

### **ILC EDMS Status**

Tom Markiewicz/SLAC Vancouver GDE/ALCPG – SiD Meeting 23 July 2006



- John Ferguson CERN Lars Hagge \* - DESY Tom Markiewicz\* - SLAC (Chair) Richard Stanek\* - FNAL Nobu Toge\* - KEK Harry Weerts\* - Argonne
- \* = present at Vancouver

# Charge to the Committee

The committee should recommend a specific web based software solution, which may mean an integrated collection of distinct software packages that will allow ILC collaborators worldwide to store, search for and retrieve various kinds of documents.

At least three basic kinds of documents must be handled:

- 1. meeting/conference/seminar related files
- 2. publications/white papers/notes and
- 3. engineering documents:
  - CAD drawings, cost estimates, vendor quotes, and QC documents.

# Anti-Charge to the Committee

The recommendation of other related virtual communication tools may be made if they enhance the functioning of the basic document management system. Such tools may include calendars, agendas, emailing lists, email notification, discussion forums, usermodifiable ("wiki") web pages for interactive working group documentation, etc. The recommendation or incorporation of these tools should be considered secondary to the selection of system that supports the core functions of storage, search and retrieval.

Project management tools (WBS, scheduling, resource planning) are outside the scope of current charge.

### Access to Tools Through EDMS Web Page: Possible Solutions

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-	www.linearcollider.org/wiki/doku.php?id=i s_selection_home	lc_dms_selection



Access to Tools Through EDMS Web Page: Possible Solutions

ossible Solutions	Table of Contents
InDiCo	• Possible Solutions     • InDiCo     • CERN Document Serve
<ul> <li>InDiCo Home Page</li> <li>The CERN InDiCo Server</li> <li>Note that ~20000 meetings recorded in the CERN CDS Agenda have been (as of 2006.01.17) of being migrated to the InDiCo production server.</li> </ul>	(CDS) • SLAC WBS Tool converted to InDiCo and are in the pro
Slides presented during InDiCo demo at 2005.11.08 meeting of by Thomas Ba Talk on InDiCo given at 2005.10.10 HEPiX meeting at SLAC by Thomas Ba	
Proposed InDiCo Tree Structure for ILC and Related Questions	
InDiCo Questions and Answers InDiCo Bugs Reported by Users InDiCo Wish List Items Submitted by Users	
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# Status of ILC EDMS

#### **Recommendation of a product suite made:**

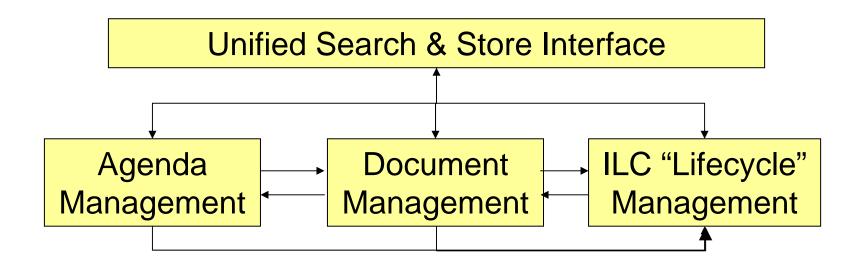
- InDiCo meeting management
- CERN Document Server general documentation
- UGS TeamCenter CAD and ILC "Lifecycle Management" (jargon for: part design, versions, manufactured instances, QC, installation, operation, maintenance & decommissioning)

#### **ILC Specific servers have been commissioned**

- InDiCo: http://ilcagenda.cern.ch/
- CDS: <u>http://ilcdoc.cern.ch/</u>
- Collaborative CAD among DESY/FNAL/INFN using DESYhosted UGS TeamCenter in progress

Planning for ILC-devoted configuration and technical support of these products with management of the big laboratories in progress







