

WISE-PaaS/OTA 用户手册

V2.0.4

ADVANTECH

Enabling an Intelligent Planet

版权声明

随附本产品发行的文件为研华公司 2016 年版权所有，并保留相关权利。针对本手册中相关产品的说明，研华公司保留随时变更的权利，恕不另行通知。未经研华公司书面许可，本手册所有内容不得通过任何途径以任何形式复制、翻印、翻译或者传输。本手册以提供正确、可靠的信息为出发点。但是研华公司对于本手册的使用结果，或者因使用本手册而导致其它第三方的权益受损，概不负责。

认可声明

Intel 和 Pentium 为 Intel Corporation 的商标。

Microsoft Windows® 为 Microsoft Corp. 的注册商标。

所有其它产品名或商标均为各自所属方的财产。

技术支持与服务

1. 有关该产品的最新信息，请访问研华公司的网站：

<http://support.advantech.com.cn>

2. 用户若需技术支持，请与当地分销商、销售代表或研华客服中心联系。进行技术

咨询前，用户须将下面各项产品信息收集完整：

- 产品名称及序列号
- 外围附加设备的描述
- 用户软件的描述（操作系统、版本、应用软件等）
- 产品所出现问题的完整描述
- 每条错误信息的完整内容

1 前言

1.1 软件应用与背景

感谢您使用 WISE-PaaS/OTA(以下简称为本软件)，本软件为专业的远程软件升级系统。主要提供软件的远程更新服务，支持应用程序，补丁包，固件，驱动程序等的在线升级。

系统架构：

该系列软件包含 OTA Server 和 OTA Client(Client)两部分。籍由服务器端（Server）做更新包管理，排程设置，通过网络将更新文件传送至 OTA Client 进行软件部署和升级。

1.2 注意事项

本系统所支援的系统平台如下：

Server: Windows Server 2012 64bit

Client: Windows 7 / Windows 8 / Windows10 32bit 64bit

Server 端在使用之前需要安装和配置以下项目：

1) Java 虚拟机。可以从以下链接进行下载。

<http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html>

2) 本系统暂不提供存储装置(FTP 服务器)，使用过程中需要您自行架设 FTP 服务器。如果您的 FTP Server 与 OTA Server 不在同一台机器上，那么需要关闭 OTA Server 所在的服务器的防火墙。请保证您的 FTP Server 可以被外部访问。

3) 为了保证事件的有效性，请设定正确的操作系统时区与时间。

4) 升级包必须能够支援静默模式。

1.3 产品说明

1) OTA Server: Server 端主要包含设备管理，更新包管理，存储装置管理，事件管理模块。用户可以透过 OTA Server 来安装部署或者升级软件，提供主动请求更新和设置排程进行更新两种模式。

2) OTA Client: Client 端主要用来进行更新文件下载与执行升级或部署程序。

1.4 适用范围

Platform\ Upgrade Service	Windows	Linux (Lib+Demo)	Android (Lib+Demo)
Application	*	*	*
Patch	*	X	X
Provisiong	*	X	X
Driver	*	X	X
Firmware	X	X	X
BSP	X	*	*

Only silent installation packages can be supported.

* Support

X Not support right now

Windows: Application (exe/msi/bat) , Patch (exe/msi/bat) , Provisiong (bat) , Drivers (exe/msi/inf+sys+cat+auto install Tool) 。

Linux: Supports upgrade by script.

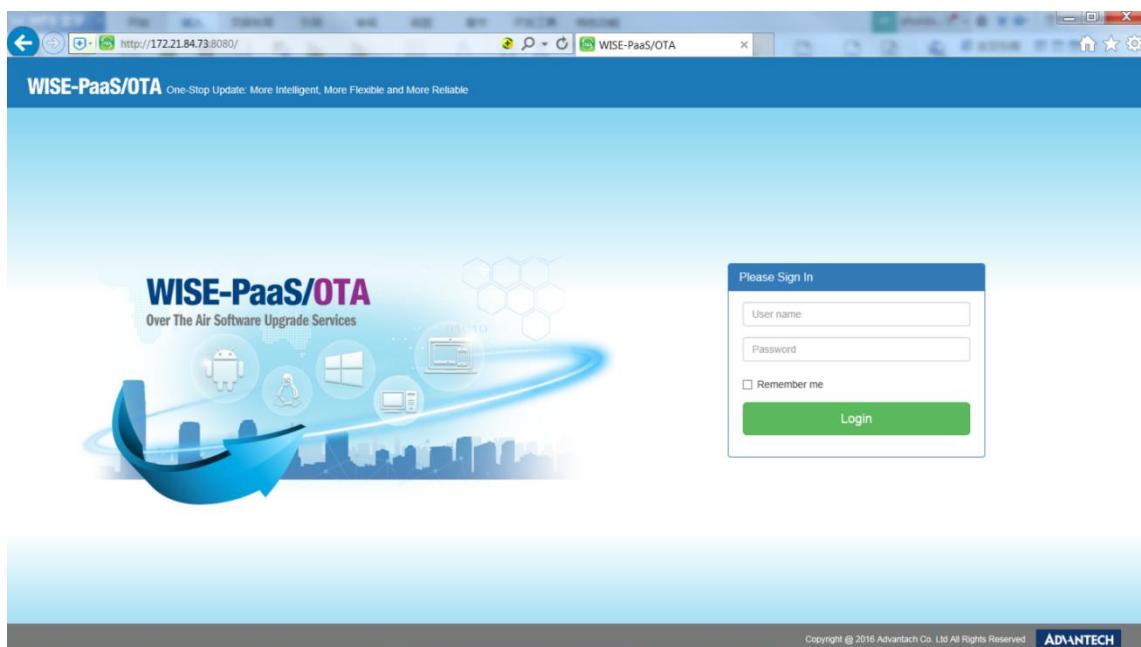
Android:apk, BSP

2 界面说明

2.1 系统登录和退出

2.1.1 系统登入

正确输入网址之后会进入登录界面，点击“Remember Me”之后系统会记住密码，并保持2周的时间。默认用户名为：[admin/admin](#)



2.1.2 系统退出

点击右上角的“Logout”按钮系统将退出当前系统。

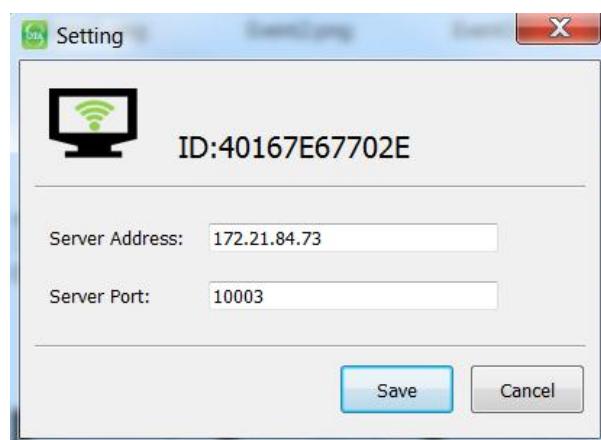
WISE-PaaS/OTA						
Device		Package				
No.	Type	Version	OS	Arch	Storage	Name
1	OTAPkgLogTest	2.0.11.844	n/a	n/a	default	OTAPkgLogTest-v2.0.11.844-945841b5cd269e...
2	OTAPkgLogTest	2.0.10.833	n/a	n/a	default	OTAPkgLogTest-v2.0.10.833-9df0c9c1175b89a...
3	win400m	1.0.0.5	n/a	n/a	default	win400m-v1.0.0.5-ea4cc3c878cdab901a891b6...
4	PushServer	1.0.0.0	n/a	n/a	default	PushServer-v1.0.0.0-0-847948b841051d18fdaa...
5	POSMonitor	4.0.0.0	n/a	n/a	default	POSMonitor-v4.0.0.0-0-a68b962a34338295b4f...
6	UShop	3.0.0.0	n/a	n/a	default	UShop-v3.0.0.0-ed848c727b4840c1f0866caed...
7	OTATest	3.0.0.0	n/a	n/a	default	OTATest-v3.0.0.0-2-1e329fa2f9f05b513f1c4d86...
8	OTAType	2.0.0.0	win7/win8/win10	x86_32	default	OTAType-v2.0.0.0-b3f45059de22c54250b3c37b...
9	test_innoSetup	1.0.0.0	n/a	n/a	default	test_innoSetup-v1.0.0.0-b6d5e469a5d30d2075...
10	OTAPkgLogTest	2.0.8.822	n/a	n/a	default	OTAPkgLogTest-v2.0.8.822-7ef1ffdd81161e34c...
11	LinuxPathTest	1.0.0.1	n/a	n/a	default	LinuxPathTest-v1.0.0.1-1f7774d242cb28d3d7598...
12	linuxSmall	1.0.0.1	n/a	n/a	default	linuxSmall-v1.0.0.1-47572c32f709de687f6eb58...
13	linux400m	1.0.0.5	n/a	n/a	default	linux400m-v1.0.0.5-a2bbde856f426f47dfefbd7...
14	linux100m	1.0.0.1	n/a	n/a	default	linux100m-v1.0.0.1-d1636f51e4c888fc3d6b6a7...
15	linux40m	1.0.0.1	n/a	n/a	default	linux40m-v1.0.0.1-4-n095024629-321442740007

