EVLA Overall Software Design

Final Internal Review
Introduction and Overview
by Tom Morgan
Outline

• Design Team Charge
• Design Scope
• Design Process
• NRAO Observatory Model
• EVLA Software System Layout
“Develop an overall architecture and design for the EVLA software system including both M&C and e2e elements.”
Design Scope

- Description of Overall System
- Data (in general terms)
- Major Functions and their Primary Components
- Connections (Major ones and some next level)
- Data Stores
- Some Other Important Functions
Design Process

- Requirements Analysis
- Subsystem Decomposition
- Operational Analysis
- High Level Subsystems Layout
- High Level Subsystems Connectivity
- Initial Subsystem Specification
Design Process

• Definition of Terms
• Resolution of Terminology Conflicts (Both internal and with ALMA)
• Rectification with NRAO Models
• Rectification with ALMA Designs
NRAO Observatory Model

Observer

Proposal Submission And Handling

Observation Preparation

EVLA Sched

VLBA Control

ALMA Sched

GBT Control

EBLA Sched

VLBA Sched

ALMA Control

GBT Sched

Observer Domain

Mostly Telescope-Independent

Common Software

Telescope Domain

Mostly Telescope-Specific

Project Software

Data Capture

Telcal

Quick Look

Pipeline

Archive

Science Domain

Mostly Telescope-Independent

Common Software

Scientist

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