- Lack of integration between separate elements of system
  - Integration Indico-CDS promised by CERN
  - Integration CDS-EDMS promised by DESY
- Immature development of DESY Teamcenter system
  - We have time
  - CERN may in the future be able to help
- Same ambiguity between CDS and EDMS "work flow control" that exists in current CERN system
  - Assume a "physics" (CDS) versus "engineering" (EDMS) split as has apparently been successful for LHC

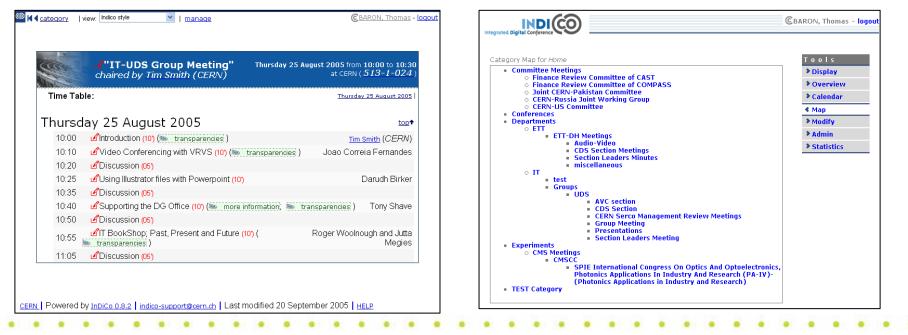
# Nutshell Reasoning behind Decisions

- Monolithic approach does not exist at DESY, CERN or Fermilab
- DESY EDMS has potential to integrate all needs, but this is >= 2 years away (imho)
  - Use of this system for ILC will be "free" to all ILC users
- CERN Indico & CDS are large scale supported systems with enough flexibility in configuration to handle any conceivable ILC need
  - DocDB from Fermilab (BTev) rejected since:
    - Not offered as Fermilab supported product for ILC
  - Belief is that CERN CDS can be configured to be equally user friendly and with better support, scaling model
- DESY/FNAL/XFEL tie-ins cannot be ignored



### InDiCo: Description

- Outgrowth of CDS Agenda server with improvements directed towards conferences & workshops with continued support for meeting series & lectures
- Active development by-and-for physicists with integration with other meeting services (VRVS, video nets, etc.) planned
- Tree-style organization with search engine to cut through tree



### ILC InDiCo Server: Status

	WICZ, Thomas - logout
Home	T o o l s < Display  Overview  
Categories:	Map Modify
Q     III Institutions (31)	> Admin
Q       III Machine Design (18)         Q       III Detector Design & Physics Studies (0)	Statistics
Image: Conference and Workshops (3)	-
🭳 🏢 ILC-related Presentations Given at non-ILC Specific Events (0)	-
🔍 🏢 Test Area (6)	_
The Indico tool allows you to manage complex conferences, workshops, and time-tables of meetings, to attach multimedia files to each event item and to store the resulting agendas in a multi-level hierarchical tree. If you want to use it for CERN-related projects, please contact Indico support. Non-CERN institutes may install the Indico software locally under GNU General Public License (see the <b>project web site</b> ).	-
ERN   Powered by Indico 0.8.13   indico-support@cern.ch   HELP	

Basic category "tree" implemented "Managers" appointed for each category Beta-testing in progress: ~500 meetings in system (up from 50 in March) Questions fielded by local experts or punted to CERN when required Start of a "Wish list," "Bug List" & "Q&A" on EDMS wiki