2.2 设备连接

2.2.1 设备添加/删除

1) 设备主动上线

Client 端正确配置好 Server IP 和 Port 之后，设备会主动连接至 OTA Server。



No.	Online	Name	OS	Arch	Softwares	Upgrade-state
1		40167E67702E	win7	x86_32	0	
2		Alvin	win7	x86_64	1	
3		hello100	win7	x86_64	1	
4		hello101	win7	x86_64	1	
5		hello102	win7	x86_64	2	
6		hello103	win7	x86_64	1	
7		hello104	win7	x86_64	0	
8		hello105	win7	x86_64	1	
9		hello106	win7	x86_64	1	
10		hello107	win7	x86_64	3	
11		hello108	win7	x86_64	2	
12		hello109	win7	x86_64	1	
13		hello110	win7	x86_64	2	
14		hello111	win7	x86_64	2	
15		hello112	win7	x86_64	0	
16		hello113	win7	x86_64	1	

可以通过“Device Info”面板来查看当前设备的信息。

No.	Online	Name	OS	Arch	Softwares	Upgrade-state
1		40167E67702E	win7	x86_32	0	
Upgrade Info Software Info Schedule Info Device Info						
Device Name: 40167E67702E						
Device ID: 40167E67702E						
Device Online: online						
Device OS: win7						
Device Arch: x86_32						
Device desc: N/A						
2		Alvin	win7	x86_64	4	
3		hello100	win7	x86_64	4	
4		hello101	win7	x86_64	3	
5		hello102	win7	x86_64	4	
6		hello103	win7	x86_64	4	
7		hello104	win7	x86_64	4	
8		hello105	win7	x86_64	4	

2.2.2 服务器端主动要求更新

1) 下载并更新

点击“Upgrade”执行更新操作，Client 端会在下载完更新包之后立即开始部署。

The screenshot shows the WISE-PaaS/OTA software interface. On the left, there's a sidebar with options: Device, Package, Storage, and Event. The main area has tabs for Upgrade Info, Software Info, Schedule Info, and Device Info. The Upgrade Info tab is active. It displays a table with columns: No., Name, OS, Arch, Softwares, and Upgrade-state. Device 1 (row 1) has a status of '0' and 'Upgrading'. Below the table is a section titled 'Last Failed Information' with a single entry: 'Time' (4 minutes ago), 'Package' (poky_centos_ubuntu_10m-v1.0.0.1...), 'Action' (download), and 'Message' (Device download package failed). At the bottom, there are navigation buttons for pages 1 and 2.

2) 单独下载

点击“Download”执行更新包下载操作，下载完成之后不会立即进行部署。

This screenshot is similar to the previous one, showing the WISE-PaaS/OTA interface. The 'Download' button for device 1 is highlighted with a red box. The rest of the interface and data are identical to the first screenshot.

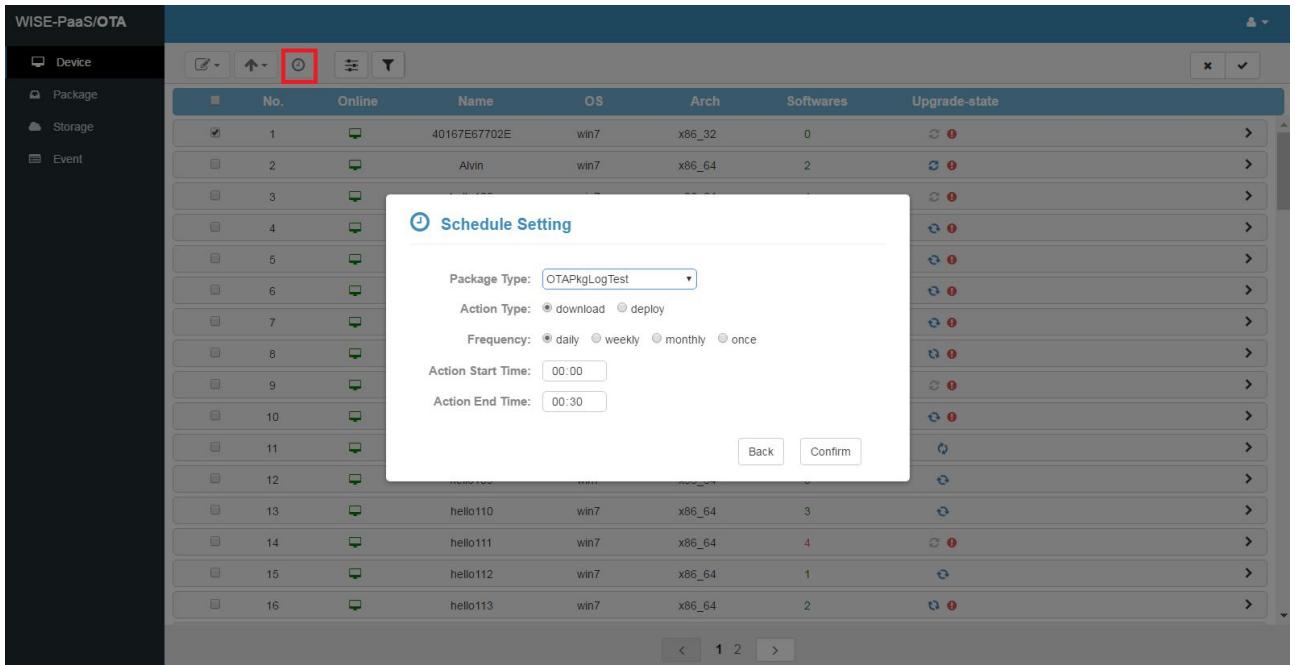
3) 单独安装

点击“Deploy”执行远程部署操作。如果升级包在已经下载完成，则执行 Deploy 操作会自动安装部署已经成功下载的设备终端的更新包。

No.	Upgrade	Name	OS	Arch	Softwares	Upgrade-state
	Download	40167E67702E	win7	x86_32	0	
2	Deploy	Alvin	win7	x86_64	2	
3		hello100	win7	x86_64	4	
4		hello101	win7	x86_64	1	
5		hello102	win7	x86_64	2	
6		hello103	win7	x86_64	3	
7		hello104	win7	x86_64	2	
8		hello105	win7	x86_64	3	
9		hello106	win7	x86_64	4	
10		hello107	win7	x86_64	3	
11		hello108	win7	x86_64	3	
12		hello109	win7	x86_64	3	
13		hello110	win7	x86_64	3	
14		hello111	win7	x86_64	4	
15		hello112	win7	x86_64	1	
16		hello113	win7	x86_64	2	

2.2.3 服务器端设置排程

点击“”按钮可以对不同类型的更新包进行排程设置，排程可以独立设置于每一台设备，设备与设备之间互不影响。每个设备的下载排程和部署排程需要分别进行设定。排程支持的频率包括：按天，按周，按月以及只执行一次。



设置成功之后可以通过查看 Device Schedule Info 信息来查看已经设置的 Information。

The screenshot shows the WISE-PaaS/OTA software interface. On the left is a sidebar with options: Device, Package, Storage, and Event. The main area has a toolbar with icons for search, filter, and refresh, followed by a title bar 'Online + upgradeFail'. Below is a table with columns: No., Online, Name, OS, Arch, Softwares, and Upgrade-state. The first row (highlighted with a red box) has 'No.' 1, 'Name' 40167E67702E, 'OS' win7, 'Arch' x86_32, 'Softwares' 0, and 'Upgrade-state' with a warning icon. Below the table are tabs: Upgrade Info, Software Info, Schedule Info (which is selected), and Device Info. Under 'Schedule Info', there's a sub-table with columns: PackageType, Action, Frequency, and Start ~ End. One entry shows 'OTAPkgLogTest' with 'Action' as 'download', 'Frequency' as 'daily', and 'Start ~ End' as '1:0 ~ 23:30'. The bottom of the main area shows a navigation bar with arrows and page numbers.

