent Resolved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration</td>
<td>0/1</td>
<td>100%</td>
</tr>
<tr>
<td>Documentation</td>
<td>0/2</td>
<td>100%</td>
</tr>
<tr>
<td>Enactment</td>
<td>2/0</td>
<td>0%</td>
</tr>
<tr>
<td>Integration</td>
<td>1/2</td>
<td>66%</td>
</tr>
<tr>
<td>Total</td>
<td>3/5</td>
<td>62%</td>
</tr>
</tbody>
</table>

Note: See TracRoadmap for help on using the roadmap.
Milestone CheckDomainExampleRunning
12/21/05 18:00:00

- running simple example that can only check domains with the directCheckDomainService
- all layers of ASG software stack are being used including PXE and CS layer that is ported to Websphere AS and DB2

Status by priority

<table>
<thead>
<tr>
<th>Priority</th>
<th>Tickets</th>
<th>Percent Resolved</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Active</td>
<td>Closed</td>
</tr>
<tr>
<td>Critical</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>High</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Normal</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: See TracRoadmap for help on using the roadmap.
<table>
<thead>
<tr>
<th>Name</th>
<th>Rev</th>
<th>Age</th>
<th>Last Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test/</td>
<td>164</td>
<td>1 year</td>
<td>steihert</td>
</tr>
<tr>
<td>asg-bsc-common/</td>
<td>1911</td>
<td>8 months</td>
<td>jmeeller: fixed typo</td>
</tr>
<tr>
<td>asg-bsc-composition/</td>
<td>2114</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepare tag 1.0.0</td>
</tr>
<tr>
<td>asg-bsc-discovery/</td>
<td>1913</td>
<td>8 months</td>
<td>jmeeller: fixed typo</td>
</tr>
<tr>
<td>asg-bsc-enactment/</td>
<td>1909</td>
<td>8 months</td>
<td>jmeeller: fixed typo</td>
</tr>
<tr>
<td>asg-bsc-flora-client/</td>
<td>1776</td>
<td>8 months</td>
<td>jmeeller: changed version to 1.0.0 and version of appropriate dependencies</td>
</tr>
<tr>
<td>asg-bsc-flora-server/</td>
<td>2117</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepare tag 1.1.0</td>
</tr>
<tr>
<td>asg-bsc-homepage/</td>
<td>1920</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepare tag 1.0.0</td>
</tr>
<tr>
<td>asg-bsc-negotiation/</td>
<td>1917</td>
<td>8 months</td>
<td>jmeeller: fixed typo</td>
</tr>
<tr>
<td>asg-bsc-scenario/</td>
<td>2119</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepare tag 1.1.0</td>
</tr>
<tr>
<td>asg-bsc-schemas/</td>
<td>2112</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepare tag 1.1.0</td>
</tr>
<tr>
<td>asg-bsc-services/</td>
<td>2110</td>
<td>8 months</td>
<td>jmeeller: [maven-scm-plugin] prepared tag 1.1.0</td>
</tr>
<tr>
<td>asg-bsc-tools/</td>
<td>2107</td>
<td>8 months</td>
<td>jmeeller: added tools</td>
</tr>
<tr>
<td>asg-invocation-bsc-test/</td>
<td>1104</td>
<td>10 months</td>
<td>quake: &quot;&quot;</td>
</tr>
<tr>
<td>asg-services/</td>
<td>2123</td>
<td>8 months</td>
<td>steihert</td>
</tr>
<tr>
<td>db2test/</td>
<td>759</td>
<td>11 months</td>
<td>steihert: &quot;&quot;</td>
</tr>
<tr>
<td>java-based-reference-service/</td>
<td>347</td>
<td>1 year</td>
<td>steihert: &quot;&quot;</td>
</tr>
<tr>
<td>mexmantes-build/</td>
<td>1508</td>
<td>9 months</td>
<td>stehtsen: errors in maven.xml</td>
</tr>
</tbody>
</table>
This report shows how to color results by priority, while grouping results by milestone.

