

Novell Teaming 2.0

Technical Review

Kai Reichert

Technology Specialist Collaboration
kreichert@novell.com

Dean Lythgoe

Engineering Manager
dlythgoe@novell.com

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New Collaboration Market Trends



Consumer-ization of IT – the new workforce expects new tools



Convergence of social and enterprise user experience



New software delivery models: SaaS, Web 2.0 and Cloud

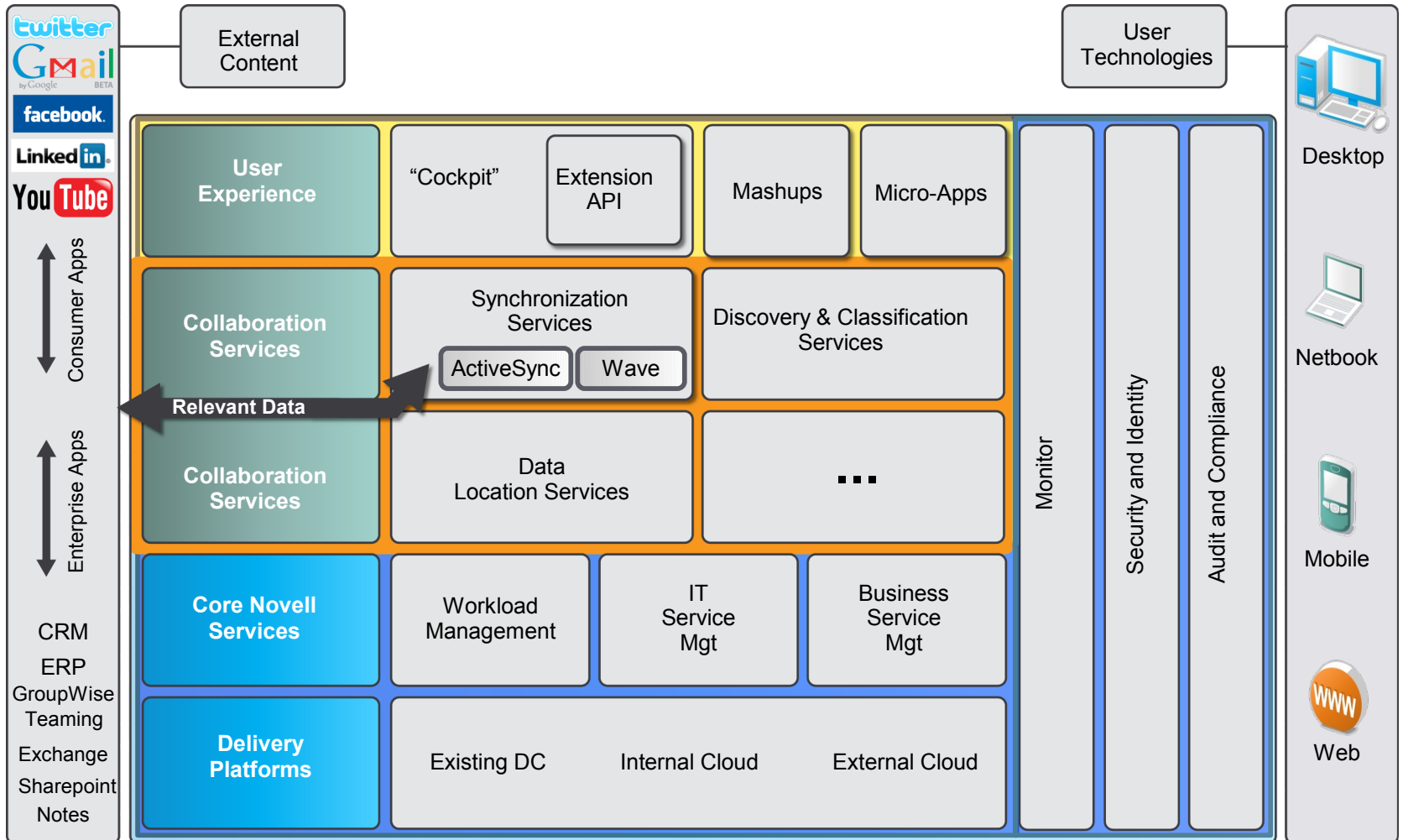


Info created and shared more freely and in new formats (e.g. video)



