

# Building Qt applications for Symbian

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# Required software

- Perl  $\geq$  5.6.1, JRE  $\geq$  1.4.2
- ADT
- SDK
- Open C/C++ plug-in
- Qt for Symbian
- Qt Mobility for Symbian (optional)

# ADT

- contains only Carbide.c++ 2.3.0
- Can be found here:  
[http://developer.symbian.org/main/tools\\_and\\_kits/](http://developer.symbian.org/main/tools_and_kits/)

# SDK and Open C Plug-in

- Specific for each version of Symbian
- SDK includes libraries, emulator, debugger...
- Version and link to SDK can be found for concrete device: <http://www.forum.nokia.com/devices>
  
- Open C Plug-in provides C libraries: **libc**, **libdl**, **libpthread**, **libm**, **libz**, **libcrypt**, **libcrypto**, **libglib**, and **libssl**.
- Open C Plug-in provides C++ libraries: **IOStreams**, **STL**, and **Boost**
- Open C Plug-in can be found at <http://www.forum.nokia.com/>

# Building for emulator

- Build with WINSCW x86 C++ compiler
- Run in emulator.exe

# Building for device

- Build with GCCE C++ compiler
- Create package
- Sign package
- Install package on device
  - Copy on card and run
  - Install by Nokia PC Suite
  - Install by AppTRK

# Capabilities

- **User Capabilities:** LocalServices, NetworkServices, ReadUserData, UserEnvironment, WriteUserData, *Location*
- **System Capabilities:** *Location*, PowerMgmt, ProtServ, ReadDeviceData, SurroundingsDD, SwEvent, TrustedUI, WriteDeviceData
- **Restricted Capabilities:** CommDD, DiskAdmin, NetworkControl, MultimediaDD
- **Device Manufacturer Capabilities:** AllFiles, DRM, TCB

# Signing package

- Self-signed
- **Symbian signed:**
- Open Signed Online
- Open Signed Offline
- Express Signed
- Certified Signed

# Installing Qt on device

- Before running Qt application on the device you should install qt\_installer.sis package on this device. You can find this package in directory where you have installed Qt Symbian SDK.