Empathy **Video chat**

Designed by
Nick Richards - nick@linux.intel.com

Date	Page number	Description
20.10.10	new document	document created.

NOT A VISUAL REFERENCE

A design constraint is that the video and audio chat window has to be separate from the chat. Ideally they would be brought together but that would require a somewhat deeper redesign.

In this design the audio chat window is a special case of a video chat. Throughout the document it will be referred to as the "video chat window" although audio chats can also take place there.

There are a number of entry points to the video chat window:
* From the contact menu of a text chat, with either audio or audio and video enabled.
* From the contacts list, with either audio or audio and video enabled.
* From the File -> New call menu, with either audio or audio and video enabled.
Redesigning these entry points is not within the scope of this document, although they do need a redesign ;-)

Still todo:
* audio only calls.
* Possibly some more settings integration.
* The window menu for the video chat window.
* Switch video and audio sources
* Call recording

NOT A VISUAL REFERENCE

1. Video chat window - not yet in call.

2. Video chat window - in call.

3. Video chat window - in call.

File Help   ✕

Mel
🟢 Available

File Help   ✕

Mel
🟢 Available

i

i

on   Duration - 01:12

i

Duration - 01:34
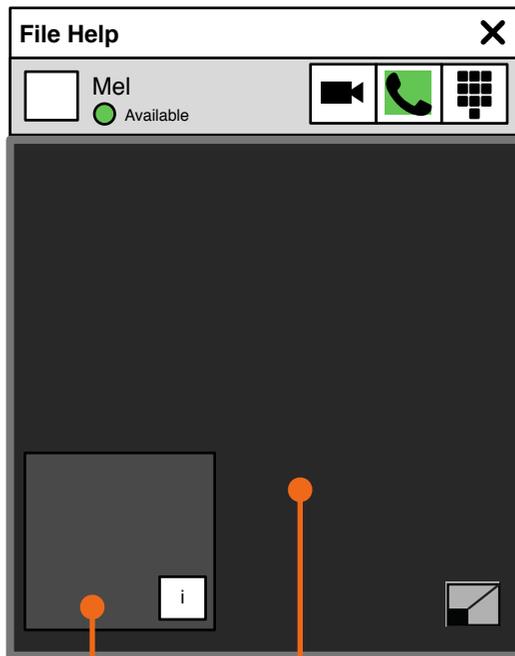
Your video stream

Contacts video stream. Before connection their buddy picture is shown.
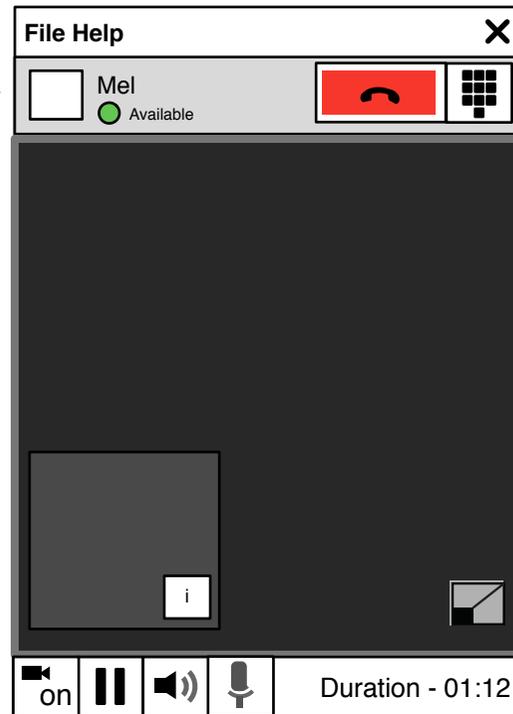
The in video controls (full screen and the call options menu) should fade in after mouse movement within the call and fade out after 3 seconds, much like video playback controls.
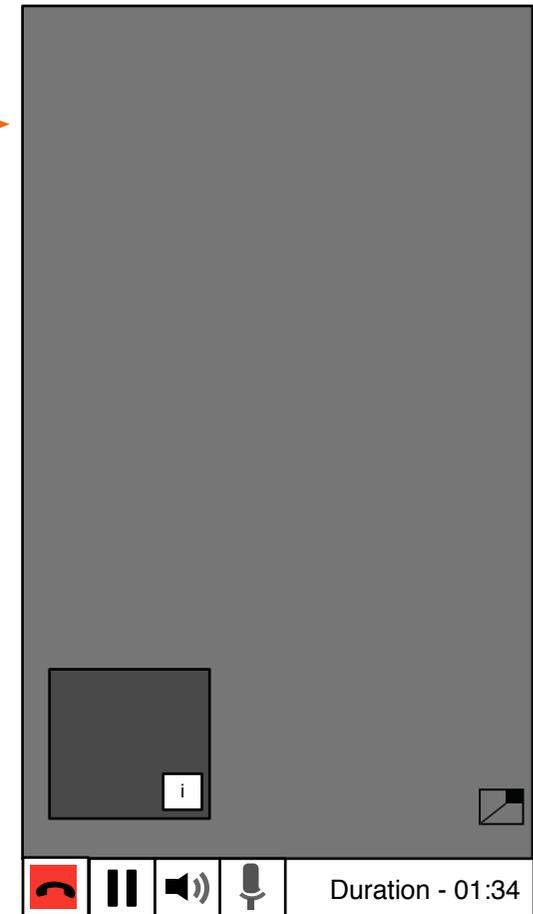
In full screen you don't currently get all the options. This may be changed.

