DFS VoIP intercom prototype user guide

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Version: 1.0, 6.Jan.2005

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The VoIP intercom prototype uses 10-inch touch input LCD, gooseneck microphone and loudspeaker for man machine interface. The short-dial buttons are labelled with the working position name of the other intercom stations.

In normal state the buttons are grey. After a one-way communication is established by clicking a button, the button at the caller station is yellow and the button at the called station is magenta.

After the called station clicks on the magenta button, a two-way communication is established. Now the buttons at both stations are green.

An active station (a station that is part of a one-way or two-way communication) is display at all partner stations (the stations that have a short-dial button to this station) with a cyan frame around the button.

If a user clicks the button of a not available station (station down or connection to this station down) the button and frame will change to red.

Note: To do not inflate the telephone conference paper with not relevant source code, the paper does not include the source code for the "intercom station not available" and "intercom station is active" functionality you see in the user guide. Please contact Andre Adrian if you want to get the full source code.

Station EDDF-TEC1 calls failed station EDDF-TEC2

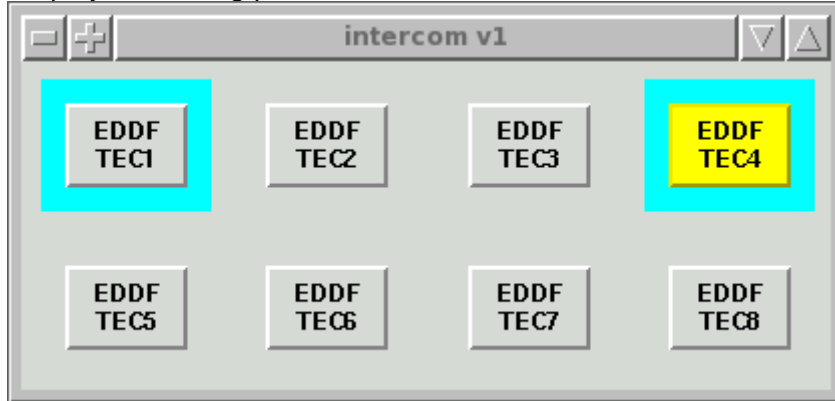Display at working position TEC1:
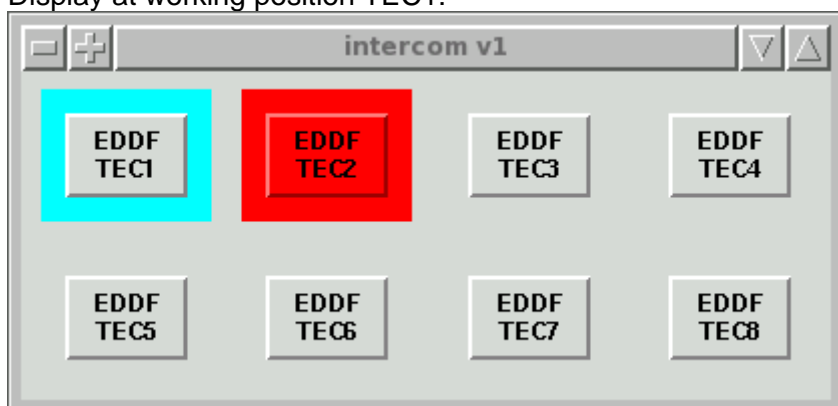
Display at available working position TEC4 to show the active station frames:

Station EDDF-TEC1 calls station EDDF-TEC4 (one-way)

Display at working position TEC1:

Display at working position TEC4:

Display at working position TEC6:

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Station EDDF-TEC1 phones with EDDF-TEC4 (two-way)

Display at working position TEC1:

Display at working position TEC4:

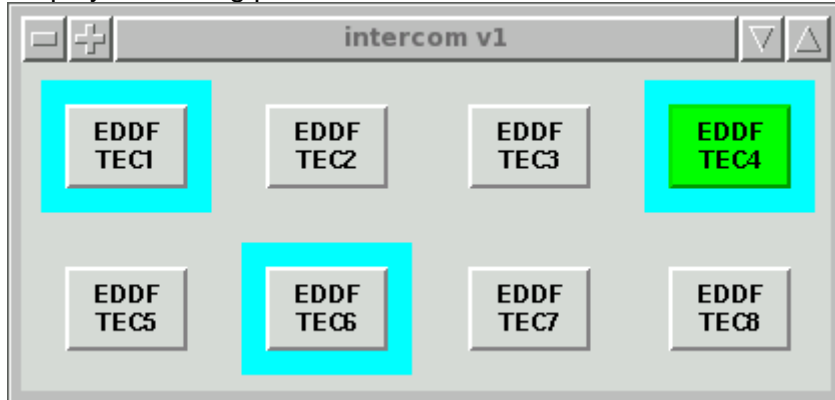Display at working position TEC6 is like above.

Next to one-way and two-way communication the VoIP intercom prototype can do intercom-conference and telephone-conference. Both types of conference are limited to maximum 6 stations. With intercom-conference the central station can talk to and listen from all other stations. The non-central stations can not talk to or listen from each other. This limitation is removed with telephone-conference. With telephone-conference every station can talk to and listen from every other station.
Note: To select telephone-conference start the application intercom with the option –t.

Conference with EDDF-TEC4 as central station (two-way)

Display at working position TEC1:

Display at working position TEC4:

Display at working position TEC6: