

# SubConf 2008

## From Subversion to ALM – Bringing the Process to the Desktop

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COLLABNET®

# Who Am I ?

I have for the past three years managed the deployment of Collabnet at Dresdner Kleinwort (the Investment banking arm of Dresdner Bank). I have Worked in Software Development for over 17 years and specialising in Configuration Management. I manage a number of deployments all at various levels of maturity in deploying an ALM platform

## Why am I here ?

- ▶ *Not* to say this is as easy as it sounds
- ▶ *Not* to persuade you that you need a tool to support ALM if you do not know what ALM stands for
- ▶ simply to describe how an organisation used Collabnet to build a process that supports our existing (and varied) Agile practices, achieve CMMI Level 3 and introduce a more standardised approach to software development in the matter of a few months.

- ▶ 2077 users >900 projects >90% migrated to standardized ALM AGILE CMMI template over a 7 month period!
- ▶ We have several hundred continuous build accounts with polling periods of ~ 5mins causing several million hits on a daily basis. (2,786,287 14/10/2008)
- ▶ We have several geographically dispersed teams all working in exactly the same way with access to the same toolset.
- ▶ We have tens of thousands issues (83339 14/10/2008) raised with no foreseeable scalability challenges.

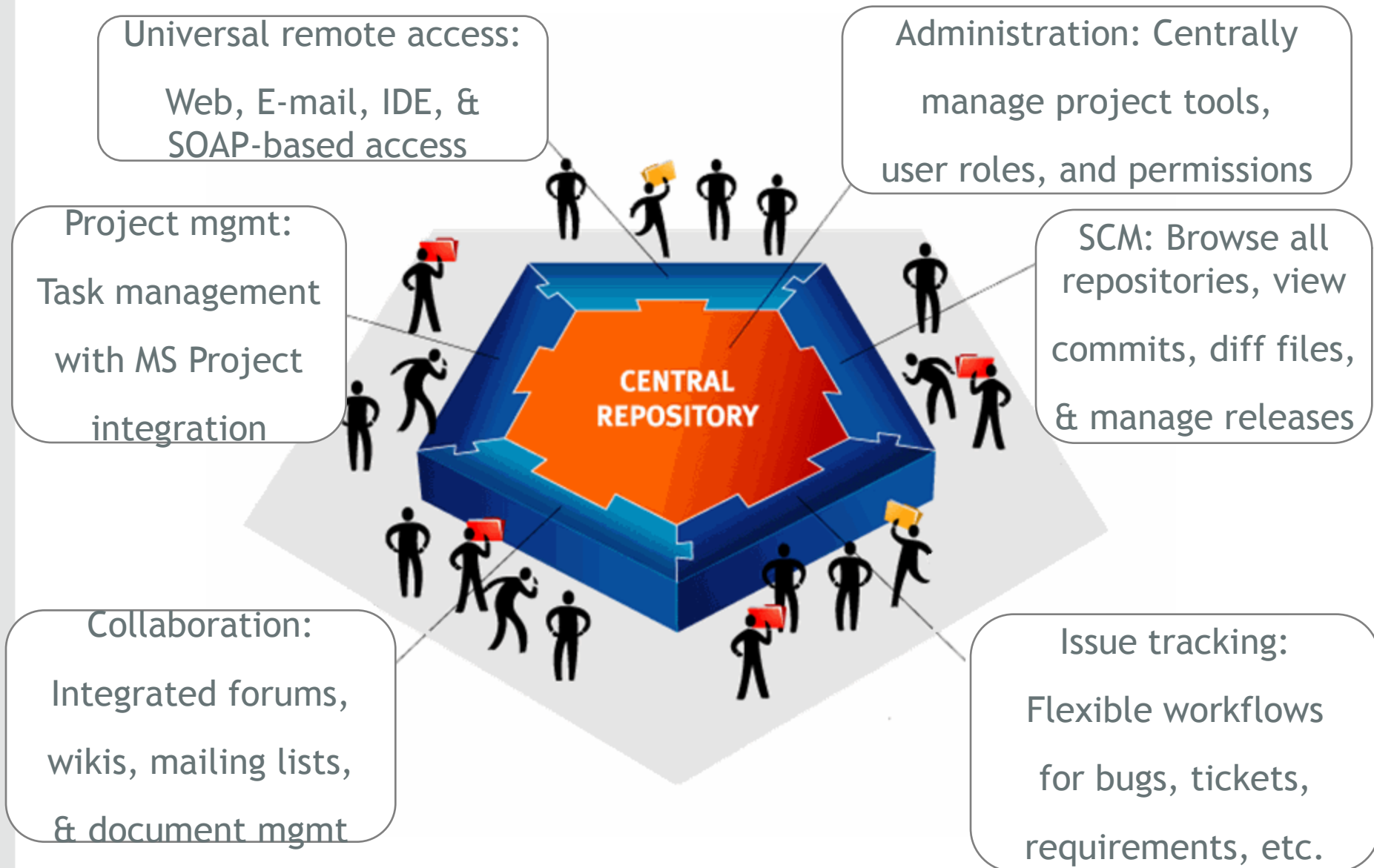
# What is ALM?

