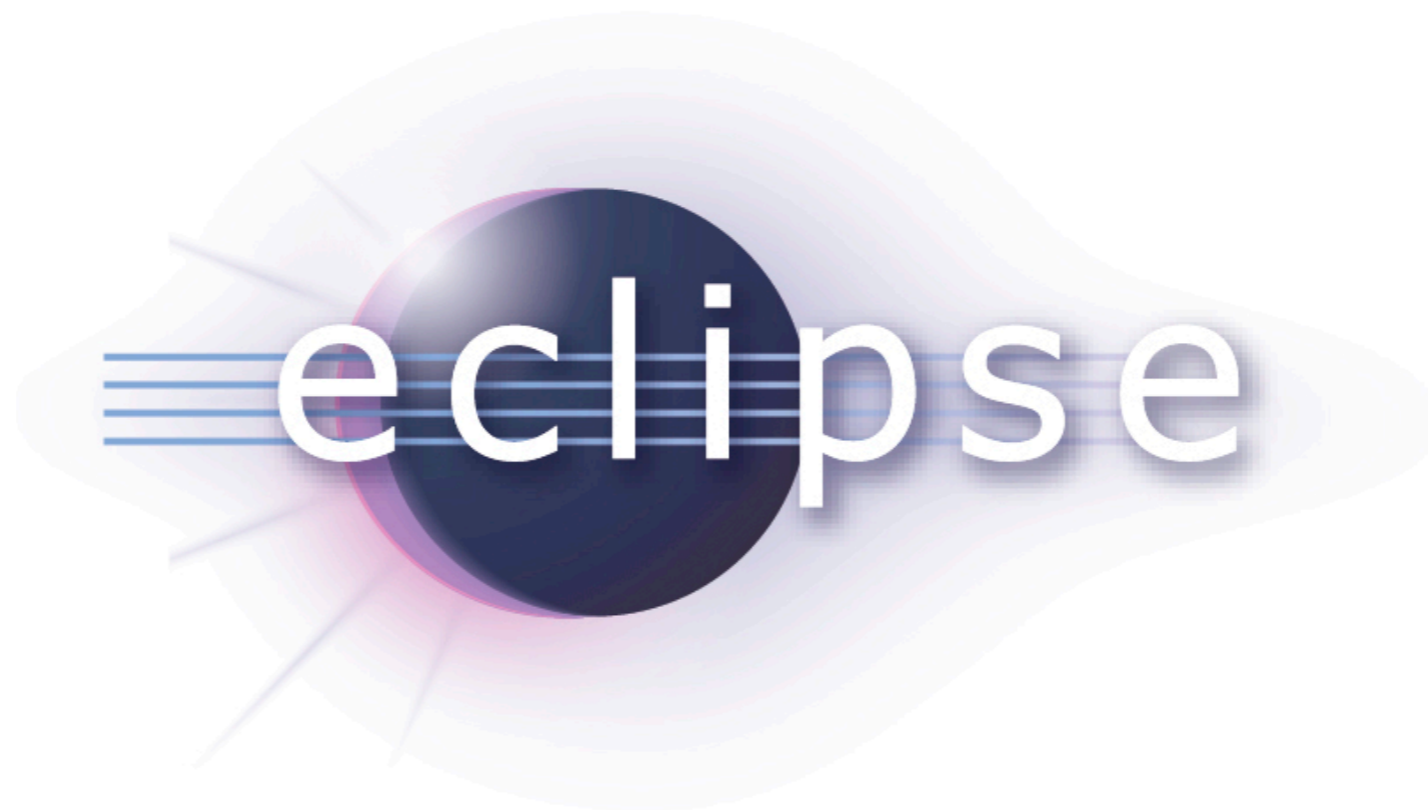# Apogée Project

The Rich Client Framework for ECM

Eclipse Project > Proposal > Creation Review

15th August 2006
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Enterprise Content Management ?

- **ECM ?**
    - Convergence of all non-accountable data management softwares in an organization
    - See: http://en.wikipedia.org/wiki/Enterprise_content_management

- **Some ECM vendors: ECM/Documentum, Intervowen, Nuxeo, OpenText**

- **Why a rich client when there is the browser?**
    - For document-oriented work, the browser is not enough
    - Deep integration with the desktop required
    - Offline work and synchronization
    - Responsive and rich interface -> keep the user in a known environment
    - The browser is not a window manager neither HTML is a UI toolkit...
    - ...at least not for users!

- **Why a framework ?**
    - ECM-oriented applications are very different from the user point of view
    - Need a lot of customization when deploying solutions for customers
    - Share a lot a common infrastructure

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Project Goals

- ECM, the Eclipse way!