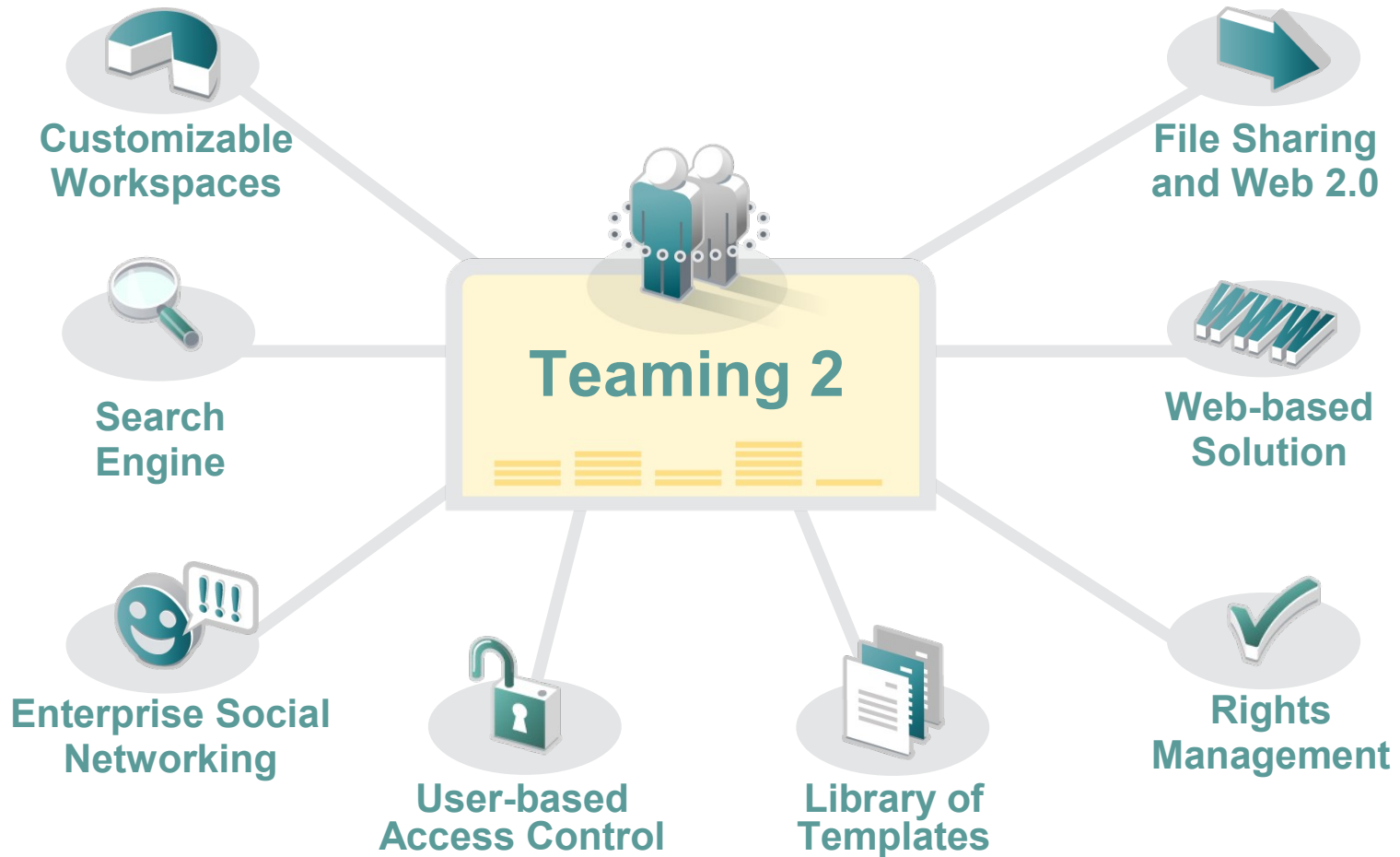
Powerful mobile devices are primary access points to the cloud

Novell Open Collaboration Architecture



Teaming Overview

Teaming Capabilities



Workspaces have Folders

- File
 - Versions
 - Open Office, MS Office or other authoring tools
- Wiki
- Blog
- Discussion
- Photo
- Calendar
- Milestone
- Task
- Survey
- Custom



Search

- Everything is indexed
- Simple search for content, people, places or tags
- Shows related people and places
- Access control only allows authorized users to see content

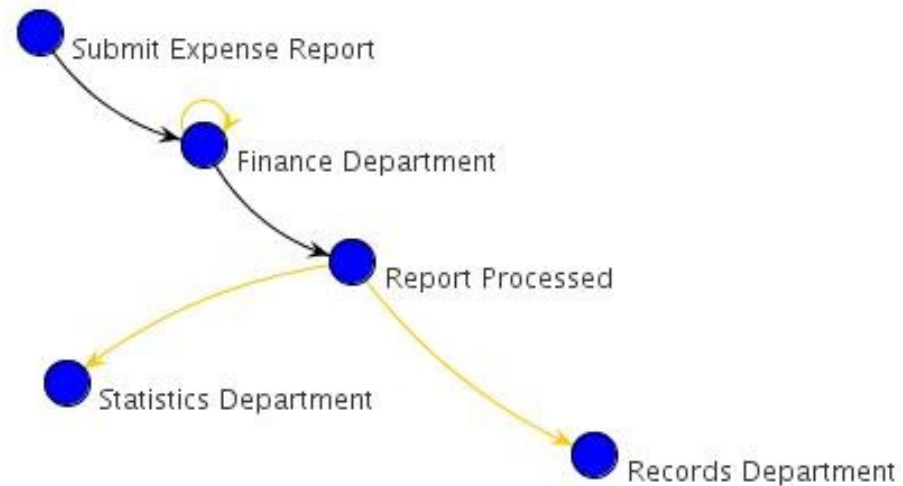


Enterprise Social Networking

- Wikis and blogs
 - A quicker way to prepare and share information
- Micro-blogs
 - What are people doing?
- Relevance Dashboard
- Discussions
- Personal workspaces
- Tags