NOT A VISUAL REFERENCE

**1.0** Video options

2.0 Minimised Video

File Help

Mel
Available

Duration - 01:12

on

Swap camera
Minimise me
Disable camera
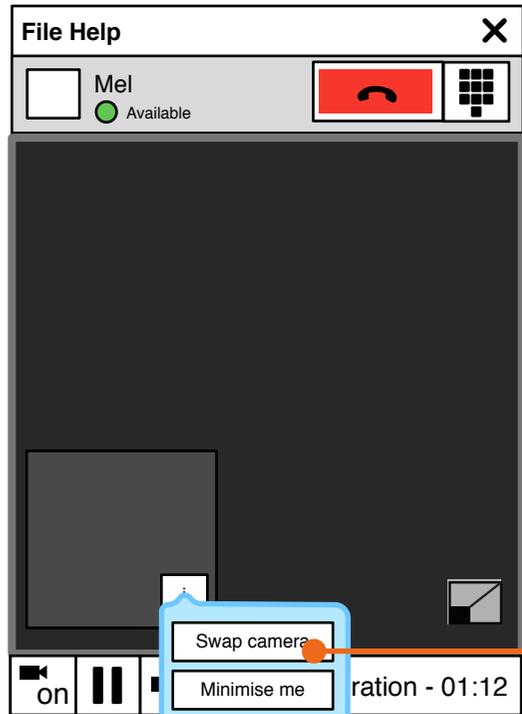
Toggles between front and rear camera

Stops sending users video

File Help

Mel
Available

Duration - 01:12

i

Swap camera
Maximise me
Disable camera

NOT A VISUAL REFERENCE
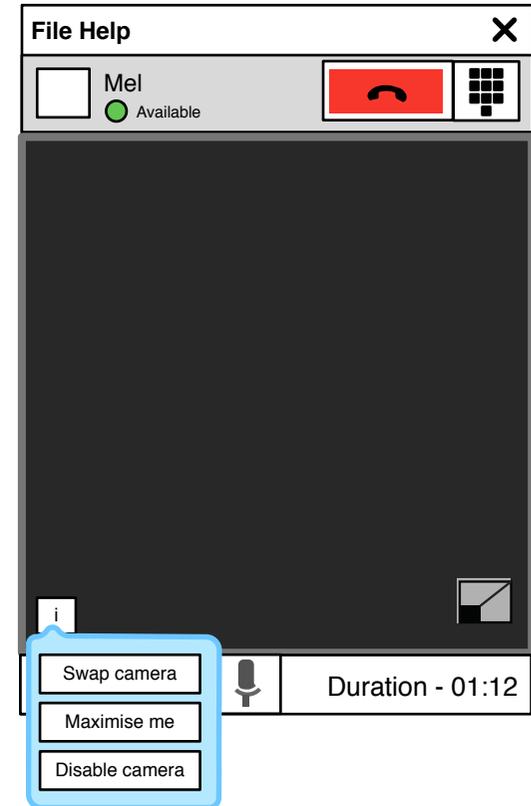
1.0 On hover, video is highlighted. On drag, three other drop zones are shown and other controls are hidden.

