Comprehensive Project Intelligence

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Sonatype
Outline

- m2eclipse
  - Never leave the IDE for your Maven-related work!

- Nexus
  - The ultimate in Maven Repository management and beyond!

- Hudson
  - The future of Continuous Integration, on-demand builds, and release management!

- Maven
  - The best is yet to come (and we’ll fix a bunch of stuff)!
m2eclipse

Never leave the IDE for your Maven-related work

- Configuration framework
- Searching for POMs
- Creating projects from Archetypes
- Amazing POM editor – XML (with full auto completion), Dependency Analysis, Form-based, and graphical view
- Searching for dependencies
- Source materialization
- Searching for plugins – and even goals in plugins
- Debugging Maven plugins from within Eclipse
- m2eclipse Configuration Framework – keeping IDEs and automated builds in sync!
- Project materialization – how long does it take a new developer to become effective?
m2eclipse Configuration Framework

Turn Maven mumbo-jumbo into Eclipse talk

Automation & Maven

m2eclipse + configuration framework

Humans & Eclipse

Turn Eclipse mumbo-jumbo into Maven talk
Nexus

- The ultimate in Maven Repository management and beyond!
  - Repository & Configuration Management
  - Fine grained security providing for authentication and authorization
  - Virtual repositories – What are those? A savior for you OSGi lovers
  - UI using EXTJS which is simply another REST client for Nexus
  - Full REST API using Restlet
Repository & Configuration Management

Open Source Ghetto
- bad POMs
- repositories in POMs (bad dog!)
- mixed snapshot and release repositories
- bad optional dependencies
- screwed up metadata

One repository configuration!

Unified indices for m2e

Precious Developers

Your-Ghetto—World
Typical way people deal with OSGi runtimes – manually
OSGi runtimes resolving against Maven/P2 repositories – a problem
OSGi runtimes resolving against a virtual Nexus repository – OK!
Hudson

- The future of Continuous Integration, on-demand builds, and release management!
  - Writing all extension points in Hudson as Maven plugins and Plexus components (with the work we’ve done writing Spring components would also be possible)
  - Integration of JSecurity
  - Implementing a similar REST layer as Nexus and creating a UI using EXTJS
  - Automatic installation of external Maven installations
  - Drools Workflow integration
Maven

The best is yet to come (and we’ll fix a bunch of stuff)!

- Refactored Project Builder
  - A specification for building a project object model (POM)
  - Domain specific parsers – attribute-based XML, Groovy, Ruby
  - Mixins

- Mercury – new repository and transport layer
  - Developed by Greg, Jan, and Jesse from Webtide (the Jetty people)
  - Super fast transport – async client with connection pooling and parallelization
  - Atomic downloads and deployments (with Nexus)
  - Full PGP support
  - WebDAV client built-in
  - Full support for ranges using a pseudo boolean solver – SAT4J
  - Designed, implemented and tested without POMs. Mercury can be embedded and will allow any domain specific application to retrieve, and deploy artifacts from any type of Repository: GEMs, P2, and Maven repositories are possible

Maven Embedder
Hands on Demo

- Let’s take a look at m2eclipse, Hudson, Nexus, and Maven!
- I bet I can get anyone setup with this project faster then they’ve ever been on-boarded with a project before!