Forms and Workflows

- Streamline business processes
- Web form and workflow tools included in Teaming



Novell Teaming Library

Forms, Workflows and Templates

- Article Review
- Bid List Application
- Bug Tracking
- Business Credit Application
- Catering Request
- Daily Time Card
- Direct Deposit
- Document Review
- Drug Test Consent
- Employee Help Desk
- Employee Self-Evaluation
- Event Request
- Expense Report
- Facilities Issue Report
- HR Job Application
- Incident Report
- Product Request Form
- Knowledge Base Form
- Materials Tracking
- Medical History
- Meeting Minutes
- Performance Report
- Pricing Proposal
- Procedure Approval
- Time Off Request
- Travel Request

www.novell.com/teaming_library

Teaming 2.0 Release

Relevance Dashboard

- A quick way to see what's going on
 - Overview
 - What's new
 - Tasks and calendars
 - Recent entries
 - Micro-Blogs and shared items
 - Profile

Admin E. Strator

Overview What's New (Teams, Tracked Places, Site) Tasks and Calendars Recent Entries **Micro-Blogs and Shared Items** Profile

Micro-Blogs

What the tracked people have been saying

-  *Admin E. Strator* 5/7/09 5:32 PM
Trying out the dashboard

Shared Items

What people have shared with you

Ease of Use Improvements

- Improved look and feel
- Assign a simple URL to any folder
 - <domain_name, optional_port>/teaming/<simple_name>
- E-mail address for every folder
 - File server included with Teaming
- Hide previous document versions
- Accessibility (508 & WAI)
- Copy entry

Customization and Integration



- Included in Teaming
 - Landing page
 - Branded workspace elements
 - Workflow integration
 - Teaming Apps
 - Java Server Page Hooks
- Additional options available with the Kablink community

Teaming Applications

- Run logic on another server
- Runs as the current user
- Content is rendered on Teaming pages
- Access control

Workflow Integration

- Call-outs in state transitions
- Initiate workflow process
- Chain workflows



Management Improvements

- Liferay removed
 - Compatibility for current customers
 - 4x performance increase
- High Availability and scalability for indexing
 - Multiple indexes, round-robin
- Easier deployment
- Multiple tenants per server
- Identity and security
 - Multiple LDAP sources (eDir or AD)
- Scheduler for mirrored folders

Kablunk Open Source Community

- Community of Practice launched in **2008**
- Goal to drive **community-focused** development of Novell Teaming
- **Download** Kablunk for a test drive today!
- Sign up at **www.kablunk.org**

kablunk
OPEN COLLABORATION

Home Open Source Community Enterprise Contact Us

Benefits
Features
Open Source
Enterprise

Ready to get started?
See how easy it is to create content, exchange ideas, and make your teams productive with kablunk.

New Stars. New Stories. New Worlds to Explore.

kablunk. A single **Integrated Collaboration Environment** that establishes a **core** of people, teams, functions, tasks, and content. kablunk takes **team collaboration** and **social networking** to the next level.

What's so special about kablunk? It enables Open Source teamwork, so it opens the door to the ultimate in collaboration. It establishes an ever-growing Open Source community that includes you, the experts in social networking and web-based applications. We've laid the groundwork with kablunk and are clearing the way for innovations that are possible only through the genius (and efforts) of the Open Source software community.

Providing best-of breed-solutions is deeply ingrained in our culture. That's never going to change. At the same time, just like all successful cultures, we are evolving to meet the needs of next-generation technologies and users. kablunk enables us all to work together, delivering better solutions to a broader spectrum of users.

Want to try it now, no strings attached? A Java application with the Web 2.0 facilities you want? Download is just **Click and Go**. No forms, no contact information, no nothing. Then take advantage of full-featured Open Source collaboration solution plus all the new features, functions, and improvements contributed by others like you.

kablunk is licensed under the **Common Public Access License (CPAL)**. We have also deeply intertwined a number of leading Open Source projects into our own innovative code. kablunk leverages: **Hibernate, Liferay, Lucene, MySQL, openSUSE, and Tomcat**

Team Conference Team VM

System Requirements

Teaming Supported Platforms

Client

Browsers

- Firefox
- Internet Explorer
- Safari

Productivity Suites

- OpenOffice
- Microsoft Office

Email

- GroupWise.
- Notes
- Exchange

Server

Server Platforms

- SUSE. Linux Enterprise Server 10 or 11
- OES 2 (Linux)
- Windows 2003/2008 Server

