MeeGo 1.2 Harmattan Security Tokens

MeeGo 1.2 Harmattan APIs/Qt Quick Modules that require security credentials

This section lists all MeeGo 1.2 Harmattan and Platform APIs and Qt Declarative modules that require security credentials. Please do not add any unnecessary tokens to your application's Aegis Manifest file.

APIs that require security tokens

UPDATE (12th Dec 2011): Tokens with strikethrough are not available and methods requiring them to work will be removed from official harmattan documentation soon

API	Required token
Accounts Framework	▪ TrackerReadAccess ▪ TrackerWriteAccess
Associate Content with Actions	▪ TrackerReadAccess
Location Extras	▪ GRP::metadata-users ▪ Location ▪ TrackerReadAccess ▪ TrackerWriteAccess
Location Picker	▪ Location ▪ TrackerReadAccess
QmSystem	▪ ~~mce::CallStateControl~~ *(check comments below)* ▪ ~~mce::DeviceModeControl~~ *(check comments below)* ▪ ~~timed::TimeControl~~ *(check comments below)* ▪ ~~dsme::DeviceStateControl~~ *(check comments below)* ▪ ~~mce::LEDControl~~ *(check comments below)* ▪ ~~mce::TKLockControl~~ (https://harmattan-bugs.nokia.com/show_bug.cgi?id=114) ▪ ~~mce::DeviceLockControl~~ *(check comments below)*
QtMobility Contacts	▪ GRP::metadata-users ▪ TrackerReadAccess ▪ TrackerWriteAccess
QtMobility Gallery	▪ TrackerReadAccess ▪ TrackerWriteAccess
QtMobility Location	▪ Location ▪ TrackerReadAccess ▪ TrackerWriteAccess
QtMobility Messaging	▪ Cellular ▪ TrackerReadAccess ▪ TrackerWriteAccess
QtMobility Multimedia	▪ GRP::pulse-access ▪ GRP::video
QtMobility Organizer	▪ GRP::calendar ▪ GRP::metadata-users ▪ TrackerReadAccess ▪ TrackerWriteAccess
QtMobility Systeminfo	▪ ~~mce::DeviceModeControl~~ *(check comments below)*

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QtMobility.systeminfo	~~mce::TKLockControl~~ *(check comments below)*
QtSparql RDF Tracker	TrackerReadAccess TrackerWriteAccess
Relevance Search	~~relevance::RelevanceAllContentTypes~~ *(check comments below)* ~~smartsearch::RelevanceAllContentTypes~~ *(check comments below)*
Share UI Extension API	TrackerReadAccess
Single Sign On	~~keychain-access~~ *(check comments below)*
Web Upload Services	TrackerReadAccess TrackerWriteAccess

Description of posix tokens can be found here.

Qt Declarative modules that require security credentials

Qt Declarative module	Required token
MapsPlugin	Location
QSparql	TrackerReadAccess TrackerWriteAccess
QtMobility.contacts	GRP::metadata-users TrackerReadAccess TrackerWriteAccess
QtMobility.gallery	TrackerReadAccess TrackerWriteAccess
QtMobility.location	Location TrackerReadAccess TrackerWriteAccess
QtMobility.messaging	Cellular TrackerReadAccess TrackerWriteAccess
QtMobility.organizer	GRP::calendar GRP::metadata-users TrackerReadAccess TrackerWriteAccess
QtMobility.systeminfo	Cellular ~~mce::DeviceModeControl~~ *(check comments below)* ~~mce::TKLockControl~~ *(check comments below)*
QtMultimediaKit	GRP::pulse-access GRP::video

(Courtesy of the MeeGo 1.2 Harmattan documentation team)

Almost complete list of tokens available

As Harmattan developer, you have maybe noticed that some applications work correctly only if launched by Qt Creator or via SSH and that they don't work when launched from the phone application menu or by terminal.

In fact, when we run an application as developer or inside develsh, it gets the following security tokens by default:
/home/developer $ accli -I Current mode: normal Credentials:

```
        UID::user
        GID::developer
```


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```
        CAP::chown
        CAP::dac_read_search
        CAP::fowner
        CAP::fsetid
        CAP::kill
        CAP::linux_immutable
        CAP::net_bind_service
        CAP::net_broadcast
        CAP::net_admin
        CAP::net_raw
        CAP::ipc_lock
        CAP::ipc_owner
        CAP::sys_chroot
        CAP::sys_ptrace
        CAP::sys_pacct
        CAP::sys_boot
        CAP::sys_nice
        CAP::sys_resource
        CAP::sys_time
        CAP::sys_tty_config
        CAP::lease
        CAP::audit_write
        CAP::audit_control
        CAP::setfcap
        GRP::root
        GRP::dialout
        GRP::video
        GRP::pulse-access
        GRP::users
        GRP::metadata-users
        GRP::calendar
        AID::.develsh.
        Cellular
        TrackerReadAccess
        TrackerWriteAccess
        Location
        FacebookSocial
        tracker::tracker-extract-access
        tracker::tracker-miner-fs-access
        libaccounts-noa::accesssvt
        package-manager::packagemanager_limited
        package-manager::packagemanager_private
        icd2::icd2-plugin
        develsh::develsh
```

But, when the same app is launched by the application menu or by the teminal, it takes only these capabilities. /home/user $ accli -I Current mode: normal Credentials:

```
        UID::user
        GID::users
        SRC::com.nokia.maemo
        AID::com.nokia.maemo.meegotouchhome-nokia.
        meegotouchhome-nokia::meegotouchhome-nokia
```

As you can see here, the capabilities granted to applications which run as user are really few. For this reason on harmattan we

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have Manifest files. A Developer can write only one manifest file for Debian package. Each manifest file can request additional capabilities to one or more applications installed by the package.

What tokens this APIneed?

Here is the list of functions which I don't know what capabilities need to work correctly

- **Bluetooth Mobility API**: 'QL2capServer::listen' fails for low ports. (eg: 0x20). It works fine without requiring tokens for higher ports (eg: 0x1001) or 0x0. It runs fine in develsh without needs of tokens.

Further readings

- Harmattan Security guide

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