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The Many Moons of Eclipse

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TS-5040



Agenda

- Ganymede
- New and Noteworthy
- Components/Equinox/OSGi
- Demo
- Questions



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Ganymede



What is Ganymede?

- Release 24+ major Eclipse projects at the same time
- A more transparent and predictable development cycle
 - Allow ecosystem members to start their own integration, cross-project, and cross-product testing efforts earlier
 - Ganymede is about developers helping developers serve the whole Eclipse community.
- Not a unification of the projects
 - Each project remains a separate open source project operating with its own project leadership, its own committers, and its own project plan

More Pragmatically...

➤ Coordination

- Projects have a better sense of downstream use and requirements
- Staged, predicable release schedule

➤ Inter-project communication

- Reduced functional redundancy

➤ Collaboration

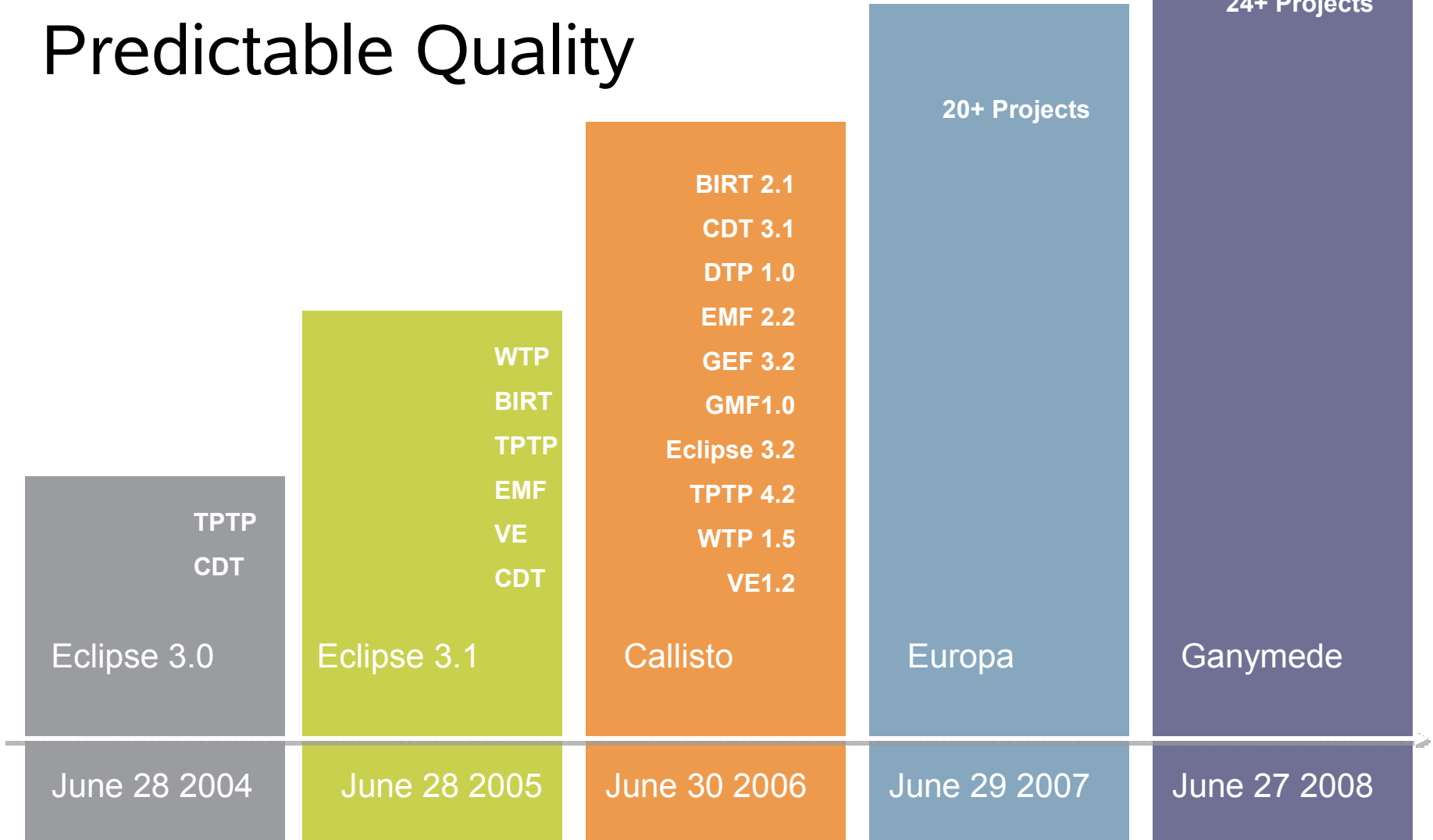
- Project teams working together

➤ Build Aggregation

- All Ganymede components collected together
- Easily installed via a single update site

