



# The Access Grid Node:

The Operator's Manual

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# Node Operator Responsibilities

- Node Startup
- System Tests
- Runtime Adjustments
- Participate on the mud!!!

# Operator Responsibilities

## Node Startup



- Create AG display “Look and Feel”
  - Set the AG display background to black
  - Ensure that the task bar is visible only on the operator’s console
- Virtual Venue
- Distributed PowerPoint
- Video
- Participate on the mud!!!



# What is a Virtual Venue?

A concept that encapsulates:

- A location on the grid
  - Not a physical space
  - A dimension in which several physical spaces can be co-located
  - A place that can be entered and exited
- A scoping mechanism to support multiple concurrent meetings
- A resource that can be reserved



# Node Startup Virtual Venue

drm

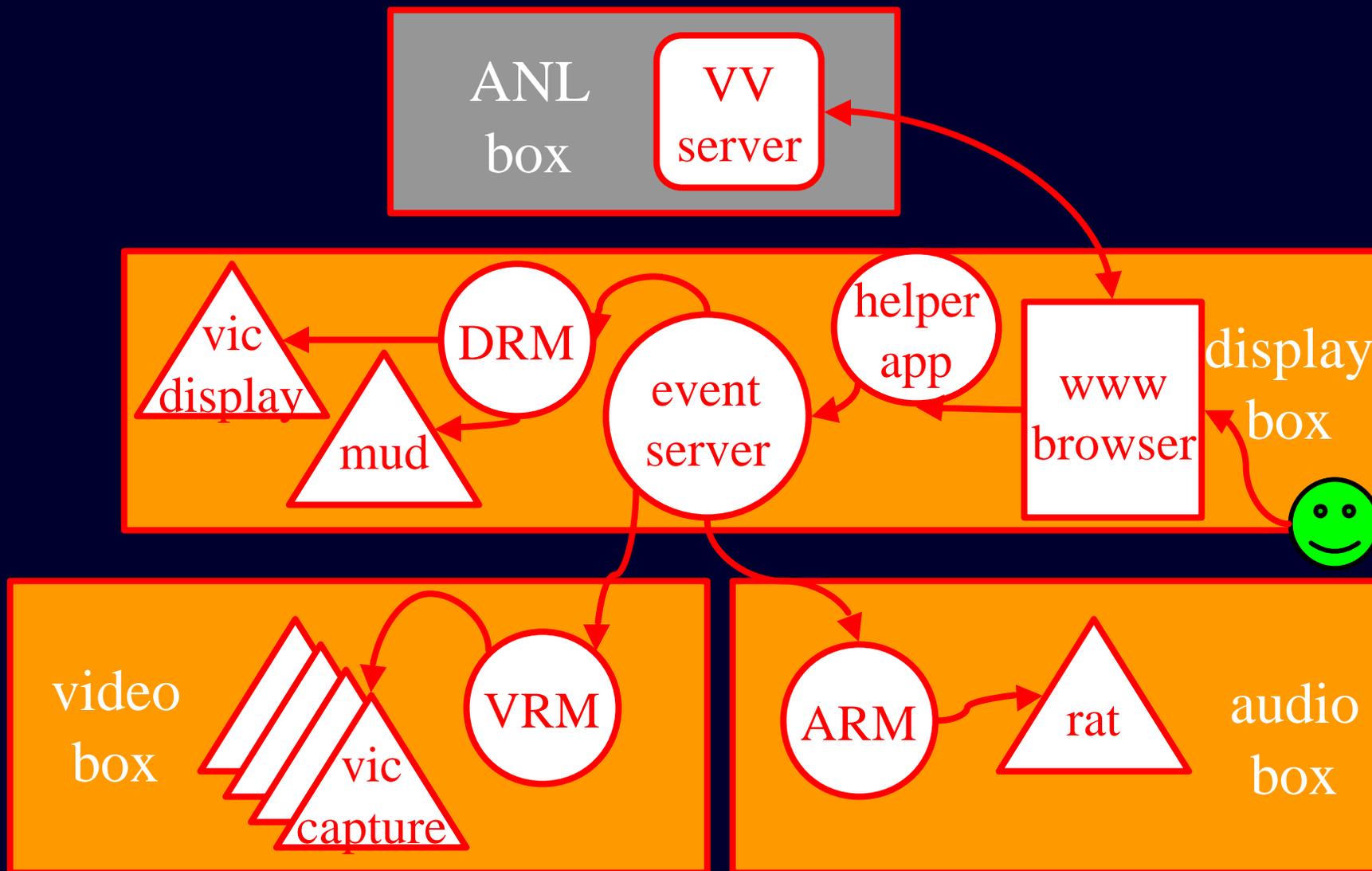
arm

vrn

event  
server

VV  
server