关于 Schedule 部分的特别说明：

- 1) Action End Time 在时间上要晚于 Action Start Time，否则无效。
- 2) 如果是 Schedule Type 是 Once，请确保设置的时间段在未来，否则也无效。
- 3) Action Start Time 和 Action End Time 限定了动作执行的时间区域，在 Start 时动作开始，在 End 时动作结束。如果 End 时动作没有完成，对于 Download 会暂停，在下次 Schedule 开始时继续。对于 Deploy，由于该类型的任务需要排队完成，如果处于排队状态，则任务取消，下次 Schedule 时进行；如果任务已经开始，则 End 时该任务继续进行，不会停止。
- 4) Schedule Type 为每日，设置的起始时间和结束时间在一个自然日中，不能跨日，也就是说结束时间不能超过 23:59:59 跨到第二天。
- 5) Schedule Type 为每周，设置的起始时间和结束时间在一个自然周中，不能跨周。
- 6) Schedule Type 为每月，设置的起始时间和结束时间在一个自然月中，不能跨月。

对于离线设备不能设置 Schedule。

2.2.4 搜索过滤

点击“”可以对设备的状态以及更新结果进行过滤。透过此过滤器可以快速的查看当前不在线的设备，或者更新失败的所有设备。如下图，选择所有不在线并且更新失败的设备。

Device Filter

Connection Status:

Upgrade Status:

OK

Device 页面中将显示按照“Offline+upgrade failed”条件筛选出来的设备。

The screenshot shows the WISE-PaaS/OTA interface. On the left is a sidebar with 'Device' selected. The main area has a title bar with icons and the text 'Offline + upgradeFail'. Below is a table with columns: No., Online, Name, OS, Arch, Softwares, and Upgrade-state. One row is shown: No. 1, Online (offline icon), Name 'hello114', OS 'win7', Arch 'x86_64', Softwares '2', and Upgrade-state with a blue circle and a red exclamation mark. Navigation buttons <, 1, > are at the bottom.

No.	Online	Name	OS	Arch	Softwares	Upgrade-state
1	offline	hello114	win7	x86_64	2	blue circle with red exclamation

2.2.5 其他设定

点击“”按钮可以设置如果 Download 或 Deploy 失败时需要 Retry 的次数，以及是否开启异常备份&回滚功能。请注意，此处设置的参数会应用于所有的设备。默认情况下，Download 的 Retry 次数为 3，Deploy 不进行 Retry。不开启备份回滚功能。

Device Setting (Settings apply to all devices.)

Download retry times (0-10):

Deploy retry times (0-3):

Rollback:

OK

2.2.6 更新状态查看

展开 Device 的条目，选择“Upgrade Info”卡片会显示当前下载或部署的进度以及状态。如果有下载或者部署异常信息会保留 15 天。

The screenshot shows the WISE-PaaS/OTA web interface. On the left is a sidebar with navigation links: Device, Package, Storage, and Event. The main area has a header with icons for edit, add, search, and refresh, followed by the text "Online + upgradeFail". Below this is a table with columns: No., Online, Name, OS, Arch, Softwares, and Upgrade-state. A single row is visible, showing No. 1, Online status with a green icon, Name 40167E67702E, OS win7, Arch x86_32, Softwares 0, and Upgrade-state with a red error icon. Below the table is a tabbed section with "Upgrade Info" selected, "Software Info", "Schedule Info", and "Device Info". The "Upgrade Info" tab contains a table titled "Last Failed Information" with columns Time, Package, Action, and Message. One entry is shown: Time "4 days ago", Package "poly_centos_ubuntu_10m-v1.0.0.1...", Action "download", and Message "Device download package failed". This entire "Last Failed Information" section is highlighted with a red border.

2.2.7 查看详细失败信息

如果您有按照 OTA 的 log 规范编写升级包监测 Log，当升级异常时可以在 Server 端查看详细的异常信息。

The screenshot shows the WISE-PaaS/OTA web interface. The sidebar includes Device, Package, Storage, and Event. The main area features a header with edit, add, search, and refresh icons, and the text "Online + resultFailed". Below is a table with columns: No., Online, Name, OS, Arch, Softwares, and Upgrade-state. Two rows are listed: one at "7 minutes ago" for "OTAPkgLogTest-v2.0.11.844..." with "deploy" action and message "[OTAPkgTest][2.0.11.844][result]failed,OTAPkgTest install failed"; another at "13 minutes ago" for "linux100m-v1.0.0.1..." with "deploy" action and message "Pr". A tooltip for the first message expands to show the full log: "1. [OTAPkgTest][2.0.11.844][result]failed,OTAPkgTest install failed
Initial setup.
Copy file...\\Copy Stretch7.5vrc7016L_diag.rom.
Copy file...\\fwStretch7.5vrc7016L_dfrtw.rom
Copy file...\\AdvantechVideoSDKRoot\\bin\\x86\\AvSDK.dll
Root: HKLM64; Subkey: SOFTWAREAdvantech failed". The table below lists 15 devices from No. 5 to 15, each with a green online icon, win7 OS, x86_64 Arch, and various Softwares counts (e.g., 7, 5, 4). The "Upgrade-state" column for most devices shows a red error icon, except for No. 13 which shows a green success icon.

2.2.8 当前软件版本查看

可以通过 Device 页面的 Software Info 页面查看当前已经部署过的所有软件名称，版本以及当前是否可用。

The screenshot shows the 'Software Info' section of the WISE-PaaS/OTA interface. It displays a table of deployed software packages across multiple devices. A red box highlights the 'Upgrade Info' tab, which provides detailed information about each package's name, version, and availability.

No.	Online	Name	OS	Arch	Softwares	Upgrade-state
1	online	40167E67702E	win7	x86_32	0	○ (red)
2	online	Alvin	win7	x86_64	4	○ (red)

Upgrade Info		
Software Name	Software Version	Software Usability
OTAPkgTest	2.0.8.822	Available
win100m	1.0.0.1	Available
win10m	1.0.0.1	Available
win400m	1.0.0.5	Available

No.	Online	Name	OS	Arch	Softwares	Upgrade-state
3	online	hello100	win7	x86_64	4	○ (red)
4	online	hello101	win7	x86_64	3	○ (red)
5	online	hello102	win7	x86_64	4	○ (red)
6	online	hello103	win7	x86_64	4	○ (red)
7	online	hello104	win7	x86_64	4	○ (red)
8	online	hello105	win7	x86_64	4	○ (red)

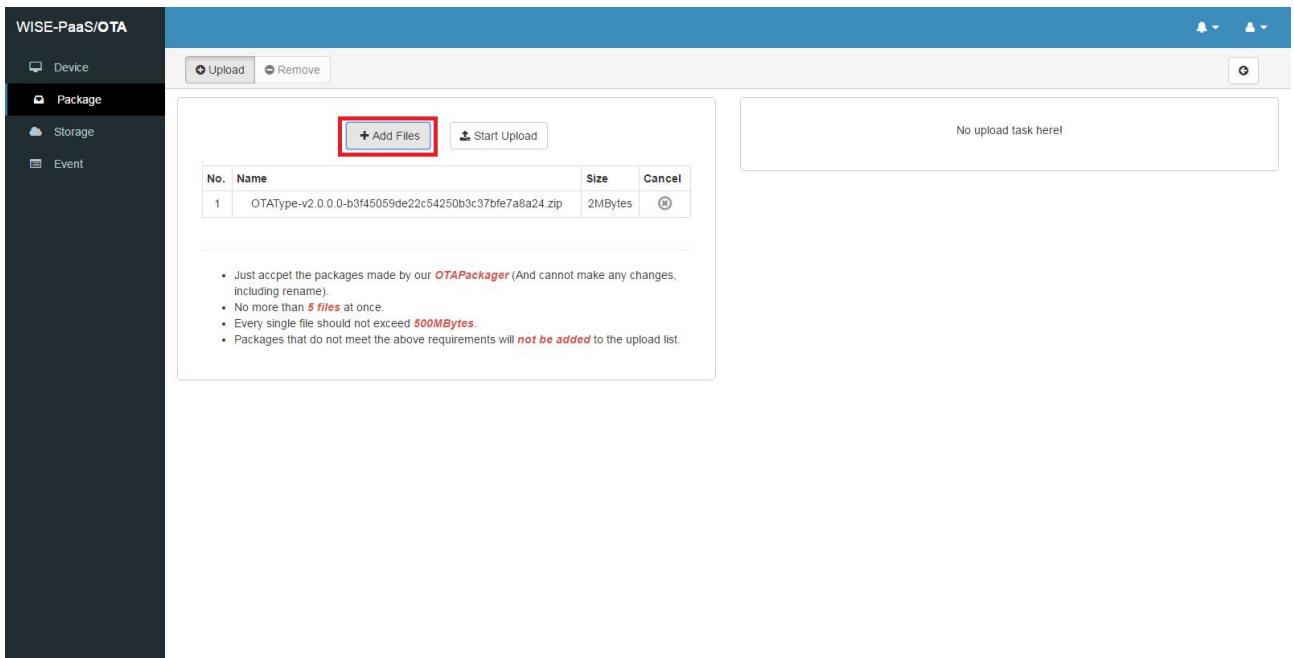
2.3 更新包管理

在使用 WISE-PaaS/OTA 进行系统升级或者部署时需要使用我们提供的 OTA Packager Tool 对您升级部署源文件进行压缩处理。详细使用方法请参见“OTAPackager 用户手册-Chinese.pdf”文档。

