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Die NetBeans Platform und OSGi (Swing OSGi Modular Desktop Application Framework)

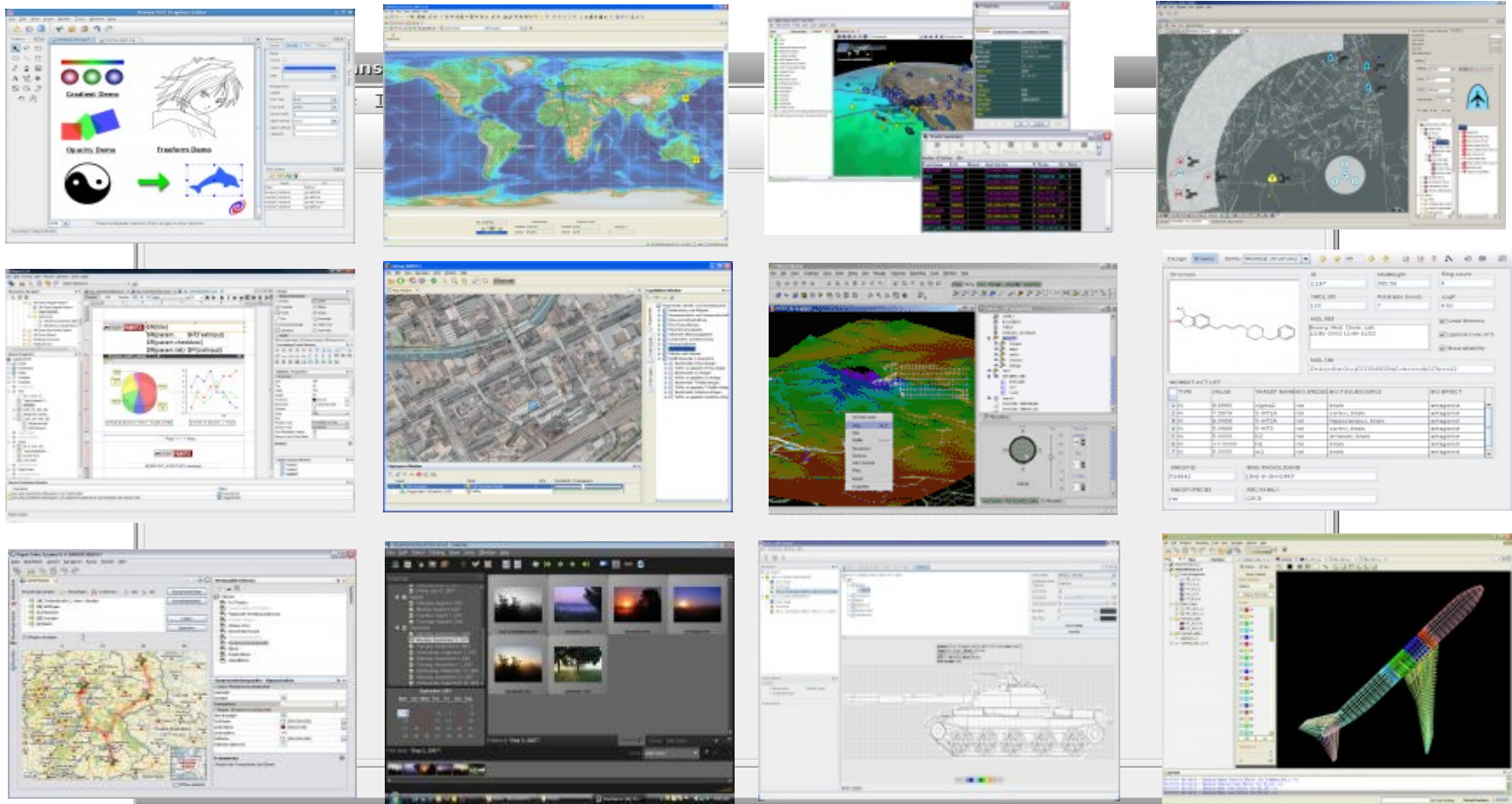
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Agenda