- ▶ *The coordination of development life-cycle activities through*
  1. *Enforcement of standardized processes that span these activities,*
  2. *Ensuring all the Stakeholders within the process have a platform that allows natural communication for activities undertaken.*
  3. *All artifacts produced during the process of software development have a natural relationship model and management of these relationships should be visible all who need visibility*
  4. *All stakeholders should have the ability to report on the status of the whole project not just in their domain.*

# The Key Benefits of ALM

- Enables management to drive a standard development process across multiple projects within their organization with benefits including:
  - Efficiency, cost, and time to market gains
  - Enables cross-project and project-level process customization to allow teams to address real life project needs – scope, budget, time, technology, etc.
- Enables all stakeholders to have real time visibility and participation into the lifecycle of a project
  - Executive, business, technical, partners, and clients
  - Can dramatically improve software asset reuse
- Enables both technical and business questions to be quickly answered in a user-friendly way
  - e.g. “Tell me all I need to know about the testing phase of this project”
    - State of the requirements
    - State of the code
    - State of the test plans, procedures
    - Results of the testing – e.g., Issues – P1, P2, P3s; Tester Results, e.g., Mercury
    - History of the code
    - Schedule
    - Team
- Powerful access control using rich and programmable security capabilities

# CollabNet ALM Platform for Distributed Teams



# Example ALM Content

subconf2008: Home - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://subconf2008.collabnetdemo.net/

Most Visited Getting Started My eBay Latest Headlines webex Microsoft Outlook We... Registered Users eBay - The UK's Online...

COLLABNET Enterprise Edition Login

My pages **Projects** Community

Projects > subconf2008

Project pages  
Project home  
Environments  
Support  
Developers  
Documentation  
Change Management  
Requirement Mgmt  
Planning and Progress  
Governance

Project tools  
Membership  
Announcements  
Discussions  
Documents & files  
Wiki  
Project Tracker  
Project metrics  
CUBIT

Search  
This project  
   
Advanced search


How do I...  
[Learn more about](#)

subconf2008  
**Project home**

If you were [logged in](#), you could join this project.

[Project home](#) [Environments](#) [Support](#) [Developers](#) [Documentation](#) [Change Management](#)

Please place information on this tab that may be of interest to the product/project members; these could be html, logo's rules of the road for the product/project.



**Welcome to the ProcessMapIT Agile Template for Products.**

This template was created:

- to provide a recommendation for how to use Collab.net for an Agile product that has been based off the Proect template with Best Practices
- to avoid each new product will have to start "from scratch"
- to encourage the reuse of Collab.net artefacts and functions

The aim is that any new product should be able to request the creation of a new Collab.net project based on this template. In return that product will be setup with the following:

- Major sections, implemented as Tabs
- Minor sections, implemented as Headings under those Tabs
- High-level guidance on the purpose and suggested implementation of each of those minor sections
- Templates, where appropriate, for key documents (Technical Vision, Architecture Fit, etc.)

Images: 1/1    Loaded: 19 KB    Speed: 2.33 KB/s    Time: 8.144    Done

subconf2008.collabnetdemo.net

# Example project home page

calypso securities  
**Project home**

[Set SYN Password](#) If you are facing any issues pls. email [issues@service.collabnet.drkw.net](mailto:issues@service.collabnet.drkw.net).

[Edit project](#) | [Edit project pages](#) | [Edit this page](#) | [Request project membership/role](#) | [Watch project](#)

[Project home](#) | [Documentation](#) | [Change Management](#) | [Environments](#) | [Support Wiki](#) | [Developers WIKI](#) | [Help](#)

[Project Access](#) | [Announcements](#)

## Calypso Securities

Calypso Securities is used for clearing and settlement of all cash securities and securities financing trades traded by the Frankfurt Legal Entity (DBAG). Please note that this application is different from the Calypso FX/MM (Foreign Exchange / Money-market) system.

This site aims to document the Calypso Securities application. It is aimed at developers and users and will house documentation, support information and the change management process.