2006.07.23 Vancouver GDE

#### **CERN** Document Server: Description :lr İİL CERN Document S CDSware **LSware** http://cdsware.cern.ch CERN Document Server integrated digital library software is a flexible system to run an electronic preprint server, an online digital library or a document repository on the web. It is especially ... to run your document repositories suited for the management of large and complex data system: **Key features** Outgrowth of CERN configurable portal-like interfaces for rious kind of collections **Preprint & Library Server** • Used by many institutes nd email notification alerts al interface (14 l world wide (GNU nt (UTF-8 t to Open Archiv free software (GNU GPL distribution) Try the CERN server : http://cdsweb.cern.ch/ Visit the project website : http://cdsware.cern.ch/ http://cdsware.cern.ch/ Contact us : cds.support@cern.ch At CERN, more than 500 collections: 2CD5ware **QCDS**ware Navigable collection tre Flexible metadata All types of documents Regular and virtua et. Web Web - Public or private books, theses portalboxes for eac photos, videos nuseum obie collections At CERN, over 800.000 and more documents in 500 Customizable display and linking rule Approval process if Powerful search engine User personalisation Specially designed indexe provide Google-like search desired need for repositories of up to 1,500,000 records Customizable simple and advanced search interfac wailable in Catala - 200,000 queries/month; ed metadata, fullte Czech, German and citation search in one of Greek, English Spanish, French Italian, Norwegian ~1M records Portuguese, Russian

Multiple output formats :

HTML XML MARC OAT

Slovak, Swedish and Ukrainiar



ILC Document Server :: <u>Search :: Submit :: Personalize</u> :: <u>Help</u> Powered by <u>CDSware</u> v0.9.0.20051220 Maintained by <u>cds.support@ccem.ch</u> Last updated: 21 Feb 2006 11:10.28 CET

Site created so that ILC can understand how to best set "collection" types, "category" types and work flow (approval chain)

NO ILC customization or testing done yet

No ILC Beta tests of critical documents (BCD,RDR) or collections (TN-2006-0001)

### CDS Config to be decided for ILC

#### Types

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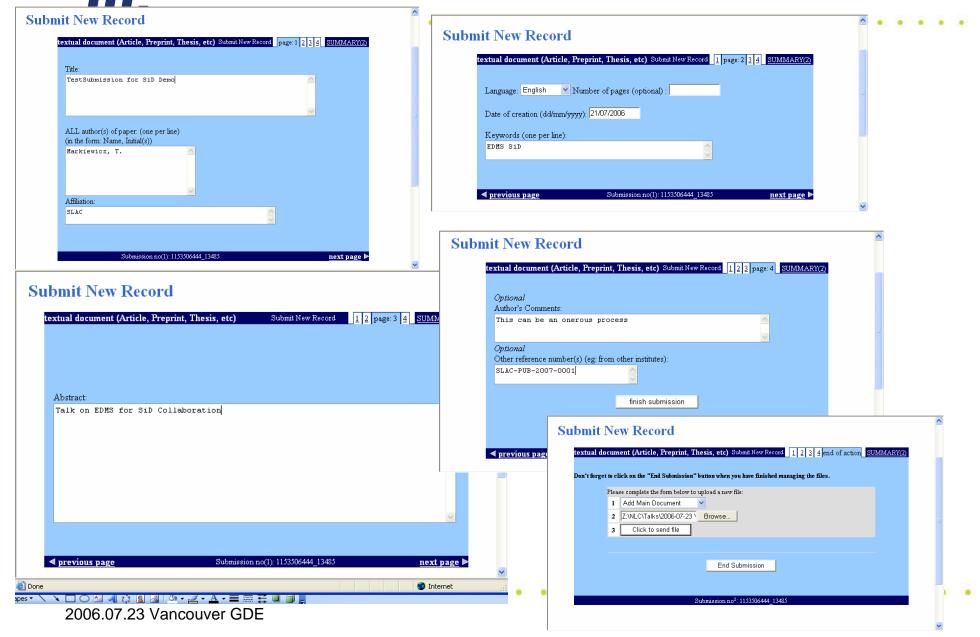
- Notes
- Files
- Preprints
- Reports
- Books
- Photos
- Optics Deck
- Meetings
- Contracts
- Publications
- Memos
- MOUs
- Contract

