

CDS and the Management of Multimedia Documents

Thomas Baron

Tibor Simko

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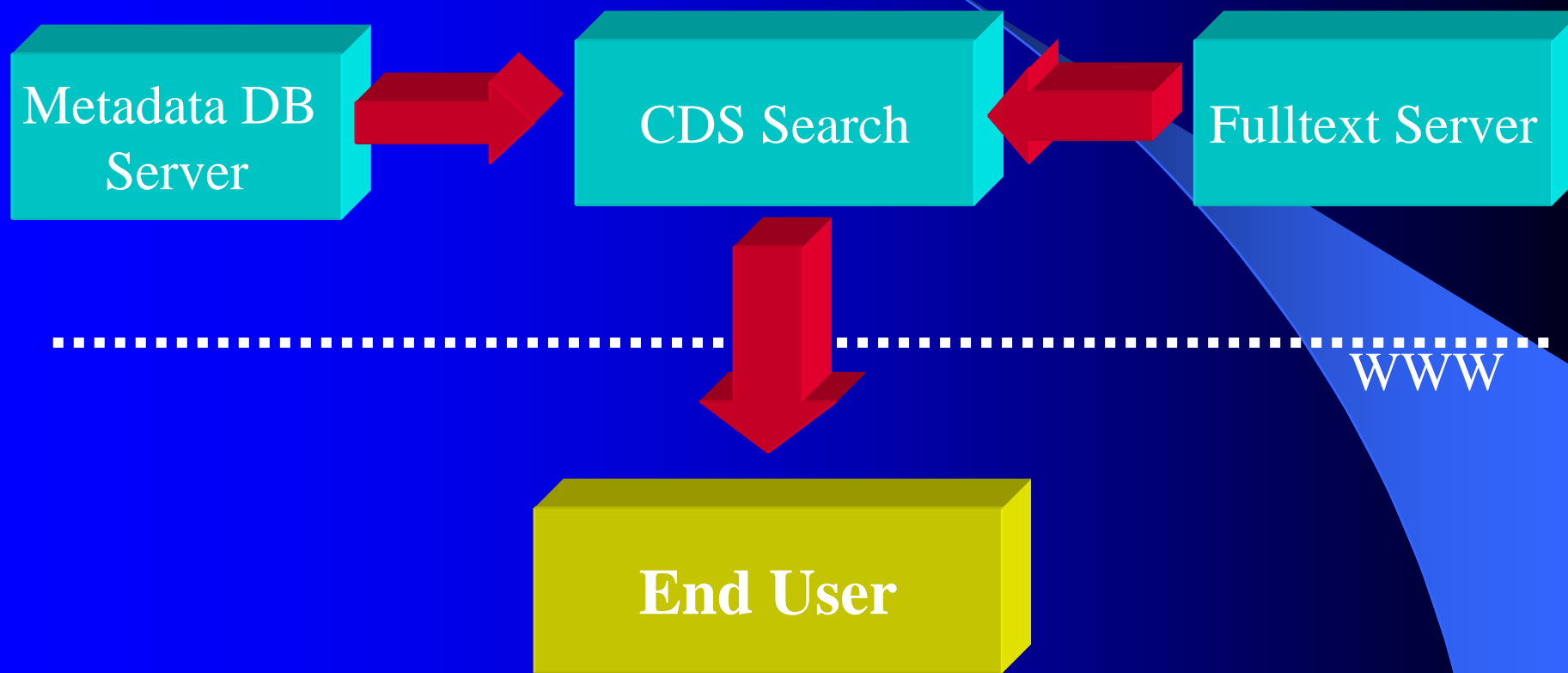
Outline

1. CERN Document Server
2. Multimedia Documents in CDS
 - Description
 - Acquisition
3. CDS Agenda
4. Video Processing
5. INDICO
6. Conclusions

1 – CERN Document Server

- All particle physics literature since 1950
- And related areas documents:
 - Astrophysics, Mathematics, Life at CERN...
- 550,000 documents in more than 200 collections
- 220,000 fulltext files (preprints, photos, theses...)
- Originally developed on top of Aleph 300 in 1994
- Now free software (CDSware:
<http://cdsware.cern.ch>) fully ALEPH independent.

1 – CERN Document Server



2 - Multimedia Documents in CDS

Description

- More than 10 multimedia collections.
 - Videoclips, pictures, objects, slides, posters...