Over time this site will replace the Developer Wiki, Support Wiki, Support Sharepoint and the Technical Sharepoint sites that currently exist.

The [Product Summary](#) gives an overview of **Calypso Securities**.

You can also find a Product Summary of the **Colibra** application [here](#) or go to the [Colibra home page](#).

### Related Collabnet Projects

[Version Upgrade](#)  
[Multi-Entity Capability](#)  
[FICC / CREST Project](#)

# Example Tab and Focused Tool Usage

The screenshot shows a web browser window titled "calypsosecuritys: Change Management - Provided by visionapp". The address bar shows the URL "https://calypsosecuritys.collabnet.drkw.net/servlets/ProjectProcess?pageID=2132". The browser's navigation bar includes "Back", "Forward", "Home", "Search", "Favorites", and "Go".

The main content area is titled "calypsosecuritys Change Management". It features a navigation bar with tabs: "Project home", "Documentation", "Change Management" (highlighted), "Environments", "Support Wiki", "Developers Wiki", and "Help". Below this, there are sub-tabs: "Requirement Management", "Planning and Progress", and "Governance".

The "Change Management" section includes a message: "Set SVN Password If you are facing any issues pls. email issues@service.collabnet.drkw.net." and links for "Edit project pages" and "Edit this subpage".

The "Change Requests" section has three links: "Change Request Statuses Overview", "Change Request Process Overview", and "SOX Controls (related ppt)".

The main content area is divided into three columns:

- General**:
  - [Add new change request](#)
  - Add new change request for release:
  - View:
    - All items
    - All open items
    - All open items assigned to me
  - Search by artifact id:
- By Initiative / Priority / Sponsor / Area**:
  - View by Initiative:
  - View by Priority:
    - Open 'Must Have' requests
    - Open 'Should Have' requests
    - Open 'Could Have' requests
    - Open 'Low Priority' requests
  - View by Sponsor:
    - Open requests for 'Altwater,
- By Status / Raise Reason**:
  - View by Status:
    - Items awaiting sponsor approval
    - Items awaiting analysis
    - Items awaiting analysis (prioritised items)
    - Items awaiting analysis (SPD Business Support Team)
    - Items in analysis
    - Items in analysis (SPD Business Support Team)
    - Items awaiting IT resource
    - Items in development
    - Items ready for testing

# Example Components

calypsosecuritys: Change Management - Provided by visionapp

File Edit View Favorites Tools Help

Back Search Favorites

Address <https://calypsosecuritys.collabnet.drkw.net/servlets/ProjectProcess?pageID=2132>

Links COLLABNE

Text Search:

- search all
- summary
- detailed description

search

- Open requests for **'Crouch-Baker, Mike'**
- Open requests for **'Frueh, Herbert'**
- Open requests for **'Loughe, Steve'**
- Open requests for **'Rogers, Dave'**
- Open requests for **'Schmidt, Lilli'**
- Open requests for **'Walker Justin'**
- Open requests for **'Ward, Paul'**

View by Area:

- Open **'Settlement'** requests
- Open **'Trade Support Sec Fin'** requests

View other queries...

- Items **released**

View by Raise Reason:

- Open **'Business (defect)'** requests
- Open **'Business (new revenue)'** requests
- Open **'Business (regulatory requirement)'** requests
- Open **'Technical (defect)'** requests
- Open **'Technical (enhancement)'** requests
- Open **'Raised by Support Team'** requests

[ Edit ]