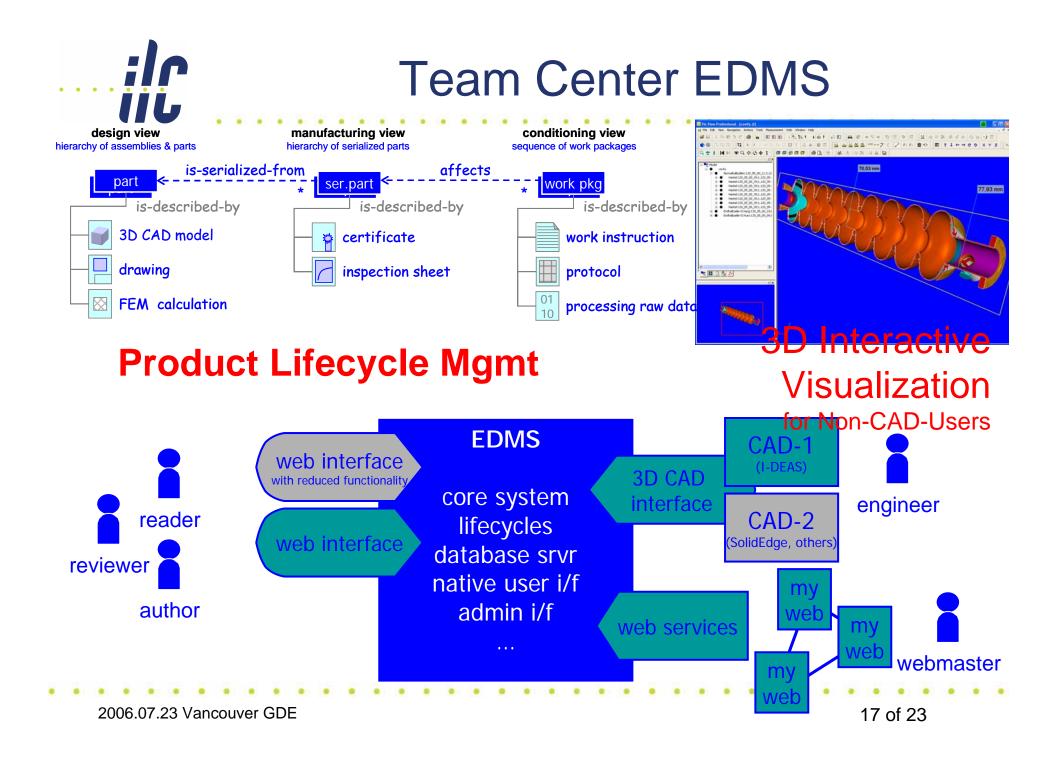
#### Collections

- Working Group
- Lab Division
- Project
- Theses
- MAC
- EC
- Detector "Concept"
- Detector "Collaboration"
- Detector Concept/Subdetector
  - SiD/Calorimeter (e.g.)

Together with required "tag" info for each type of doc/collection

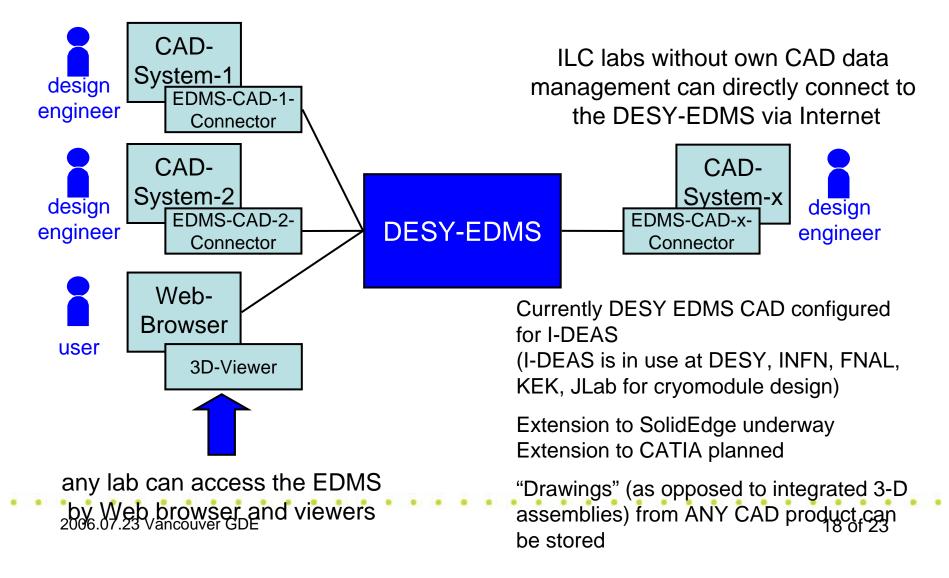
### Submitting MetaData with the File



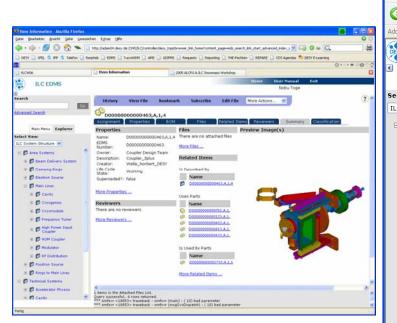


# ILC CAD and Engineering DMS

DESY operates a Web-based EDMS with Multi-CAD connectors

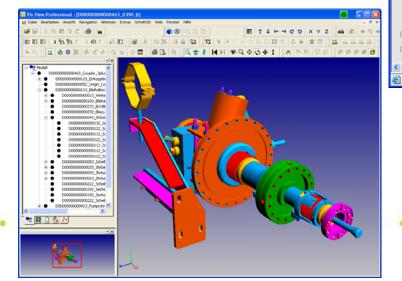


#### **DESY EDMS Web Client showing part data**



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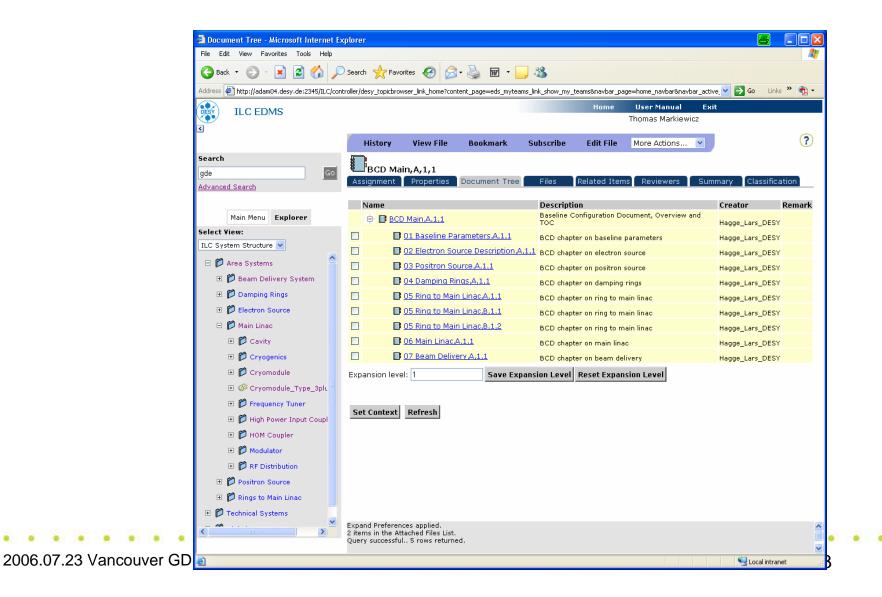