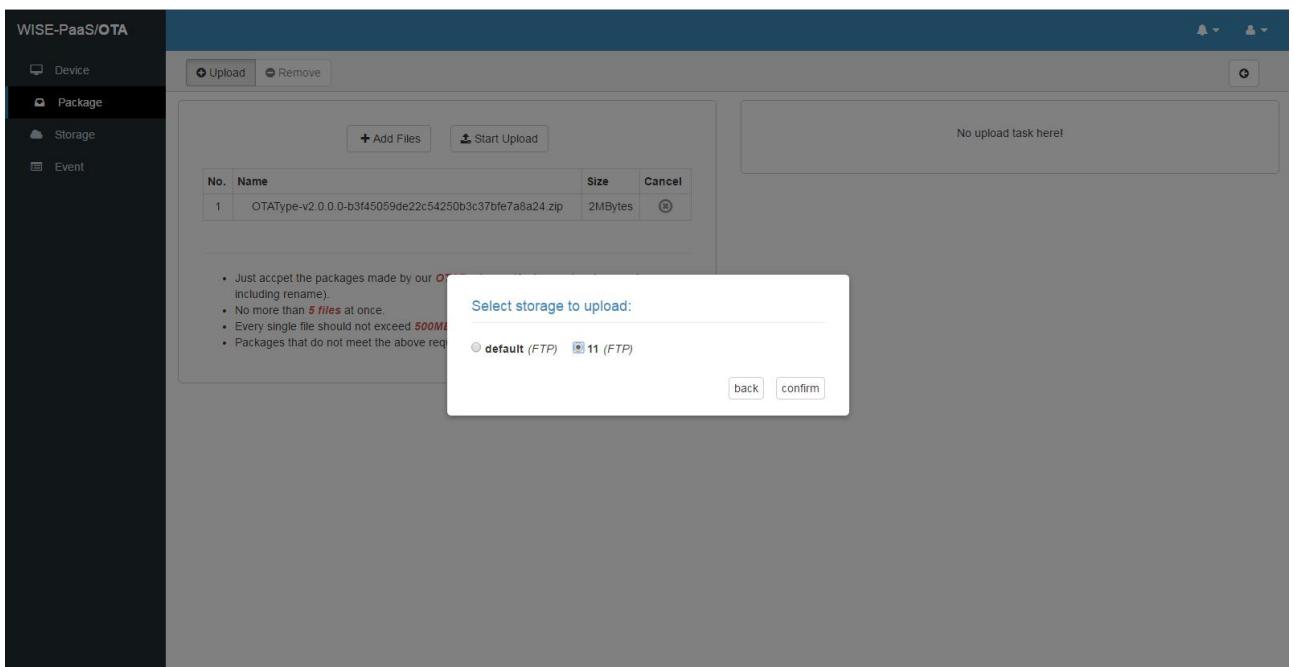
2.3.1 更新包制作

1) 点击“Upload”按钮会显示文件上传页面。使用“Add Files”添加您已经通过 OTA Packager Tool 制作的更新文件。

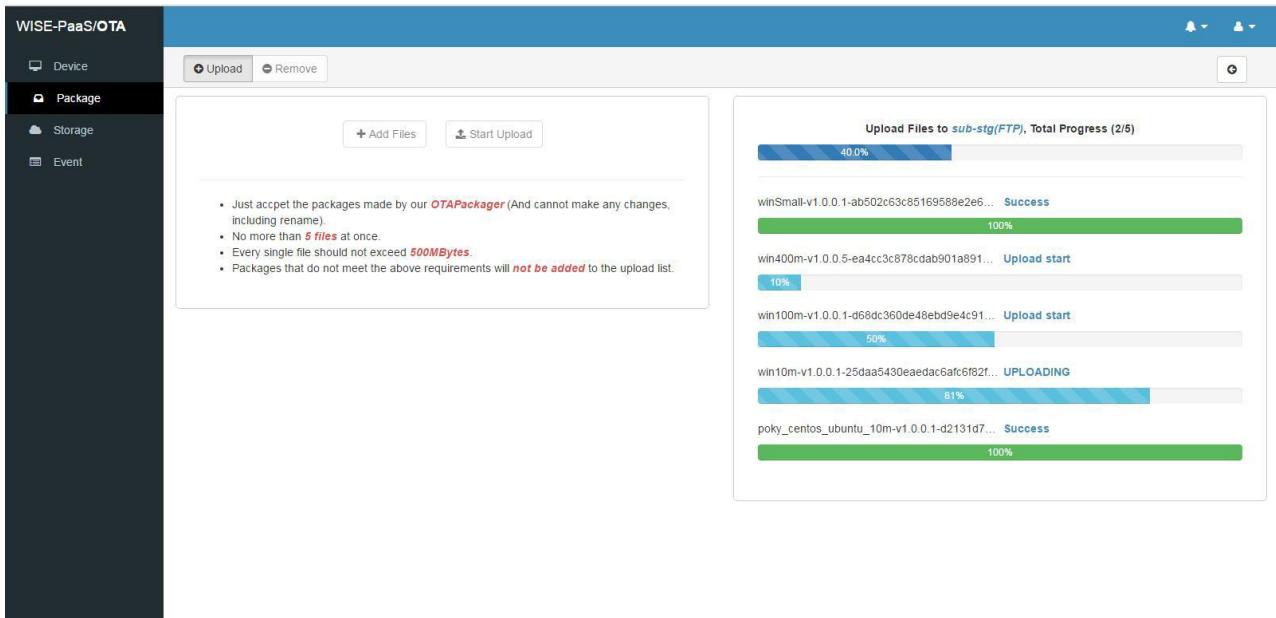
2.3.2 更新包上传



2) 文件添加完成之后，点击“Start Upload”进行上传。上传的过程中需要选择您已经配置好的存储装置。存储装置的配置方法请参见本文档 2.4 节，“存储装置管理”。



3) 上传进度和结果实时显示。



4) 列表查看所有更新包信息。

No.	Type	Version	OS	Arch	Storage	Name	操作
1	win400m	1.0.0.5	n/a	n/a	sub-stg	win400m-v1.0.0.5-ea4cc3c878cdab901a891b6a...	>
2	win100m	1.0.0.1	win7/win8/win10	n/a	sub-stg	win100m-v1.0.0.1-d68dc360de48ebd9e4c911a0...	>
3	win10m	1.0.0.1	n/a	n/a	sub-stg	win10m-v1.0.0.1-25daa5430eaedac6afc6fb2f8d...	>
4	poky_centos_ub...	1.0.0.1	CentOS-6.5/Ubu...	n/a	sub-stg	poky_centos_ubuntu_10m-v1.0.0.1-d2131d7706...	>
5	winSmall	1.0.0.1	win7/win8/win10	n/a	sub-stg	winSmall-v1.0.0.1-ab502c63c85169588e2e62e1...	>