## Releases

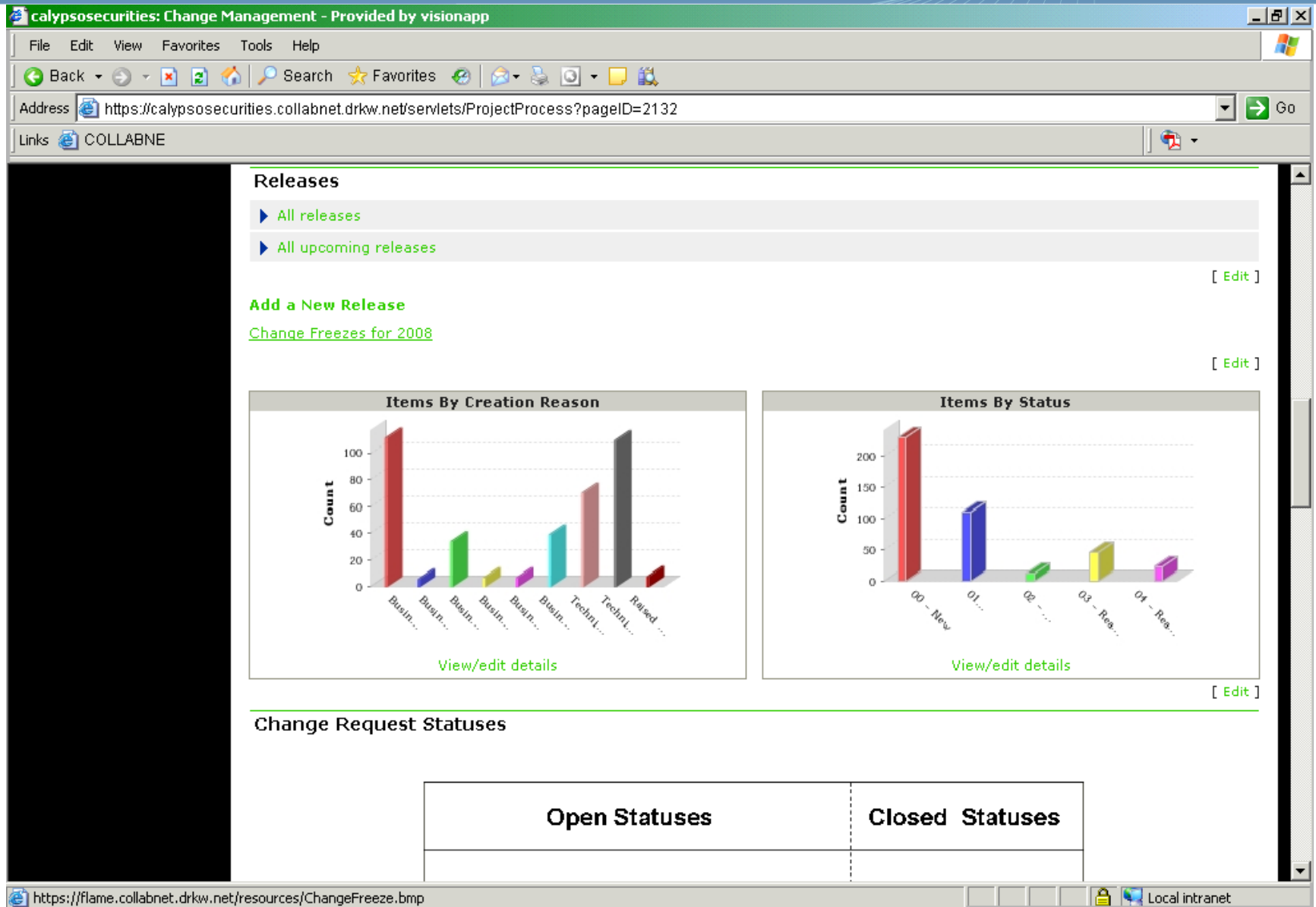
▼ All releases

2008-10-13 17:36:52 GMT+01:00 Results 1 - 5 of 10 artifact(s) found

Artifact ID	Live Date	Reg. Test Start Date	Summary	Notes
CALS1	2008-07-06	2008-06-20	Release 4.1.0 (June)	Release has been deferred from June 2008. To be replanned, all change requests to be included in Collabnet
CALS431	2008-08-01	2008-08-01	Invalid	-----
CALS8	2008-08-23	2008-08-04	Release 4.2.0 (Augustus)	-----
CALS439	2008-09-10	2008-09-10	Release 4.2.0 Hotfix 20080910	Hotfix Release SWIFT process change in FR market

Local intranet

# Example Metrics



# Editing Project Pages

almbasics: Edit page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://almbasics.collabnetdemo.net/servlets/PageEditor?documentContainer=c4>

Google  Go

COLLABNET. Enterprise Edition Logged in: veena | Logout

My pages Projects Community openCollabNet Administration

Projects > almbasics > almbasics

Project tools  
Project home  
Membership

Announcements  
Discussion forums  
Mailing lists

Documents & files  
Subversion

Project dashboard  
Tasks

Project Tracker

Tracker metrics

Search  
This project    
Advanced search

How do I...  
Customize my project home page?  
Add a page, subpage or freeform page to my project home page?  
Edit a page, subpage or freeform page in my project home page?  
See the directory

almbasics  
**Edit page**  
[View page](#)

**Information**

\* = Required fields

**Location** Project pages > Lifecycle

**\* Name**   
The name will be used as the navigation link for this page, and as the browser title.

**Description**

**\* Availability**

**Content**

[Add component to page](#)

There are no components yet

**Subpages and Freeform pages**

[Add new subpage](#) | [Add new freeform page](#)

