Push-to-talk over Cellular (PoC) service allows cell phones to be used as walkie-talkies. A group of users in a PoC session can communicate by simply pressing a button and speaking when the phone indicates it is OK to do so. The user releases the button when he or she is done speaking.

When a user begins to speak, the PoC server allocates resources and notifies other users in the PoC session that the user is speaking. The PoC server then delivers the speech packets to all the users in the session.

PoC is resource efficient as it allocates resources only when a user is actually speaking. This makes it suitable for applications where there are long gaps between individual session participants speaking.

This flow covers the case where PoC Client A invites PoC Client B to a Pre-established Session by sending SIP REFER request to PoC Server A.

This sequence diagram was generated with EventStudio System Designer 4.0 (http://www.EventHelix.com/EventStudio). Copyright © 2008 EventHelix.com Inc. All Rights Reserved. The EventStudio source files for this document can be downloaded from http://www.eventhelix.com/call-flow/ims-poc-pre-established.zip.
Talk Burst from PoC Client B to A

**Push-to-Talk Button Pressed**
PoC Client B wishes to speak so he or she presses the “Push-to-talk button” on the phone.

**MBCP Media Burst Request**
protocol = RTCP APP, MB Priority
Request the floor for the session.

**MBCP Media Burst Granted**
protocol = RTCP APP
The floor is granted.

**Permission to talk**
Indicate to the user that the floor has now been granted.

**RTP Media**
Voice
The PoC Client B sends the RTP Media to the PoC Client A via PoC Server B and PoC Server A.

**Push-to-Talk Button Released**
PoC Client B released the “Push-to-Talk” button to signal that he or she has stopped speaking.

**MBCP Media Burst Release**
protocol = RTCP APP
The burst release is passed to the controlling PoC Server (PoC Server A).

**MBCP Media Burst Idle**
protocol = RTCP APP
Floor is available indication
Indicate to the user that the floor is available for speaking.