2.3.3 更新包删除

1) 点击“Remove”按钮。

2) 选择需要删除的包。

3) 确认删除。

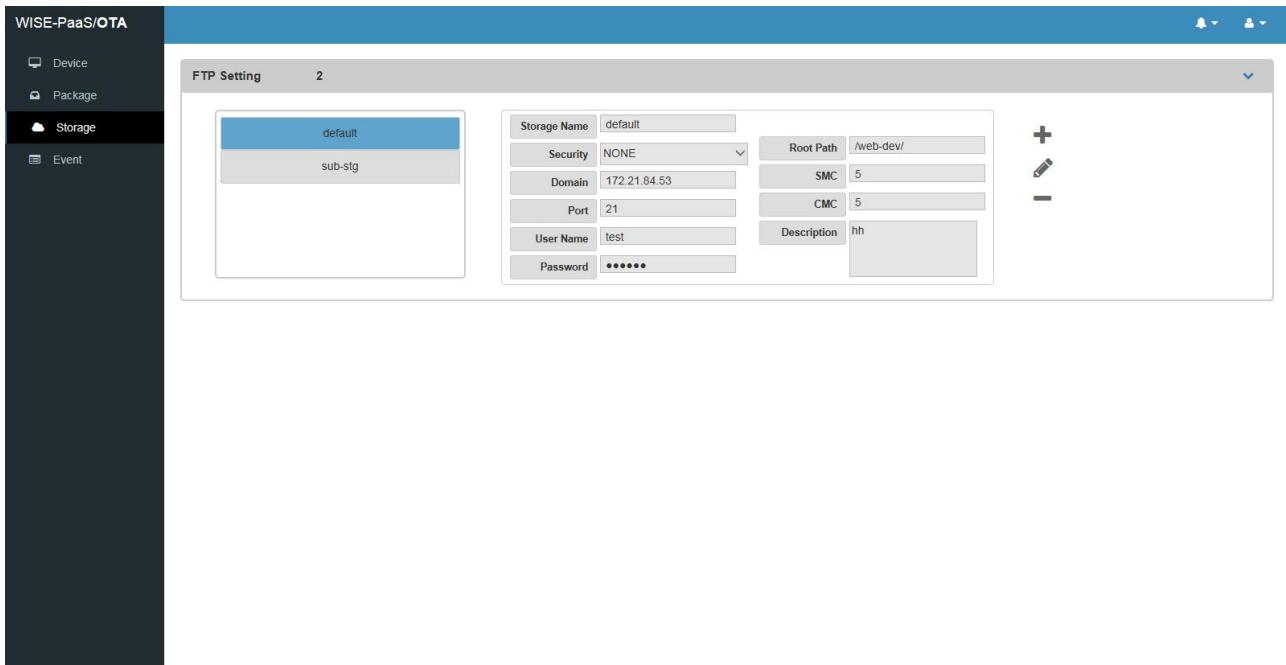
The screenshot shows the WISE-PaaS/OTA software interface. On the left sidebar, there are three main categories: Device, Package, and Event. Under the Package category, there are three sub-options: Storage, which is currently selected, and two others that are partially visible. The main content area displays a table of packages. The columns are labeled: No., Type, Version, OS, Arch, Storage, Name, and a red number '3' indicating the count of selected packages. The first package listed is '1 OTAType 2.0.0.0 win7/win8/win10 x86_32 11 OTAType-v2.0.0.0-b3f45059de22c54250b3c37bf...'. This package has a red border around its row and a red '2' next to its number. The second package, '2 linux400m 1.0.0.5 n/a n/a default linux400m-v1.0.0.5-a2bbde856f426f47dfebbd7d...', also has a red border. The third package, '3 poky_centos_ubu...', has a red border. The fourth package, '4 win10m 1.0.0.1 n/a n/a default win10m-v1.0.0.1-25daa5430eaedac6afc6f82fd...', has a checked checkbox in its selection column and a red border. The fifth package, '5 linux10m 1.0.0.1 n/a n/a default linux10m-v1.0.0.1-1c00839fb68c324d617d997...', does not have a red border. A modal dialog box is overlaid on the screen, titled 'Remove Packages:'. It contains the message 'Are you sure to remove these packages (Total 1)?' with 'Back' and 'Confirm' buttons. The 'Confirm' button is highlighted with a red border.

4) 删除完成

This screenshot shows the confirmation dialog for the package removal process. The title bar says 'Remove Packages:'. Below it, the message 'Total 1' is displayed in blue, followed by 'Succeeded 1' in green, and 'Failed 0' in red. At the bottom right of the dialog is a 'Done' button.

2.4 存储装置管理

- 1) 使用 添加新的 FTP 服务器，所有项目均为必填项。
- 2) 使用 修改已添加的 FTP 服务器。
- 3) 使用 移除已添加的 FTP 服务器。(移除并不会卸载您的 FTP 服务器，只是不在 OTA 系统中使用该 FTP 服务器)。



2.5 事件管理

2.5.1 事件浏览

Timestamp	Module	Target	Level	Message	操作
2016-10-25 10:39:46.706	Package	linux10m-v1.0.0.1-c00...	Information	Delete file finished. Success.	>
2016-10-25 10:39:29.065	Package	linux100m-v1.0.0.1-d16...	Information	Delete file finished. Success.	>
2016-10-25 10:36:58.355	Package	linux400m-v1.0.0.5-a2b...	Information	Delete file finished. Success.	>
2016-10-24 18:35:57.613	Package	linux400m-v1.0.0.5-a2b...	Information	Upload file finished. Success.	>
2016-10-24 18:34:18.393	Package	linux100m-v1.0.0.1-d16...	Information	Upload file finished. Success.	>
2016-10-24 18:33:44.314	Package	linux10m-v1.0.0.1-c00...	Information	Upload file finished. Success.	>
2016-10-24 18:33:41.174	Package	linuxSmall-v1.0.0.1-475...	Information	Upload file finished. Success.	>
2016-10-24 18:33:41.103	Package	LinuxPathTest-v1.0.0.1...	Information	Upload file finished. Success.	>
2016-10-24 18:33:06.911	Package	winSmall-v1.0.0.1-ab50...	Information	Delete file finished. Success.	>
2016-10-24 18:33:06.791	Package	linuxSmall-v1.0.0.1-475...	Information	Delete file finished. Success.	>
2016-10-24 18:33:06.742	Package	win100m-v1.0.0.1-d68d...	Information	Delete file finished. Success.	>
2016-10-24 18:33:06.600	Package	linux400m-v1.0.0.5-a2b...	Information	Delete file finished. Success.	>
2016-10-24 18:33:06.435	Package	win400m-v1.0.0.5-ea4c...	Information	Delete file finished. Success.	>
2016-10-24 18:25:20.189	Package	win400m-v1.0.0.5-ea4c...	Information	Upload file finished. Success.	>
2016-10-24 18:21:12.603	Package	linux400m-v1.0.0.5-a2b...	Information	Upload file finished. Success.	>
2016-10-24 18:19:33.6	Package	LinuxPathTest-v1.0.0.1...	Information	Delete file finished. Success.	>

2.5.2 按时间搜索

点击日历，选择日期（按天选择），则列表中会显示所选日期内的事件。

Timestamp	Module	Target	Level	Message
2016-10-21 15:27:24.650	Device	C03FD5394405	Error	OTATest-v1.0.0.1-db94761cccd117fa7ad28f572436585fa.zip download...
2016-10-21 14:45:08.813	Device	C03FD5394405	Error	linux10m-v1.0.0.1-c008393fb68c324d617d997468704bd.zip deploy fi...
2016-10-21 14:45:07.237	Device	C03FD5394405	Error	linuxSmall-v1.0.0.1-47572c32f709fde687f6eb580e21b7f6.zip deploy fi...
2016-10-21 10:57:52.430	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:56:57.969	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:56:33.953	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. Status is illegal.
2016-10-21 10:56:16.707	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:31:18.513	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.936	Package	LinuxPathTest-v1.0.0.1...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.826	Package	linuxSmall-v1.0.0.1-475...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.725	Package	winSmall-v1.0.0.1-ab50...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.632	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:20:38.142	Package	poky_centos_ubuntu_1...	Error	Upload file finished. Status is illegal.
2016-10-21 10:15:30.450	Package	poky_centos_ubuntu_1...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:14:50.391	Package	winSmall-v1.0.0.1-ab50...	Error	Upload file finished. Status is illegal.
2016-10-21 10:14:16.515	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.

2.5.3 按类型搜索

选择“All”会罗列出所有的事件；选择“Error”会筛选出所有 Error 类型的事件；选择“Information”会筛选出所有 Information 类型的事件。

Timestamp	Module	Target	Level	Message
2016-10-21 15:27:24.650	Device	C03FD5394405	Error	OTATest-v1.0.0.1-db94761cccd117fa7ad28f572436585fa.zip download...
2016-10-21 14:45:08.813	Device	C03FD5394405	Error	linux10m-v1.0.0.1-c008393fb68c324d617d997468704bd.zip deploy fi...
2016-10-21 14:45:07.237	Device	C03FD5394405	Error	linuxSmall-v1.0.0.1-47572c32f709fde687f6eb580e21b7f6.zip deploy fi...
2016-10-21 10:57:52.430	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:56:57.969	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:56:33.953	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. Status is illegal.
2016-10-21 10:56:16.707	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:31:18.513	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.936	Package	LinuxPathTest-v1.0.0.1...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.826	Package	linuxSmall-v1.0.0.1-475...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.725	Package	winSmall-v1.0.0.1-ab50...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:29:05.632	Package	linux10m-v1.0.0.1-c00...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:20:38.142	Package	poky_centos_ubuntu_1...	Error	Upload file finished. Status is illegal.
2016-10-21 10:15:30.450	Package	poky_centos_ubuntu_1...	Error	Upload file finished. The file transfer failed.
2016-10-21 10:14:50.391	Package	winSmall-v1.0.0.1-ab50...	Error	Upload file finished. Status is illegal.
2016-10-21 10:14:16.515	Package	linux100m-v1.0.0.1-d16...	Error	Upload file finished. The file transfer failed.

2.5.4 事件推送

当有新事件的时候会在右上角进行提示，点击它之后该事件会加入到事件列表中。

WISE-PaaS/OTA

Device Package Storage Event

2016-12-01 Error 12

Timestamp	Module	Target	Level	Message
2016-12-01 17:24:11.715	Device	hello152	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:21:46.041	Device	hello124	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:17:38.721	Device	hello120	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:15:39.468	Device	hello170	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:15:22.566	Device	hello165	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:13:16.568	Device	hello111	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:50.941	Device	hello184	Error	OTAPkgLogTest-v2.0.6.0-610fb5f70c51a206c33522ae63942f51.zip ...
2016-12-01 17:12:49.921	Device	hello182	Error	OTAPkgLogTest-v2.0.6.0-610fb5f70c51a206c33522ae63942f51.zip ...
2016-12-01 17:12:23.369	Device	hello146	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:18.271	Device	hello115	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:14.702	Device	40167E67702E	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:13.167	Device	hello135	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:09.562	Device	hello102	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:09.559	Device	Alvin	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:09.556	Device	hello100	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...
2016-12-01 17:12:09.051	Device	hello101	Error	poky_centos_ubuntu_10m-v1.0.0.1-d2131d77064a00a1ac0e8b666...