Last modification time, description and reporter are included as hidden fields for useful RSS export.

### Release

<table>
<thead>
<tr>
<th>Ticket</th>
<th>Summary</th>
<th>Component</th>
<th>Version</th>
<th>Severity</th>
<th>Owner</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>#98</td>
<td>Context Menu Problem</td>
<td>MexMan4AS</td>
<td></td>
<td>high</td>
<td>steinert</td>
<td>12/01/05</td>
</tr>
<tr>
<td>#97</td>
<td>Service Deployment Exception</td>
<td>MexMan4AS</td>
<td></td>
<td>high</td>
<td>steinert</td>
<td>12/01/05</td>
</tr>
<tr>
<td>#56</td>
<td>RAD Setup</td>
<td>Administration</td>
<td></td>
<td>normal</td>
<td>steinhauer</td>
<td>11/07/05</td>
</tr>
<tr>
<td>#79</td>
<td>Eclipse Plugin: Update site (site.xml)</td>
<td>Administration</td>
<td></td>
<td>normal</td>
<td>steinhauer</td>
<td>11/16/05</td>
</tr>
<tr>
<td>#89</td>
<td>Update of D22 to current version</td>
<td>Administration</td>
<td></td>
<td>normal</td>
<td>steinhauer</td>
<td>11/29/05</td>
</tr>
<tr>
<td>#94</td>
<td>Service Projekt Property Management</td>
<td>MexMan4AS</td>
<td></td>
<td>normal</td>
<td>unknown</td>
<td>11/29/05</td>
</tr>
</tbody>
</table>

### CheckDomainExampleRunning Release

<table>
<thead>
<tr>
<th>Ticket</th>
<th>Summary</th>
<th>Component</th>
<th>Version</th>
<th>Severity</th>
<th>Owner</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>#65</td>
<td>Setup build management with maven</td>
<td>Enactment</td>
<td></td>
<td>normal</td>
<td>jmceler</td>
<td>11/07/05</td>
</tr>
<tr>
<td>#74</td>
<td>Migrate C4/C5 database</td>
<td>Integration</td>
<td></td>
<td>normal</td>
<td>unknown</td>
<td>11/08/05</td>
</tr>
<tr>
<td>#84</td>
<td>Integration of PxE in upper ASG Workcomponents</td>
<td>Enactment</td>
<td></td>
<td>normal</td>
<td>unknown</td>
<td>11/15/05</td>
</tr>
</tbody>
</table>

### MexMan4AS Release 3 Release

<table>
<thead>
<tr>
<th>Ticket</th>
<th>Summary</th>
<th>Component</th>
<th>Version</th>
<th>Severity</th>
<th>Owner</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>#72</td>
<td>Evaluation of automatic test client creation</td>
<td>MexMan4AS</td>
<td></td>
<td>high</td>
<td>unknown</td>
<td>11/08/05</td>
</tr>
</tbody>
</table>
## Custom Query

8 tickets matched this query.

<table>
<thead>
<tr>
<th>Ticket</th>
<th>Summary</th>
<th>Status</th>
<th>Component</th>
<th>Owner</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>85</td>
<td>Semantics2005 presentation</td>
<td>closed</td>
<td>Documentation</td>
<td>hahmann</td>
<td>critical</td>
</tr>
<tr>
<td>87</td>
<td>Work presentation from Vienna</td>
<td>closed</td>
<td>Documentation</td>
<td>hahmann</td>
<td>high</td>
</tr>
<tr>
<td>86</td>
<td>Semantics2005 paper</td>
<td>closed</td>
<td>Documentation</td>
<td>hahmann</td>
<td>high</td>
</tr>
<tr>
<td>8</td>
<td>Scenario für die detaillierte Evaluation der Workflow-Engines definieren</td>
<td>closed</td>
<td>WFEE</td>
<td>hahmann</td>
<td>high</td>
</tr>
<tr>
<td>2</td>
<td>Entfernen der kommerziellen Workflow Engines</td>
<td>closed</td>
<td>WFEE</td>
<td>hahmann</td>
<td>high</td>
</tr>
<tr>
<td>1</td>
<td>Aufnahme der plangen in die 'Long-List'</td>
<td>closed</td>
<td>WFEE</td>
<td>hahmann</td>
<td>high</td>
</tr>
<tr>
<td>13</td>
<td>Matrix zur Ablaltung von Shortlist-Kandidaten aus Longlist</td>
<td>closed</td>
<td>WFEE</td>
<td>hahmann</td>
<td>normal</td>
</tr>
<tr>
<td>12</td>
<td>Build-Management einrichten</td>
<td>closed</td>
<td>WFEE</td>
<td>hahmann</td>
<td>low</td>
</tr>
</tbody>
</table>