2.0 On drag, three other drop zones are shown and other controls are hidden.

File Help

Mel
Available

Duration - 01:12

on

File Help

Mel
Available

Duration - 01:12
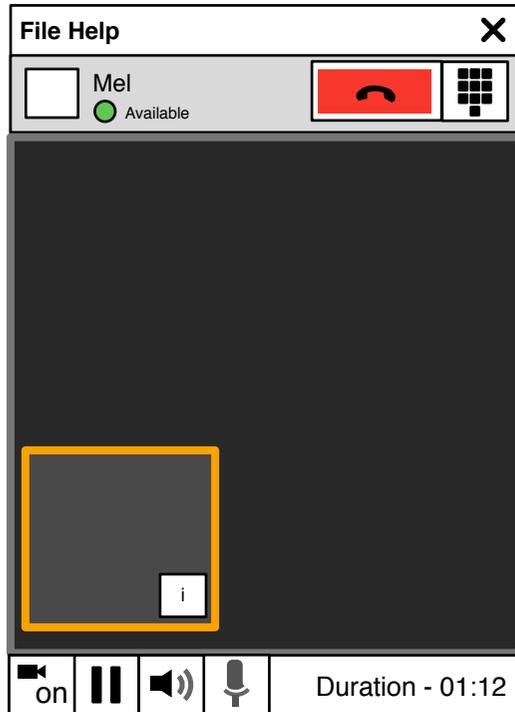
on
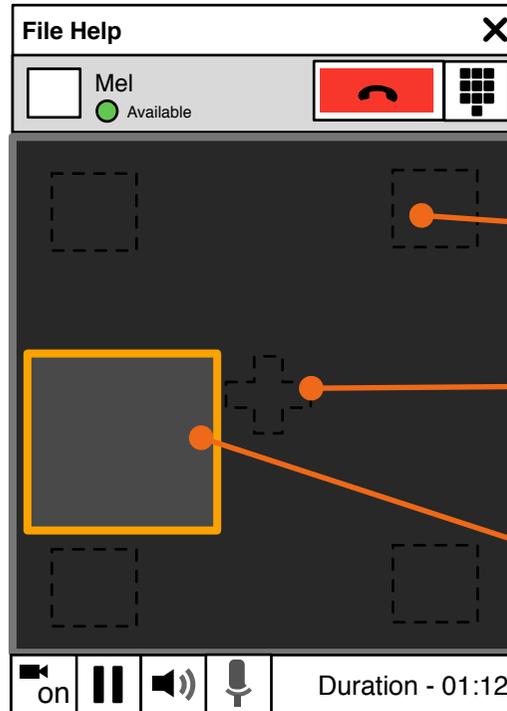
Video locations are highlighted to provide clear indication of new locations.

Swap main screen video. Toggles between users and respondent video feed in the main viewing panel.

As the element is being dragged, the information icon is removed, but replaced once dropped in its new location.

NOT A VISUAL REFERENCE

3.0 Video drop zones
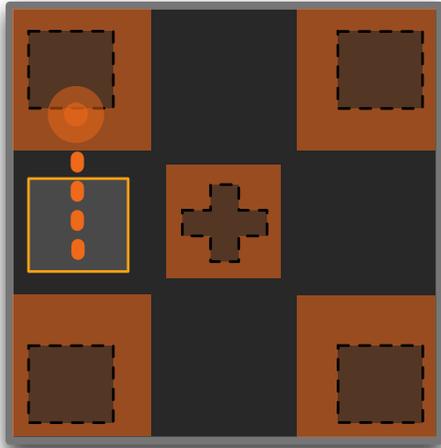
Drop zones act as a safety net for capturing the users activity.

