# Disconnecting a voice call with CTelephony

## Overview

This snippet demonstrates how to make a voice call with `CTelephony::DialNewCall()` and then disconnect the call using `CTelephony::Hangup()` from `etel3rdparty.lib`. Note that you can only disconnect calls that have been initiated by your application using the Telephony ISV API (`CTelephony`).

## MMP file

The following libraries and capabilities are required:

```
CAPABILITY NetworkServices
LIBRARY etel3rdparty.lib // Telephony ISV API
```

## Header

```
#include <Etel3rdParty.h> // Telephony ISV API

class CYourCall : public CActive
        {
    public:
        CYourCall();
        virtual ~CYourCall();
        void ConstructL();
        void HangUpL();
        void Dial(const TDesC& aNumber);

    protected:
        void DoCancel();
        void RunL();

    private:
        // Telephony ISV API
        CTelephony*                     iTelephony;
        CTelephony::TCallId iCallId;
        TBool iHangedUp;
        };
```

## Source

```
CYourCall::CYourCall()
:CActive(CActive::EPriorityStandard)
    {
    }

CYourCall::~CYourCall()
    {
    Cancel();

    delete iTelephony;
    }

void CYourCall::ConstructL(void)
    {
    CActiveScheduler::Add(this);
    iTelephony = CTelephony::NewL();
    }

void CYourCall::DoCancel()
    {
    iTelephony->CancelAsync(CTelephony::EDialNewCallCancel);
    }


void CYourCall::RunL()
    {
    if (iStatus.Int()==KErrNone && !iHangedUp)
        HangUpL();
    }

void CYourCall::Dial(const TDesC& aNumber)
    {
    // Dial new call with given number
    CTelephony::TTelNumber telNumber(aNumber);

    CTelephony::TCallParamsV1 callParams;
    callParams.iIdRestrict = CTelephony::ESendMyId;
    CTelephony::TCallParamsV1Pckg callParamsPckg(callParams);

    iTelephony->DialNewCall(iStatus, callParamsPckg, telNumber, iCallId);
    SetActive();
```


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```
    }

void CYourCall::HangUpL()
    {
    if (IsActive())
        return;

    // Hang up call right after CTelephony::DialNewCall() is completed
    iHangedUp = ETrue;
    iTelephony->Hangup(iStatus,iCallId);
    SetActive();
    }
```

## How to use

```
iCallMonitor = new (ELeave) CYourCall();
CleanupStack::PushL(iCallMonitor);
iCallMonitor->ConstructL();
CleanupStack::Pop();

iCallMonitor->Dial(_L("05012345678"));
```

## Postconditions

The call is connected and then disconnected.

## See also

- Make call with CTelephony
- Archived:Cannot answer data calls using Core ETEL API on S60 1st Edition (Known Issue)


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