There are no subpages or freeform pages yet

Add component to this page

Add new subpage

Add new freeform page

# ALM – Metrics

almbasics: Key metrics - Microsoft Internet Explorer

Address: <https://almbasics.collabnetdemo.net/servlets/ProjectProcess?tab=3>

Projects > almtraining > almbasics

Project tools  
Project home  
Membership

Announcements  
Discussion forums  
Mailing lists

Documents & files  
Subversion

Project dashboard  
Tasks

Project Tracker

Tracker metrics

Search  
This project  
Go  
Advanced search

How do I...  
Get release notes for CollabNet 4.5.1?  
Get help?

almbasics  
**Key metrics**  
Edit project pages | Edit this page

Project home | Artifacts | Releases | **Key metrics**

**Open defects**  
No metrics data is available  
[View/edit details](#)

**Requirements by stage in lifecycle**  
No metrics data is available  
[View/edit details](#)

**Key queries**

<b>Defect related queries</b>	<b>Requirements related queries</b>
Open P1 defects	Open requirements
Defects by assignee	Requirements by assignee
Defects logged today	Closed requirements

Key metrics tab to capture project level metrics

Graphical trend and point in time metrics

Canned queries for quick access to pre-defined queries

# How do you get started?

- Application Lifecycle Management – one step at a time
  - Organizations vary in their processes and maturity model
  - Within an organization teams can vary in their level of maturity and process adoption.
  - CollabNet ALM enables development teams to customize their project based on their process – from sophisticated to home-grown.
  - As the project site is being built one step at a time, you can decide how sophisticated you want your processes to be.
    - The ALM processes and content built here are just as an example. You can customize CollabNet ALM based on your organizational needs.
  - This unit will start with some very basic steps in creating a project site and build up to advanced lifecycle management with embedded processes.

# ALM Process Components

The screenshot displays the 'alm-demo Lifecycle Manager' interface. At the top, there are navigation tabs for 'Stages', 'Project Management', 'Communications', 'Metrics and Reporting', and 'Integrations'. Below these are icons for 'Definition', 'Design', 'Code & Build', 'Testing', 'Deployment', and 'Support'. The main content area is divided into four columns: 'Requirements', 'Defect Reports', 'Action Items', and 'Work Products'. Each column contains a search bar, a list of active items with filters, and a 'Process Documents' section with a table of documents. The 'Resource Links' section at the bottom provides links to external resources.

Configurable tabs to navigate to different aspects of a project

Configurable stage names to correspond to different project phases

Customizable activity panel to store PT links and work products

Modifiable Process Documents area to store and upload version control documents

InConfigurable Resource links to provideks to externally stored

# ALM Best Practices

- While building a project site keep the following in mind:
  - Project site is for active delivery information
    - Provide key delivery related information on the site
    - Provide links to reference material, but refrain from using active project area for this
  - Organization of content is key
    - Organize content based on logical grouping
    - Refrain from huge lists of documents or other content that need to be sifted through to find relevant information
  - Add important pre-defined queries to the site
    - Identify key queries that will help keep a pulse on the project
    - Organize the queries based on the content, making them easy to find
  - Picture is worth a thousand words
    - Use Project Tracker metrics reporting, e.g. a P1 graph trending upward could mean problems if at the end of the project
    - Integrate charts from other applications as appropriate, e.g. CruiseControl build results
  - Less is more
    - Though it is tempting to add a lot of content, start small
    - Keep only relevant information on the main pages, move old or non-active material elsewhere, provide links if appropriate

