

# Eclipse Communications Framework

*Project Proposal Review*  
*November 9, 2004*

*John Beatty*  
*Scott Lewis*  
*Pete Mackie*  
*Peter Nehrer*  
*Rhett Savage*  
*Paul Trevithick*

# Project Goals

- Simple/Consistent API for Communications
  - User-to-User(s)
  - Plugin-to-Plugin(s)
- Security
  - Consistent interfaces for identity/authentication/authorization
- Extensibility
  - Bundles/Plugins implement ECF-defined extension points
  - 'Pluggable' identity, transport, api layers
  - Support legacy and new protocols with abstract API (e.g. Team API)

# Architectural Approach

- Extensible lightweight container
  - ISharedObjectContainer
    - Consistent semantics for authentication
    - Consistent API for managing components
    - Consistent failure handling and message ordering
    - Environment for arbitrary components that require inter-process communications
    - Extends Eclipse as container for plugins **across processes**
  - ISharedObject
    - Local and/or distributed code and state
    - Uses container-provided communications services

# Reference Application

- SW Dev Team Collaboration
  - Secure Team IM/Chat, App Sharing, File Sharing, URL Co-Browsing, etc
  - Integration with Version Control, Content Creation/Management
  - Distributed, Real-time Team Debugging
- Also Support Asynch protocols/services
  - Weblog/Wiki/RSS
  - Email, Discussion Lists, Threaded Discussion Groups
  - SOAP, XML-RPC
- Balance of 'Real-Time' and 'Asynchronous svcs

# ECF Team

- John Beatty
  - Senior Principal Technologist in Office of CTO, BEA Systems
  - Participant in Numerous Java Standards Efforts including Liberty Alliance and SAML
  - Sun Microsystems
  - Associate Director, Cambridge Technology Partners
- Scott Lewis
  - 15+ years professional arch/design/implementation experience in comm systems
  - Designer and Developer of Component Plugins for Real-Time Collaboration
  - CTO and Founder, ShareThis, Inc.
  - Bell Labs, Intel Arch Labs, R&D and Lead Architect
  - Published author/research

# ECF Team (cont)

- Pete Mackie
  - 44 years software development and mgmt experience
  - Founder, Software Association of Oregon
  - Founder and President, Interactive Technologies
  - President, Seaquest Software
  - Organizer of Eclipse Code Camp: Portland, OR
- Peter Nehrer
  - Senior Developer, S1 Corporation
  - Senior Developer, Intelligent Learning Corporation
  - Designer and Author of RSS plugin for Eclipse
    - Winner of International Challenge for Eclipse Contest

# ECF Team (cont)

- Paul Trevithick
  - Serial entrepreneur/technologist
  - Co-founder of socialphysics.org
  - Led three software startups
    - Parity Communications, Bitstream-Pageflex (NASDAQ-BITS), Lightspeed (MIT Media Lab spin off)
  - Contributed to XML standards at W3C and other groups
- Rhett Savage
  - Senior Developer, Cayuse, Inc.
  - Senior Developer, Quando
  - Expert in web technologies: Php, Servlet Technologies, Web Services, J2EE

# ECF Milestones

- M1: Feb 1, 2005
  - Release API Plugins
    - SharedObjectContainer API
    - Asynch Messaging API
    - Identity API
  - Release Team Collaboration Application
    - IM/Chat
    - App Sharing, File Sharing, URL Sharing
    - Integration with RSS



# ECF Milestones

- M2: May 1, 2005
  - Revise APIs
    - Based Upon Developer Feedback
  - Integrate with Equinox/OSGI Security
  - Release Team Collaboration Application
    - Support for Multiple IM/Chat Protocols
    - Integrate Other Communications Features
      - e.g. Distributed Team Debugging
      - e.g. EMF Model Sharing
      - e.g. Integration w/ Ecesis, Haydes
  - Deploy to Eclipse.org for Use by Distributed Teams