

GlassFish Project

(v1.1)

- A large project
 - Many moving parts
 - Many dependencies
 - Many people
 - Many observers
- Is there a better way to manage feature development?
 - Wikis tables are a pain to maintain
 - Who's working on that feature?
 - Is that feature done? What's its priority
 - Is that work blocked by other work?
 - About 40 sub-project wiki's



Useful Properties of Issue Tracker

- Issue types: Enhancement, Feature, Task
- Priority
- Owner
- Target Milestone
- State
- Dependencies
- History/Activity log
- Keywords/whiteboard to support mining of information
- Notification of changes
- Structured data

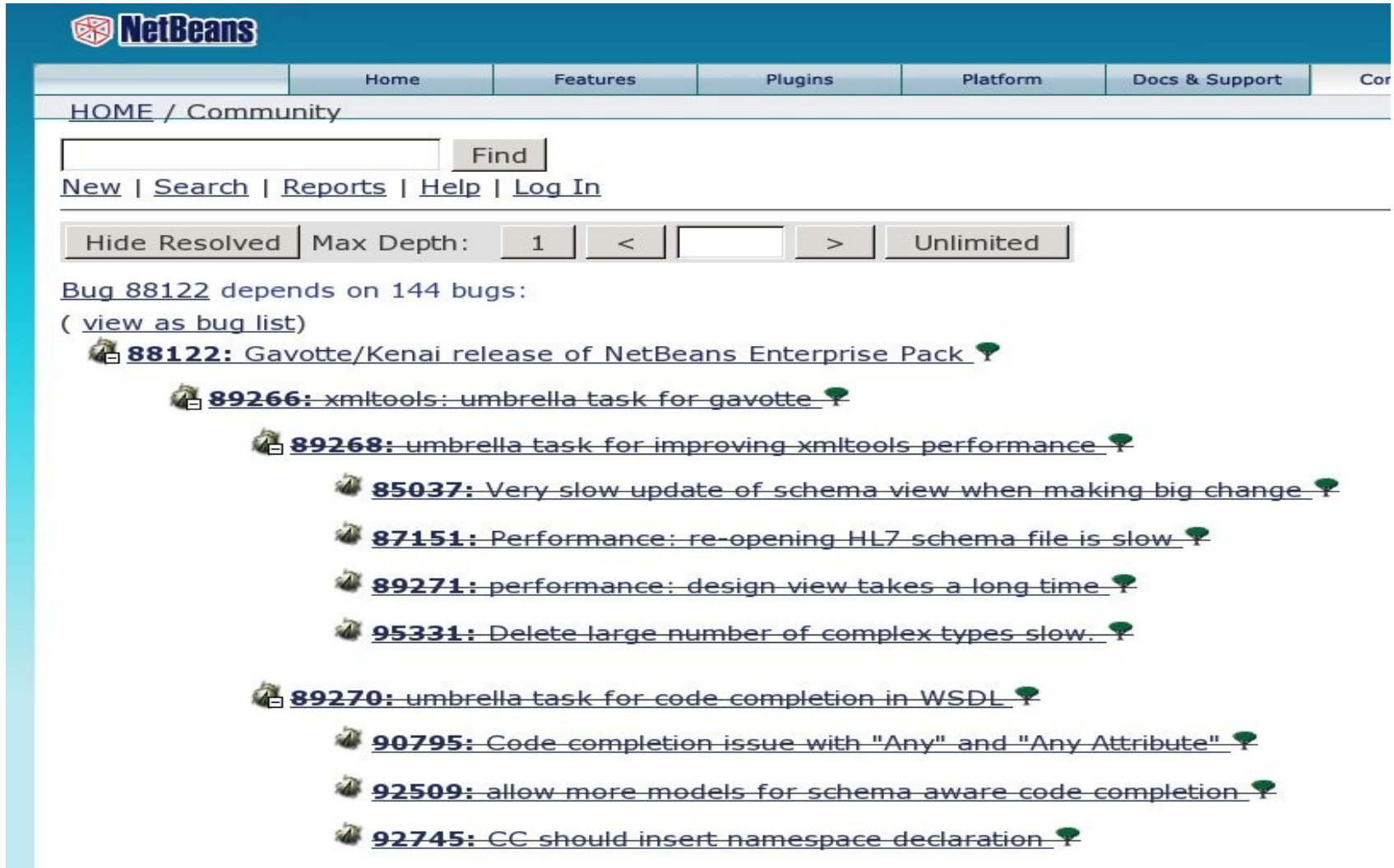


Value of using Issue Tracker to track feature development

- Leveraging a tool we all know how to use
- Developers can use one system to track work
- Relevant decisions can be recorded
- Observable by others in the community
- Can migrate feature to future release
- Can factor work into umbrella issue with supporting sub-issues (See NetBeans example).
- Can identify dependencies and track state
- Useful reports can be generated



NetBeans Example



The screenshot shows the NetBeans website interface. At the top, there is a navigation bar with links for Home, Features, Plugins, Platform, Docs & Support, and Cor. Below this is a search bar with a "Find" button and a list of links: New, Search, Reports, Help, and Log In. A control panel shows "Hide Resolved", "Max Depth: 1", and "Unlimited". The main content area displays the text "Bug 88122 depends on 144 bugs:" followed by a link "(view as bug list)". Below this is a tree view of bug dependencies:

- 88122: Gavotte/Kenai release of NetBeans Enterprise Pack
- 89266: xmltools: umbrella task for gavotte
- 89268: umbrella task for improving xmltools performance
- 85037: Very slow update of schema view when making big change
- 87151: Performance: re-opening HL7 schema file is slow
- 89271: performance: design view takes a long time
- 95331: Delete large number of complex types slow.
- 89270: umbrella task for code completion in WSDL
- 90795: Code completion issue with "Any" and "Any Attribute"
- 92509: allow more models for schema aware code completion
- 92745: CC should insert namespace declaration



Issue Types

- **Feature:** an addition to the software to add a piece of functionality that does not yet exist.
- **Enhancement:** an improvement to an existing feature.
- **Task:** an activity to be done on behalf or in support of a feature or enhancement. Tasks do not typically require direct changes to the code base.



Next Steps

- Need commitment from teams to create issues in Issue Tracker for feature work
- Can get started doing this today but may need to refine methodology as we go:
 - Granularity of issues to create (one/feature/milestone)
 - How should QA leverage this methodology?
 - How should Docs leverage this methodology?
 - When should an umbrella issue for a feature be closed?
 - Do we need additional keywords?



Some statistics

Here are some numbers (courtesy Tom Mueller):

- 121 issues with v3-prd-item in the whiteboard (most of these are "feature" issues)
- 216 "feature" issues
- 661 RFE issues
- 26 "task" issues

These three types represent 36% of the glassfish issues



References

- Todd Fast's Blog:

http://blogs.sun.com/toddfast/entry/bug_driven_development

- NetBeans example:

http://netbeans.org/bugzilla/show_bug.cgi?id=88122