Supported Databases

- MySQL 5.0.67 or 5.1 (Linux only)
- Oracle 10g
- MS SQL Server 2005 or 2008

LDAP

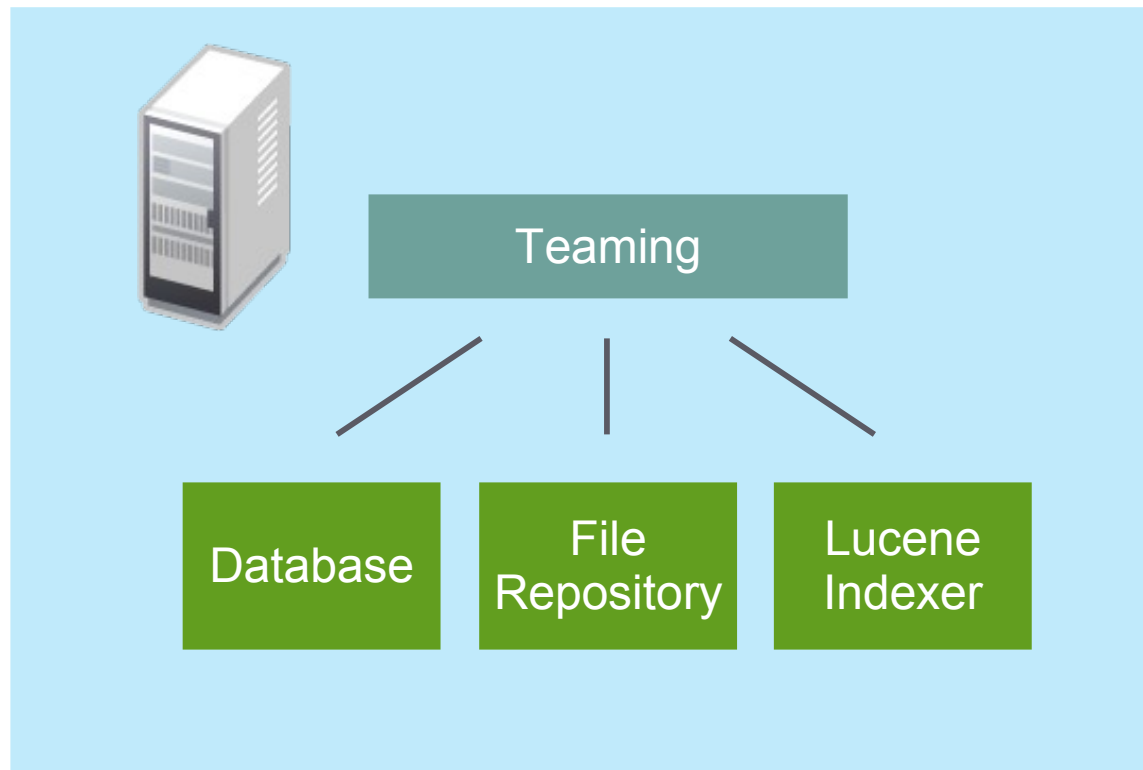
- Novell eDirectory™ 8.7.x and 8.8.x
- Microsoft Active Directory

Design Profiles

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Single Server / Demo

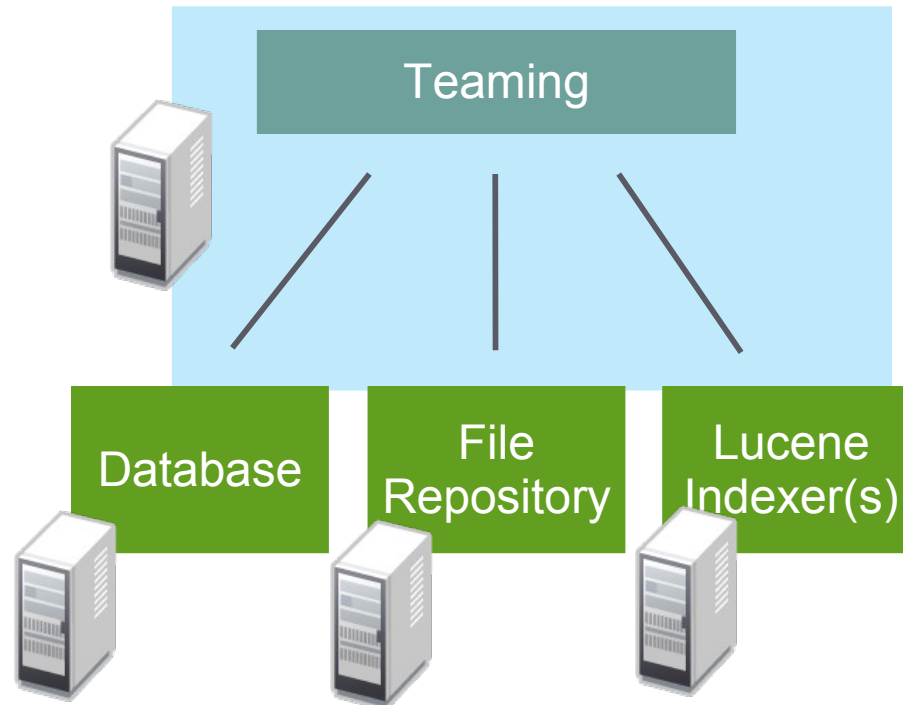
This is the "out of the box" deployment and is suitable for a work-group, department, or small company. All of the components are on a single server, but are running at more typical RAM allocations. Typical user load on a deployment of this size would be 1-500 registered users at normal usage, but concurrency can be a determining factor.



