EVLA Data Processing PDR

Proposal Handling

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Project Description

Handle proposals from submission to time allocation

- Major functional requirements:
  - Submit proposal for using NRAO Telescopes
  - Select referee, Notify referee
  - Submit referee form
  - Prioritize proposal
  - Allocate time
  - Notify proposer
  - Submit observe script
System Users

• **Proposer**
  – submit proposal to use NRAO telescopes

• **Referee**
  – evaluate proposal

• **Staff Scientist**
  – oversee proposal management, control scientific aspect

• **System Administrator**
  – assist to staff scientist, control business aspect
Operational Model

Preparation

Verification

Referee

Rating

Scripting

Announcement

Decision

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Preparation

start

create new proposal

prepare proposal

view proposal

modify proposal

get instrument information

submit proposal

Verification

cancel proposal

check status

end
Verification

- assign subject code → Assignment
- select referee
- make referee template
- remind referral
- notify referee → Referee
Referee

Assignment

Referee

decline referee

Rating

fill referee form
Decision

assign time block

Final
Announcement

- end
- get result
- complete
  - prepare announcement
    - notify proposer
  - final review
    - make schedule
      - succeed
      - Final

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Scripting
Registration

User Registration

register
modify info
deactivate
verify Qualification
activate user
set role

Proposer
SysAdmin

AstronomerInfo
Submission
Referee
Time Allocation & Announce

- Scheduling
  - TA report
    - allocate time
  - CoverSheet
    - final check
  - ProposalStatus
  - AstronomerInfo
    - <<use>>
      - notify proposer

- SysAdmin
- Email
- Proposer
Design Options

• Complex system
• Many mature technologies available
• Similar system (order processing etc)
• Submission tool kit exists (Chandra, Gemini)

Goal: Easy to use
• Automation as much as possible
• Friendly user interface
Architecture

A mixture of HTTP forms, java applets, java servlets, java applications and java beans

- Backend: Oracle data base
- Frontend: thin web client / application
- Middle layer: servlet, Enterprise Java Beans
- J2EE server
User Interface
(proposer & referee)

start

login screen displayed

enter email and password

verify information

function selection screen displayed

set access right

proposal status table displayed

script

referral assignment table displayed

construct

modify

view

fill form
User Interface
(staff & administrator)

- start
  - login screen displayed
    - enter email and password
    - verify information
    - function selection screen displayed
    - set access right
    - proposal status table displayed

- end
  - [ logout ]
  - [ scripting ]
    - script
    - proposal
  - [ submitted ]
  - [ assigned ]
  - [ scored ]
  - [ rated ]
    - announce
  - normalize
  - prioritize
  - verification
  - check referee

Verification
Check referee
Normalize
Prioritize

Proposal status displayed
Proposal verification
Proposal check referee
Proposal normalize
Proposal prioritize
Proposal announce
Development Tasks

Design and implement
• Database schema, layout, rollover strategy
• User interface and user logic
• Business logic and components

Target:
• From submission to allocation
• For VLA and VLBA
• Prototype to prove the concept