If the user releases the element (drops it) before entering a zone, the element is returned to its original position (via a nice transition)

4.0 Zone highlight confirmation
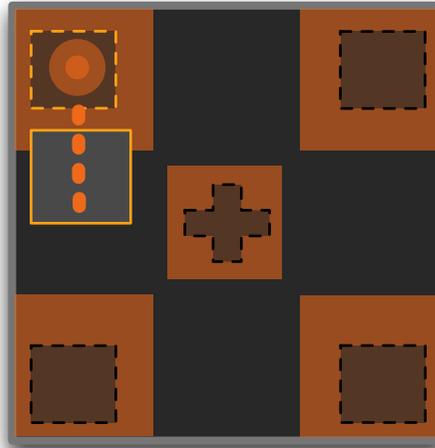
As the dragged element enters a drop zone, the Location is highlighted.

It is now safe to drop the element as it transitions to its new location.

5. 0 Video and Fullscreen switch

File Help

Mel
Available

on | Duration - 01:12
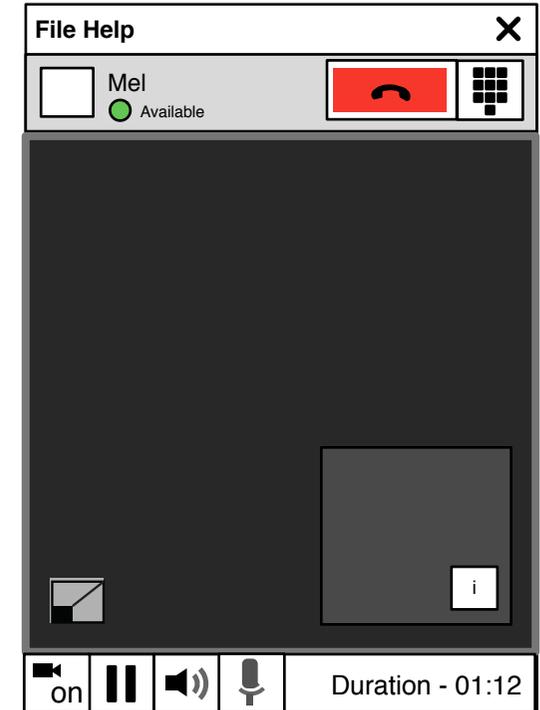
If the user drops the video on bottom right slot, the fullscreen icon Jumps to the left.

Dropping onto an already filled zone swaps the feeds.

NOT A VISUAL REFERENCE

File Help ✕

Mel
● Available

Something clever
needs to go in here

off ❚❚ 🔊 🎤   Duration - 01:12

1. Make a call - Select phone icon for audio call, select video icon for video and audio call. Select keyboard for keyboard popup

Mel
Available

**2.** Post call (buttons disabled for 2 seconds) before returning to 1.

Mel
Available

Once the type of call has been selected, the video and audio icons are merged to provide a single call to action.
NOTE: there should be a smooth transition between these different states

