Actions and scenarios:

* ~~When the app is installed, generate a GUID for the device~~ Use MAC address
* When the device name is changed, broadcast the name change
* When IP address is changed, broadcast IP address change
* When Join Group is pressed, broadcast group name discovery, and wait for responses
* When Discover Peers is pressed, broadcast peer name discovery, and wait for responses
* When Start Group is pressed, send invites to all selected peers
* When invite is accepted, update group membership list
* When PTT button is pressed, broadcast to get lock on channel
* While PTT button is pressed, stream voice data
* When PTT button is released, release lock on channel
* When Leave Group is clicked, broadcast to leave group

Consideration: membership coherence protocol

Resulting broadcast/multicast signals:

* REQUEST\_GROUPS (group discovery)
  + Replies to requestor with group currently hosted, if applicable
* REQUEST\_PEERS (peer discovery)
  + Replies to requestor with device name
* UPDATE\_PEER (either pushed, or respond to request\_peers)
  + Broadcasts updated device name
* VOICE\_DATA (multicast)
  + Provides group, codec info, and codec data
* GROUP\_LIST
* REQUEST\_CHANNEL\_LOCK
  + brokered by group host
* RELEASE\_CHANNEL\_LOCK
  + brokered by group host
* PING\_REQUEST (number crunching on peer discovery)

Resulting targeted (single recipient) signals:

* JOIN\_GROUP
  + Sent from invitee to group host
* INVITE
  + Provides group name to initiate a group join
* BOOT
  + Forces user disconnect
* PREEMPT (nice to have functionality)