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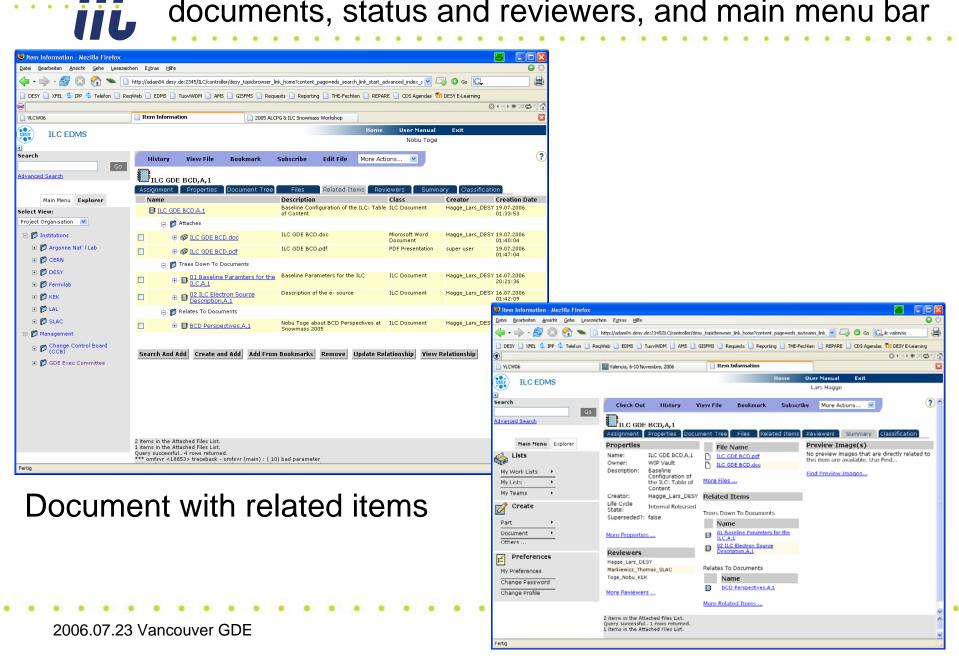
 component summary tab (top left) •bill of material (top right) •JT viewer with 3D Data (bottom left)

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# Teamcenter Document Tree



## Document summary showing attached files, related documents, status and reviewers, and main menu bar



# Implementation Plans & Time Scale

Near term: Given moderate resources,

- Configure CDS according to work group (area, technical, detector) needs/desires and beta test critical (BCD,RDR) documents
- Tie together CDS and InDiCo and enable search
- Bells & whistles on InDiCo (eg: time zone awareness)
- Longer Term: With continuing resources
  - Common authentication protocol
  - Configuration of TeamCenter "Teams" and "Product Breakdown Stucture"
    - Cognizance of RDR matrix, WBS, ILC Org chart, etc.
  - Extension of Teamcenter to more institutions and more CAD systems
  - Tie together TeamCenter with InDiCo/CDS tools





- Backfilling important collections of papers and talks
- "Enforcement" of use; abandon legacy systems
- Tie in with wiki-based ILC web sites through URLs
- Better documentation
- Better error reporting/status thereof
- Better user feel
- ILC (or Si D, GLC, ..) "branding"

### **Politics and Implementation**

Teamcenter and DESY Support:

- Barry will write DESY a letter specifying that ILC will adopt Teamcenter
- Two devoted support people will be hired solely for ILC

InDiCo-CDS and CERN Support:

- Upon DG mandate, independent committee chaired by James Purvis advises CERN to ADOPT ILC SOLUTION for CERN use
  - See ILC EDMS Wiki for full report
- DG , due to 600-person 2006-10 layoffs, rejects advice and asks ILC for \$\$ for 2 FTEs to support these tools
- Barry will write DG to
  - Confirm that CERN will continue system (hardware) support
  - Say that ILC will provide its own application support and request continued collegial collaboration in application development

New ILC Web-Specialist Maura Barone will configure/support CDS Barry will continue negotiations with FNAL, SLAC, KEK, etc. for more IT support