# WISE-PaaS/OTA

### Over-the-Air Software Upgrade Management Services

Source         None         All         -1         -0           Source         None         Non						i angeli a	Dr Farst				
						i angeli a	Dr Farst				
						i angeli a	Dr Farst				
						# Rt0	Home a	tr.jeg		an file is columny, but Popul	e.15
							Example 1	trijeg		and the to country the Popula	6.03
<text></text>	<complex-block></complex-block>										
										NORM CLK. Scott	
					11	in a second second	Note that is not carry a			-m	-
				EFinson	U	pgrade	Sche	dulli	2.01		
						-O-Cacac	Cont	uuiii	Ig		
					2· +·	0 5 1			-0	11 (C)	
					11	Other these state					-
				Finge			Att Repares	Spano vare		100	
				La		and an	4,9				
					Received	t Stanik States Crobs				v Relation	
		-			Q Cres	ing fast information				100	
No.         No. <th>Alter Note         Alter Note         Alter N</th> <th>C</th> <th>ont</th> <th>off</th> <th>-</th> <th>111</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Alter Note         Alter N	C	ont	off	-	111					
No.         No. <th>Alter Note         Alter Note         Alter N</th> <th>ALLEY ACTIVE</th> <th>Culu</th> <th>all</th> <th>ze</th> <th>u_upda</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Alter Note         Alter N	ALLEY ACTIVE	Culu	all	ze	u_upda					
No.         No. <th>No.         No.         No.<th>G (m) 21 4-</th><th>0</th><th></th><th></th><th>- opene</th><th></th><th>Tel longes warms</th><th>and the second second</th><th></th><th></th></th>	No.         No. <th>G (m) 21 4-</th> <th>0</th> <th></th> <th></th> <th>- opene</th> <th></th> <th>Tel longes warms</th> <th>and the second second</th> <th></th> <th></th>	G (m) 21 4-	0			- opene		Tel longes warms	and the second second		
No. 0         No. 0 <th< th=""><th>A M         S         S MM         S M</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	A M         S         S MM         S M										
Source         None         All         -1         -0           Source         None         Non	Name         Name         0         -1         -           State         State         State         State         State           State         State         State         State         State         State           State <t< th=""><th>2 N.00</th><th></th><th>-</th><th>_</th><th></th><th></th><th>SAGRENT MARKET</th><th>R. C. Sentaria</th><th></th><th></th></t<>	2 N.00		-	_			SAGRENT MARKET	R. C. Sentaria		
Barris         State         100         10	Low         None:         Table         Table         Table           0         Max	4 Not	felin Vern		Appl	Store Rentring		LOOK BURGER	Runness and the set	Conception of Sector and	
Verse         Verse           Verse <td>Note:         Note:           Particle:         Nate:           Particle:         <td< td=""><td>A Nos A Nos O Na A</td><td>Color Mars</td><td>-</td><td>Ani M D</td><td></td><td></td><td>Source and analysis</td><td>Restaural and a state of the</td><td>Conduction (in Sector) with the</td><td>ALTON</td></td<></td>	Note:         Note:           Particle:         Nate:           Particle: <td< td=""><td>A Nos A Nos O Na A</td><td>Color Mars</td><td>-</td><td>Ani M D</td><td></td><td></td><td>Source and analysis</td><td>Restaural and a state of the</td><td>Conduction (in Sector) with the</td><td>ALTON</td></td<>	A Nos A Nos O Na A	Color Mars	-	Ani M D			Source and analysis	Restaural and a state of the	Conduction (in Sector) with the	ALTON
Item         Item <th< td=""><td>A Water         Data         <thdata< th="">         Data         Data         &lt;</thdata<></td><td>2 Yaya A Yaya D Yaya A Table</td><td>Color Mars</td><td>-</td><td></td><td></td><td></td><td>Addition for an and a second</td><td>R, Life and Spirite and</td><td>or your in local sty of</td><td>artions.</td></th<>	A Water         Data         Data <thdata< th="">         Data         Data         &lt;</thdata<>	2 Yaya A Yaya D Yaya A Table	Color Mars	-				Addition for an and a second	R, Life and Spirite and	or your in local sty of	artions.
No.         No. <td>Vert         Note         Sec.         <th< td=""><td>A Sup A Sup B Set Again</td><td>Colo Men C menung R Stenible Sti</td><td>at Maria Secul Nap</td><td></td><td>1 00</td><td></td><td>SAME BUILDE</td><td>A Constantian of the second second</td><td>an we have the best of the D</td><td>MILOUR</td></th<></td>	Vert         Note         Sec.         Sec. <th< td=""><td>A Sup A Sup B Set Again</td><td>Colo Men C menung R Stenible Sti</td><td>at Maria Secul Nap</td><td></td><td>1 00</td><td></td><td>SAME BUILDE</td><td>A Constantian of the second second</td><td>an we have the best of the D</td><td>MILOUR</td></th<>	A Sup A Sup B Set Again	Colo Men C menung R Stenible Sti	at Maria Secul Nap		1 00		SAME BUILDE	A Constantian of the second	an we have the best of the D	MILOUR
Value         Constrainty         Max         Name           Value         Constrainty         Party of the Statisty of same	Value         Value <th< td=""><td>A hay A hay D ha Azale Map</td><td>Cole Sere C manag C SKanite Str K.</td><td>at Maria Secul Nap</td><td></td><td>1 00</td><td></td><td>NAME IN THE R.</td><td>ALLER HELEFULLE IN THE COMPANY AND</td><td>and a batal as it</td><td>Kritten</td></th<>	A hay A hay D ha Azale Map	Cole Sere C manag C SKanite Str K.	at Maria Secul Nap		1 00		NAME IN THE R.	ALLER HELEFULLE IN THE COMPANY AND	and a batal as it	Kritten
State         State         Profession         State	Description         Description         Description         Description           1         Main         Description         Description         Description           2         Main         Description         Description         Description         Description           2         Main         Description         Description         Description         Description           4         Main         Description         Description         Description         Description           4         Main         Description         Description         Description         Description           5         Main         Description         Description         Description         Description           6         Main         Description         Description         Description         Description           6         Main         Description         Description         Description         Description           7         Main         Description         Description         Description         Description           8         Main         Description         Description         Description         Description	A Day A Day D be A Day A	Color Norman C Montale State R. StCartille State R.	at Maria Secul Nap		1 00		NAME IN THE REPORT	RUSER BUT REPORT	New St. Stat av. 1	Kritten