Note: See [TracQuery](http://trac.edgewall.com/) for help on using queries.
Ticket #42 (assigned)
Support EAR files as the unit of deployment

Type: new feature
Priority: normal
Component: NexMan4AS
Severity: normal
Milestone: NexMan4AS Release 3
Status: assigned
Version:
Assigned to: shuettlen (accepted)
Reporter: steinhauer
Resolution:

Description by steinhauer:
this means the creation of additional projects building EAR files

Changelog

Tue Nov 8 10:35:32 2005: Modified by queck
- owner changed from steinert to schuppenies

Fri Nov 11 11:58:40 2005: Modified by shuettlen
- EAR-Project is created within wizard
- deletion is performed well, if "cancel" is pressed
- subdirectory conf/META-INF is created as well

Fri Nov 25 09:11:20 2005: Modified by shuettlen
- status changed from new to assigned
- owner changed from schuppenies to shuettlen
- project.xml is provided
- maven.xml and
- project.properties as well
MASE

- Developed at University of Calgary
- Based on JSPWiki (J2EE)
- Extensible through plugins
- Release and Iteration planning
  - especially for XP and other agile development methods
- Integration of CVS repositories
List of Team Members

[ListUserPlugin]

Above is a list of all registered users. Users with a green dot beside them are those users who have logged into the system in the past hour.

Add ebe group member

To add an ebe group member click [here].AddTeamMember.
MASE Planning Whiteboard

Subproject Progress reports

- MASE Core
- MASE Eclipse
- MASE Lightweight KM

<table>
<thead>
<tr>
<th>Task</th>
<th>Resp</th>
<th>Pair</th>
<th>Est</th>
<th>Act</th>
<th>Rem</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Backlog</td>
<td>0</td>
<td>Frank Maurer</td>
<td>Unassigned</td>
<td>98.0</td>
<td>53.0</td>
</tr>
<tr>
<td>Iteration 24.8.2004</td>
<td>0</td>
<td>Frank Maurer</td>
<td>Unassigned</td>
<td>137.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Iteration 31.8.2004</td>
<td>0</td>
<td>Frank Maurer</td>
<td>Kris Read</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>ANT and CVS manual</td>
<td>2</td>
<td>Unassigned</td>
<td>Unassigned</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Make Install Easier, create self installer</td>
<td>1</td>
<td>Kris Read</td>
<td>Unassigned</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Plugin documentation, parameter refactoring,</td>
<td>6</td>
<td>Kris Read</td>
<td>Thomas Chau</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Fix CSS to enable selection of the content</td>
<td>6</td>
<td>Unassigned</td>
<td>Unassigned</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Porting To JBoss</td>
<td>4</td>
<td>Frank Maurer</td>
<td>Unassigned</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Iteration 15.10.2004</td>
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<td>Frank Maurer</td>
<td>Kris Read</td>
<td>2.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Iteration 16.1.2005</td>
<td>0</td>
<td>Frank Maurer</td>
<td>Unassigned</td>
<td>3.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
Make Install Easier createselfinstall...
References

- Olaf David, Ian Scheider: Presentation “Version Control with Subversion”
- Socrates Varakliotis, Piers O’Hanlon, Peter Kirstein: Presentation “Software Management Systems”
- Philipp Sommer: WIKI as „collaboration platform“