

WISE-PaaS/OTA

Over-the-Air Software Upgrade Management Services



Features

- Console-Server-Agent structure, in which the server can be in either public or private cloud
- 100% web-based remote software updating
- Centralized application, provisioning, firmware, driver, and BSP updates
- Encrypted protection for updates
- HTTPS, FTPS, MQTTS enabled for web security
- Easy integration with 3rd party storage server such as FTP
- Supports exception rollback for remote deployment
- Supports automatic and scheduled update modes
- Supports incremental updates
- Supports script updating
- Supports up to 50-device (IPC, IoT Gateway) simultaneous updating
- Agent supports multiplatform, such as Windows 7/8/10
- RESTful API web service for further development and integration with other systems

Introduction

WISE-PaaS/OTA is aimed at remote software updates and supports application, provisioning, firmware, driver and BSP updates. The WISE-PaaS/OTA server can be used to monitor the upgrade process and status, and can configure an upgrade schedule for implementing planned updates. Additionally, WISE-PaaS/OTA supports rollback to a previous configuration for exceptions, and supports shell and batch scripting upgrades for more flexible updates, as well as RESTful API web service, which allows OTA functions to be integrated with other applications.

Feature Details

Supports Private or Public Cloud Architecture

WISE-PaaS/OTA is a 100% web-based application that can be built in either a public or a private cloud. It is designed with the user experience in mind, for easy operation.

Upgrade Management

WISE-PaaS/OTA connects with devices using MQTT protocol, and monitors the upgrade process and status automatically. The manual filter feature helps find any failed update device quickly, and the precise positioning location function helps customers discover the update error in time.

Automatic and Scheduled Update Mode

WISE-PaaS/OTA supports two different update modes: automatic update from server side, and scheduled update, which activates from the agent side. Careful scheduling helps avoid peak network traffic times, and offers reasonable download and deployment schemes that help reduce issues with software updates.

Rollback

Supports upgrade package backups as well as rollbacks to previous versions when required.

Script Updating

Supports scripting upgrades for more flexible updates, such as shell and batch.

Storage Management

WISE-PaaS/OTA supports open framework, which can integrate 3rd party storage easily, such as FTP. It can manage multi-storage, with support for up to 50 simultaneous device updates.

Security Protection

HTTPS, FTPS, and MQTTS are all enabled, for web security. Moreover, DES encrypted protection is employed for update packages.

WISE-PaaS/OTA Extension

Provides RESTful API Web Service, which allows cross-platform integration of OTA functions with other systems.

Multi-platform Support

OTA agent supports multi-platforms, such as Windows 7/8/10

Software Specifications and Versions:

- **Max. concurrent device connections:** 500
- **Max. update handling:** 10 OTA packages, < 500M

	OTA2.0	OTA3.0
Upgrade Management		
Device / Group Management	✓ Max. devices: 50	✓
Status Monitor	✓	✓
Package Management		
Application Update	✓	✓
Firmware Update	N/A	✓
BSP	N/A	✓
Package/ Catalog Management	N/A	✓
Storage Management		
Multi-Storage Management	✓ Max. storage: 2	✓
Protocols		
HTTPs/ FTPs/MQTTs	N/A	✓
Exception Rollback	✓	✓
Notification Center		
Event Log	✓	✓
Email Notification	N/A	✓
Management Interface		
Account/Role management	✓	✓
Web-Based Console	✓	✓
Others		
RESTful API Web Service	✓	✓

Minimum Requirements

Web Console

Web browser that supports HTML5, CSS3, and Javascript

- Microsoft Internet Explorer (IE11+)
- Google Chrome: 50+
- Firefox: 30+

Note:

Cookies must be enabled; Accept Cookies per session must be enabled (Accept all Cookies or Only accept cookies from this server)

Browser must support HTTPS (SSL)

Server

Hardware Minimum Requirements:

- Intel® Core™ i3 2.3 GHz CPU or above
- 4 GB RAM
- 25 GB root partition for the system
- 100 GB data storage partition for documents and indexing

Operating System:

- Windows Server 2012 R2 64-bit

Database:

- RDBMS: PostgreSQL 9.5

Web Server: Tomcat 8.x

Agent

Operation System:

- Windows 10 32-bit/64-bit
- Windows 7 SP1 32-bit/64-bit
- Others by request

Order Information

Cloud Service

- **9806WMOACO** WISE-PaaS/OTA + Azure (Max 500 devices)

Private Service

At least one of the following OTA products should be chosen to enable software update functions.

- **32EMOTAP2B** WISE-PaaS/OTA Professional version (Max 100 devices)
- **32EMOTAP2C** WISE-PaaS/OTA Professional version (Max 500 devices)