Separate Services

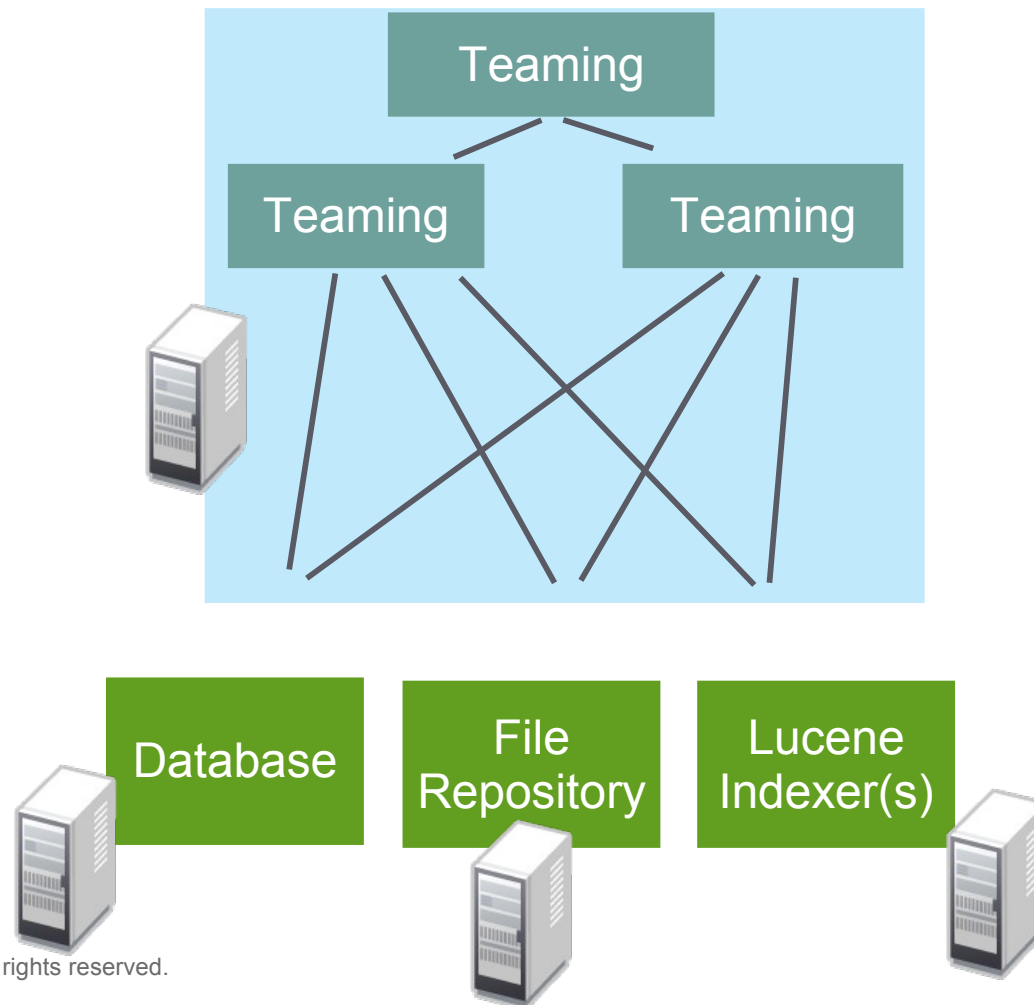
In this configuration we begin splitting out the services to separate servers to increase the amount of parallel processing in the system. While Teaming does not store a large amount of data in the SQL database, the database server can still consume significant resources caching data, handling transactions, etc.

Different database servers have different requirements, but generally speaking the application server would tend to require more resources (CPU and RAM) than the database server. The Indexing server would also require sufficient resources to accommodate the demand on a high usage system. 64-bit systems with larger RAM configurations are recommended.



Multi-Zone

Teaming V2 provides the capability to create multiple zones (separate instances) within a single application. This allows for hosting and or large scale distributions where interaction isn't required, but data and user separation is. In this scenario, all user information, data and other instance-related meta data is separate.