# ALM Made Simple - Templates

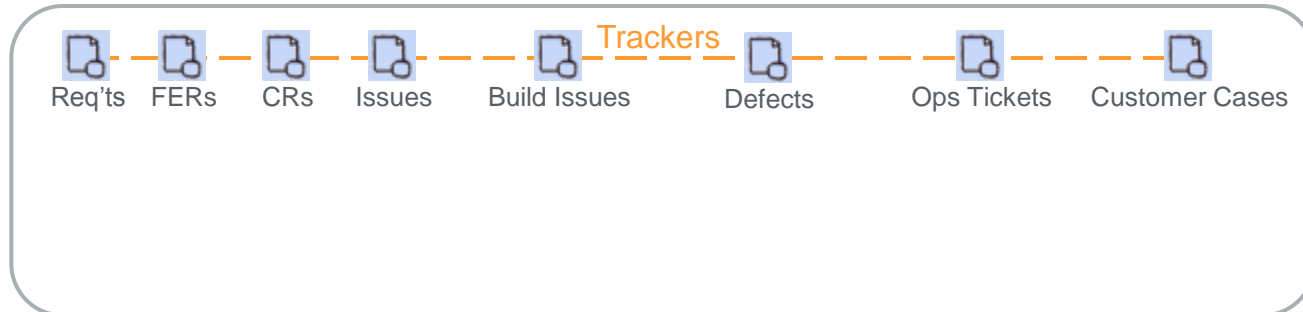
- CollabNet provides 3 baseline processes to get started
  - Teams don't have to start from scratch, they can use one of pre-built templates
    - Templates available on <http://alm.open.collab.net/>
    - CollabNet baseline process template – follows a simple iterative methodology
    - CollabNet agile process template – follows an agile methodology
    - CollabNet unified process template – follows a unified methodology
- Organizations can create their own templates to roll out standardized processes
  - Start with a template provided by CollabNet and customize it
  - Alternatively, build a template completely customized to the organizational processes
  - Can provide multiple templates for teams to choose from.
- What is an ALM template?
  - A template is a project blue-print that can be used to create new projects. It contains:
    - Project structure and content
    - Project Tracker artifact types with embedded work flow
    - Project Tracker queries

