EVLA M&C Hardware PDR

Voice Communications
Requirements

• Connectivity
• Functionality
• Impact
• Costs
Connectivity

- Vertex Room
- Pedestal Room
- Between antennas
- To VLA control building
- To AOC?
  - Existing AOC phones
  - Digital phones in AOC
- To other?
Functionality

- Fiber connected
  - Copper connected via media converter
- Two phones on same ringer
  - 1 Digital phone + 1 slave analog phone
- Intercom between pedestal and vertex rooms
- Loud speaker
- Off hook detect
Impact

- 56Kbit bandwidth demand
- Only competes with M&C network on 1 Gbit link to antenna
- Demand can be mitigated at router via priority rules
Costs

- $750 - $1000 / antenna
- ~ $3000 for central system
- ~ $500 / additional phone at VLA/AOC
- Connection to NMT PBX $10K
  - May not be necessary depending on connectivity constraints
- Cost Drivers
  - Connectivity to current phone system
  - Integration date