2 - Multimedia Documents in CDS Description

- Data formats + Services
 - Pictures:
 - Automatic thumbnail creation (gif)
 - Several sizes/resolutions/conversions proposed (original in jpeg)
 - [Example](#)
 - Videoclips
 - Manual thumbnail creation (gif)
 - Proposed format Real Media (.rm)
 - [Example](#)
- Metadata format
 - Internal representation: MARC21
 - Several possible output formats
 - Photo [Example](#)
 - Videoclip [Example](#)

2 - Multimedia Documents in CDS

Acquisition

- Web Submission form (CDS Submit)
 - Metadata collection
 - File transfer
 - Thumbnails creation
 - Approval process
- Agenda Module (CDS Agenda)

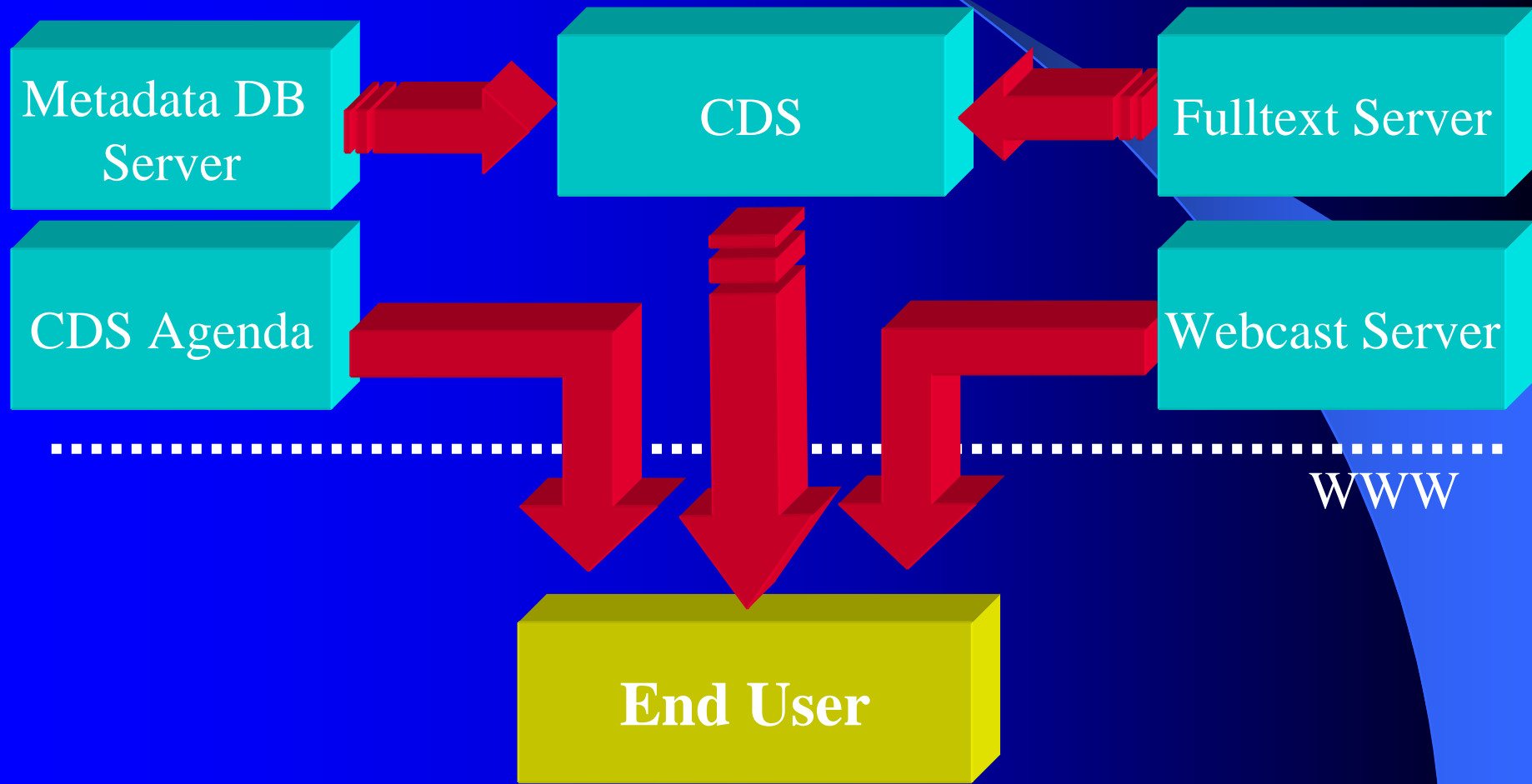
3 – CDS Agenda

- Started 1999 – ATLAS Experiment
- Now widely used
- Stores meeting time-tables ...
- ... And associated multimedia files
- 2500 Agendas
- 15000 files
- <http://agenda.cern.ch>

4 – Video Processing

- Seminars and conferences are recorded and webcasted
- Specific data format needs specific file server (streaming): <http://webcast.cern.ch>
 - RealMedia format
- Added value:
 - Link videos and transparencies together
 - Timing acquisition (automatic when using MS Powerpoint, but manual when using mere slides)

Recap...



5 - INDICO

- INtegrated DIgital COnference
 - <http://indico.sissa.it>
 - EU funded project over 3 years
 - One centralized server for storing conference announcements
 - One locally installable software for managing a conference.
 - High Tech features:
 - Soundtrack indexing
 - Automatic video storyboarding

6 - Conclusions

- **CDSware**: Open source software capable of handling multimedia documents
- **CDS Agenda**: Open source Workshops and Meetings storage system
- **INDICO**: Conference Management Software

Your Questions

<http://cds.cern.ch>

<http://cdsware.cern.ch>

<http://agenda.cern.ch>

<http://webcast.cern.ch>

<http://indico.sissa.it>