# Creating, deleting, editing, and listing WLAN access points using Symbian C++

## Overview

Creating, deleting, editing, and listing WLAN access points

## Description

Sometimes S60 3rd-party applications may want to provide the functionality for managing access points through their UI. It is possible for applications to programmatically create, edit, and delete access points. To create, delete, edit, and list WLAN APs, the following headers / libraries are used:

## MMP File

This snippet requires the following libraries:

```
LIBRARY commdb.lib
LIBRARY apengine.lib
```

## Headers

```
#include <commdb.h>  // link against
#include <apselect.h> // link against apengine.lib
#include <aplistitem.h>
#include <apdatahandler.h>
#include <apaccesspointitem.h>
#include <aputils.h>
```

## A short example for each type of operation:

**Creating an access point:**

```
CApAccessPointItem *wlan = CApAccessPointItem::NewLC();
wlan->SetNamesL(_L("NewAP"));
wlan->SetBearerTypeL(EApBearerTypeWLAN);
wlan->WriteTextL(EApWlanNetworkName, _L("WlanAP"));

// Store it into the CommsDb

CCommsDatabase *commDb = CCommsDatabase::NewL();
CleanupStack::PushL(commDb);

CApDataHandler *handler = CApDataHandler::NewLC(*commDb);
TUint32 newApId = handler->CreateFromDataL(*wlan);
CleanupStack::PopAndDestroy(3); // handler, commDb, wlan
```

**Removing an access point:**

```
handler->RemoveAPL(myUid); // myUid: ID of an AP to remove
```

**Editing an access point:**

```
handler->AccessPointDataL(myUid, *wlan); // myUid: ID of an AP to edit
TInt err;
err = wlan->WriteTextL(EApWlanNetworkName, _L("NewName"));
// EApWlanNetworkName is the column to edit.
// Other columns are listed in ApAccessPointItem.h
TBool nameChanged;
handler->UpdateAccessPointDataL(*iaccessPoint, nameChanged);
```

**Getting the UID of the access points:**

```
// The UIDs of access points can be retrieved as follows:

CCommsDatabase* commDb = CCommsDatabase::NewL(EDatabaseTypeIAP);
CleanupStack::PushL(commDb);
CApSelect* select = CApSelect::NewLC(*commDb, KEApIspTypeAll, EApBearerTypeWLAN, /* use EApBearerTypeAll for all types */KEApSortUid
TBuf<256> accessPoints; _LIT(KAPInfoTxtFormat, "[%d]%S ");

TBool ok = select->MoveToFirst();
for(TInt i = 0; ok && (i < select->Count()); i++)
```


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```
    {
  accessPoints.AppendFormat(
        KAPInfoTxtFormat,
        select->Uid(),
        &select->Name());
  ok = select->MoveNext();
    }
CleanupStack::PopAndDestroy(2); // select, commDb
// accessPoints descriptor now contains WLAN AP IDs + names
```


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