Eclipse Communication Framework (ECF)

What is ECF?

- A set of APIs and services to encapsulate various communication protocols.

- A set of protocol implementations.

- A set of example plugins built to demonstrate ECF in the context of collaboration.

API

- Container metaphor

  - Peers attach to a shared container.

  - Container defines messaging semantics.

  - Transport handlers work with container for message passing.

- Eclipse and OSGi centric

  - Uses Extension Points for transport contribution

  - Utilizes IAdaptable

  - Componentized as OSGi Bundles

Services

- Presence

- File Transfer

- Service Discovery

- Remote Service Invocation

- Model (EMF, SDO) replication

- VoIP

- Bulletin Board

Protocols

- TCP/IP

- Jabber (XMPP)

- SIP

- Bittorrent

- irc

- JMS

- HTTP/HTTPS

Collaboration Examples

- Chat

- Shared editing

- File transfer

- Presence

Why it matters

- Add communication functionality to your application with less effort.

- Get several protocol implementations and messaging models for free.

- Fixes and enhancements you add can be used by others.

Example and Q/A

http://eclipse.org/ecf

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