

# WISE-PaaS/RMM 3.3

Wireless IoT Sensing Embedded Remote Monitoring and Management WISE-Agent User Manual V1.8



#### **Change Log:**

Date	Version	Description / Major change
2015/07/18	V0.1	Rison Yeh, create draft document
2015/07/19	V1.0	Tung Yi, 1 <sup>st</sup> format release
2015/09/16	V1.1	Tung Yi, Revised
2015/10/13	V1.2	Scott Chang, Add Linux installation and configuration
2015/12/22	V1.3	Rison Yeh, Review and revise format
2016/01/29	V1.4	Lillian Tseng, Unify font to Calibri
2016/05/25	V1.5	Winnie Weng, modify the description for installation steps, add
		document verion on the front page, add Support chapter
2016/05/31	V1.6	Zach Chih, change susiaccess to RMM in Linux & add Yocto
		Scott Chang, add FAQ for fixing depend libraries.
2017/9/28	V1.7	Migrate to RMM 3.3
2018/5/2	V1.8	Scott Chang, Update VNC options description.
2018/9/14	V1.9	Scott Chang, Update Server Setting dialog.

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### 1. Minimum Requirements

#### 1.1. SW Requirements

Strongly recommend your Advantech devices should have SUSI API supported:
 SUSI API is required for Hardware Monitoring Management function.

If you would like to know more about SUSI API, please contact your Advantech contact window or request Support on <a href="http://support.advantech.com/support/new\_default.aspx">http://support.advantech.com/support/new\_default.aspx</a>.

- .NET Framework 3.5 (Windows only)
  - .NET Framework Redistributable 2.0 or .NET Framework Redistributable 3.5
- Libraries pre-installed(Linux only)
  - libxml2
  - openssl
  - libcurl
  - libXtst
  - libX11
  - libmosquitto1
  - redhat-lsb-core
  - xterm

#### 1.2. Operating System

WISE-PaaS/RMM 3.1 is compatible with the listed OS below.

- Windows Server 2012/2012 R2 64-bit (\*)
- Windows Server 2008 32-bit/64-bit (\*)
- Windows 10 IoT Enterprise 32-bit/64-bit
- Window IoT Core 32-bit
- Windows 8/8.1 32-bit/64-bit
- Windows 7 SP1 32-bit/64-bit
- Windows XP SP3 32-bit
- CentOS 6.5 x86 32-bit(\*)
- Yocto for Freescale i.MX6(\*)
- Other Linux by request(\*)
- IDP 3.1 by request(\*)

(\*)Limited support for System Protection/Recovery. Please contact Advantech if you have advanced requirements.

If you would like to request other OS not listed above, please contact Advantech or visit WISE-PaaS/RMM support website: <a href="http://www.advantech.com/wise-paas/rmm">http://www.advantech.com/wise-paas/rmm</a>

#### 1.3. Hardware Requirements

Minimum 800MB memory available

HD capacity: 32GB for Win7; 64GB for Win8/Win10

#### 1.4. Allowed TCP ports

• Connection: 80/8080

• FTP: 2121

KVM1: 5500 ~ 5504
 KVM2: 5900 ~ 5904

• MQTT: 10001

iAMT: 16992, 16994

#### 1.5. System configuration

#### 2.1.1 Wake On Lan Setting

• Enable the Wake On Lan in BIOS setup menu and then enable the WOL of your NIC



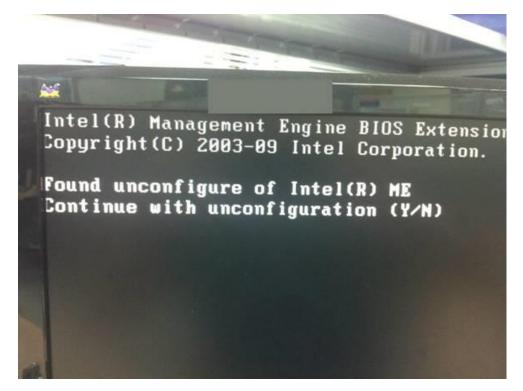
#### 2.1.2 AMT Setting

Note: Before using Intel® AMT, activate ME in BIOS is needed. The basic steps are as below:

Un-configure ME changes to Enable

#### Aptio Setup Utility - Copyright (C) 2 Advanced Intel AMT [Enabled] Intel AMT Setup Prompt [Disabled] BIOS Hotkey Pressed [Disabled] MEBx Selection Screen [Disabled] Verbose Mebx Output [Disabled] Hide Un-Configure ME Confirmation [Disabled] MEBx Debug Message Output [Disabled] Intel AMT Password Write Enabled [Enabled] Amt Wait Timer [Enabled] Activate Remote Assistance Process [Disabled] USB Configure [Enabled] PET Progress [Enabled] Intel AMT SPI Protected [Disabled] AMT CIRA Timeout WatchDog [Disabled] OS Timer BIOS Timer 0

#### Press Yes



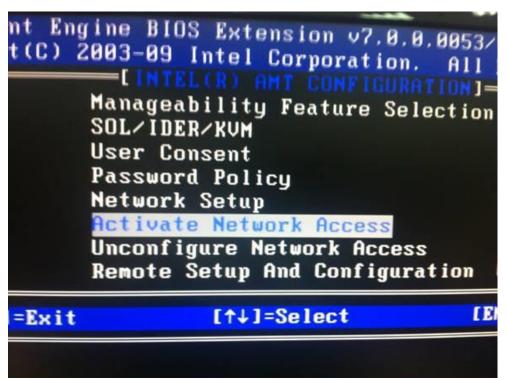
• First time entering ME with original password "admin"



Change new password



Activate Network Access



Exit and reboot

Please Visit Advantech website <a href="http://www.advantech.com/">http://www.advantech.com/</a> for more information.