Mill         Million         M	mail         Difference         n           4         4         5         5         5           4         5         5         5         5         5           4         5         5         5         5         5         5           5         <	A Nuy	Color Mars C marsing R Sicon Lio Sili N. Intel Manetar Pakep	ant Anton Social Mage Distant	0	Norma Norma		Active by here a	ALL STREET, STREET		KOTON I
Note         Note <th< td=""><td>1         2         Max         9         0         1         1         1           1         2         Max         8         1         1         1         1           1         3         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1</td><td>A Stars     A Stars     A</td><td>Color Service Converses R. Storn Lie Str. R. Internetion Pakap CV-publiced 20</td><td>ant Anton Social Mage Distant</td><td>Actor to a</td><td>Norge Those</td><td></td><td>Active by section</td><td>ALL STREET ALL STREET ALL STREET ALL ST</td><td></td><td>812064</td></th<>	1         2         Max         9         0         1         1         1           1         2         Max         8         1         1         1         1           1         3         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1	A Stars     A	Color Service Converses R. Storn Lie Str. R. Internetion Pakap CV-publiced 20	ant Anton Social Mage Distant	Actor to a	Norge Those		Active by section	ALL STREET ALL STREET ALL STREET ALL ST		812064
Note         Note <th< td=""><td>1         2         Max         9         0         1         1         1           1         2         Max         8         1         1         1         1           1         3         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1</td><td>A Stars     A Stars     A</td><td>Color Service Converses R. Storn Lie Str. R. Internetion Pakap CV-publiced 20</td><td>ant Anton Social Mage Distant</td><td>Actor to a</td><td>Norma Norma Trans Elimpto Internationality</td><td>D4 .</td><td>NAME IN CONCERNMENT</td><td>ALL AND AND AND AND AND AND AND AND AND AND</td><td></td><td>Arithe a</td></th<>	1         2         Max         9         0         1         1         1           1         2         Max         8         1         1         1         1           1         3         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1           1         5         Max         8         1         1         1         1	A Stars     A	Color Service Converses R. Storn Lie Str. R. Internetion Pakap CV-publiced 20	ant Anton Social Mage Distant	Actor to a	Norma Norma Trans Elimpto Internationality	D4 .	NAME IN CONCERNMENT	ALL AND		Arithe a
	i         i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i           i         i         i         i         i         i         i         i           i         i         i         i         i         i         i         i         i           i         i         i         i         i         i         i         i         i	A Stars     A	Color Growing Conversion R. Sciencia Str. R. Regional Str. Regional Str. Regional Str. Regional Str. Regional Str.	ant Anton Social Mage Distant	Actor to a	Norma Norma Trans Elimpto Internationality	stay .		A soften en lager en la		Aritice (t
1         N         Mail         Mail<	1         6         Max         *         O         1         0         1           1         5         Max         6         1         1         1           1         5         Max         1         0         1         1           1         5         Max         6         1         1         1           1         5         Max         6         1         1         1           1         5         Max         6         1         1         1	A Stars     A	Color Second Color Press Colorado Sciences Nace Colorado Rate Rate Colorado Rate Rate Colorado Rate Rate Rate Rate Rate Rate Rate Rate	net Balla Social Non Brokeny Jac,	Adar Adar Adar Adar	V V V Norman Norman Norman Norman Norman Norman Norman	state -		A prive estigar a c		ATTION 1
N         N         N         1         1         1           1         6         N         0         1         1         1           0         6         N         0         1         1         1         1           0         6         N         0         1	-         V         mag         as         as         a	A Stars     A	Color Second Conversion Conversion Colorado Colo	at http://www.second http: htt	Assy Assy Asy Asy Asy Asy Asy	2 29 Morece Transport Province Transport Province T	anay . Vigba nay keel		Russ, estapris - les las methornel son		ALTION 1
The second of the second secon		A Stars     A	Cole See C Investig C Investig R Scenses Nationalis Nationalis Nationalis Colorationalis Kalegores Colorationalis Kalegores Ka	vat Ballar Omrað Hage Brokedig Here Vat væt	Actor Actor	n de la construcción de la const	ang -		Russ, estapris -		arator of
The second secon	1 4 Mar 41 Mar 1 10 1 1 4 Mar 41 Mar 1 10 1	A Stars     A	Color Secondary Color Secondary Restauration Patientesis Patientes	et Ballo Jocat Bigo Romany Jike et et	400 400 100 100 100 100 100 100 100 100	от 200 100	Ray . Yiga taa kad		Russ, estigate a		
	1 G Maa 40 A - 01 - 0	<ul> <li>State</li> <li></li></ul>	Cole Service Construction R Security Str. No. Note: Note: Note: Colored to Note: Colored to	ati ballo backt liip Notari Jac, ati ati ati	400 400 400 400 400 400 400 400 400 400	от 200 100	anan Fright das ken		Russ, exception		. 972244 (A
		<ul> <li>State</li> <li></li></ul>	Color Services Construction R. Sciences Palage Children and an Palage Children and an Reservices Construction	ati ballo back liip Notari Jac, ati ati ati ati ati	400 400 400 400 400 400 400 400 400 400		anay . Yegha ray ked		Russ, exception		8723.001