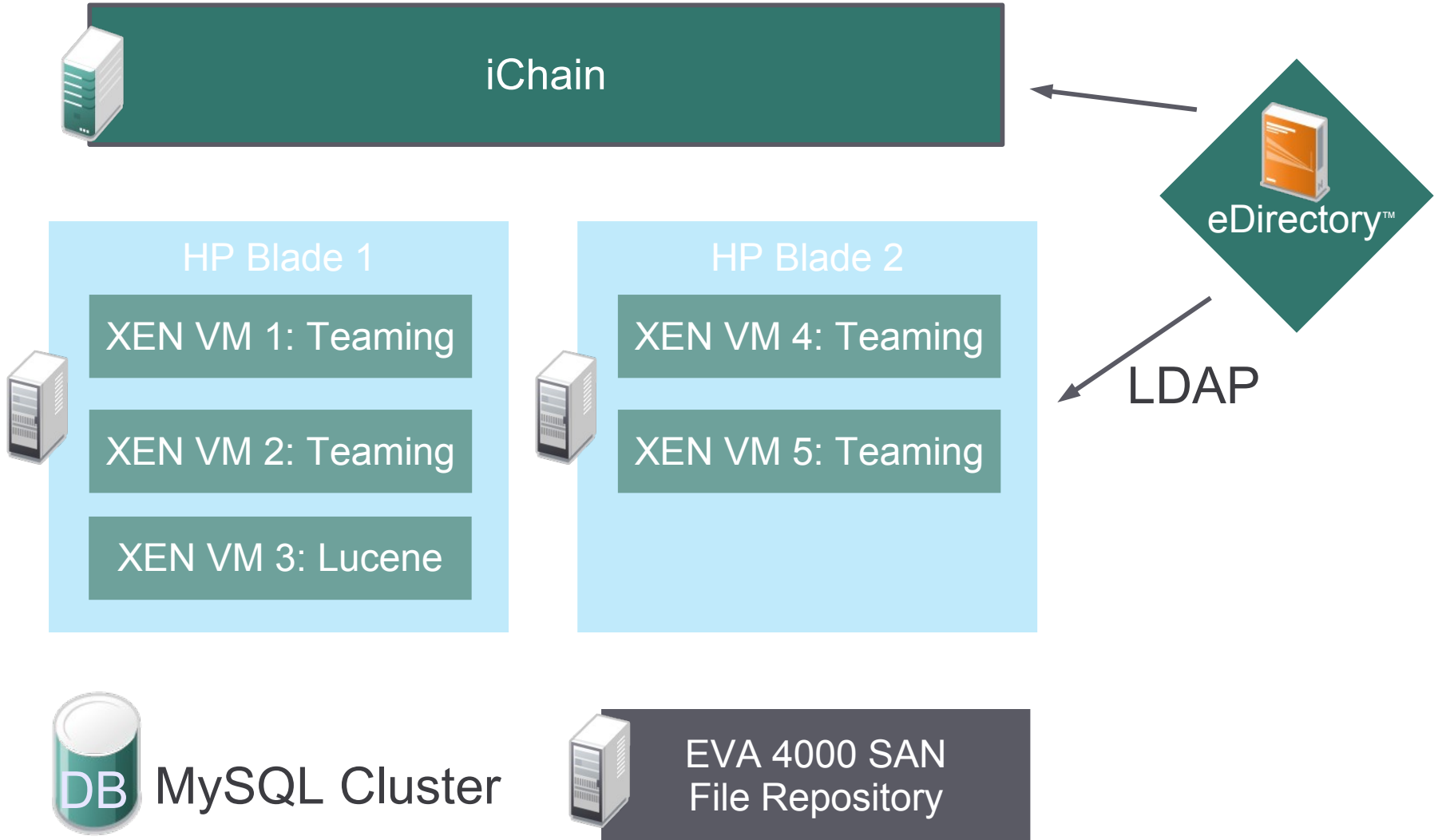
Implementation Examples

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500 Concurrent User Sample Deployment

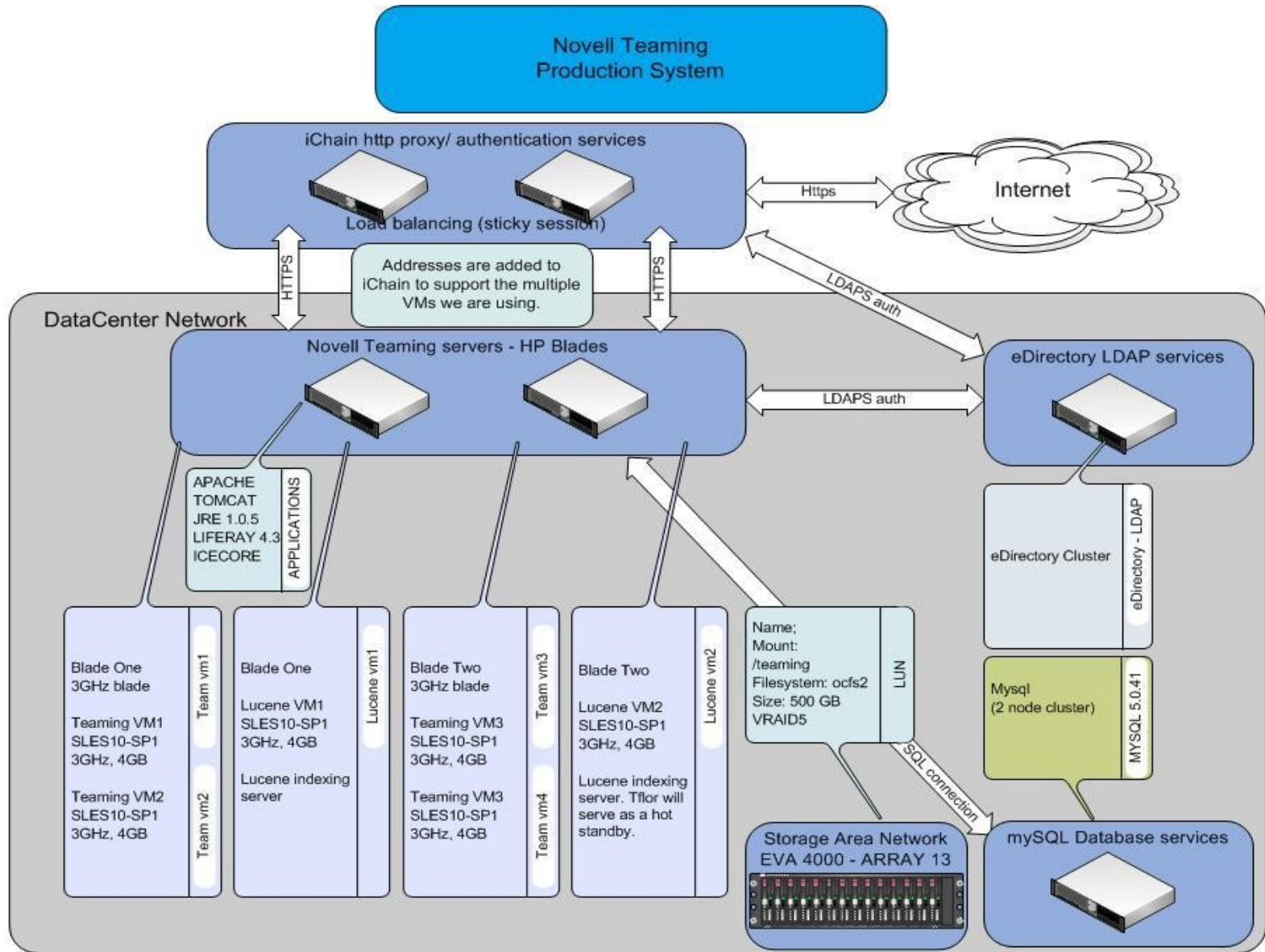
- iChain Server
 - Access Control
 - Round robin load balancing
- Two Blade Servers – HP ML350 G5
 - 16 GB Ram, 2 x 2.33 GHz Dual-Core Xeon
 - Four Teaming XEN Vms with 4 GB RAM each
 - One Lucene index server XEN VM
- One SAN using OCFS2
- Two server MySQL cluster
- 500 concurrent user load per XEN VM

