

# The Eclipse Communication Framework (ECF)

Scott Lewis <[slewis@composent.com](mailto:slewis@composent.com)>

March 22, 2006

# Yet Another #\$\$ Framework

- Messaging Container
  - Core API: `org.eclipse.ecf.core.IContainer`
  - Semantics: `connect/disconnect/getAdapter`
  - Impls/Protocols: `xmpp`, `JMS`, `IRC`, `zeroconf`, `yahoomim`, `Sametime`, etc, `ssh`, `RSE`, `Ace...`
  - Extension points to define own messaging protocol binding

API Goal: Simple core API and Extensible through OSGI and IAdaptable

# Two Core ECF Extension Points

- org.eclipse.ecf.containerFactory
  - ECF providers can implement their own IContainer
- org.eclipse.ecf.namespace
  - ECF providers can implement their own addressing
  - e.g. ecftcp://ecf.eclipse.org:3282/server,  
xmpp://slewis@ecf.eclipse.org

# Future

- **Shared Editors:** EMF, GMF, GEF, Eclipse Editing Framework, JFace
- **Application Sharing:** VNC
- **ECF+OSGI For Servers:** Equinox Servlet Incubator, eRCP
- **Call API/VOIP:** Asterisk, SIP, Jingle

# Please Consider Joining ECF Community

## ▪ **Ways to Help**

- Improve/Extend Existing Applications
- Create/Distribute/Contribute Own Application
- Build Provider Implementations (proprietary or not!)
- Contribute API Design and Feedback
- Join ECF community: Commercial or not
- \$\$\$

## ▪ **Contacts/More Info**

- Web: <http://www.eclipse.org/ecf>
- Me: [slewis@composent.com](mailto:slewis@composent.com)
- Mailing List: [ecf-dev@eclipse.org](mailto:ecf-dev@eclipse.org)

**Thanks!**

# IAdaptable Abuse

- `container.getAdapter(<interface>);`
  - Presence/IM/Chat
  - Dynamic Service Discovery
  - Datashare (channels)
  - FileSharing
  - Next API
    - VOIP Call Setup API
    - Impl: SIP 2.0, Jingle, Asterisk IAX
- Code Example

```
IContainer container =  
    ContainerFactory.createContainer("ecf.generic.client");  
  
IPresenceContainer pc = (IPresenceContainer)  
    container.getAdapter(IPresenceContainer);  
  
if (pc != null) {  
  
    ...use pc here...  
  
}
```