

External volume buttons

From S60 3rd Edition FP 2 onwards, external volume buttons can be used to change the volume level of MMAPI players in mobile devices that have the volume buttons present.

The buttons work in this way when a MIDlet that uses MMAPI is on foreground. They change the volume level for MMAPI Players globally, that is, the volume level of every Player in every MIDlet is altered.

A Nokia proprietary event is used to notify the MIDlet when volume is changed with External volume keys. The notification is made via `PlayerListener.playerUpdate(Eventdata)` callback with the event `com.nokia.external.volume.Event`.

Code Sample

The event can be decoded to know the current global volume level as shown below:

```
// Effective volume considering both midlet volume and global volume
int actualVolume = 0;
int globalVolume = 0;

public void playerUpdate(Player p, String event, Object eventData) {
    // get the current midlet volume level
    int midletVolume = vc.getLevel();

    if(event.equals("com.nokia.external.volume.Event")) {
        // get the current global volume level
        globalVolume = Integer.parseInt(eventData.toString());
    }

    // This event is generated when midlet volume level is changed
    if(event.equals("volumeChanged")) {
        midletVolume = vc.getLevel();
    }

    actualVolume = (globalVolume/100) * midletVolume;
}
```

Reference

http://library.forum.nokia.com/index.jsp?topic=/Design_and_User_Experience_Library/GUID-CB5D4F7A-CA69-49E