

# JACoW Database Workshop

## Design and Implementation sessions report

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# Database design

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EPAC'02 and PAC'01 databases appear quite similar in design and functionality.

A certain type of 'merge' is possible.

They both can manage:

- Authors, contacts, roles
- Affiliations, countries
- Abstracts
- Classifications and sessions (even if the terminology is different)
- Paper processing

# Database design (2)

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EPAC'02 DB also covers:

- Comprehensive actions logging
- Semi-automatic file retrieval from the file server
  - separate VB application used during the conference

PAC'01 DB also covers:

- paper storage in the DB
  - revealed problematic, way not to be followed

PAC'03 DB (in development) will also cover:

- Semi-automatic e-mailing to author groups (e.g.: those who did not send copyright form)

# Database design (3)

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They do not cover:

- Delegates
- Multiple affiliations per single author
- Different affiliations for different contributions for same author

Semi-automatic processing of 'publications'

- abstract booklet
- CD-ROM and proceedings
- the data is extracted from the DB and 'used' by external procedures

# Database design (4)

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## 'New' needs

- Automatic file down- and up-loading for editors
  - Less prone to errors
- Automate as much paper processing and publications as possible
- Manage APS, EPS, etc. membership to allow for possible registration reductions
- Manage participants' itinerary
- Program and itinerary download to PDA's
- Manage delegates (low priority)
- Authors notify of paper processing status
  - in addition to the 'dots'

# Software design

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What have been used:

## ■ PAC'01

- Database: Oracle 8 under Windows
- Language: PL/SQL packages, Oracle Forms (offline)
- Web: Oracle Application Server on the same server

## ■ EPAC'02

- Database: Oracle 8i under Solaris
- Language: PL/SQL + ASP
- Web: MS IIS 5.1 on another server
  - ActiveX component for file upload
- Import/Export
  - ODBC to FileMaker, Access...

# Software design (2)

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What will be used:

- PAC'03

- Database: Oracle 8i under Unix
- Language: PL/SQL packages
- Web: Oracle iAS (from O9i) on the same server
  - custom version of Apache + mod\_plsql
  - PERL CGI for 'easy' file upload

# The new central JACoW DB

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A central repository/unique DB will be created, based on those of PAC and EPAC

- Central repository with:

- Profiles
- Institutes

- Local (per-conference) repository with:

- Paper Metadata
- Software Packages (PL/SQL)

# The new central JACoW DB (2)

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What modules (in casual order) & requirements

- Have a DBA
- Delegates management
- Submission of contributions
- Processing (Editor interface)
- File management
- Publications
  - Abstract Booklet
  - Proceedings
  - TOC, AI, page #-ing...
- e-mailing to authors
- Statistics and analysis

# The new central JACoW DB (3)

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## ■ Exporting capabilities

- Data export for small conferences that do not have Oracle
- Take-away package
  - the whole DB with data and logic
  - get and install on the conference 'local' server

## ■ Advanced features

- Uploaded filetype checking
- Personal itinerary creation
- Programme and itinerary download to PDA's
- Authors notify of paper status
- APS, EPS etc. membership consideration
  - related to delegates management

# The new central JACoW DB - dev.

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Who does what:

- Central repository with:

- Profiles **Christine** (populate with data)
- Institutes **Christine** (populate with data)
- Paper Metadata
- Software Packages (PL/SQL)

# The new central JACoW DB (2) - dev.

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What modules (in casual order) & requirements

- Have a DBA **up to each conference**
- Delegates management **(in wishlist)**
- Submission of contributions **Matt**
- Processing (Editor interface) **Matt & Pascal**
- File management **Matt & Pascal**
- Publications **Sara (+ Pascal & Christine)**
  - Abstract Booklet
  - Proceedings
  - TOC, AI, page #-ing...
- e-mailing to authors **Matt (PAC'03 dev.)**
- Statistics and analysis **John to ask PAC'03 what could be useful to know**

# The new central JACoW DB (3) - dev.

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## ■ Exporting capabilities

- Data export for small conferences that do not have Oracle **John**
- Take-away package **Matt - Jeff & Martin as install-testers**
  - the whole DB with data and logic
  - get and install on the conference 'local' server

## ■ Advanced features

- Uploaded filetype checking **Ivan**
- Personal itinerary creation **(during dev.)**
- Programme and itinerary download to PDA's **(during dev.)**
- Authors notify of paper status **(during dev.)**
- APS, EPS etc. membership consideration **(in wishlist)**
  - related to delegates management

# Milestones and more

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- September 1, 2003 - JACoW DB version 0.9 (beta)
  - Before that, tables will be populated and from this time functionalities will 'officially' be tested
- October 1, 2003 - JACoW DB version 1.0
- Tech. review meeting just before PAC'03

John will coordinate all the 'module developers'

- collect all the documentation and let it circulate to us all
  - from this Workshop/Meeting and development stages

A development mailing list will be set up

# Open fronts

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## JACoW and InDiCo

- Both are "new projects"
- JACoW has a lot of experience on the field
  - Knows very well every problem
  - Have some particularity
    - Paper processing
  - Community
- InDiCo has a lot of 'scientific' experience
  - Advanced tools for Information Retrieval
  - Multimedia
- Could they be integrated?
  - Contribute to InDiCo with requirements and issues
  - Study its modulability
    - Could JACoW paper processing be an InDiCo module?

Ivan volunteered to help keeping the contacts among JACoW and InDiCo (SISSA)