Archived:Notification of a change in the Active Profile Ringtone using Symbian C++

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Overview

Profiles Engine API, part of the Extension plug-in package for S60 3rd Edition, MR, provides the class `CProfileChangeNotifyHandler` that can be used to get a notification for activation of a new profile and modifications of current active profile settings.

See also How to get notification of profile change

Description

Header files:

```
#include <CProfileChangeNotifyHandler.h>
#include <MProfileChangeObserver.h>
#include <MProfileEngine.h>  // link against profileeng.lib
#include <MProfile.h>
#include <MProfileTones.h>
```

Derive a class from `MProfileChangeObserver` and implement a pure virtual function `HandleActiveProfileEventL()` in order to get notifications.

Create an instance of `CProfileChangeNotifyHandler` class in the `ConstructL()` of this class:

```
CProfileChangeNotifyHandler* iHandler =
    CProfileChangeNotifyHandler::NewL( this );
```

First, store the ring tone from the active profile in a descriptor. Whenever a change notification for the active profile comes in, re-retrieve the ring tone and compare it with the old value.

The following code is used to get the active profile ring tone:

```
MProfileEngine* profileEngine = CreateProfileEngineL();
CleanupReleasePushL(*profileEngine);
MProfile* activProfile =
    profileEngine->ActiveProfileL();
const MProfileTones& activeProfileTone =
    activProfile->ProfileTones();
// iCurrentRingTone is of type TFileName
iCurrentRingTone = activeProfileTone.RingingTone1();
CleanupStack::PopAndDestroy(); // profileEngine
```

Implementation of `HandleActiveProfileEventL()`:

```
HandleActiveProfileEventL( TProfileEvent aProfileEvent,
                           TInt aProfileId )
  {
  switch(aProfileEvent)
    {
    case EProfileActiveProfileModified:
      {
      // Active profile settings are modified
      MProfileEngine* profileEngineNew =
          CreateProfileEngineL();
      CleanupReleasePushL(*profileEngineNew);
      MProfile* activeProfileNew =
          profileEngineNew->ActiveProfileL();
      const MProfileTones& activeProfileToneNew =
          activeProfileNew->ProfileTones();
      TFileName ringToneNew =
          activeProfileToneNew.RingingTone1();
      TBool ringToneChanged =
          iCurrentRingTone.operator!=(ringToneNew);

      if( ringToneChanged )
        {
        // Active profile ring tone changed
        iCurrentRingTone = ringToneNew;
        }
      else
        {
        // Some other profile settings have changed
        }
      CleanupStack::PopAndDestroy(); // profileEngineNew
      break;
      }
    default:
      break;
    }
  }
```


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File:NotifyProfileRingtoneChange.zip

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