XEngine UPDate Service Docment

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# Preface

## Reader

Developer ,tester

## **Overview**

This document contains related technical descriptions and interface definitions

## Associate Module

The service used XEngine as Network Toolki.if you want to use code,you have to installed XEngine

# 一 Technical structure

Used to tcp protocol though basic protoco

## Directory Structure

* XEngine\_Docment:docment path
* XEngine\_Release:complie release path
* XEngine\_Source:code path

## Source Directory

* XEngine\_UPDater:Cross-platform application
* Other projects are dependent modules

# 二 Configure Env

## 2.1 WINDOWS

Need to download XEngine.

Complie and run and debug by vs2019.

Download address:https://gitee.com/xyry/libxengine

https://github.com/libxengine/xengine

### 2.1.1 Configure Environment

Follow the instructions in the XEngine Readme file to execute the script to configure the environment. If succeed, you will see the following values in your system environment variables.



### 2.1.2 complie and run

When you complete with configuration.you can come in code path.open XEngine\_MQServiceApp.sln by vs2019 and choice x86(debug or release) or x64(just release) complie.

If environment not have error.complie is succesed.contrain 4 module and 1 exe program

After success, you can copy VSCopy.bat to your compilation directory, and running it will automatically copy the modules you need to your current program directory

Note: You can run the program directly, the system will prompt you what you need, you can directly enter the XEngine directory to search.

## 2.2 LINUX

### 2.2.1 Evnironment Configure

If you use linux.you must running on ubuntu(20.04) or centos(8.x)...

After download complete.you can install xengine it by the shell file.

Execute command:sudo XEngine\_LINEnv.sh -i 3

### 2.2.2 Complie and Run

Configure complete.you can complie it.open terminal in you xengine\_storage dir and execute command.

complie:make

install:make FLAGS=InstallAll

clean:make FLAGS=CleanAll

If there is no error.you can see complied XEngine\_UPDateApp file in XEngine\_Releas

## 2.3 Version Requirements

### 2.3.1 System Version

Minimum version requirements:

WINDOWS: win7 sp1

Ubuntu:20.04

Centos:8.x

### 2.3.2 Software Version

Minimum version requirements:

XEngine:V7.19

# 三 Interface Protocol

Use HTTP to implement network communication and software update

Payload json information update

# 四 Configure Description

Configure File:XEngine\_Config.ini

## 4.1 Basic Configure

Configure Information:ServiceConfig

* bIsDown:0 Just Check update,1 download
* tszUPUrl:update address,need to program create
* tszLocalList:local update list address,need to program create
* tszDownPath:Download file temporary save path

## 4.2 List Create

Configure Information:ServiceMake,the Configure use to update create,other time not useful.

* tszUPFile:update url file,like this:XEngine\_Release.txt
* tszUPUrl:update url address,like this:http://www.xyry.org/UPLoad/

The final program is:http://www.xyry.org/UPLoad/XEngine\_Release.txt

## 4.3 Log Configure

Configure Information:XLog just only use to version without interface

* nMaxSize:max log file size
* nMaxCount:file back number
* nLogLeave:log level
* tszLogFile:log save address

# 五 operation manual

## 5.1 Generate list

Run the program in terminate or command.first create update list file

./XEngine\_UPDater -m ./The directory to be updated, it is recommended to use a relative path

After the updated list file is generated, you can open it in text to check whether the content is correct

Success will generate./XEngine\_Config/XEngine\_Release.list local configure

XEngine\_Release.txt remote configure,the file need update to the server

## 5.2 edit update

Local file list XEngine\_Release.list will be auto update,The user does not need to modify it specially except to make sure that it generates no errors..

The remote list needs to be edited by the user. The remote list fields are as follows

MainVersion:mainly version,This version number is higher than the local version to update

MainDescription:Version description

DelList:List of files to delete, array[“1.exe”,”2.exe”]

UPList:update of file,this list file need to match your local file list

ModuleCode:module number,can be HASH

ModuleDownload:download address

ModuleName:module name

ModuleRun:is it run,1 is running

ModuleVersion:module version,Use this value to determine whether to update

If you need to update a module, you need to change the main version number, and then modify the version number of the module that needs to be updated..

## 5.2 update file

If your program download configuration is 0, then it will only check whether there is an update, otherwise it will automatically download the file that needs to be updated

After downloading the file, the system will automatically install the file to your directory and execute the cleanup procedure.

# appendix

## Appendix 1 Type Define

reference file:XEngine\_CommHdr.h

## Appendix 2 Protocol Define

reference file:XEngine\_ProtocolHdr.h

## Appendix 3 Transformation Definition

reference file:XEngine\_Types.h only LINUX