Archived:How to read IMEI in Qt application for Maemo 5

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The IMEI should be accessed using the cross platform Qt Mobility API QSystemDeviceInfo

Archived: This article shows how to use the Maemo 5 DBus interface for obtaining IMEI of the phone.

The name of a service is *com.nokia.phone.SIM*, a path name is */com/nokia/phone/SIM/security*, an interface name is *Phone.Sim.Security*. Finally the method's name responsible for obtaining IMEI is *get_imei*

You can verify that it works using dbus-send utility in XTerm:

```
dbus-send --system --type=method_call --print-reply \
          --dest=com.nokia.phone.SIM \
          /com/nokia/phone/SIM/security \
          Phone.Sim.Security.get_imei
```

Now how you do it with C++ and Qt. First you need to create an interface on system bus identified by service/path/interface triad. A next step is to perform a method call to obtain a reply. Note that the call is synchronous, i.e., blocking. This is simple example and lightweight call, for more serious tasks use QDBusAbstractInterface::callWithCallback(). Reply contains string and integer value. The former represents IMEI of the phone.

```
#include <QApplication>
#include <QLabel>
#include <QDBusInterface>
#include <QDBusMessage>
#include <QDebug>

#define SIM_DBUS_SERVICE  "com.nokia.phone.SIM"
#define SIM_DBUS_PATH     "/com/nokia/phone/SIM/security"
#define SIM_DBUS_IFACE    "Phone.Sim.Security"
#define SIM_IMEI_REQ      "get_imei"

int main(int argc, char *argv[])
{
    QApplication a(argc, argv);

    QLabel label;
    label.setAlignment(Qt::AlignCenter);
    label.setFont(QFont("Nokia Sans", 35, QFont::Bold));
    label.show();

    QDBusInterface interface(SIM_DBUS_SERVICE, SIM_DBUS_PATH, SIM_DBUS_IFACE,
        QDBusConnection::systemBus());

    QDBusMessage reply = interface.call(SIM_IMEI_REQ);
    if (reply.type() == QDBusMessage::ErrorMessage)
        qDebug() << reply.errorMessage();
    else {
        QList<QVariant> args = reply.arguments();
        qDebug() << args;
        label.setText(QString("Phone's IMEI: %1").arg(args.at(0).toString()));
    }

    return a.exec();
}
```


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