< 1 2 >

3 快速上手

3.1 服务器端主动升级

情景一：服务器端主动升级——集中式软件升级管理，一切尽在掌握中。

软件 A 有重要 bug 修复，客户需要对案场的所有安装该软件的设备进行升级。升级过程主要由小张负责，他希望自己能够掌控整个升级过程，有问题及时解决。他与案场相关人员协商好时间后统一进行软件 A 的升级部署。

小张准备好要升级的软件，使用 OTA 打包工具(OTA Packager Tool)将需要升级的软件做出压缩包。按照以下流程，他便可以完成整个升级过程。

有关 OTA Packager Tool 的使用方法请参见“OTAPackager 用户手册-Chinese.docx”文档。



1. 设备连接。

由于案场的所有机器都已经内置有 OTA 设备终端 (OTA Client)。因此访问 OTA 服务器 (OTA Server) 便可以查看到所有上线的设备。登陆 OTA 主页便可以进行操作。(如何保证所有 OTA 设备终端能够连接至 OTA 服务器，可以参考 OTA 安装手册，或参阅本文档 2.2 章节 设备连接)

No.	Online	Name	OS	Arch	Softwares	Upgrade-state	
1	online	40167E67702E	win7	x86_32	0	○	>
2	online	Alvin	win7	x86_64	1	○	>
3	online	hello100	win7	x86_64	1	○	>
4	online	hello101	win7	x86_64	1	○	>
5	online	hello102	win7	x86_64	2	○	>
6	online	hello103	win7	x86_64	1	○	>
7	online	hello104	win7	x86_64	0	○	>
8	online	hello105	win7	x86_64	1	○	>
9	offline	hello106	win7	x86_64	1	○	>
10	online	hello107	win7	x86_64	3	○	>
11	online	hello108	win7	x86_64	2	○	>
12	online	hello109	win7	x86_64	1	○	>
13	online	hello110	win7	x86_64	2	○	>
14	online	hello111	win7	x86_64	2	○	>
15	online	hello112	win7	x86_64	0	○	>
16	online	hello113	win7	x86_64	1	○	>

2. 存储装置配置

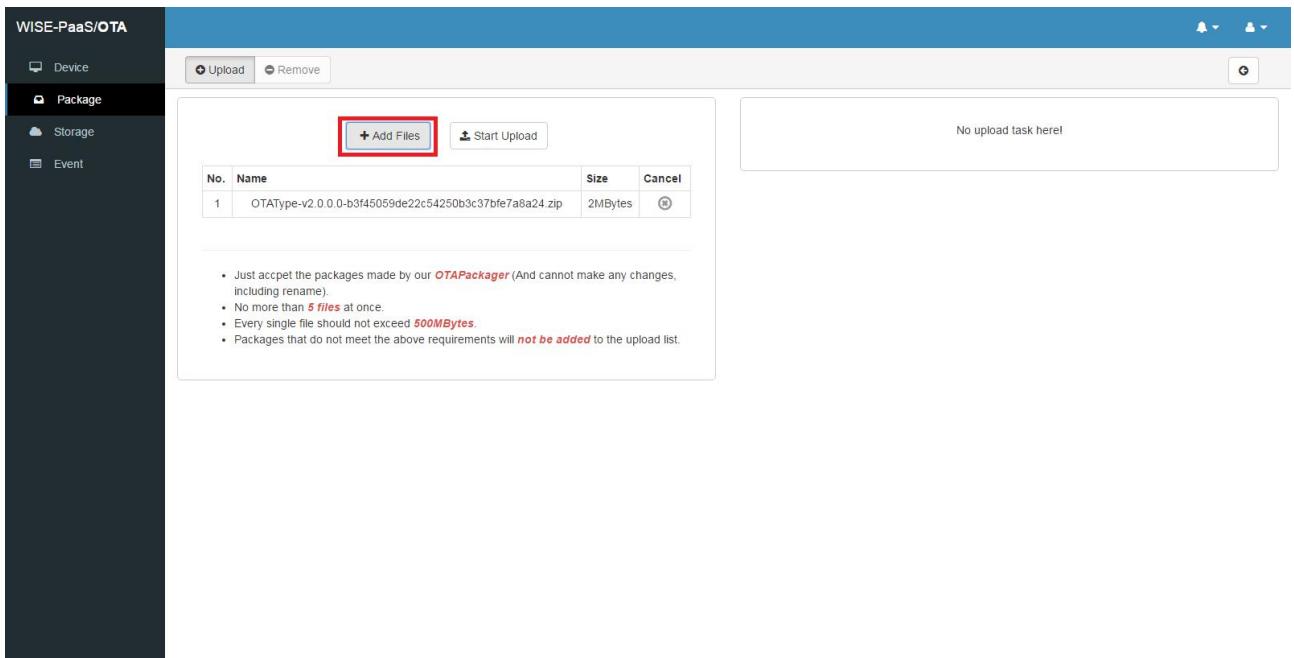
进入 Storage 页面进行存储装置配置。由于案场已经装有 FileZilla 的 FTP 服务器, 所以小张只需要将此 FTP 服务器配置到现有的 OTA 系统中便可以使用。(在使用之前, 小张已经确认该 FTP 服务器可以被其他机器访问, 如果您已经不记得如何配置 FTP 服务器可以参见本文档 2.4 章节 存储装置配置, 如果您不熟悉如何安装和配置 FTP 服务器可以参考以下链接

http://ess-wiki.advantech.com.tw/view/How_to_configure_your_FTP_server_toOTA)

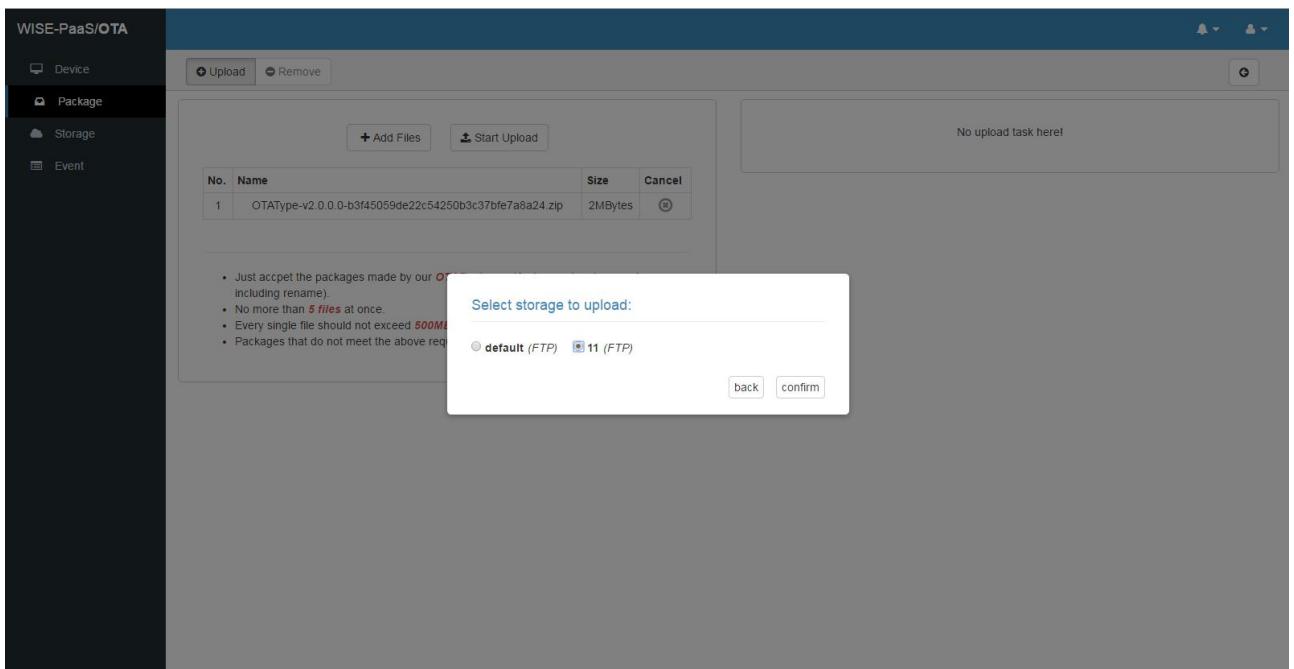
FTP Setting	
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> default sub-slg </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Storage Name default </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Security NONE </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Domain 172.21.84.53 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Port 21 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> User Name test </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Password ***** </div> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Root Path /web-dev/ </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> SMC 5 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> CMC 5 </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Description hh </div> </div>
+ -	