	Staging					Release	
	+0	+1	+2	+3	EPP	Server Freeze	Public Access
M2	Sep 21	Sep 26	Oct 3	n/a	Oct 5	n/a	Oct 9
M2+	Oct 22		n/a	Oct 24	n/a	Oct 25	
M3	Nov 2	Nov 7	Nov 14	Nov 16	Nov 19	?	Nov 20
M4	Dec 14	Dec 17	Jan 7	Jan 8	Jan 9	Jan 10	Jan 11 Jan 16
M5	Feb 8	Feb 11	Feb 18	Feb 20	Feb 22	Feb 25	Feb 26
M6 - API Freeze	Mar 28	Mar 31	Apr 7	Apr 9	Apr 11	Apr 14	Apr 15*
M7	May 2	May 5	May 6	May 7	May 9	May 12	May 13*
RC1	May 16	May 19	May 20	May 21	May 23	May 26	May 27*
RC2	May 23	May 26	May 27	May 28	May 30	Jun 2	Jun 3*
RC3	May 30	Jun 2	Jun 3	Jun 4	Jun 6	Jun 9	Jun 10*
RC4	Jun 6	Jun 9	Jun 10	Jun 11	Jun 13	Jun 16	Jun 17*
Ganymede	Jun 13	Jun 16	Jun 17	June 18*	June 23	June 24	June 25

