Routing a voice call between the earpiece and the loudspeaker on Symbian

Note: :This API is not part of the public SDK. It can be found in the SDK API Plug-in.

Overview

The CR Keys To Control Phone Volume API included in the SDK API Plug-in package also includes keys for routing the voice call between the earpiece and the loudspeaker.

This snippet requires the following capabilities:

- ReadUserData
- WriteUserData
- ReadDeviceData
- WriteDeviceData

Because of the capability requirements, self-signing is not possible. A Developer Certificate is needed.

MMP file

The following capabilities and libraries are required:

CAPABILITY ReadUserData WriteUserData ReadDeviceData WriteDeviceData

LIBRARY centralrepository.lib

Source file

The required headers files are:

1. include <telephonyinternalcrkeys_partner.h> //from SDK API Plug-in
2. include <centralrepository.h> //CRepository

A simple way to switch the voice call routing between the earpiece and the loudspeaker is shown in the code snippet below. The routing mode is changed by reading the value of the Central Repository key and rewriting the opposite value.

```
TInt mode(-1);
TInt errNo =
  RProperty::Get(KTelephonyAudioOutput,
                 KTelephonyAudioOutputPreference,
                 mode);

switch(mode)
  {
  case EPSPrivate:
    RProperty::Set(KTelephonyAudioOutput,
                   KTelephonyAudioOutputPreference,
                   EPSPublic);
 break;

  case EPSPublic:
    RProperty::Set(KTelephonyAudioOutput,
                   KTelephonyAudioOutputPreference,
                   EPSPrivate);
 break;
  default:
 break;
```



```
    }
```

Example application

File:Ear Lound switch speakers.zip