### **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 loction 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, 10, and Linux

AD\ANTECH

All product specifications are subject to change without notice.

### **Software Specifications and Versions:**

- Max. concurrent device connections: 1,000
- Max. update handling: 10 OTA packages, < 500M

	Oterstand	Destauteet
	Standard	Professional
Update Management		
Device / Group Management	✓ (less than 5 devices)	$\checkmark$
Status Monitor	$\checkmark$	$\checkmark$
Package Management		
Application Update	$\checkmark$	$\checkmark$
Firmware Update	✓ (RISC devices)	✓ (RISC devices)
BSP	✓ (RISC devices)	✓ (RISC devices)
Storage Management		
Multi-Storage Management	$\checkmark$	$\checkmark$
HTTPs/ FTPs/MQTTs	$\checkmark$	$\checkmark$
Exception Rollback	$\checkmark$	$\checkmark$
Notification Center		
Event Log	$\checkmark$	$\checkmark$
Email Notification	$\checkmark$	$\checkmark$
Management Interface		
Account/Role management	$\checkmark$	$\checkmark$
Web-Based Console	$\checkmark$	$\checkmark$
Others		
RESTful API Web Service	$\checkmark$	$\checkmark$

# **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<sup>®</sup> Core<sup>™</sup> 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 2008 R2 64-bit
- Windows Server 2012/2012 R2 64-bit
- Windows 10 64-bit

Windows 7 SP1 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
- Ubuntu 16.04
- CentOS 7
- Others by request

### **Order Information**

#### **Cloud Service**

9806WMOAC0

### **Private Service**

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

- 32EMOTAP2B
- 32EMOTAP2C

WISE-PaaS/OTA Professional version (Max 100 devices) WISE-PaaS/OTA Professional version (Max 500 devices)

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