- Platform vs. IDE
- OSGi for OSGi Developers
- OSGi for NetBeans Platform and IDE
- Implementation in NetBeans 6.9
- Q&A

NetBeans Platform

The only Swing based Modular Rich Client Framework



<http://platform.netbeans.org>

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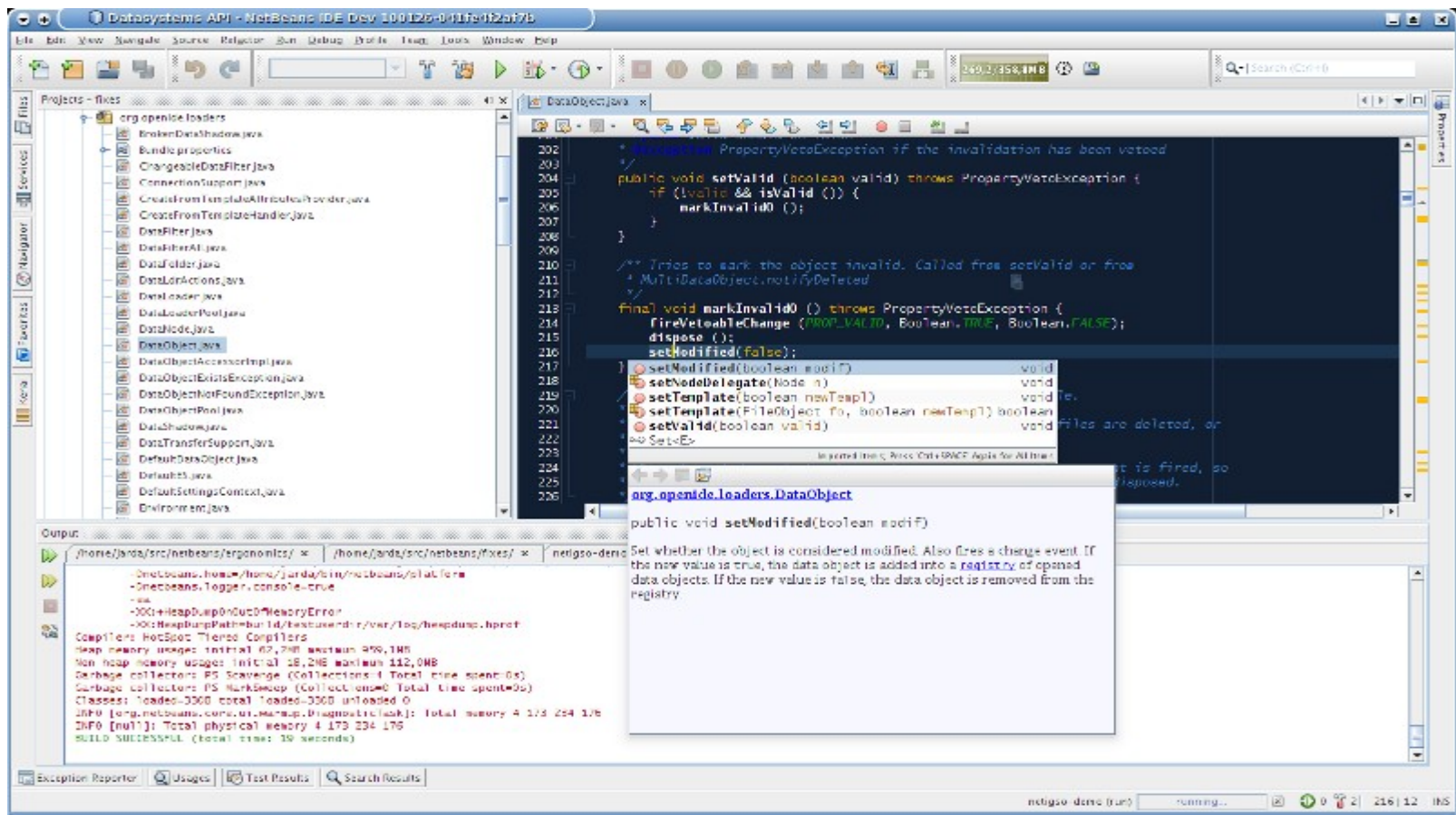


