

Build Package Overview

NOKIA

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Package Owner for the Build Package

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General Info

- **Raison d'être:** The **Build** package is the official Tools package containing the (command-line) tools necessary to build **applications** for the Symbian platform **and the Symbian platform** itself.
- The Build package is available under the **Eclipse Public License** as of **w44**.
- **Fortnightly** synchronisation with the Build package **FCL** for Raptor... more components will follow.
- Raptor **workshop at SEE2009** presented by Dan Jacobs was a **great success** and content **videoed** (?) for addition to the [Build package wiki](#).
- Related to the **Build Tools** package (in the OS model)
 - Consolidation strategy – migrate useful content to **Build** package and shut down

Contents Overview

- **Build** package contains:
 - **Raptor**
 - Symbian Build System v2
 - High-performance parallel build engine, Linux-capable
 - **Helium**
 - Build automation framework
 - Encapsulates Raptor and iMaker
 - **ROM Tools**
 - Create ROM, ROFS and data-drive images (DDI)
 - Used for Production devices, HRP's and Simulator
 - **iMaker**
 - Unified front-end to the ROM Tools
 - Enables customised image sets to be built (ROM+ROFS+DDI)

2009H2 – Highlights

• Raptor

- **RVCT 4** compiler support
- **GCCE 4** compiler support
- Parallel parsing (a.k.a. Multicore makefile)
- **System Definition v3** support

DONE

DONE

IN PROGRESS

IN PROGRESS

• Helium

- **Qt** build support
- **System Definition v3** support
- **Linux** support

• ROM Tools

- **Multithreading** support
- Compression algorithm **performance** improvement
- ROFSBUILD **caching**
- Dependency visualisation

DONE

DONE

IN PROGRESS

IN PROGRESS

• iMaker

- **Linux** support
- Configuration Engine (**ConE**) integration
- iMaker configuration API

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2010H1 – High priority features

- **Raptor**

- TOOLS2_WIN32 cross-compilation
- Incremental makefile generation (a.k.a. Lazy makefiles)
- Closer integration with Helium
- Closer integration with iMaker

PLANNED

PLANNED

PROPOSED

PROPOSED

- **Helium**

- *Strong focus on Linux improvements*

- **ROM Tools**

- ROMBUILD caching
- Linux support
- Removable media image creation
- Closer integration with iMaker

PLANNED

PLANNED

PLANNED

PROPOSED

- **iMaker**

- [waiting for input]

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