**3.** Calling - icon selectable to end the call

File Help

Mel
Available

i

Calling...
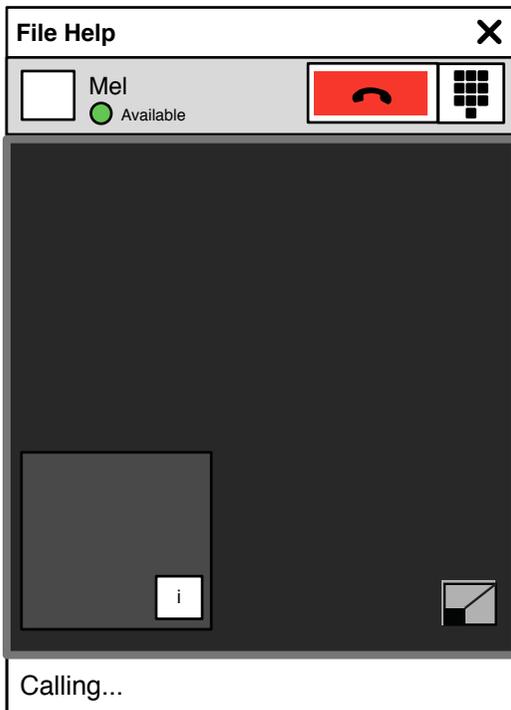
Status bar expands

3a. Call times out or is cancelled by the user

File Help

Mel
Available

i

Mel is not answering
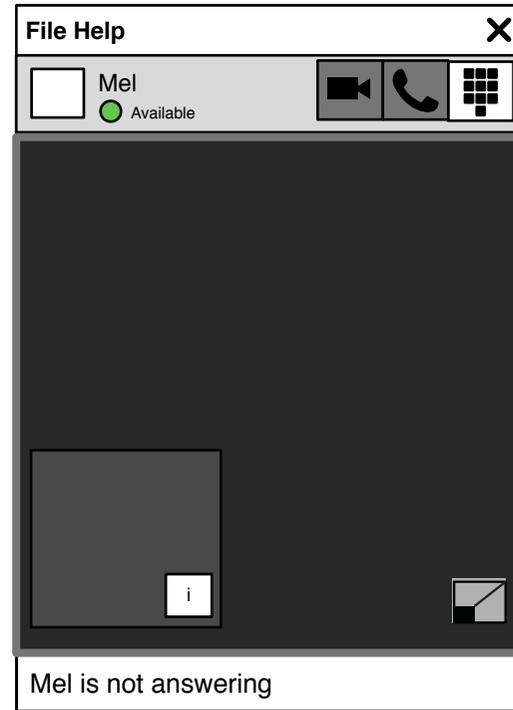
After 5 seconds the message is dismissed and the status bar contracts

