How to get MAC address of a WLAN device

The MAC address of a WLAN device can be retrieved by the code *#MAC0WLAN# on the standby screen (that's same as *#62209526#).

We can get the MAC address of a S60 WLAN device programmatically as well. This can be done by the following code snippet.

Header:

```
#include <in_sock.h>
```

Link against:

```
LIBRARY insock.lib
```

Capabilities:

```
CAPABILITY NONE
```

```
RSocketServ socketServ;
User::LeaveIfError(socketServ.Connect());
CleanupClosePushL(socketServ);

// Open a socket
RSocket socket;
User::LeaveIfError(socket.Open (socketServ,KAfInet,KSockStream,KProtocolInetTcp));
CleanupClosePushL(socket);

// Start enumerating the interfaces
TPckgBuf<TSoInetInterfaceInfo> info;
socket.SetOpt(KSoInetEnumInterfaces, KSolInetIfCtrl);
TBuf<32> macAddr;

while(socket.GetOpt(KSoInetNextInterface, KSolInetIfCtrl, info) == KErrNone)
{
    if(info().iName.FindF(_L("Wlan")) == KErrNotFound)
        continue;

    macAddr.Zero();
    for(TUint i = sizeof(SSockAddr) ; i < sizeof(SSockAddr) + 6 ; i++)
         if(i < (TUint)info().iHwAddr.Length())
             macAddr.AppendFormat(_L("%02X:"), info().iHwAddr[i] );

    if(macAddr.Length()) // remove trailing ':'
        macAddr.Delete(macAddr.Length()-1, 1);
}
CleanupStack::PopAndDestroy(2);
```

However, the above MAC address retrieval code works only when your phone is connected to a WLAN. To find out the MAC address even with WLAN turned off, see the below alternative solution (applies to all S60 3rd Edition devices and S60 3rd Edition Feature Pack 1 devices):

This alternatively method uses the Publish and Subscribe keys to retrieve the MAC address when the WLAN is turned off.

WLAN Info API, a part of the Extensions plug-in package for S60 3rd Edition, Feature Pack 1 Software Development Kit, contains Publish and Subscribe keys with a MAC address for the WLAN interface.

The **wlaninternalpskeys.h** header file contains the required Publish and Subscribe category and key information:

```
const TUid KPSUidWlan = { 0x101f8ec5 };
const TUint KPSWlanMacAddress = 0x00000001;
const RProperty::TType KPSWlanMacAddressType = RProperty::EByteArray;
```


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