3. 上传更新包

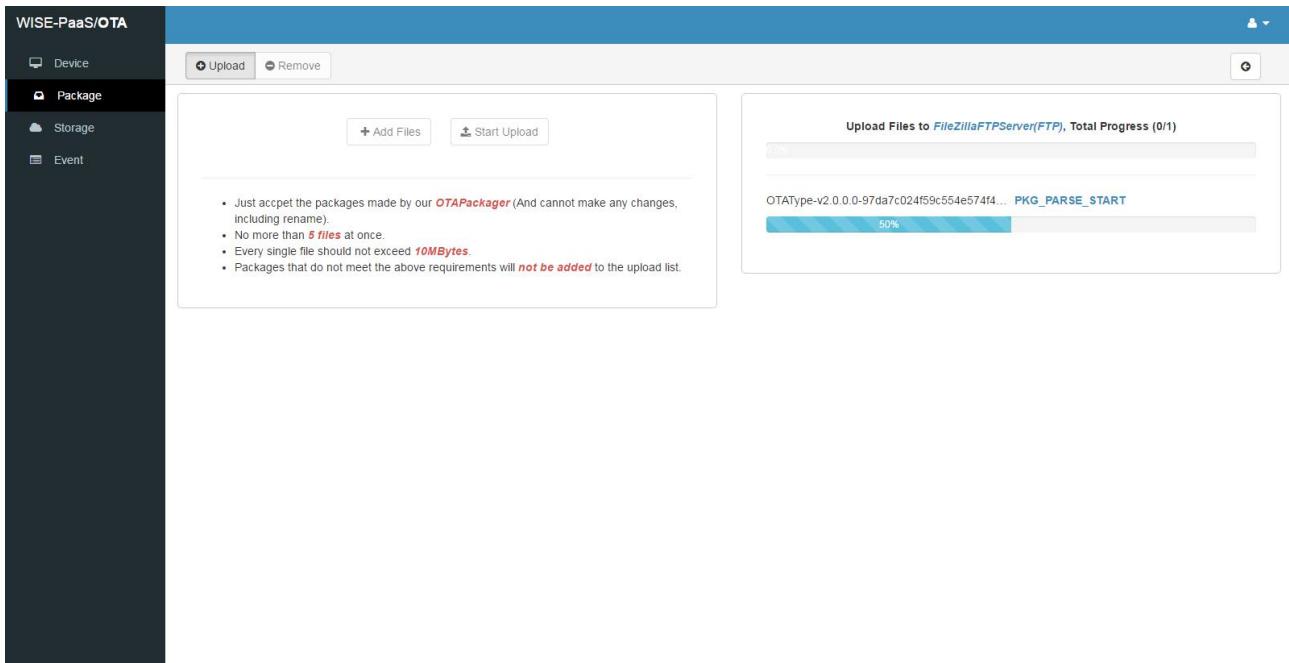
进入 Package 页面将已经准备好的压缩包上传至 OTA 服务器上。



如果您配置了多个 FTP 服务器，请在上传的时候记得选择正确的存储装置。



上传完成之后便可以查看服务器上所有的更新包。



WISE-PaaS/OTA

Device Package Storage Event

No.	Type	Version	OS	Arch	Storage	Name
1	OTAType	2.0.0.0	n/a	n/a	FileZillaFTPServer	OTAType-v2.0.0.0-97da7c024f59c554e574f46c2...
2	LinuxPathTest	1.0.0.1	n/a	n/a	FileZillaFTPServer	LinuxPathTest-v1.0.0.1-ff77d4242cb28d3d7596...
3	linuxSmall	1.0.0.1	n/a	n/a	FileZillaFTPServer	linuxSmall-v1.0.0.1-47572c327f09fde687f6eb58...
4	winSmall	1.0.0.1	win7/win8/win10	n/a	FileZillaFTPServer	winSmall-v1.0.0.1-ab502c63c85169588e2e62e1...

4. 执行更新。

进入 **Device** 页面执行更新操作。为了保险起见，小张先在一台设备上试了一下。

选择设备，点击“**Upgrade**”，选择要升级的包。

5.确认更新结果

出错了，快速查看失败原因，及时修正。

No.	Online	Name	OS	Arch	Softwares	Upgrade-state
1	□	000C295709BD	win7	x86_32	0	○
2	□	4437E646AC6D	win7	x86_32	0	○
3	□	avmware-wg	win7	x86_32	1	○ (red)
4	□	avmware-wg-2	win7	x86_32	1	○ (red)
5	□	Azure OTA Client	win7	x86_64	0	○ (red)
6	□	C03FD5394405	win7	x86_64	0	○
7	□	client101	win7	x86_64	1	○
8	□	client102	win7	x86_64	0	○

Time	Package	Action	Message
11 minutes ago	OTATYPE-v2.0.0.0...	deploy	Prepare deploy failed

重新再试一次，查看更新进度。确认软件版本，看看是否升级正确。OK，一切正常，可以选择 20 台试试。

查看更新结果，一次性更新成功。

3.2 服务器端设置排程进行升级

情景二：服务器端设置更新排程——合理安排更新时间，有效减少更新带来的损耗。

软件 A 有重要 bug 修复，客户需要对案场的所有安装该软件的设备进行升级。案场相关负责人提出，因为白天有营业，不希望因为升级造成营业上的损失。为了能够有效的解决这个问题，又能很好的将软件升级至新版本，小张决定采用排程升级的方式。

小张准备好要升级的软件，使用 OTA 打包工具(OTA Packager Tool)将需要升级的软件做出压缩包。按照以下流程，他便可以完成整个升级过程。

有关 OTA Packager Tool 的使用方法请参见“OTAPackager 用户手册-Chinese.docx”文档。



1. 设备连接。

由于案场的所有机器都已经内置有 OTA 设备终端（OTA Client）。因此访问 OTA 服务器（OTA Server）便可以查看到所有上线的设备。登陆 OTA 主页便可以进行操作。（如何保证所有 OTA 设备终端能够连接至 OTA 服务器，可以参考 OTA 安装手册，或参阅本文档 2.2 章节 设备连接）

No.	Online	Name	OS	Arch	Softwares	Upgrade-state	
1		40167E67702E	win7	x86_32	0		
2		Alvin	win7	x86_64	1		
3		hello100	win7	x86_64	1		
4		hello101	win7	x86_64	1		
5		hello102	win7	x86_64	2		
6		hello103	win7	x86_64	1		
7		hello104	win7	x86_64	0		
8		hello105	win7	x86_64	1		
9		hello106	win7	x86_64	1		
10		hello107	win7	x86_64	3		
11		hello108	win7	x86_64	2		
12		hello109	win7	x86_64	1		
13		hello110	win7	x86_64	2		
14		hello111	win7	x86_64	2		
15		hello112	win7	x86_64	0		
16		hello113	win7	x86_64	1		

2. 存储装置配置

进入 Storage 页面进行存储装置配置。由于案场已经装有 FileZilla 的 FTP 服务器，所以小张只需要将此 FTP 服务器配置到现有的 OTA 系统中便可以使用。（在使用之前，小张已经确认该 FTP 服务器可以被其他机器访问，如果您已经不记得如何配置 FTP 服务器可以参见本文档 2.4 章节 存储装置配置，如果您不熟悉如何安装和配置 FTP 服务器可以参考以下链接。）

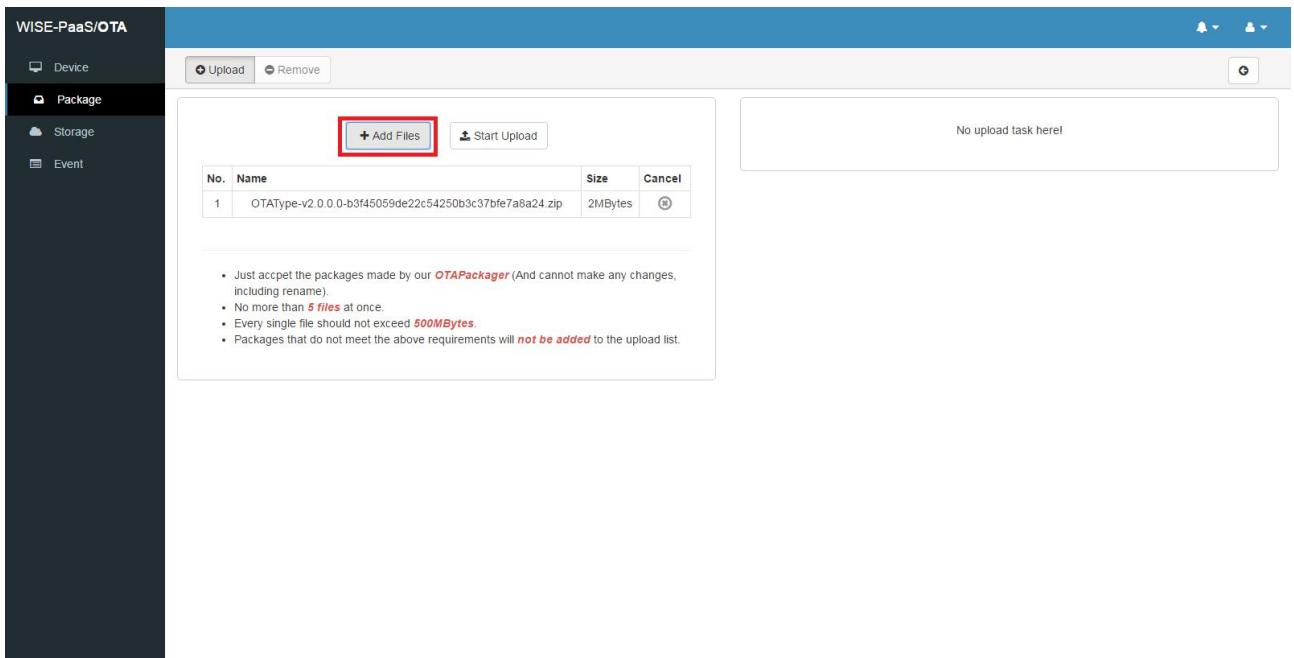
The screenshot shows the 'Storage' section of the WISE-PaaS/OTA interface. On the left, there's a sidebar with navigation links: Device, Package, Storage (which is currently selected), and Event. The main area is titled 'FTP Setting' and shows a table with two rows:

Storage Name	default	Root Path	/web-dev/
Security	NONE	SMC	5
Domain	172.21.84.53	CMC	5
Port	21	Description	hh
User Name	test		
Password	*****		

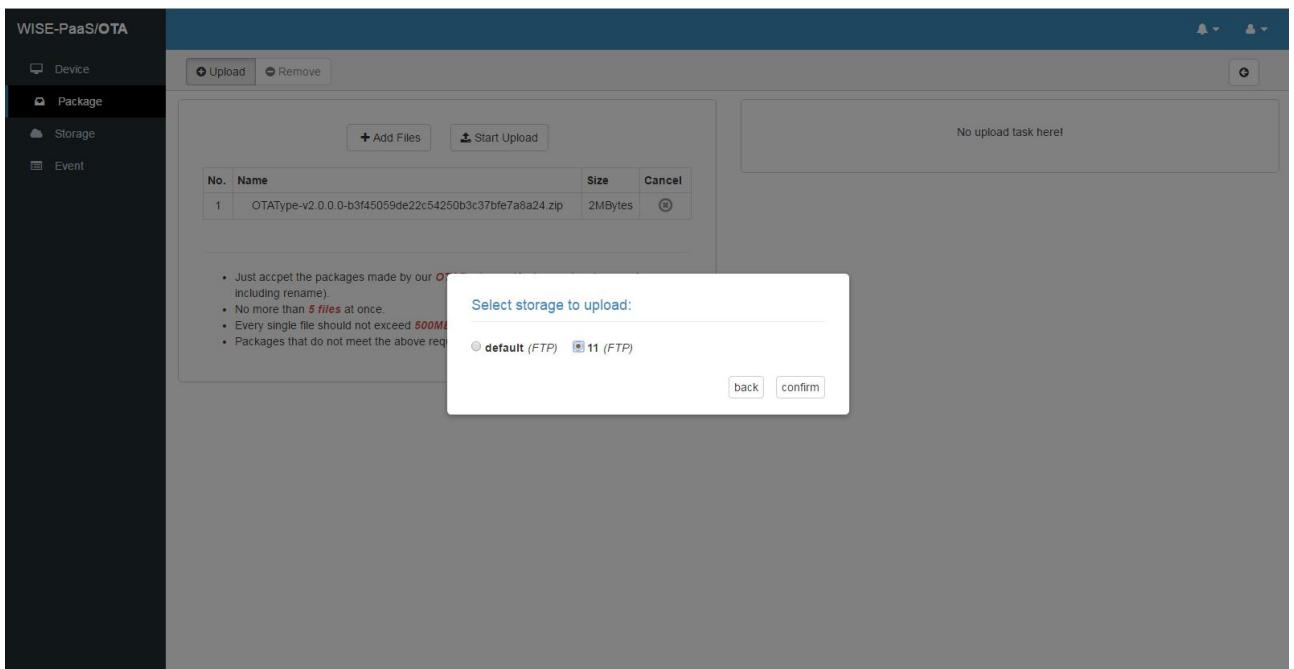
On the right side of the table, there are three icons: a plus sign (+) for adding a new entry, a pencil for editing, and a minus sign (-) for deleting.

3. 上传更新包

进入 Package 页面将已经准备好的压缩包上传至 OTA 服务器上。



如果您配置了多个 FTP 服务器，请在上传的时候记得选择正确的存储装置。



上传完成之后便可以查看服务器上所有的更新包。

WISE-PaaS/OTA

Device Package Storage Event

Upload Remove

+ Add Files Start Upload

- Just accept the packages made by our **OTAPackager** (And cannot make any changes, including rename).
- No more than **5 files** at once.
- Every single file should not exceed **500MBytes**.
- Packages that do not meet the above requirements will **not be added** to the upload list.

Upload Files to **sub-stg(FTP)**, Total Progress (2/5)
40.0%

Name	Status
winSmall-v1.0.0.1-ab502c63c85169588e2e6...	Success
win400m-v1.0.0.5-ea4cc3c878cdab901a891...	Upload start
win100m-v1.0.0.1-d68dc360de48ebd9e4c91...	Upload start
win10m-v1.0.0.1-25daa5430eaedac6afc6f82...	UPDATING
poky_centos_ubuntu_10m-v1.0.0.1-d2131d7...	Success

WISE-PaaS/OTA

Device Package Storage Event

Upload Remove

No.	Type	Version	OS	Arch	Storage	Name
1	win400m	1.0.0.5	n/a	n/a	sub-stg	win400m-v1.0.0.5-ea4cc3c878cdab901a891b6a...
2	win100m	1.0.0.1	win7/win8/win10	n/a	sub-stg	win100m-v1.0.0.1-d68dc360de48ebd9e4c911a0...
3	win10m	1.0.0.1	n/a	n/a	sub-stg	win10m-v1.0.0.1-25daa5430eaedac6afc6f82f8d...
4	poky_centos_ub...	1.0.0.1	CentOS-6.5/Ubu...	n/a	sub-stg	poky_centos_ubuntu_10m-v1.0.0.1-d2131d7706...
5	winSmall	1.0.0.1	win7/win8/win10	n/a	sub-stg	winSmall-v1.0.0.1-ab502c63c85169588e2e62e1...

< 1 >

4. 设置更新下载排程。

进入 Device 页面执行更新操作。为了保险起见，小张先在一台设备上试了一下。

选择设备，设置下载以及部署排程。(3分钟会进行下载，15分钟之后进行部署)

The screenshot shows the WISE-PaaS/OTA software interface. On the left, there is a sidebar with icons for Device, Package, Storage, and Event. The main area displays a table of devices with columns: No., Online, Name, OS, Arch, Softwares, and Upgrade-state. A modal dialog box titled "Schedule Setting" is overlaid on the interface. The dialog contains the following fields:

- Package Type: OTAType
- Action Type: download deploy
- Frequency: daily weekly monthly once
- Action Start Time: 2016-12-14 14:13
- Action End Time: 2016-12-14 14:28

At the bottom of the dialog are "Back" and "Confirm" buttons.

5.确认更新结果

到了时间之后通过 **Upgrade Info** 查看更新结果。

下载成功，部署成功。

OK，可以设置其他设备的排程，让设备分批进行下载更新。

4 常见问题

1. OTA 系统能够支援的最大设备连接数为多少?

答：当前系统支持 500 台设备同时在线，每个更新包的大小不超过 500M，5 个更新包同时上传，20 台设备同时下载（使用带宽=同时下载台数*每个更新包的大小-其他使用）。同时上传和同时下载的个数除了与案场的带宽有关还有您设置的 FTP 最大连接数有关，默认的最大上传连接为 10，下载连接为 30。详细设置请参见 2.4 存储装置管理章节。

2. OTA 的系统可以部署在什么样的设备上?

答：Server 端环境要求：Windows Server 2012 64bit / Windows 7 64bit

Intel Core i3 2.3 Ghz CPU 或内存不低于 4GB

Windows 7 / 8 /10 32bit or 64bit

3. OTA 系统支持部署的文件有什么要求?

答：系统要求所有的部署或者更新文件都能够支持静默模式，同时包含至少一个可执行文件，可以是.exe, .msi,.bat 等用来执行设备端的文件部署或者替换。OTA 服务器上只能上传通过 OTA Packager Tool 压缩过的包，我们会对您的部署包进行加密处理，防止传输损坏以及中途篡改。同时透过 OTA Packager Tool 压缩过的包的大小不能超过 500M。

4. OTA 服务器端对访问的浏览器是否有要求?

答：浏览器版本支持情况：

Chrome: 51+

Firefox: 45

IE 11