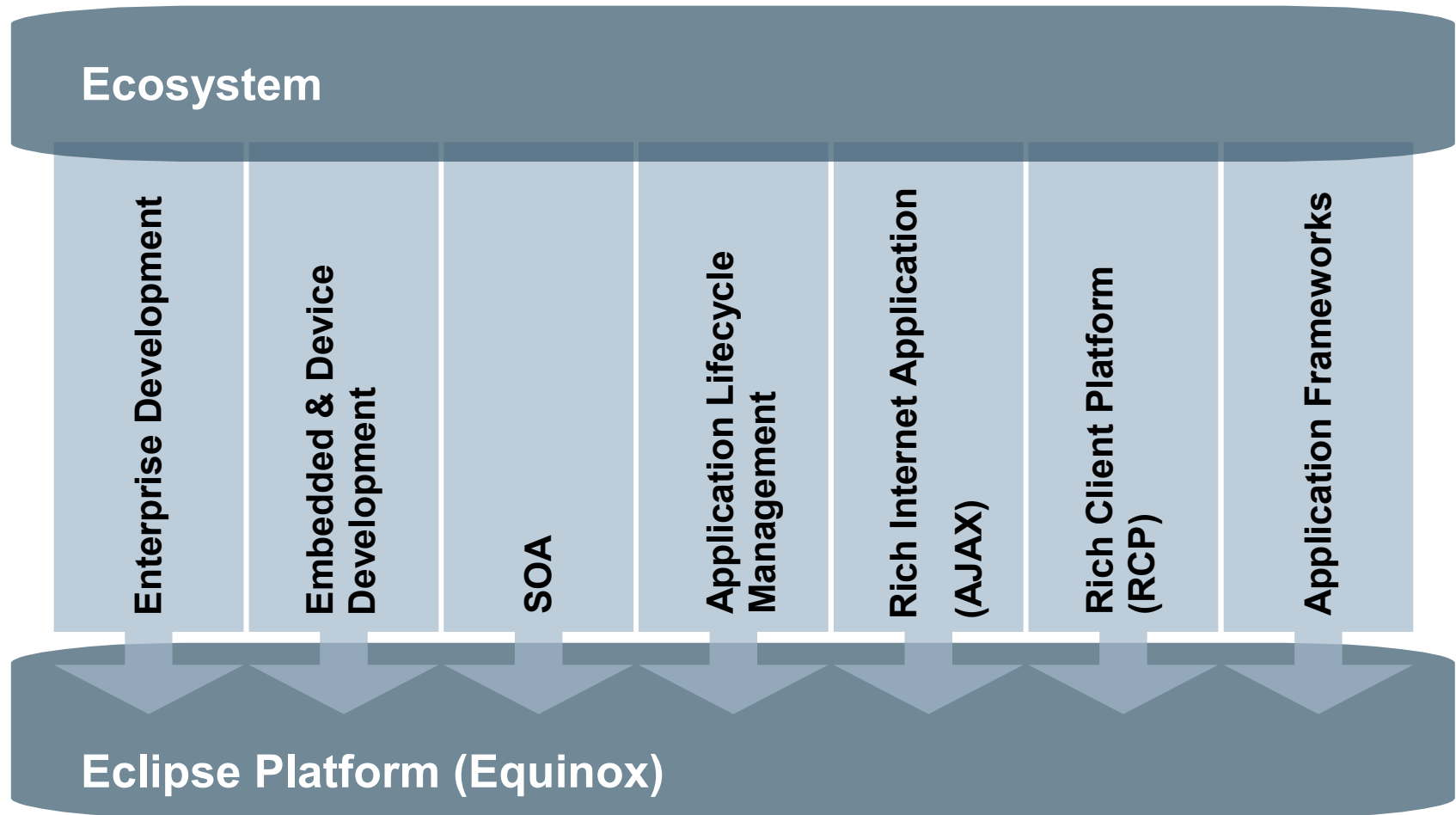
Predictable Quality



Ganymede Projects

- ▶ BIRT
- ▶ Buckminster
- ▶ CDT
- ▶ DLTK
- ▶ DSDP DD
- ▶ DSDP NAB
- ▶ DSDP TM
- ▶ DTP
- ▶ ECF
- ▶ The Eclipse Project
- ▶ EMF
- ▶ EMFT
- ▶ EPP
- ▶ GEF
- ▶ GMF
- ▶ MDT
- ▶ M2M
- ▶ M2T
- ▶ Mylyn
- ▶ Rich Ajax Platform (RAP)
- ▶ SOA Tools Platform (STP)
- ▶ Subversive
- ▶ TPTP
- ▶ Web Tools Platform (WTP)

Pillars of Eclipse





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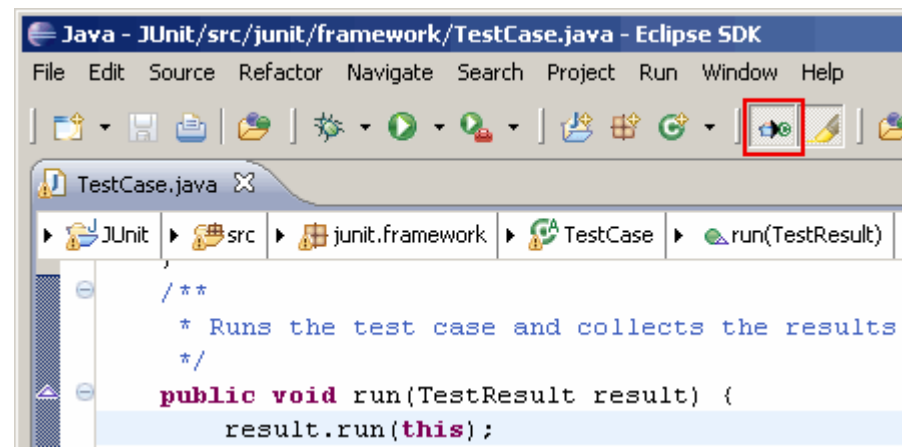
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New and Noteworthy



New and Noteworthy: Eclipse 3.5

- New provisioning support (p2)
- SWT for Windows x86_64/AMD64, Windows 64-bit Itanium Edition, SWT for HP-UX 32-bit Itanium
- Breadcrumb navigation in the Java™ technology editor
- Plug-in Spy



New and Noteworthy: WebTools 3.0

- Downloadable Jetty support
- Servlet Filter, Application Lifecycle Listener wizards
- EJB 3.0 Session Bean, Message-Driven Bean wizards
- Create Web service by selecting Java technology-based bean in Java technology-based project

New and Noteworthy: CDT 4.0

- Call Hierarchy View shows who calls a function
- Type Hierarchy View shows how C/C++ types are related
- Indexer is greatly improved with more features and accuracy
- GDB Hardware Debugging
- MinGW Toolchain Integration
- IBM XL C/C++ Toolchain Integration

New and Noteworthy: EPP 1.0

- Bundled packages of Eclipse Technology
 - Package specification contributed by projects
- Packages
 - Eclipse IDE for Java technology developers
 - Eclipse IDE for Java Platform, Enterprise Edition (Java EE platform) developers
 - Eclipse IDE for C/C++ developers
 - Eclipse for RCP/plugin developers
 - Eclipse IDE for software architects and modeling
 - Eclipse IDE for reporting
 - more coming...



