

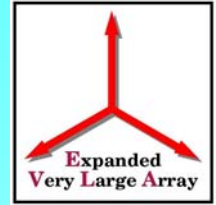
EVLA Data Processing PDR

Remote Observing

Tim Cornwell, NRAO



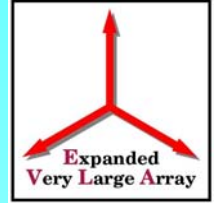
Background



- Allow observers:
 - To follow observing in real-time
 - To see results from pipeline in real-time
 - To query archive
- NRAO has not done this before
 - With the exception of the 12m
- Requirements not fully expressed yet



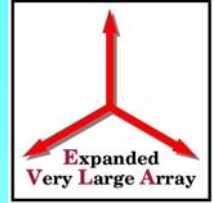
Requirements



- View dynamic summary of observing and related activities from any web location
 - Current setup of telescope (M&C)
 - All real-time monitoring devices (M&C)
 - Recent measured data (e2e)
 - Recent calibration results (e2e)
 - Any relevant results from pipeline (e2e)
- Maintain security and privacy
- Allow user configuration of display items, refresh rates, precisions, *etc.*



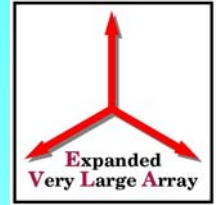
Design



- Does not yet exist!
- BUT
 - EVLA M&C displays will be “remote-able”
 - e2e displays will be “remote-able”
- Need to provide registration facilities
- Single point of access for observer
- Use of smart clients to reduce bandwidth needs?
 - *e.g.* CARMA Data Viewer
 - Related to publication problem that NVO is addressing
 - Use of standard formats (*e.g.* VOTable) to ship data



Plan



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- Refine scientific requirements
 - Collaborate with EVLA M&C on initial design
 - Prototype as required interfaces become available