





EVLA Monitor and Control

Monitor & Control Transition



Antennas



- Antennas Front Ends
 - ➤ Not all Front Ends Will Be EVLA Until 2010
 - F320 FE Transition Module
 - ◆ Interfaces up to Two F14's
 - Uses A/D Design by George Peck



Antennas



- Antennas Wye Monitor System
 - ➤ M302 Utility Interface Replacement
 - Wye-Com Cable Will Disappear
 - ◆ Reduce Two M&C Systems into One
 - > Consolidate Functions to Their Devices
 - Reduce Number of External Functions



Antennas



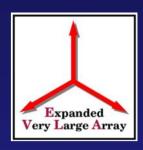
- Antennas ACU and FRM Systems
 - ➤ ACU & FRM System Replacements Not Part of EVLA Phase I
 - Bob Broilo Designed Interface
 - ◆ Interface is Between MIB and DCS System
 - ➤ ACU & FRM if Replaced Early Will be Paid by Operations or EVLA Contingency





- Control Building To Antennas
 - >EVLA Antennas Connect to EVLA M&C
 - Includes Transition Modules
 - ► SLC Operates VLA Antennas
 - Operates EVLA at VLA Baseband Until New Correlator is Installed
 - No VLA Baseband Transition for the New Correlator



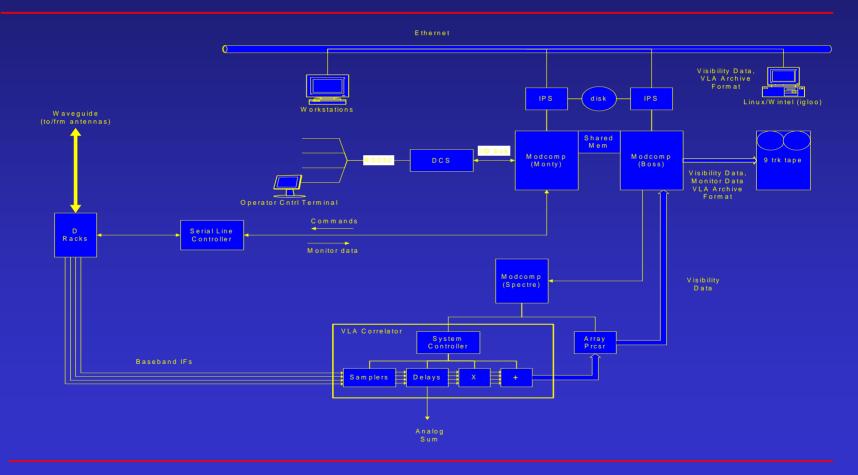


- Control Building to Master Rack
 - ➤ EVLA Master Rack Connected to EVLA M&C
 - >SLC Controls VLA Master Rack
 - > SLC is Connected to Modcomps
 - Upon Modcomp Retirement SLC will be Placed under Control of EVLA M&C



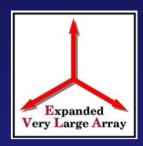
VLA

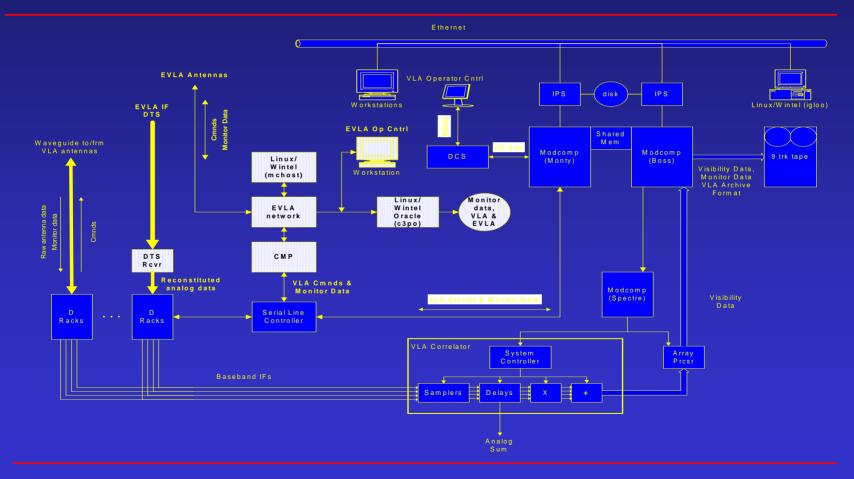






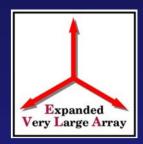
EVLA & VLA (I)

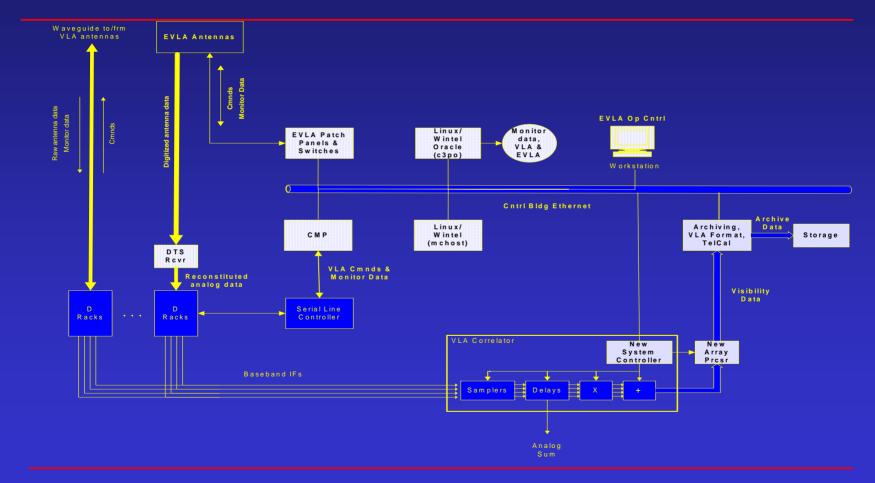






EVLA & VLA (II)



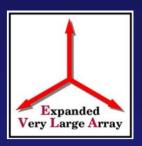






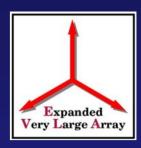
- Weather Station
 - > Connected to VLA Master Rack
 - Interfaces Re-Designed for EVLA
 - Modernized Weather Instrumentation
 - ♦ Fiber Run to Weather Station in Place





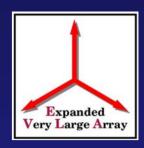
- Control Building to Wye Monitor System
 - > HVACs, UPS's, and Generators
 - Interfaces Re-Designed for EVLA
 - Fiber Runs to Generator Building, Etc.





- Control Building to Other
 - ➤ Atmospheric Phase Interferometer (API)
 - Modernized API for EVLA
 - > VLBI/VLBA Racks
 - ◆ Interface Hooks to EVLA M&C





- Control Building to Other
 - HTRP or Pulsar Equipment Racks
 - ◆ Stand-Alone Provide EVLA Hooks
 - New Correlator Provides Improved Capabilities for Pulsar Work
 - ➤ Pie Town Link
 - Modernized to EVLA in Future
 - Part of Phase II