Demo

NetBeans Platform Application
& Module System

NetBeans IDE

Built on top of NetBeans Platform



OSGi for Developers

- OSGi - de-facto modularity standard
 - Developers demand support
 - e.g. building Glassfish plugins
- Maven – gaining attention
 - First class citizen in NetBeans
 - 5% of Maven packaging is OSGi already
 - Declarative (existing Projects)
- Minimal effort to support OSGi
 - Stick to OSGi 4.x specification
 - Reuse OSGi experts work
 - Execution in Apache's Felix



Demo

Create OSGi Bundle

Vision: OSGi for NetBeans Platform & IDE

- Solution vs. content provider
 - Keep the brand
 - Get the content for “free”
- Reuse content (e.g. Mylin)
 - Want a library?
 - Get all its dependencies too!
- Common Platform for IDEs
 - OSGi as de-facto standard
 - Support for OSGi
 - Eclipse & NetBeans...

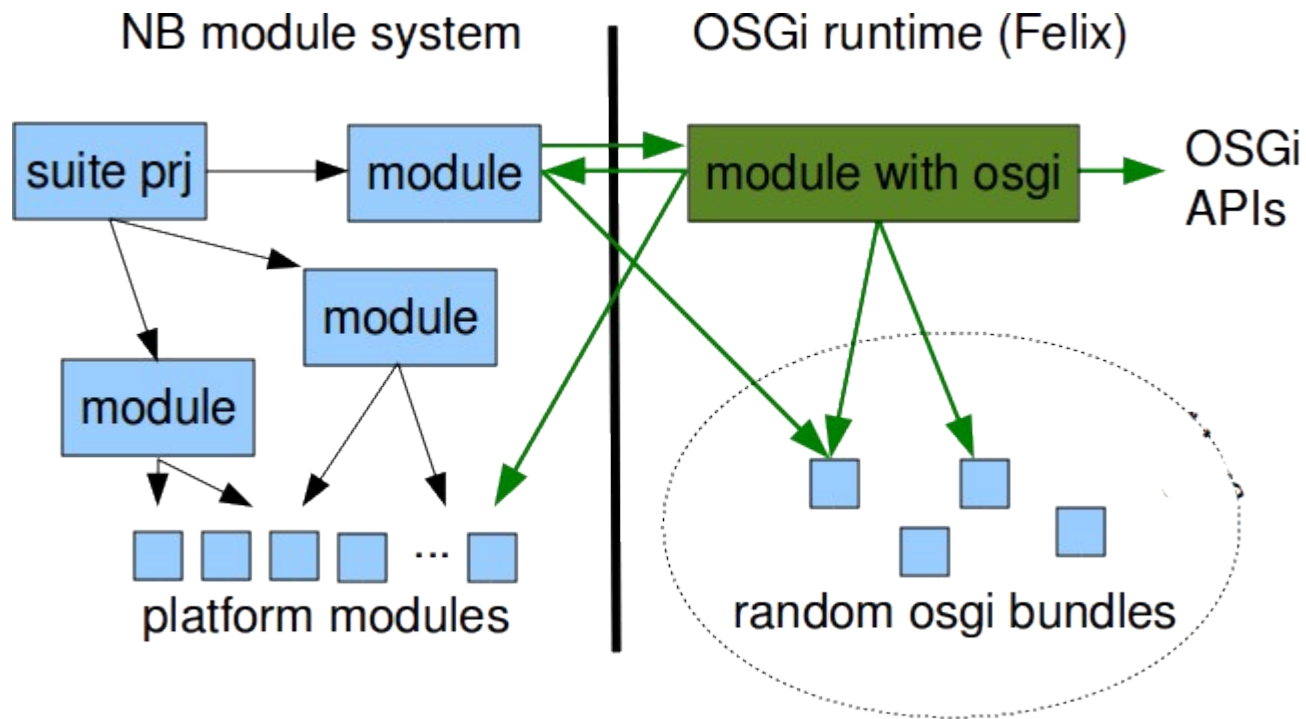
Step by Step (behind the scenes)

