Cell ID with CTelephony

Reviewer Approved

CCellIDCheck implementation illustrates how to get Cell ID information using CTelephony. Note that this example is intended to be used only with S60 3rd Edition devices, and does not work with pre-3rd Edition devices.

To use this example first implement the callback interface function in the implementing class and then construct an instance of the CCellIDCheck. The callback function will be then called with the current Cell Id information. The aCountryCode argument variable will have the three digit country code of the network, and aNwId will have two digit network operator identification inside that country.

aAreaCode then indicates a area inside the operators network and the aCellId is unique cell identifier inside that operators area.

Headers required:

```
#include <Etel3rdParty.h>
```

Library required:

```
LIBRARY etel3rdparty.lib
```

Capabilities required:

```
capability ReadUserData ReadDeviceData Location
```

GetCellID.cpp

```
CCellIDCheck::~CCellIDCheck()
{
 Cancel();
 delete iTelephony;
}

void CCellIDCheck::ConstructL(void)
{
    iTelephony = CTelephony::NewL();
    iTelephony->GetCurrentNetworkInfo(iStatus, iIdV1Pkg);
 SetActive();
}

CCellIDCheck::CCellIDCheck(MCellIdObserver& aObserver)
: CActive(EPriorityNormal),iObserver(aObserver),iIdV1Pkg(iIdV1)
{
 CActiveScheduler::Add(this);
}

void CCellIDCheck::RunL()
{

iObserver.CellIDL(iIdV1.iCountryCode,iIdV1.iNetworkId,iIdV1.iLocationAreaCode,iIdV1.iCellId);

}

void CCellIDCheck::DoCancel()
{
```


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```
 iTelephony->CancelAsync(CTelephony::EGetCurrentNetworkInfoCancel);
}
```

GetCellID.h

```
#include <Etel3rdParty.h>


class MCellIdObserver
 {
 public:
  virtual void CellIDL(const TDesC& aCountryCode,const TDesC& aNwId,TUint
aAreaCode,TUint aCellId) = 0;
 };


class CCellIDCheck : public CActive
  {
public:
    CCellIDCheck(MCellIdObserver& aObserver);
    void ConstructL(void);
 ~CCellIDCheck();
private:
    void RunL();
    void DoCancel();
private:
 MCellIdObserver&     iObserver;
    CTelephony*      iTelephony;
    CTelephony::TNetworkInfoV1   iIdV1;
    CTelephony::TNetworkInfoV1Pckg  iIdV1Pkg;
   };
```

Related Links

- Usage of CTelephony
- Find Out Cell ID in 3rd Edition

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