

# How to build

## SigTest Tool Build Instructions

This page describes how to build the SigTest tool binary. Some notes before you get started:

- In order to contribute code to the project you must have a contributor role. See [Mobile & Embedded Community Governance](#) for information about the different community roles.
- For a description of how the SigTest tool repository is organized, read [SigTest Tool Repository Structure](#).
- The [SigTest Tool Developer's Guide](#) describes how the source code is organized and provides important information for developers who want to modify the code.
- The [SigTest Tool Source Code Description](#) describes how the SigTest tool source code is organized.

### Table of Contents

- [Requirements](#)
- [Checking out the source](#)
- [Configure and Run the Build](#)
- [Additional Build Targets](#)

### Requirements

The SigTest tool build requires the technologies listed in the following table.

| Technology  | Where to Get It   |
|---|---|
| Ant version 1.6.5 or later  | <a href="http://ant.apache.org/">http://ant.apache.org/</a>   |
| JDK version 5.0   | <a href="http://java.sun.com/j2se/1.5.0/">http://java.sun.com/j2se/1.5.0/</a>                               |
| JDK version 1.4.2 (optional)  | <a href="http://java.sun.com/j2se/1.4.2/download.html">http://java.sun.com/j2se/1.4.2/download.html</a>     |
| CDC Reference Implementation 1.1 (JSR 218) (optional, Linux) <u>OR</u> Sun Java Toolkit 1.0 for CDC (optional, Windows) | <a href="http://java.sun.com/javame/downloads/index.jsp">http://java.sun.com/javame/downloads/index.jsp</a> |

### Checking out the source

The SigTest tool repository is located on OpenJDK servers, in the CodeTools Project. It is stored in mercurial vcs, and can be uploaded from mercurial via the following command:

```
% hg clone http://hg.openjdk.java.net/code-tools/sigtest
```

### Configure and Run the Build

The following steps describe how to build SigTest tool. These instructions assume that your SigTest tool local working copy is named `sigtest`.

1. Set up and configure the JDK 5.0, JDK 1.4.2 (optional), and CDC Reference Implementation 1.1 (JSR 218) (optional).
  - Download and install the JDKs and/or CDC RI.
  - Set the environment variable `JAVA_HOME` to point to the JDK 5.0.
2. Set up and configure the Ant software.
  - Download and install the Ant software.
  - Set your execution path so that it contains the `ant` command. For example: `ANT-dist-path/bin/ant`
3. Make `sigtest/build` the current directory.
4. Edit the `sigtest/build/build.propertiesfile`.
  - The `jdk5.home` property specifies where the JDK 5.0 is located.
  - The optional `jdk4.home` property specifies where the JDK 1.4.2 is located. Only needed if you wish to run SigTest for Java SE 1.4 libraries, specify.
  - The optional `cdc.boot` property specifies bootclasspath used to compile classes for testing CDC libraries. If not specified, built SigTest will not support CDC classes testing.
5. Execute the `ant` command.

The output of the build (`sigtest-<VERSION>-build` directory) contains the following files and subdirectories:

- `sigtest-<VERSION>.zip` -- SigTest distribution file. Contains examples, javadocs, `sigtest.jar`, `sigtestdev.jar` and basic documentation files.
- `release/` -- Unpacked SigTest distribution.
- `temp/` -- Temporary build directory.

## Additional Build Targets

The following additional targets are available. You might wish to identify these targets to your IDE (for example, NetBeans).

| Build Target    | Description                                 |
|-----------------|---|
| build (default) | Builds all binaries, doc and distributions. |
| clean           | Removes the entire build directory.         |
| help            | Prints the usage message.                   |
| bin             | Produces binaries.                          |
| devbuild        | Produces binaries and javadocs.             |
| javadoc         | Produces javadocs.                          |
| test            | Performs sanity test.                       |