- Implement OSGi interoperability
 - Provide the common ground
 - Project Netigso
- Enable it for NetBeans Platform
 - Users can test it
- Reuse other IDE's bundles
 - Lead by example: Mylin
- Engage partners
 - Teach writing of sharable code

NetBeans 6.9 Theme

- NetBeans Platform Perception
 - Standard UI - Swing
 - Non-standard module system
- OSGi interoperability
 - Single most requested feature
 - Reuse existing bundles
 - Run same bundles on server/client side
 - Reuse NetBeans APIs in OSGi applications
 - Adhere to standard
- Support development with OSGi

NetBeans & OSGi



- “Netigso” Bridge
 - Compatibility #1 goal
 - Felix or Equinox supported

OSGi for Platform Developers

- NetBeans Platform accepts OSGi
 - Mixture of “classical” and OSGi projects
 - Reuse standard services (e.g. HTTPService...)
- Ant
 - Import & limited creation
 - “Don't want to be OSGi experts”
- Maven
 - Develop OSGi as usual
 - Easily include OSGi projects

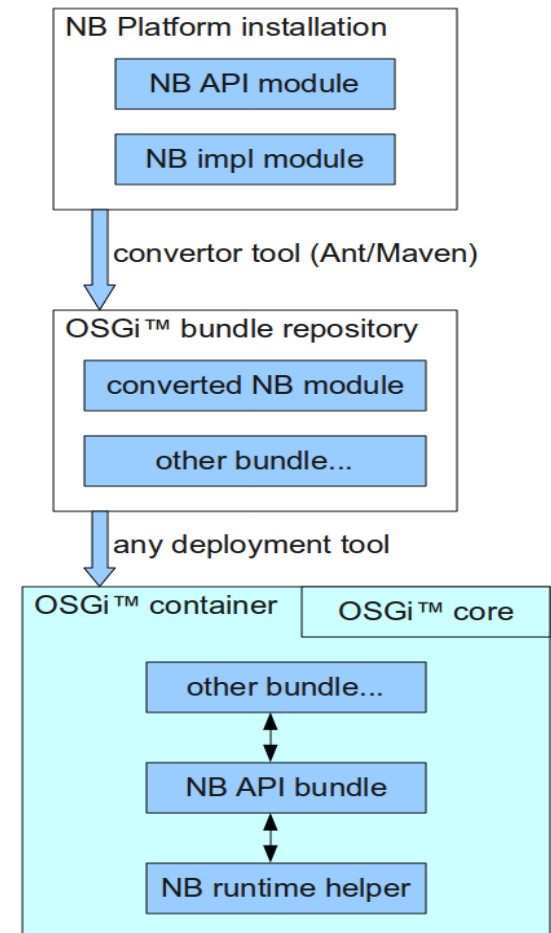


Demo

Hybrid Application: NetBeans Modules with
OSGi

Exploring developer needs

- Reuse NetBeans APIs in OSGi apps
 - without our runtime
 - In any OSGi container
 - Platform APIs converted
- Ant
 - Run in OSGi (Felix)
- Maven
 - Exposing a repository
 - Use “plain” OSGi artifacts
- Future plans...





Demo

NetBeans Platform Application on Felix

Questions & Answers?

- OSGi happened
 - De-facto standard module system
- Swing
 - Standard UI toolkit
- NetBeans Platform
 - Common Ground for Swing and OSGi
 - Interoperability