

Present: John Ferguson, Lars Hagge, Tom Markiewicz, Rich Stanek, Nobu Toge  
Observers: Kevin Munday, Elizabeth Clements, Monique Hronek

A first draft of an ILC DMS requirements document has still not been produced. Nonetheless, a spirited discussion, inspired by the very relevant 1995 CERN DMS specification document ensued.

Subject to regional confirmation, those present felt the DMS needed to support English only.

Requirements include:

A web browser interface must be available for the general user (client)

- Web browser interface must be platform independent and browser independent
  - Special plug ins may be required for enhanced CAD viewing if freely available
  - Alternative interface into the system may be required to use the DMS system integrally with the CAD system
  - Alternative interfaces may also be required for DMS configuration by DMS system administrators, for special DB applications, etc.
- It appears that the UGS TeamCenter Enterprise / Engineering product being suggested by DESY/Fermilab provides both a web browser interface for the casual user and an interface through several CAD systems for the engineer/designer. Additionally, the product provides a selection of viewers & mark up tools(as browser plug-ins) for simple interactions of non-CAD-equipped personnel with CAD files stored in the system. The most basic of these (simple viewer) are free; there is a charge for enhanced plug-ins. This does not violate the spirit of no-cost client access.
- “Easy-to-use” but still undefined user-authentication procedures
  - There appears to be new regulations on the horizon for the US DOE based labs. It remains to be seen how this will impact US hosted servers, but it appears to be more strict than the current regulations.
- Robust, backup-able, scalable
- Mirror-able:
  - The amount of traffic foreseen is low by business standards, yet, if there is substantial exchange of large files through the CAD part of the system, with poor response time, users may abandon it.
- Transaction logging
- Functions:
  - Upload
  - Download
  - Update??
  - Delete??

- Searchable
  - Nature of search yet to be defined or discussed
    - Structured
      - Pull down lists of values of predefined fields
        - This allows common interface features which make data from disparate areas of the project accessible and findable by others
    - Unstructured
      - “Google-like”
        - Collections of user-created tags without grouping into tag types

It was agreed by all that the final system would need to be configurable. It is here that the conversation digresses from basic requirements into system design. Nonetheless, it seems clear that the committee must define the basic concepts that the chosen systems will need to support. These concepts include:

- Different user types with differing privileges
- Labs
- Regions
- Work groups
- Collection of work groups
- Conferences
- Meetings
- Seminars
- Work flow (permissions before release of a document to the next level)
- Revisions
- Public/private
- Final/ Draft
- Tags
- Talks
- Authors
- Collection
  - Authors
  - Files
  - Talks
- Notification

System design questions will include:

- File types
  - Null (metadata only); no attached file
  - Single number
  - File
- Excluded

- Collections of other individual numbers
  - It would be good to store LINKS to other data bases, but it is not foreseen to turn the DMS system into a user-accessed database for arbitrary data. Examples of this kind of data include:
    - Mechanical drawing specification schemes used by individual labs
    - Quality Control Data
    - Configuration specifications
- File sizes
  - Arbitrarily large
  - Excludes “data” collected, either by quality control teams, accelerator operations or experiments
    - Again, system should report reference links to this data but not store it per se within the DMS

#### Upcoming GDE-DMS activities:

- Next meeting: Monday 24 Oct 2005
  - 0430 Hawaii
  - 0930 Fermilab
  - 1630 CERN/DESY
  - 2330 KEK

#### Upcoming tests of potential systems

- Feb 7, post meeting: Don Mitchell & Larry Carpenter will demo the Fermilab instance of the UGS supplied “Team Engineering” or “Team Enterprise” software
  - [www.ugs.com](http://www.ugs.com)
  - Impressions
    - This is an enterprise engineering product. Issues include
      - Configuration for a physics oriented project like ILC
      - Cost
- Sometime between 2-4 November 2005: Lars will Demo DESY system

#### Action Items

- John promised to find a date/people to demo appropriate parts of the systems in use at CERN

#### Other items of interest

- 10-14 October HEPiX meetings at SLAC
  - Tom attended collaboration tools day. Impressions:
    - All physics inspired virtual communication tools are being configured to work with InDiCo. We would need a strong reason NOT to choose this product for ILC meeting management
      - VRVS
      - Some UK based GRID like think

- InDiCo data base can be back-loaded into CDS even though they do not share the same data base per se
- CDS lacks basic “work flow”; while important CERN documents employ their EDMS system, which has strict work flow
  - This seems like a terrible waste and apparently it has caused much personal conflict in the group doing this kind of software at CERN

Final comment (from Tom)

- Use InDiCo for meeting management
- Keep engineering DMS choice open for now
- Discuss DOCUMENT (BCD, RDR) management at next meeting.
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