# Node Startup Virtual Venue





# Node Startup

## Distributed PowerPoint

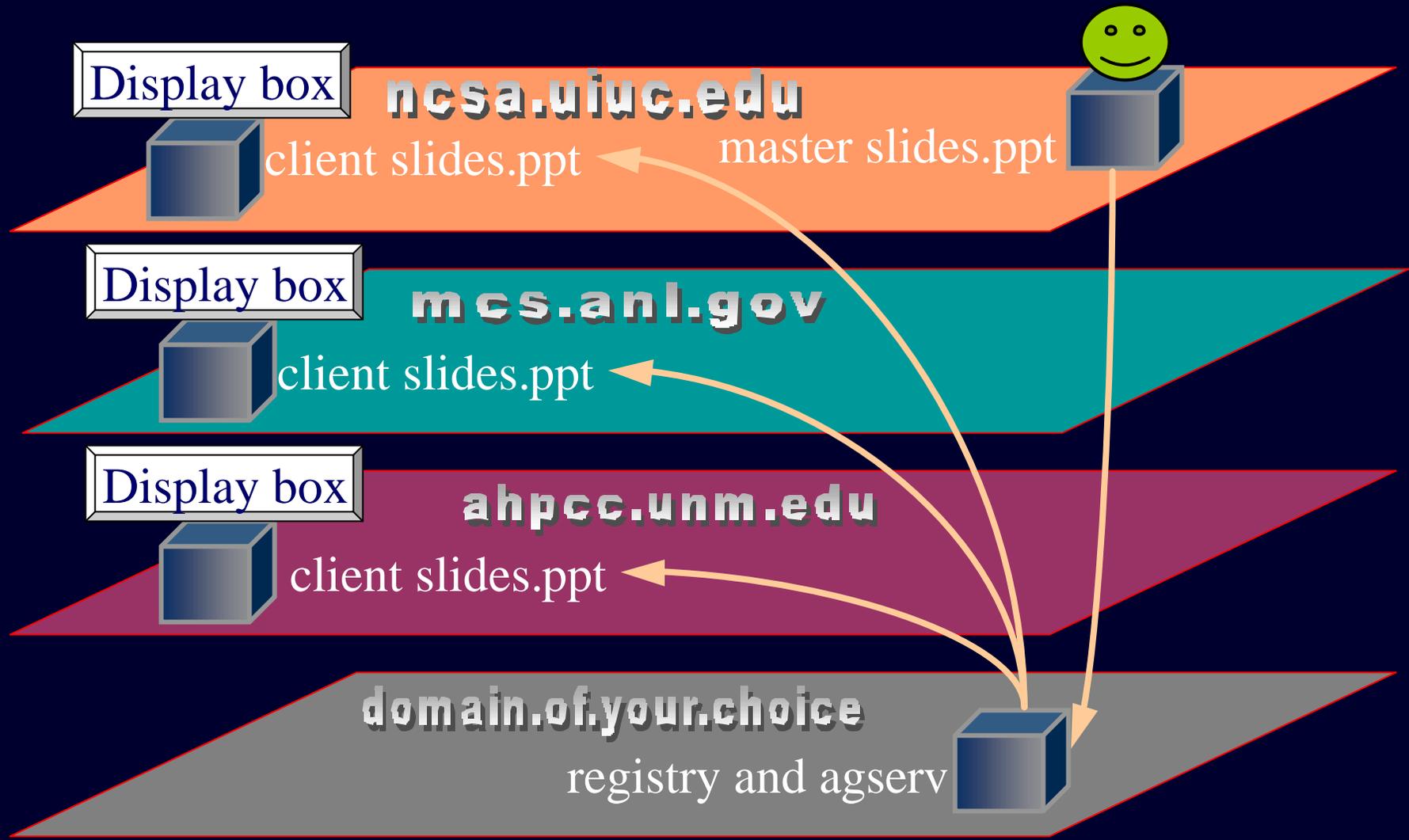
client

master

registry  
agserv

# Node Startup

## Distributed PowerPoint





# Node Startup Video

- Prepare 4 camera shots:
  - Shot of your node's AG display
  - Closeup of presenter
  - Shot of audience area
  - Closeup of Node Operator

# Operator Responsibilities

## System Tests



- Assess the state of network connectivity
  - Bring in Network Troubleshooter if needed
- Test audio with remote sites
  - Normalize transmission levels across nodes
  - Eliminate poor-quality audio
  - Ensure that node operator can speak in a normal voice and type w/o being detected on public channel
- PowerPoint dry runs
  - Download ppt files before event if very large
  - Remove animations and transitions
- Participate on the mud!!!

# Operator Responsibilities

## Runtime Adjustments



- Display
- Audio
- Video
- BackChannel Communications
- Distributed PowerPoint
- Participate on the mud!!!