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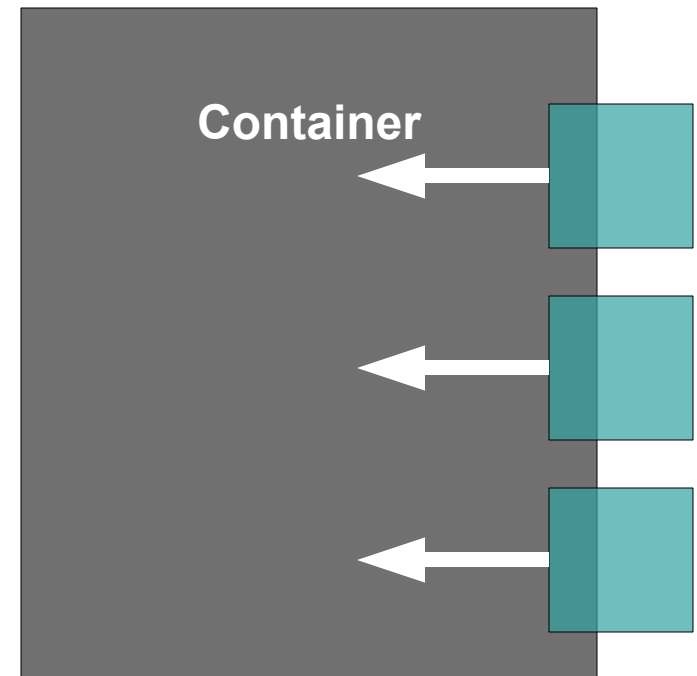
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Components/Equinox/OSGi



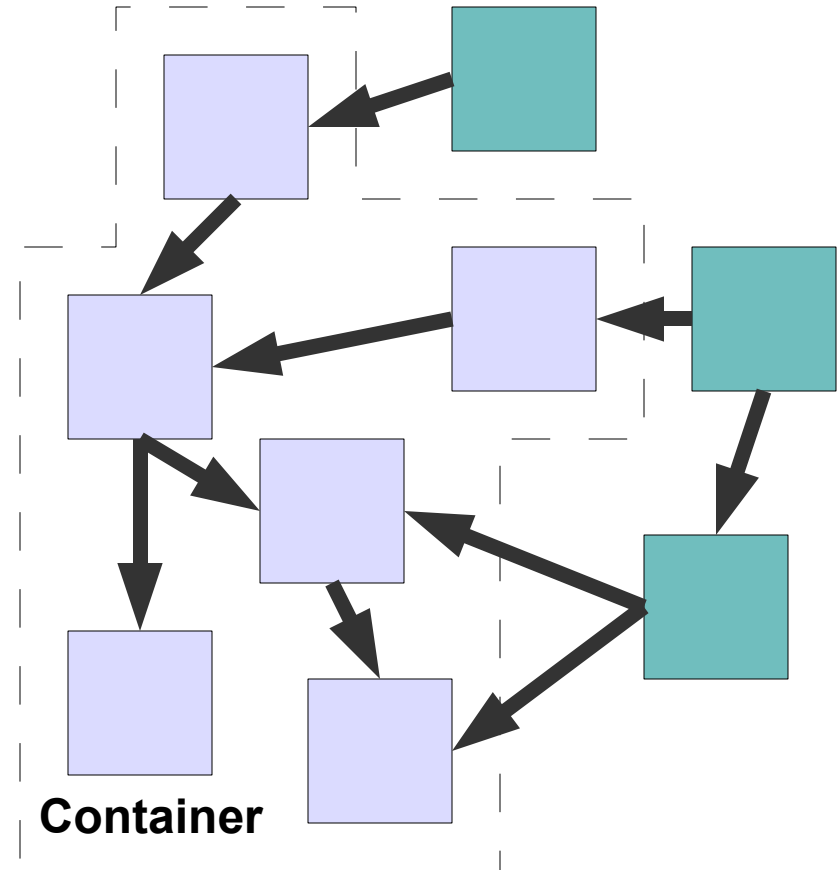
Traditional Components

- Monolithic “black box” container
- Components “plug-into” container, but are very much separate (think EJB)
- Different component strategies for Java Platform, Standard Edition (Java SE platform), Java EE platform, Java Platform, Micro Edition (Java ME platform)
- JAR files don't cut it
 - Classpath hell



Equinox/OSGi

- Single component model
 - Java SE platform, Java EE platform, Java ME platform
- “Pervasive Components”
 - Application components indistinguishable from container components
- Consistent management
- Explicit, declarative dependencies
- Multiple version support
- Dynamic loading/unloading





