

Archived:Receiving SMS in PySymbian (Known Issue)



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Description

Conventionally, the [PySymbian](#) code snippet below is used to listen and read incoming SMS constantly.

```
import inbox, appwuifw, e32

def message_received(msg_id):
    box=inbox.Inbox()
    appuifw.note(u"new message: %s" % box.content(msg_id))
    app_lock.signal()

box = inbox.Inbox()
box.bind(message_received)

app_lock = e32.Ao_lock()
app_lock.wait()
print "Message handled"
```

The above code works well on when run as a script. However, when the same script is converted to a SIS file and then executed, the application crashes. On using one of the [PySymbian debugging techniques](#), it is found to have thrown a `MemoryError`.

If you have a workaround or a proposed solution for this issue, please feel free to edit this article to add the proposed solution.

Problem

The implementation (see below) listens to `EMsvEntriesCreated`, and then reports that message has arrived. However, at this point the message is not yet fully initialized. One has to wait that `EMsvEntriesChanged` arrives. This might be reason why people are using `"logs.sms(mode='in')[0]"` to read the message, I think it works by accident because there is longer delay (here is code clip, it demonstrates another problem but you get the idea: <http://www.developer.nokia.com/Community/Discussion/showthread.php?140607-SMS-Problem>).

It should be done like this: [Listening for incoming SMS messages using Symbian C++](#)

Note that this solution might work too: [SMS Receiver](#) I don't understand why it works, unless the `"CMsvEntry* parentEntry"` magic has some kind of side-effect not seen on code (note that that variable is not used anywhere).

```
void CInboxAdapter::HandleSessionEventL(TMsvSessionEvent aEvent, TAny* aArg1, TAny* aArg2, TAny* /*aArg3*/)
{
    TInt i;
    switch(aEvent) {
        // New entries only
        case EMsvEntriesCreated:
            {
                if (iCallbackSet) {
                    // Messages that are created in Inbox
                    TMsvId* parent;
                    parent = static_cast<TMsvId*>(aArg2);

                    // XXX is this needed for Outbox etc.?
                    // Check the parent folder to be global inbox
                    if(*parent != KMsvGlobalInBoxIndexEntryId)
                        return;

                    CMsvEntrySelection* entries = static_cast<CMsvEntrySelection*>(aArg1);
                    for(i = 0; i < entries->Count(); i++) {
                        iErrorState = iCallMe.NewInboxEntryCreated(static_cast<TInt>(entries->At(i)));
                    }
                }
                break;
            }
        default:
            break;
    }
}
```