# Runtime Adjustments

## Display



- Presenter should be able to see:
  - remote audiences
  - his own video
  - remote nodes' displays
- If cpu is pegged on display, mute non-critical video streams to save decoding
- Place video window of remote presenter on the same side of his ppt slides as he appears in real life

# Runtime Adjustments

## Audio



- Closely monitor audio transmit levels
- Turn off transmission when another node has the floor for an extended period
- Turn off silence suppression during presentations
- Inform local participants when you turn transmit on and off
- Relaunch rat if experiencing bad audio distortion

# Runtime Adjustments

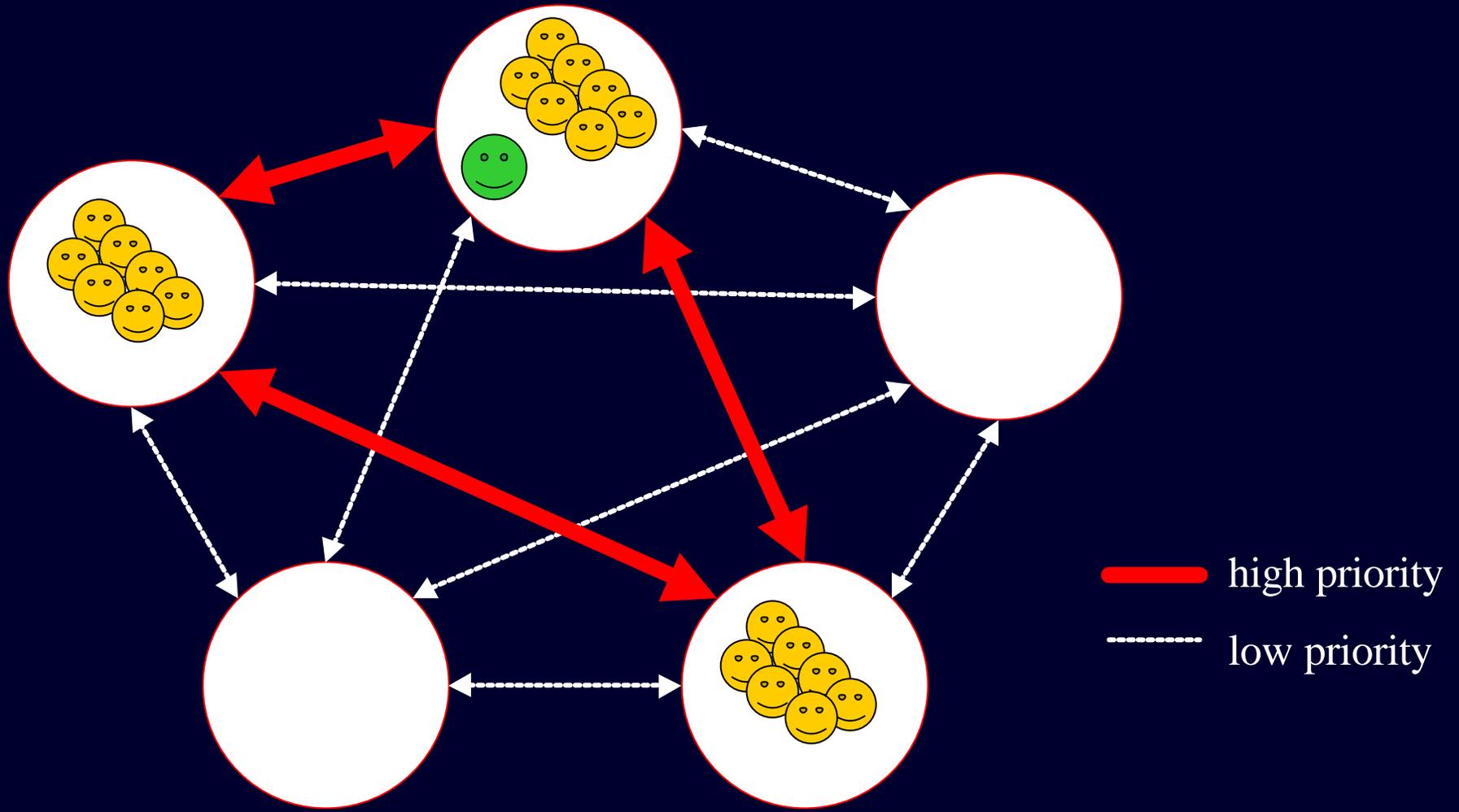
## Video



- Keep presenter framed in camera, but avoid Blair Witch syndrome
- Ensure presenter looks in the camera during presentation
- When an audience member asks a question, zoom audience cam in for a closeup
- Adjust hue/saturation/contrast/brightness
- Clamp transmission bandwidth to improve outgoing audio quality

# Runtime Adjustments

## BackChannel Communications



# Runtime Adjustments

## Distributed PowerPoint



- Announce slide changes on backchannel
- Relaunch master if clients stop following
- Kill master process after presentation



# Provide Feedback

- Help us to identify problems with hardware and software
- Please participate!