

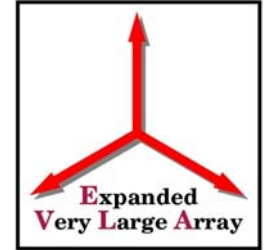


EVLA M&C Hardware PDR

Voice Communications



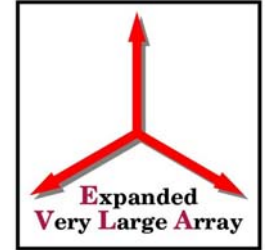
Requirements



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- Connectivity
 - Functionality
 - Impact
 - Costs



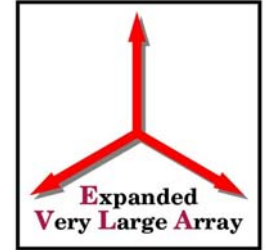
Connectivity



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



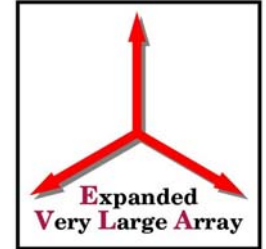
Functionality



- 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



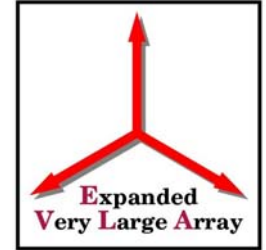
Impact



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- 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