3b. Call refused by contact
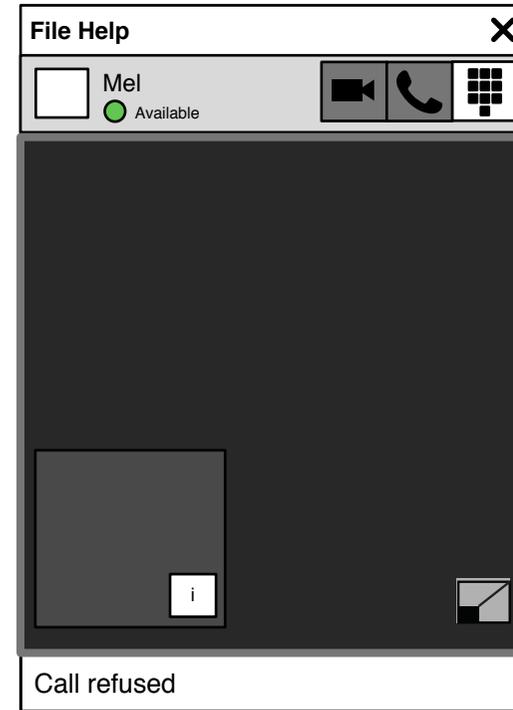
File Help

Mel
Available

i

Call refused

After 5 seconds the message is dismissed and the status bar contracts

NOT A VISUAL REFERENCE

4. In video call

File Help ✕

☐ Mel
⬤ Available

⌒ ⌗

Duration - 01:12

on ▶❚❚ 🔊 🎤 | Duration - 01:12

_ on/off toggle

Call on hold toggle

Volume control

Microphone mute toggle

Message area

5. In audio call

File Help ✕

☐ Mel
⬤ Available

Something clever
needs to go in here

off ❚❚ 🔊 🎤 | Duration - 01:12
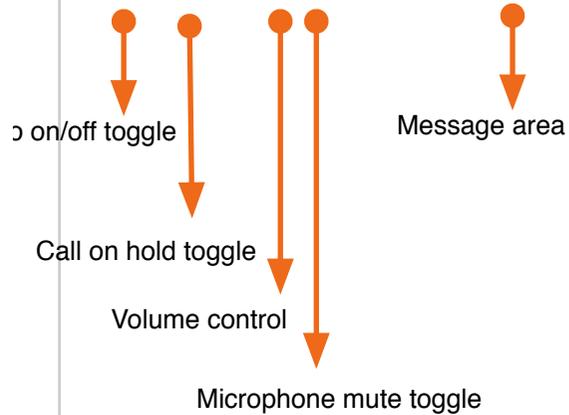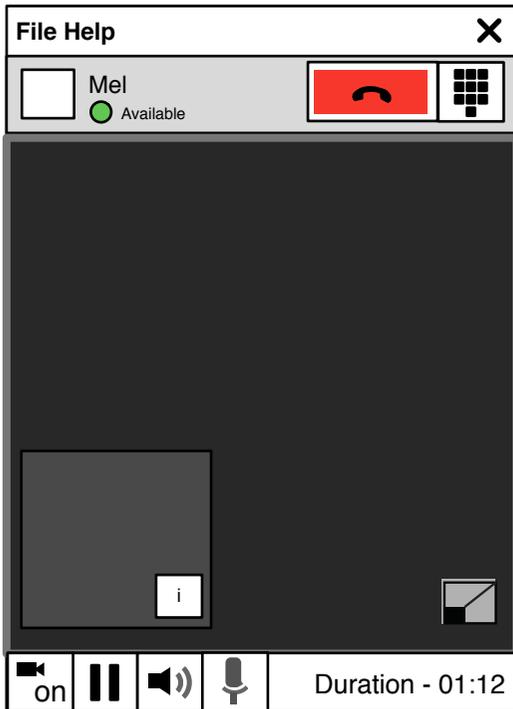
6. Adding video to an audio call).
Message disappears again when
connected

on ❚❚ 🔊 ✖ | connecting video

7. Call on hold

off ❚❚ 🔊 🎤 | On Hold - 00:23

8. Volume control

🔊

🔇✖

off ❚❚ 🔊 🎤 | Duration - 00:28

9. Mute toggle

off ❚❚ 🔊 ✖ | Mute - 00:34
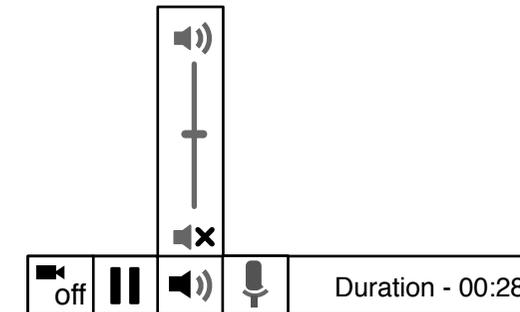
NOT A VISUAL REFERENCE

1. Keyboard toggled on

File Help

Mel
● Available

1	2	3
4	5	6
7	8	9
#	0	*

i

on   Duration - 01:12
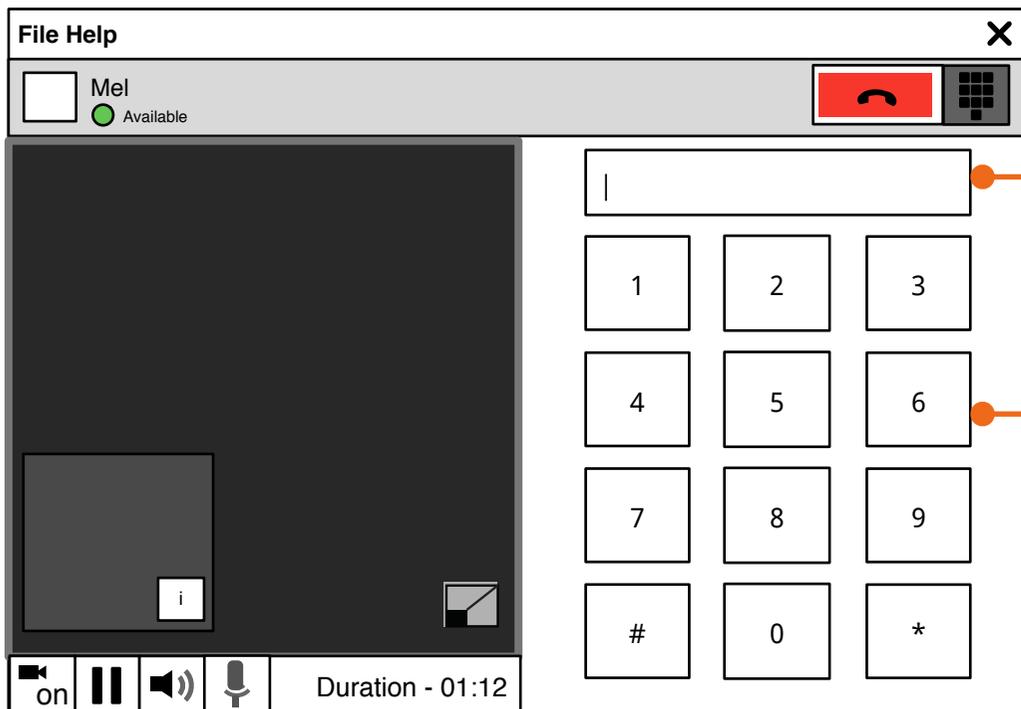
Shows entered numbers, non editable.