- Build a core infrastructure and a family of components targeted to ECM-oriented desktop applications.

- Components should be independent enough to be used separately

- Leverage industry standard and existing open source components

- Vendor-neutral -> any ECM platform should be able to use and create connectors for Apogée

- Offer user-friendly tools

- No bloat-ware -> think user experience and efficiency

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Functional Scope

Applicative components

Mail Client	**Calendar**	**Whiteboard**	**BPM** *(Eclipse BPEL)*
Content Editors	**Collaborative Workspaces**	**IM** *(ECF)*	**etc.**

Core Infratructure

Remote Interface	**Sync** *(SyncML)*	**Search**	**Content Type Service**
Content Model	**Cache**	**Indexing** *(Apache Lucene)*	**XForms Engine**
Storage Service	**Security** *(ETF)*	**Relations Engine**	**Content Schemas**

JCR
(Apache Jackrabbit)

RDF DB
(Jena)

Standards and tools

- **Standard way to access different repository**
  - NXCore model
  - Java Content Repository (JSR-170) as storage engine
  - iECM API

- **XForms**
  - Eclipse Forms generation from XForms
  - Enable form sharing between Apogée and the server

- **XMLSchemas**
  - Content schemas (and storage schema generation)
  - XForms validaiton

- **SyncML**
  - Server / client synchronization

- **RDF**
  - Relation Storage

Existing projects touch points

- **Apogée will hopefully use following Eclipse projects**
  - RCP for framework infrastructure
  - ECF for communication and synchronous collaboration (IM, shared whiteboard)
  - ETF for security and authentication
  - WST for web-service support (SOAP / WSDL)
  - BIRT for activity audit and reporting
  - Eclipse BPEL as workflow designer

- **Apogée will also likely use following major Open Source projects**
  - Funambol (ObjectWeb) as SyncML server and client API
  - Jackrabbit (Apache) as JCR-compliant repository (storage engine)
  - Jena (HP) or Sesame (OpenRDF) as RDF database engine

- **Planned contributions**
  - Bug report and bug fixes
  - Patches & improvement proposal (ex: providers for ETF, ICE transport for ECF)

- **Cooperation with involved projects will be done as much as possible**

Project's team and supporters

- **Proposed Project Manager -> Eric Barroca (Nuxeo)**

- **Proposed Technical Lead -> Bogdan Stefanescu (Nuxeo)**

- **Commiters**
  - Cédric Bosdonnat (Nuxeo): content editors and synchronization
  - Eugen Ionica (Nuxeo): relation and search services
  - Carl Rosenberger (db4objects): storage

- **Interested parties**
  - AFP (French Press Agency) (consumer)
  - AREVA NC (consumer)
  - French Institute of Statutory Auditors (consumer)
  - db4objects (commiter)

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Project Status

- **Design**
  - Overall architecture -> Done
  - Content storage and model -> Done
  - XForms engine and XMLSchemas validator -> Done
  - Relation engine -> Done
  - Security -> To do

- **Development**
  - Currently takes place at https://svn.nuxeo.org/pub/Apogee (SVN browser)
  - Global infrastructure -> Done
  - Jackrabbit integration, content model -> Done
  - XForms engine and XMLSchemas validaiton -> Done
  - Synchronization -> work on the way
  - Content Editor (MSOffice, OpenOffice and Mozilla Composer) -> Done

- **Community**
  - 70+ subscription to the mailing-list
  - Website online at apogee.nuxeo.org

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1.0 Timeline

- **M1 - September 2006**
    - [CP] Technical specifications of the core platform (80% done)
    - [CP] Resource model [done]
    - [CP] Relation service / RDF [done]
    - [CP] Indexing and Search service / Lucene [done]
    - [CP] Rich Content editors (MSWord, OpenOffice, XHTML) [done]
    - [CP] Eclipse Forms generation service (XForms based, alpha support, done)
    - [CP] On-the-fly validation of a SWT form with a XML Schema (XSD) [done]

- **M2 - November 2006**
    - [CP] Communication service
    - [CP] Content type service
    - [AP] Collaborative workspaces
    - [AP] Rich Text Editor [done]

- **M3 - December 2006**
    - [CP] Security model and service
    - [CP] Form service (XForm full support)
    - [CP] Client / Server synchronization -> online/ offline mode

- **M4 - February 2007**
    - [CP] Communication framework (SOAP support)
    - [AP] Instant Messaging (XMPP based)
    - [AP] Mail client (alpha)
    - [AP] Calendar client (alpha)

- **RC - March 2007**

- **Final - April 2007**

To check the work going on, please refer to the source repository and documentation on Apogée website

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