# Manage & Secure ALM Artifacts in a Central Repository

ALM Phases

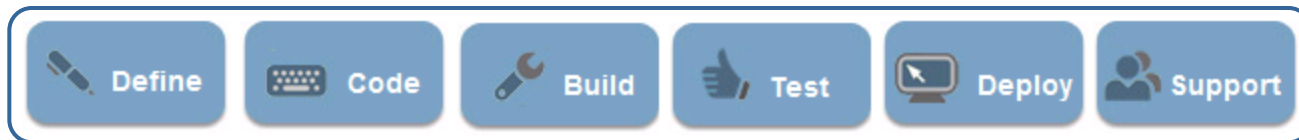


Tools & Assets

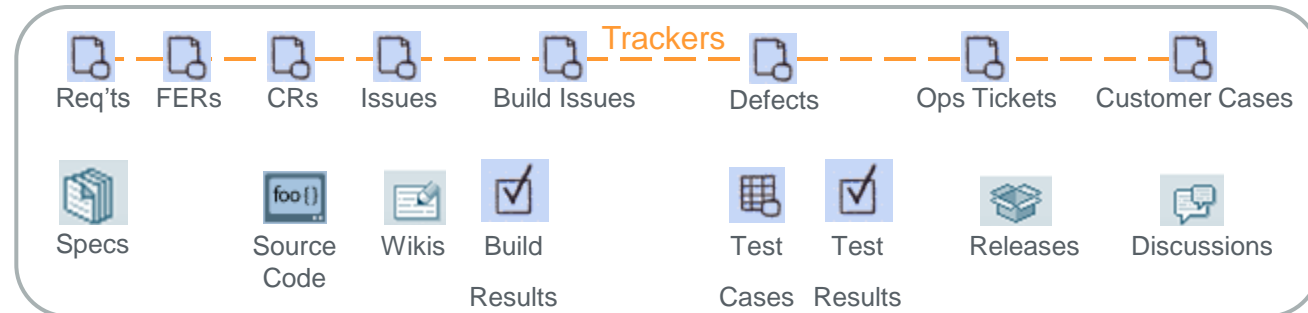


# Manage & Secure ALM Artifacts in a Central Repository

ALM Phases



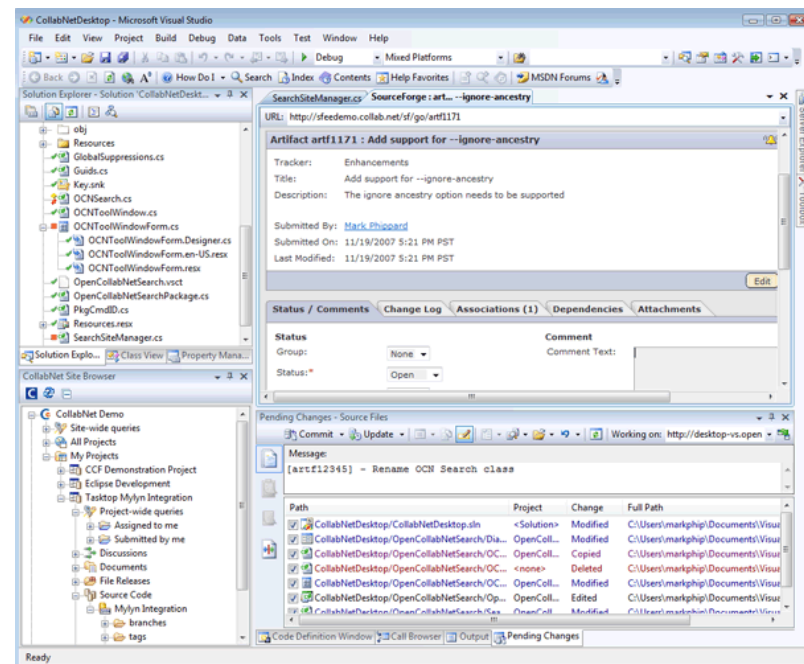
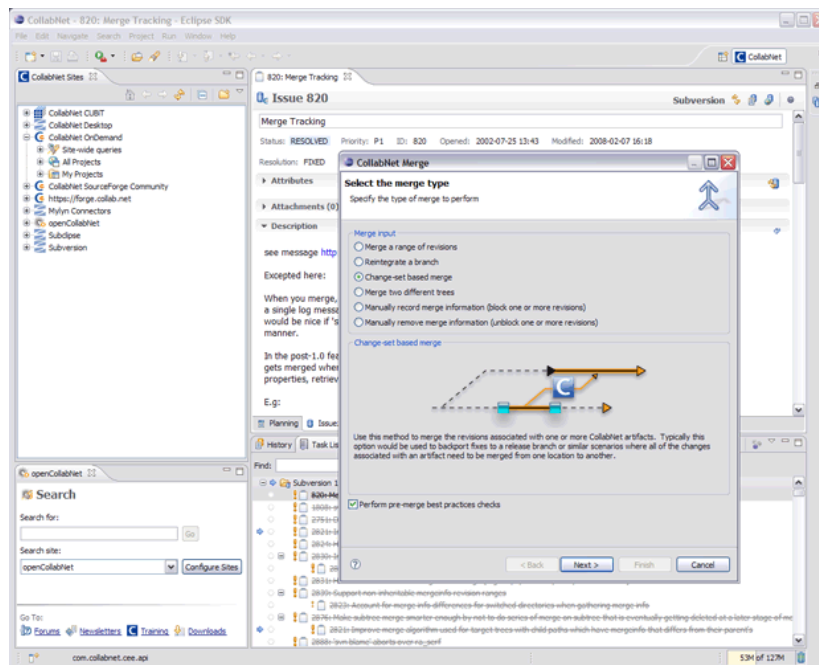
Tools & Assets



Central Repository

- Global search
- Centralized Security

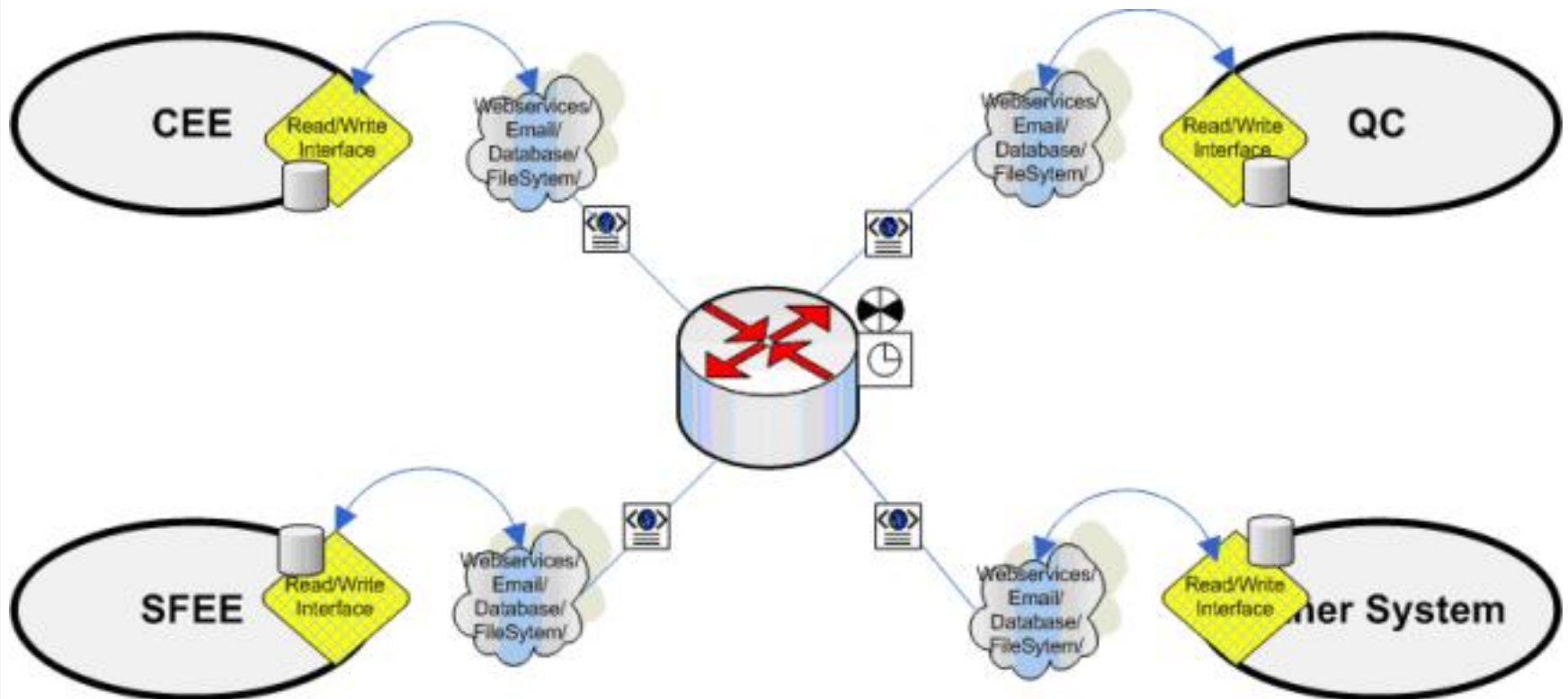
# Work Within Eclipse or MS Visual Studio