Of course the user should be able to just type on the keyboard as well.

If the service doesn't support DTMF and key entry stuff then it'd be really great if we could not show the whole keyboard activation thing.

NOT A VISUAL REFERENCE

1. Multi party video call (up to 4 participants)

File Help

Mel
Available

Duration - 01:12
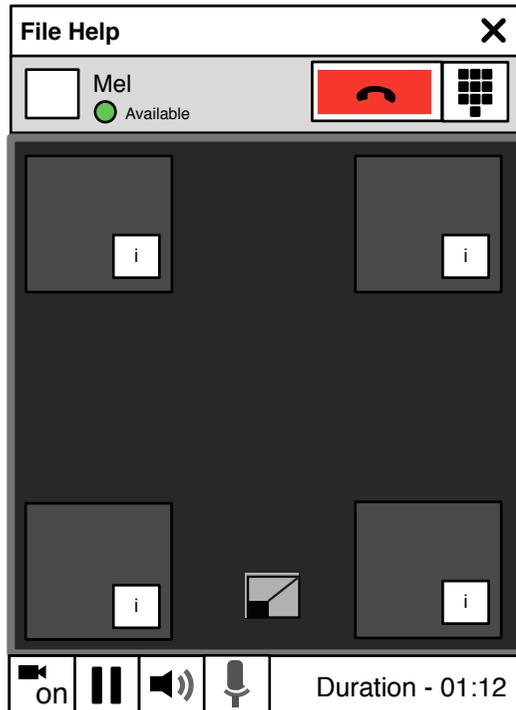
In a multi party call the drop zones around the edge of the video are used to show video streams until they are used up. Only one party can be in the main view at a time.

If all corner slots are taken the full screen toggle is shown in the middle at the bottom.

In a multi-party call, the video previews may be slightly smaller.

2. Multi party video call (greater than 4 participants)

File Help

Mel
Available

Duration - 01:12
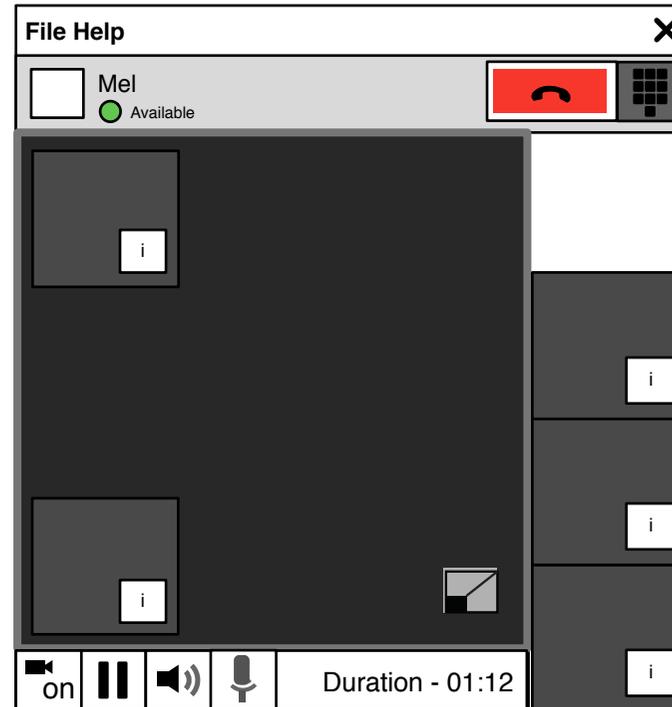
If there are more than 4 participants then video previews stack along the side of the screen. There are extra dropzones along each stacked column so you are not required to have fill the main area but when the last preview is removed from the extra column it should be hidden.

NOT A VISUAL REFERENCE