

Updater

Design Notes

Interactive Laboratories

Updater

Change Log

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
1.0.0.2	Rico	Added Command-Line Arguments section
1.0.0.3	Rico	Updated Table of Contents

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Preface

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

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Update Process

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.

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Command-Line Arguments

Format

Commands are passed to *Updater* with the double-hyphen and single-hyphen syntax familiar to *nix platforms. A command takes the form of [`<--command>|<-c>`] `<parameter>` where `-c` is the single-character version of the command. The single-character version of the command does not necessarily have to be the first character in the full version of the command. Spaces and tabs are the delimiters that sit between commands and their parameters.

List of Commands

Long Version	Short Version	Comments
config-file	f	Sets the configuration file to use
site	s	Site IP address or hostname
port	p	Site port to connect to
project	r	Project to download
platform	m	Platform to use for project
build-type	t	Build type to retrieve
output-download-summary	o	Location of the session's file download summary, including the file names and their respective MD5 hashes
active-mode	a	Use Active mode to connect to the FTP site (defaults to Passive)
port-range	n	Define a port range to use for Active mode connections, uses a hyphen to specify range
usage	u	Displays the commands that can be used