UI MHL: Possible states

Acquiring MHL: Possible states

Logging MHL: Possible states

UI MHL: Possible states Logging MHL: Possible states Acquiring MHL: Possible states 1. Idle 1. Idle 1. Idle 2. Acquiring and Logging 2. Logging 2. Acquiring 3. Waiting for Exit 4. Waiting for Exit (Acq Stopped) 5. Waiting for Exit (Log Stopped) 6. Waiting for Stop 7. Waiting for Stop (Acq Stopped) 8. Waiting for Stop (Log Stopped) **UI Message Loop Acquistion Loop Logging Loop** Event Press Start button If the system is idle, Enable: Stop button The system is already logging, The system is already acquiring, If the system is idle, ignore the "Start" message. Disable: Start, Exit, Settings buttons start the acquisition. start logging. ignore the "Start" message. Start Start Start ·Start · · · · · · > status: Acquiring & Logging status: Idle status: Idle **Update Status Acquire** Log "Acquiring and Logging" status: Logging status: Acquiring status: Acquiring & Logging Log more data while Acquire more data while Ignore "Log" messages Ignore "Acquire" messages in the "Acquiring" state. when the logging is Idle. when the acquisition is Idle. in the "Acquiring" state.

Event Press Stop button If the system is logging, Enable:Start, Exit, Settings buttons If the system is acquiring, The system is already Idle. The system is already Idle. Disable: Stop button Ignore the "Stop" message. stop the acquisition. Ignore the "Stop" message. stop logging. Stop Stop Stop Stop status: Waiting for Stop status: Idle status: Idle **Logging Stopped** Log **Acquire** status: status: Idle status: Idle Waiting for Stop (Log Stopped) Acquisition Stopped status: Waiting for Stop (Log Stopped) **Update Status** "Ready..." status: Idle

UI Message Loop

Logging Loop

Acquistion Loop

Event Press Stop button If the system is logging, Enable:Start, Exit, Settings buttons If the system is acquiring, The system is already Idle. The system is already Idle. Disable: Stop button stop the acquisition. Ignore the "Stop" message. stop logging. Ignore the "Stop" message. Stop Stop Stop Stop · · · · · · Stop····· status: Waiting for Stop status: Idle status: Idle **Acquisition Stopped** Log **Acquire** status: status: Idle status: Idle Waiting for Stop (Acq Stopped) **Logging Stopped** status: Waiting for Stop (Acq Stopped) **Update Status** "Ready..." status: Idle

UI Message Loop

Logging Loop

Acquistion Loop

Logging Loop

UI MHL: Possible states

- 1. Idle
- 2. Acquiring and Logging
- 3. Waiting for Exit
- 4. Waiting for Exit (Acq Stopped)
- 5. Waiting for Exit (Log Stopped)
- 6. Waiting for Stop
- 7. Waiting for Stop (Acq Stopped)
- 8. Waiting for Stop (Log Stopped)

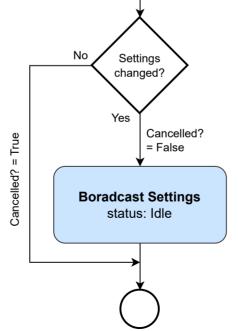
UI Message Loop

Event

Press **Settings** button

Launch Settings Dialog

UI state: Idle Call Settings Dialog.vi



Acquiring MHL: Possible states

- 1. Idle
- 2. Acquiring

Acquistion Loop