Eclipse and Visual Studio Plug-ins to:

- Access subversion: commit changes, view history, etc.
- Run merges and resolve merge conflicts
- Perform merges based on change sets represented by CSFE tracker artifacts (e.g. issues)
- Query, view, and edit CSFE tasks and tracker artifacts

# CCF – Collabnet Connector Framework



# Collabnet Desktop

The screenshot displays the Eclipse IDE interface with the following components:

- Window Title:** Java - 472: New/Enhance Create Branch/Tag option that can do it for mult... - Eclipse SDK
- Menu Bar:** File, Edit, Navigate, Search, Project, Run, Window, Help
- Toolbars:** Standard IDE toolbars for file operations, running, and navigation.
- Package Explorer (Left):** Shows a project structure for 'org.eclipse.myllyn.tasks.ui' with sub-packages like 'src', 'org.eclipse.myllyn.internal.task', and 'org.eclipse.myllyn.tasks.ui.sea'. It also shows the 'JRE System Library' and 'rt.jar'.
- Editor (Center):** Displays the details for 'Issue 472' in the 'Subclipse' project. The title is 'New/Enhance Create Branch/Tag option that can do it for multiple projects'. The status is 'NEW', priority is 'P3', and it was opened on 2006-03-15. The description includes a request for a multi-project branch/tag option and a numbered list of instructions.
- Task List (Right):** A list of issues, including '471: Remove revision from', '472: New/Enhance Cre...', '656: Better support for nested p', '657: Do not allow sharing c', '702: "Breadcrumbs" are not adde', '704: Add context menu to histor', and '690: Enhance svn export capab'.
- Bottom Panel:** Shows tabs for 'Planning', 'Issuezilla', and 'Context'.

# Collabnet Desktop - SVN

The screenshot displays the Eclipse IDE interface with the following components:

- Window Title:** Team Synchronizing - SVNClientManager.java - Eclipse Platform
- Menu Bar:** File, Edit, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Standard Eclipse development icons.
- Left Panel (Synchronize):** Shows the SVN (/core) workspace structure with files like `src/org/tigris/subversion/s` and `SVNClientManager.java`.
- Right Panel (SVNClientManager.java):**
  - Java Structure Compare:** Shows the compilation unit structure including `Import Declarations` and `SVNClientManager`.
  - Java Source Compare:** Compares the local file with the remote file (1500). The local file contains a `try` block with `CmdLineClientAdap` and a `catch` block for `SVNClientExc`. The remote file contains a `try` block with `javaSvnExcept` and a `catch` block for `SVNClient`. Red boxes highlight differences in the `catch` blocks.
- Bottom Panel (SVN Resource History):** Shows the history for `SVNClientManager.java`.

Revision	Date	Author	Comment
1493	8/3/05 11:...	markhip	Added support for JavaSVN as an adapter choi...
*1420	6/28/05 8:...	markhip	Setting svn:eol-style on files that are mis...

# Conclusion

- ALM is natural to Collabnet.
- Templates - Standardised process deployable in a consistent manner.
- Provide focus and aggregation of data.

# Thank you

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# Questionnaire