# Firmware Quick Start Guide

Version 1.05

This document provides a short set of instructions for installing HCC-Embedded firmware products.

## Full Project Delivery

This process should be used if a full project was delivered.

    a. Extract the zipped project file provided to your chosen working folder for this project (PROJECT_ROOT).

    b. Documents for the products and source tree are in PROJECT_ROOT/hcc/doc.

    c. The configuration files in PROJECT_ROOT/hcc/src/config should be configured in accordance with your requirements and with reference to the product manuals.

    d. A readme for the project can be found in PROJECT_ROOT/project/doc.

## Package update

This process should be used if an update package is received for a component in your project.

    a. Extract the package to the PROJECT_ROOT folder. Overwrite the existing package.

    b. New files under PROJECT_ROOT/hcc/src/config_template must be merged with your existing configuration settings in PROJECT_ROOT/hcc/src/config.

    c. New files under PROJECT_ROOT/hcc/src/psp_template must be merged with your existing platform support package in PROJECT_ROOT/hcc/src/psp.

    d. Package documentation should be checked in case new configuration parameters or features have been added.

## New Package(s)

This process should be done if a set of new packages is received and the developer needs to create a project from them.

    a. Extract all the supplied zipped package files to your chosen working folder for this project (PROJECT_ROOT). (Note: config_oal.h might be present in multiple archives; allow it to be overwritten).

    b. Documents for the products and source tree are in PROJECT_ROOT/hcc/doc.

    c. Create directory PROJECT_ROOT/hcc/src/config if it does not exist.

    d. Copy (but do not allow existing files to be overwritten) all files from PROJECT_ROOT/hcc/src/config_template *to* PROJECT_ROOT/hcc/src/config.

    e. Copy all files from PROJECT_ROOT/hcc/src/psp_template *to* PROJECT_ROOT, but do not allow existing files to be overwritten.

    f. The platform support package functions in PROJECT_ROOT/hcc/src/psp/target should be ported to your target as indicated in the product manuals.

g. Configuration of the OS Abstraction Layer: Use the table below to configure all the required OAL elements in the file: PROJECT_ROOT/hcc/src/config/config_oal.h.

| | USB Host | USB Device | FAT* | SafeFAT* | SafeFLASH* | TINY | TCP/IP |
|---|---|---|---|---|---|---|---|
| OAL_TASK_SUPPORTED | x | x | | | | | x |
| OAL_TASK_GET_ID_SUPPORTED | x | x | x | x | x | | x |
| OAL_TASK_SLEEP_SUPPORTED | x | | | | | | x |
| OAL_MUTEX_SUPPORTED | x | x | x | x | x | x | x |
| OAL_EVENT_SUPPORTED | x | x | | | | | x |
| OAL_ISR_SUPPORTED | x | x | | | | | x |

 * No OAL items are required for THIN and SafeFTL, or if the system is used without an OS.

h. The configuration files in PROJECT_ROOT/hcc/src/config should be configured in accordance with your requirements and with reference to the product manuals.