

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 = 0x000000001;
const RProperty::TType KPSWlanMacAddressType = RProperty::EByteArray;
```

