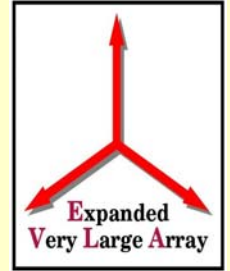


EVLA Overall Software Design

Final Internal Review
Introduction and Overview
by Tom Morgan



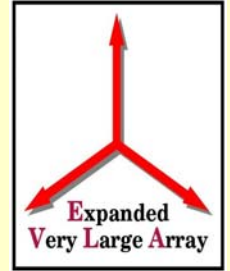
Outline



- Design Team Charge
- Design Scope
- Design Process
- NRAO Observatory Model
- EVLA Software System Layout



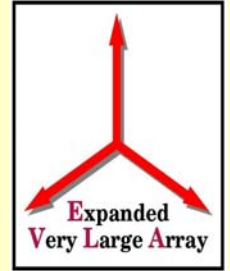
Design Team Charge



“Develop an overall
architecture
and design for the EVLA
software system including
both M&C and e2e
elements.”



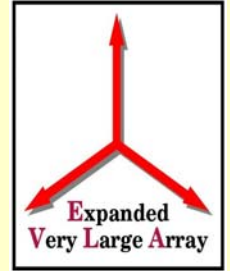
Design Scope



- 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



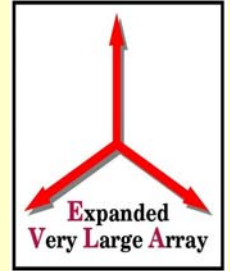
Design Process



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



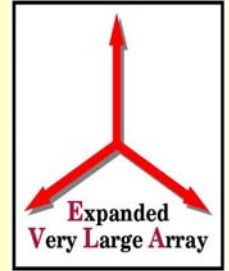
Design Process



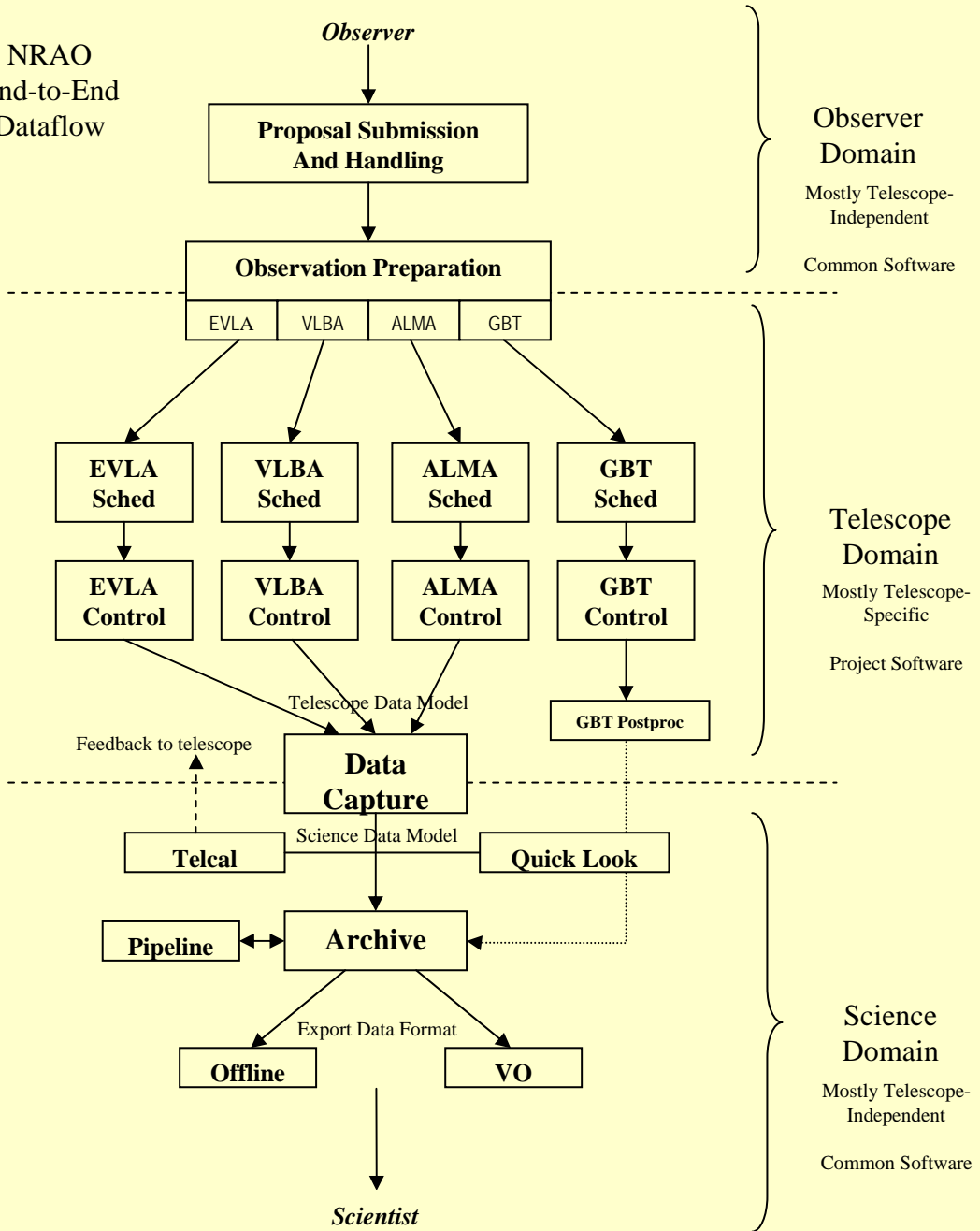
- Definition of Terms
- Resolution of Terminology Conflicts (Both internal and with ALMA)
- Rectification with NRAO Models
- Rectification with ALMA Designs



NRAO Observatory Model



NRAO
End-to-End
Dataflow



EVLA Top Level Data Flow Diagram

