CERN Content Management System Support ATLAS Requirements

> S. Goldfarb - 19 May 2010 (On behalf of the ATLAS Collaboration)



ATLAS Web Usage

- Internal Collaboration Pages
 - News, Meetings, Announcements, Results
 - Operation Pages
 - Project Coordination Sites
 - Analysis Discussion and Document Sharing, Tracking
 - Communication via Text, Image, Video, Webcast
 - Varying Levels of Authorization (By E-Group)
- Outreach Pages
 - Multimedia Serving, News Feeds, Blogs, Announcements
- Database Interfaces
 - Typically Python, PHP, Perl on Oracle, MySQL



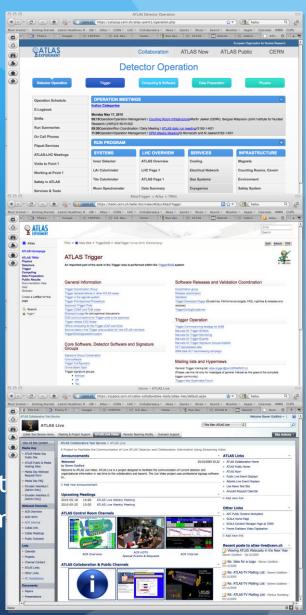


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ATLAS Requirements - S. Goldfarb

ATLAS Web Environment

- Multi-Platform Development
 - Linux, Mac, Windows
 - Web-Based, Dedicated Editor, Application
 - Coding in html/css
 - TWiki Pages
 - SharePoint Sites
- Cross-Browser Usage
 - Firefox (Mozilla), Safari, Internet Explorer
- A Few ATLAS Statistics
 - Web: 1100 html, 132 php, 70 py
 - Public TWiki: 8712 topics, 51,871 attachment
 - Protected TWiki: 2931 topics, 24,745 attachm
 - SharePoint: 99 sites, 36,689 items





Problems We Are Trying To Solve

- Development & Maintenance
 - Professionals now trained to develop with CMS
 - ~ 1kCHF to develop site using templates
 - ~ 10kCHF to develop site using html/css
 - Maintenance by Conveners, Coordinators, Users
 - Changes to Content & Design
 - Variety of Platforms & Browsers
 - Need Web-Based Development Tools



Problems We Are Trying To Solve (2)

- Missing or Partial Functionality
 - Searchability, Findability & Navigability
 - RSS Capability
 - Consistent Authorization Handling
 - Database Interfaces
- Improved Web Management
 - Consolidation of Existing Sites
 - Creation of Consistent, Common Environment
 - Reduction of Data, Information Replication
 - Identification, Removal of Stale Content



Content Management Systems

- What Is A CMS To ATLAS?
 - Collaborative Web Development & Maintenance
 - Tools For Data & Information Sharing
 - Tools For Collaborative Communication
 - Tools For Workflow Management
- What Should A CMS Do For ATLAS
 - Facilitate Maintenance
 - Reduce Content Replication
 - Provide Platform & Browser Independence
 - Create Clean, Standard-Compliant (xhtml) Web Pages
 - Improve Searchability, Findability, Navigability
 - Provide Forward Compatibility
 - Help Us To Catch Up With The Rest Of The World



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Constraints Of Existing Systems

- What Must Be Supported (And Improved)
 - Interfaces to Oracle
 - Interfaces to CDS (Or Equivalent System)
 - Interfaces to Indico
 - Interfaces to TWiki (Or Means To Migrate)
 - Information Protection Via E-Groups (Or Equivalent System)



Expectations From CERN Infrastructure

- Support LAMP (Linux, Apache, MySQL, PHP)
 - This Forms Basis For Installation Of A CMS (already in place for TWiki)
- Install & Support One OpenSource CMS
 - Install Some Basic Interfaces
 - SSO, CDS, Indico, Oracle
 - Create Some Example Templates
 - Provide Expertise, Backups
 - Provide Means To Migrate SharePoint, Replace TWiki
 - Potential OpenSource xhtml-compliant Candidates:
 - Joomla! (Possible Oracle Problem), Drupal, Plone (Python, PHP)



References

- ATLAS Web Pages
 - Home Page (New Design) <u>http://cern.ch/atlas</u>
 - Outreach Site (Maintained at LBNL) <u>http://atlas.ch</u>
 - Collaborative Tool SharePoint Site <u>http://cern.ch/atlas-collaborative-tools</u>
 - ATLAS Live Webcast SharePoint Site <u>http://cern.ch/atlas-live</u>



References

- CMS Information
 - Wikipedia Enterprise Content Management <u>http://en.wikipedia.org/wiki/Enterprise_content_management</u>
 - Wikipedia Findability http://en.wikipedia.org/wiki/Findability
 - SharePoint and Web Standard Compliance
 - http://www.cmswatch.com/Blog/1218-SharePoint,-accessibility,-and-webstandards
 - GOOGLE Support for RDFA
 - http://rdfa.info/2009/05/12/google-announces-support-for-rdfa
 - Information On How To Choose A CMS

<u>http://www.webdesignerdepot.com/2009/01/how-to-choose-the-right-cms</u> <u>http://webmasterformat.com/blog/how-to-choose-cms</u> <u>http://www.wareprise.com/2009/02/20/a-simple-comparison-between-alfrescoand-sharepoint</u>

