ICE Mobile Android Intents (v0.3)

Instant Connect Enterprise

Version history

8/22/2022	0.3	Updated sections 1.1 and 1.2 from PTT to Voice PTT and added a section 1.3 for Tone PTT.
7/19/2022	0.2	Added PTT on a specific channel (section 1.2).
3/31/2022	0.1	Initial release.

1. Button Intents

Use the following intents for the respective button events. Each has an intent for press and release. Intents for long presses are optional since the ICE application calculates the duration of the press intent without the receipt of the release event to determine whether a long press has been triggered.

1.1. Voice PTT (on all selected channels)

This would be for voice Push-to-Talk on all selected channels. A press event will trigger the start of transmission and the release event will end transmission. No need for long press as there is no use case for it.

Press: com.dillonkane.ice.ptt.press
Release: com.dillonkane.ice.ptt.release

Example PTT press:
```
Intent intent = new Intent("com.dillonkane.ice.ptt.press");
sendBroadcast(intent);
```

Example PTT release:
```
Intent intent = new Intent("com.dillonkane.ice.ptt.release");
sendBroadcast(intent);
```

1.2. Voice PTT on a specific channel

This would be for voice Push-to-Talk on a specific channel identified by its channel id. A press event will trigger the start of transmission and the release event will end transmission. Please note that the channel id needs to be provided as an extra for both press and release. No need for long press as there is no use case for it.

Press: com.dillonkane.ice.ptt.press
Release: com.dillonkane.ice.ptt.release
Extra: "ICE_PTT_CHANNEL_ID"

Example PTT press:
```
Intent intent = new Intent("com.dillonkane.ice.ptt.press");
intent.putExtra("ICE_PTT_CHANNEL_ID", "952adc57-f5cf-4bf4-947d-146127063668");
sendBroadcast(intent);
```

Example PTT release:
```
Intent intent = new Intent("com.dillonkane.ice.ptt.release");
intent.putExtra("ICE_PTT_CHANNEL_ID", "952adc57-f5cf-4bf4-947d-146127063668");
sendBroadcast(intent);
```

1.3. Tone PTT (on all selected channels)

This would be for transmitting a predefined tone on all selected channels. A press event will trigger the start of transmission and the release event will end transmission. No need for long press as there is no use case for it.

Press: com.dillonkane.ice.tone.press
Release: com.dillonkane.ice.tone.release

Example PTT press:
```
Intent intent = new Intent("com.dillonkane.ice.tone.press");
sendBroadcast(intent);
```

Example PTT release:
```
Intent intent = new Intent("com.dillonkane.ice.tone.release");
sendBroadcast(intent);
```

1.4. Alerts

This would be used to trigger an alert, e.g., emergency. The ICE app can trigger an alert on a short press or a long press. The app can assume a long press event if a release is received after a specific duration following the press.

Press: com.dillonkane.ice.alert.press
Release: com.dillonkane.ice.alert.release
Long press (optional): com.dillonkane.ice.alert.longpress

Example alert press:
```
Intent intent = new Intent("com.dillonkane.ice.alert.press");
sendBroadcast(intent);
```

Example alert release:
```
Intent intent = new Intent("com.dillonkane.ice.alert.release");
sendBroadcast(intent);
```

Example alert long press:
```
Intent intent = new Intent("com.dillonkane.ice.alert.longpress");
sendBroadcast(intent);
```

1.5. Channel Change

This would be used to notify the ICE app to change channels. The application needs events for channel traversal. "Next Channel" event will cause the app to select the channel that appears after the currently selected channel, while the "Previous Channel" event will result in the selection of the channel that appears before the currently selected channel. When none are selected, it will select the first or last channel respectively.

Next Channel: com.dillonkane.ice.channel.next
Previous Channel: com.dillonkane.ice.channel.previous

Example next channel:
```
Intent intent = new Intent("com.dillonkane.ice.channel.next");
sendBroadcast(intent);
```

Example previous channel:
```
Intent intent = new Intent("com.dillonkane.ice.channel.previous");
sendBroadcast(intent);
```

If the accessory uses buttons to traverse channels as opposed to a knob, then a long press can be sent using the following intents and are optional.

Next Channel long press (go to first channel): com.dillonkane.ice.channel.nextlong
Previous Channel long press (go to last channel): com.dillonkane.ice.channel.previouslong

Example next channel long press:
```
Intent intent = new Intent("com.dillonkane.ice.channel.nextlong");
sendBroadcast(intent);
```

Example previous channel long press:
```
Intent intent = new Intent("com.dillonkane.ice.channel.previouslong");
sendBroadcast(intent);
```

2. App Control Intents

Use the following when cross launching the ICE Mobile app or sending it notifications to login, logout, etc.

2.1. Cross Launch

Use this broadcast to launch the ICE Mobile app along with server and credentials. Normally Android will bring this app to the foreground as well.

Package name: com.dillonkane.ice.flutter
Server Extra: "ICE_LOGIN_SERVER"
Server Extra: "ICE_LOGIN_USERNAME"
Server Extra: "ICE_LOGIN_PASSWORD"

Example:
```
Intent intent =
getApplicationContext().getPackageManager().getLaunchIntentForPackage("com.dillonkane.ice.flutter
");
if (intent != null)
{
    intent.putExtra("ICE_LOGIN_SERVER", server);
    intent.putExtra("ICE_LOGIN_USERNAME", username);
    intent.putExtra("ICE_LOGIN_PASSWORD", password);
    startActivity(intent);
    finish();
}
else
{
    // Failed
}
```

2.2. Login

Use this broadcast to notify the ICE Mobile app to login.

Package name: com.dillonkane.ice.flutter

Server Extra: "ICE_LOGIN_SERVER"
Server Extra: "ICE_LOGIN_USERNAME"
Server Extra: "ICE_LOGIN_PASSWORD"

Example:
```
Intent intent = new Intent("com.dillonkane.ice.login");
intent.putExtra("ICE_LOGIN_SERVER", server);
intent.putExtra("ICE_LOGIN_USERNAME", username);
intent.putExtra("ICE_LOGIN_PASSWORD", password);
sendBroadcast(intent);
```

2.3. Logout

Use this broadcast to notify the ICE Mobile app to logout.

Package name: com.dillonkane.ice.flutter
Server Extra: "ICE_LOGIN_SERVER"
Server Extra: "ICE_LOGIN_USERNAME"
Server Extra: "ICE_LOGIN_PASSWORD"

Example:
```
Intent intent = new Intent("com.dillonkane.ice.logout");
sendBroadcast(intent);
```