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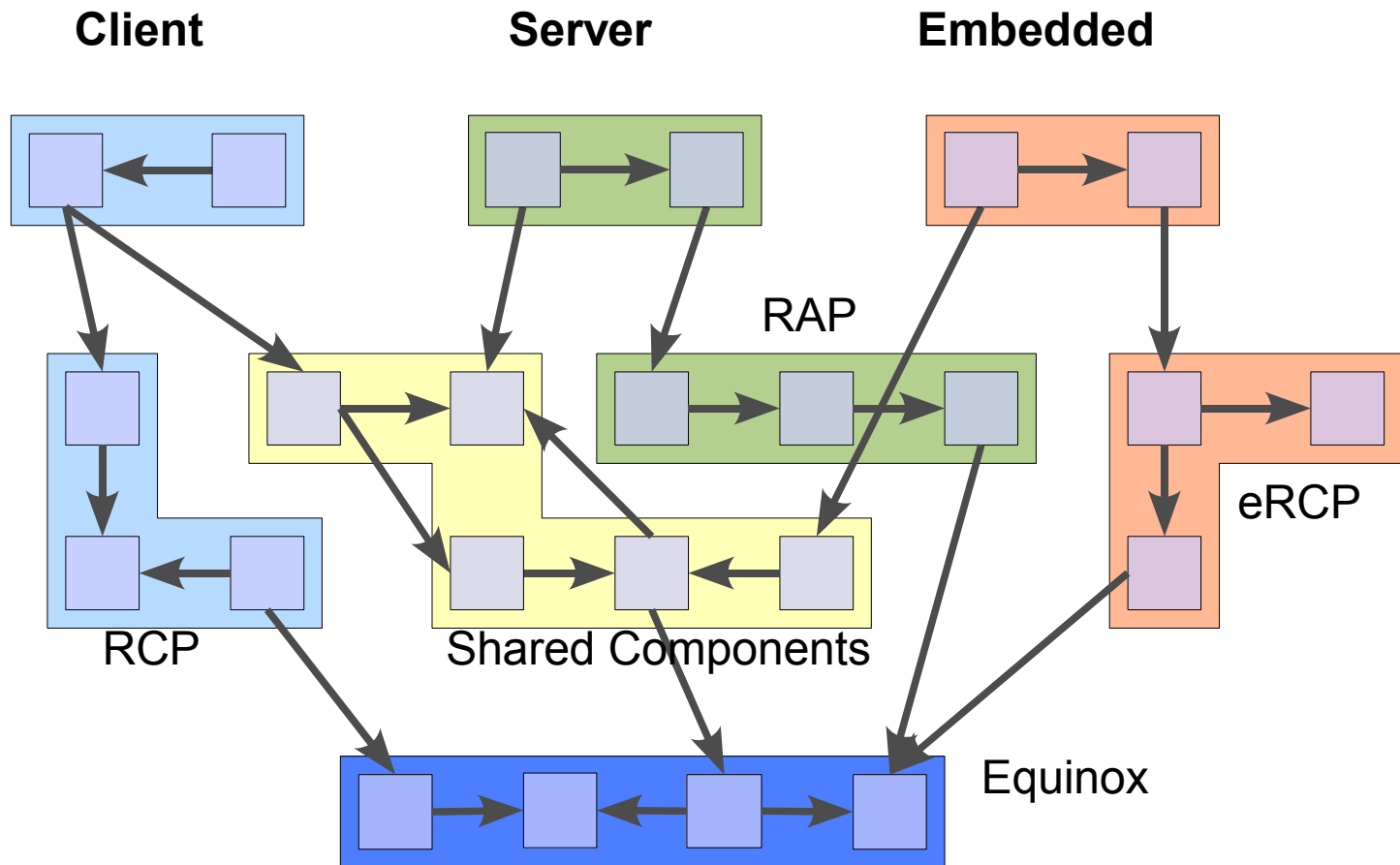
Demonstration



Demonstration

- Shared components
- Client: Rich client via Eclipse RCP
- Server: Rich Internet Application (RIA) via Eclipse RAP
- Embedded: Device via Eclipse eRCP

Shared Components Architecture





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Wrap up



Pervasive Components

- Single component model
 - Client (Java SE platform), Server (Java EE platform), Embedded (Java ME platform)
- Container is itself composed of components

Ganymede

- 24+ Projects
- Simultaneous release train
 - Coordination, communication, collaboration, aggregation
- Predictable quality
- Process transparency

THANK YOU



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