500 Concurrent User Sample Deployment



Novell's Teaming Deployment

- 3,820 registered users with approximately 400 concurrent
- Servers
 - Four Teaming front-end XEN VMs, 1 Lucene VM
 - Clustered MySQL system
 - Each VM is connected via OCFS2 to an external SAN environment of 500 GB
 - All data is on the SAN except the MySQL DB
- Server specifics
 - Two HP blades with each blade containing three VMs
 - Each blade has 16 GB of RAM
 - CPU utilization is 1 to 5%
- ~800 concurrent users with no further hardware changes



Scalability Designs

- 5,000 users with 500 concurrent
 - Load balancing across 2 Teaming systems each utilizing 4GB of RAM with a high speed multi-core processor
 - Lucene index server split across two servers, each with 4GB of RAM and a high speed multi-core processor
 - SAN for storage of all systems except a DB cluster
- 8,000 users with 800 concurrent
 - Load balancing across 2-4 Teaming systems each utilizing 4GB of RAM with high speed multi-core processors
 - Lucene index server load-balanced across two servers, each with 8GB of RAM and a high speed multi-core processor
 - SAN for storage of all systems except a DB cluster

Scalability Designs cont'd

- 16,000 users with 1,600 concurrent
 - Load balancing across 4-6 Teaming systems each utilizing 4-8GB of RAM with a high speed multi-core processor
 - Lucene index server split across two servers, each with 4-8GB of RAM and a high speed multi-core processor
 - SAN for storage of all systems except the DB
 - DB cluster

Teaming Road Map

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Novell Teaming “Cortez” Detailed Features

2009

2010

2011



Features

- GW Integrations: Calendar & Task
- GWIM Presense integration*
- Bristol Integrations*
- Mobile UI
- Graphical Landing Page creation
- Workspace Import / Export
- Workspace Trashbin (undelete)
- Workspace Data Quota
- Identity Driver*
- Bug fixes

Benefits

- GW integrations address number one integration expectation with GW customers.
- Mobile UI will provides an effective way to access Teaming information from any web enabled phone.
- Drag and drop functionality to create /modify landing pages is much more intuitive. Increase ability to leverage Teaming for small intranets.
- WS import/export is mostly a partner play. Allows them to create practices around Teaming that can easily be imported.
- Improved control over disk usage
- Ability to leverage investment in identity solutions.

Novell Teaming “Durango” Detailed Features

2009

2010

2011



Features

- GW Integrations: email storage & Doc attachments.
- Graphical Forms creation
- Implement more standard UI for Wiki and Discussions
- Simplified Access Controls
- Exchange Connector – Calendar & Task
- Office Integrations – Save As
- Invited External Users*
- Embedded Video
- Expanded Personal Profile
- Bug fixes

Benefits

- Addresses top integration value prop between Teaming and GW. Much higher value now with GW customers as opposed to alternative solutions.
- Easier adoption and usage of key Teaming functionality
- Integrations now speak to larger audience than just GW.
- Securely and effectively allow external participation in Team projects.
- Allow insertion of YouTube type content in entries
- Enable creation of LinkedIn type profile in personal workspace. Facilitate expertise location.

