

# **Updater**

## **Design Notes**

# **Interactive Laboratories**



# Updater

## Change Log

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Version	Author	Changes
1.0.0.0	Rico	Initial revision
1.0.0.1	Rico	Modified the rules for where the MD5 hash values are stored



# Updater

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# Updater

## Preface

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This document is a compilation of notes to aid in describing the Updater program.





# Updater

## Update Process

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### Determining Files to Update

Updater will connect to the FTP site provided by configuration settings and proceed to direct itself to the appropriate directory for the platform. In order to limit bandwidth and verify the contents of a file, there will be a series of files containing MD5 hashes in binary form. Updater will then proceed to download the MD5 hash files and compare the values in them against the files stored locally. If the hash values are different, the differing file on the server will be obtained.

### Directory Layout on the FTP Server

To facilitate in the process of determining files which need to be downloaded, the FTP server's directory layout for serving files must follow the following format:

/projects/<project>/<platform>/builds/<build type>/archive/<year>/<month>/<day>/<time>/.md5

/projects/<project>/<platform>/builds/<build type>/latest/.md5

#### **/projects**

Root directory for multiple projects to be available from one FTP site.

#### **<project>**

Name of the project for which the files are to be updated.

#### **<platform>**

Specify the platform the files are for.

#### **builds**

A project may have various builds, such as Prototype, Alpha, Beta, Stable, Unstable, Release, PointRelease, 1.0, and so on.

#### **<build type>**

Build type for a project, as listed in builds. This is an arbitrary value which is significant only to the developer's build naming convention.

#### **archive**

Archived versions of the build for the project.

#### **<year>**

Year of archive version.

#### **<month>**

Month of archive version.

### **<day>**

Day of archive version.

### **<time>**

Time of build committed to FTP site in the format of HHMMSS (Hour/Minute/Second).

### **latest**

Current build of the project for the build type.

### **.md5**

Contains the MD5 hashes of the current directory as <filename> <MD5>, where filename is the null-terminated text name of the file and MD5 is the 128-bit (16-byte) MD5 hash of the file. Each sub-directory contains this .md5 file.