Novell Teaming “Evergreen” Detailed Features

2009

2010

2011



Features

- Last planned update in 2.x line
- Mostly a bug fix release
- GW Integrations: Search & Contacts
- Graphical Workflow creation
- Notes Connector – Calendar & Task
- Survey improvements
- ECM Integrations
- Initial GW DMS Migration Tool

Benefits

- Additional integrations with GW. Can now share contacts and search across both resources.
- Graphical workflow creation
- Initial integration with Notes
- Initial GW DMS to Teaming migration tool for basic use of GW DMS. Advanced DMS use migration will follow.
- Ability to share and search content between Teaming and ECM solutions.
- Note: This is mostly a maintenance release as most resources will have shifted to Firestone.

Novell Teaming “Firestone” Detailed Features

2009

2010

2011

2012



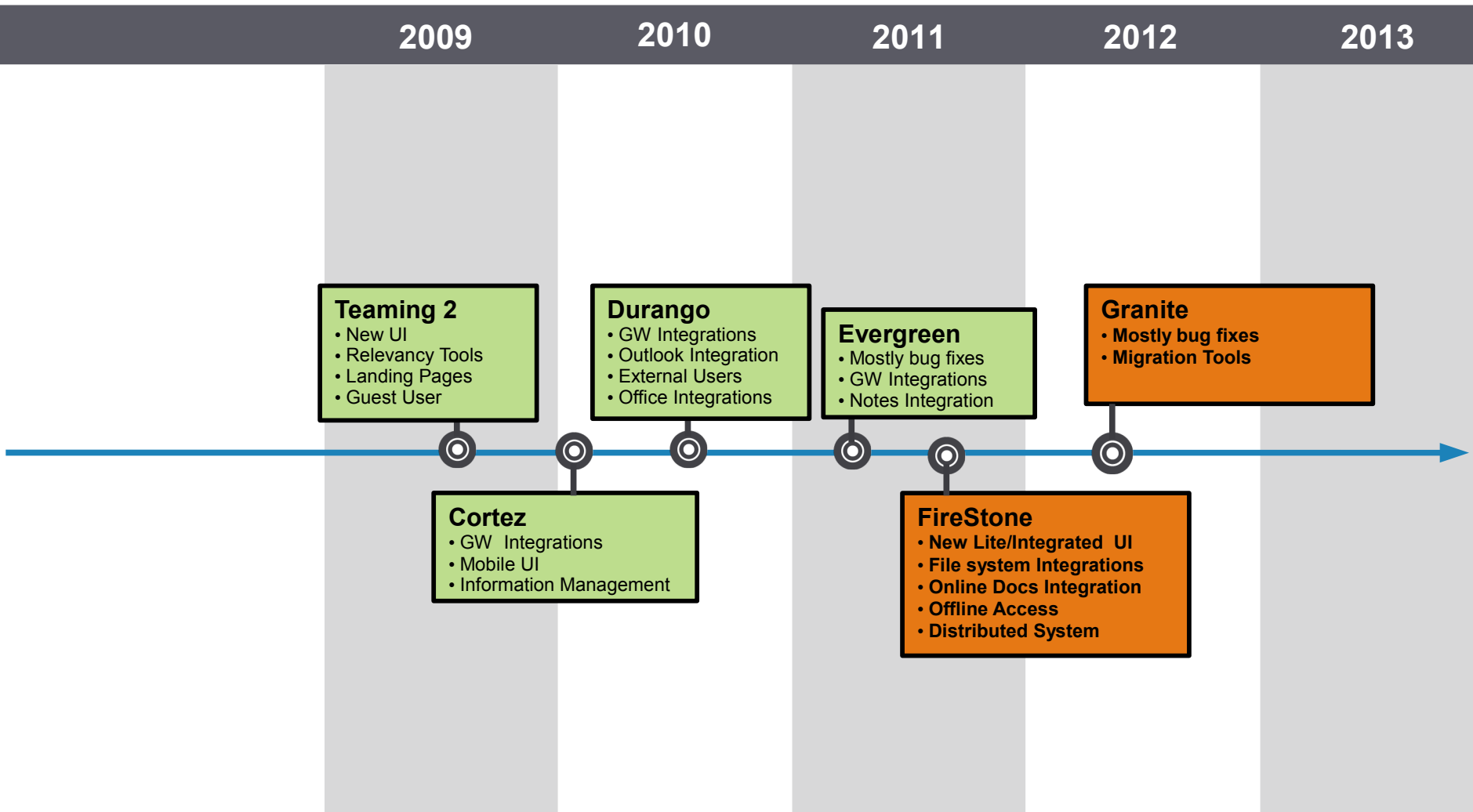
Features

- New UI
- File System Integration
- Online Docs Integration (Google Docs, Web Office, Wave)
- Offline Access
- Distributed System
- Improved Project Mng – Gant charts, dashboards
- Migration tools for common wikis, list servers, discussion tools, etc.

Benefits

- New Lighter UI. Much more intuitive. Facilitate faster adoption and will require less end user training.
- Leverage information investment already in file system. Based on identity, automatically connect to file based information and surface it in Teaming.
- Easily save files into Teaming without having to do it from Teaming.
- Connect distributed Teaming systems together.
- Task management parity with GW with Gant charts for improved Project collaboration in Teaming.

Novell Teaming Summary



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