### 2. Software Installation

#### 2.1. Windows WISE-Agent Installation

#### 2.1.3 Installation

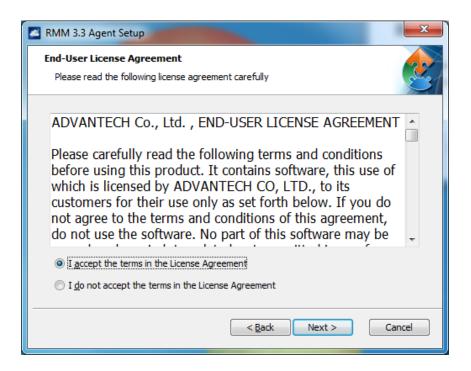
Double click "RMM 3.3 AgentSetup.exe" to install Agent program.

#### Start Installation



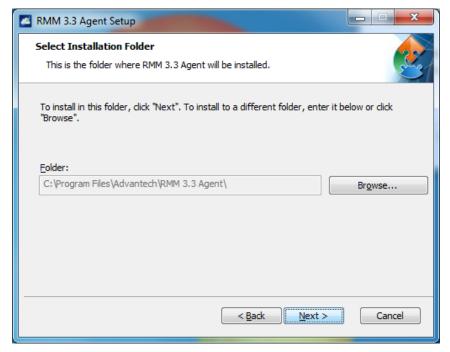
#### • Check End-User License Agreement

Please read the license agreement carefully. Check "I accept the terms in the License Agreement" if you agree. Then click the "Next" button.

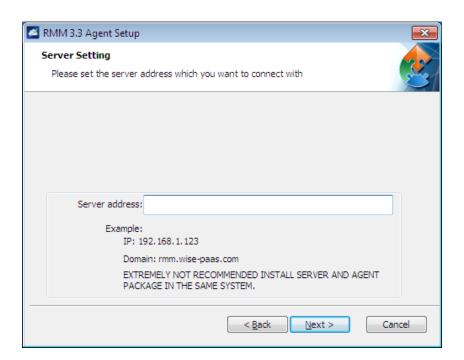


#### Select Installation Folder

Select the folder to be installed.

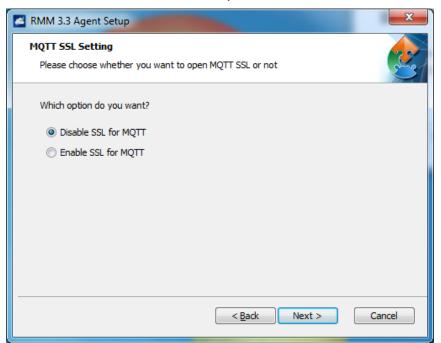


Server Settings - Set Remote Management Server URL/IP.



#### MQTT SLL Settings

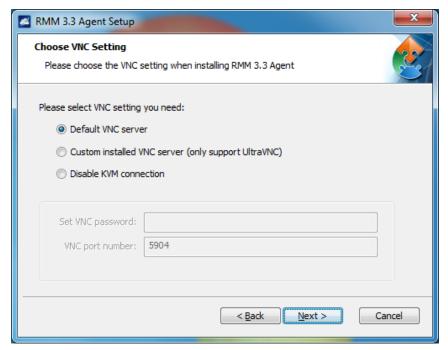
Choose either disable or enable SSL for MQTT.



#### VNC Setting

Please select VNC setting.

#### A. Set as Default RMM Built-in VNC.

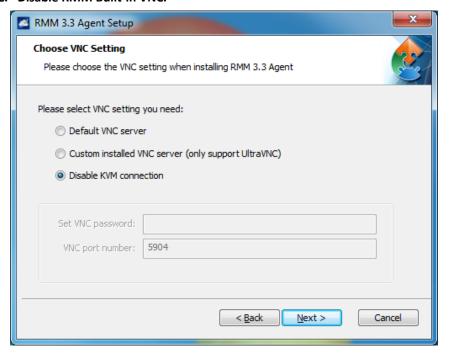


#### B. Use user preinstalled VNC server.

Input VNC server password and port number



#### C. Disable RMM Built-in VNC.



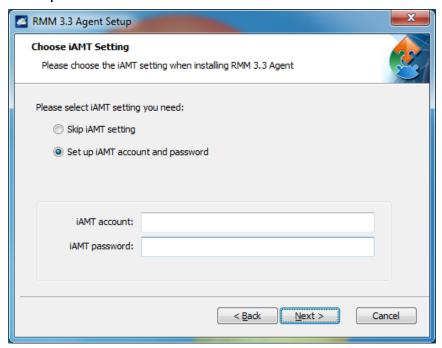
#### iAMT Settings

Please choose the iAMT..

#### A. Skip iAMT setting

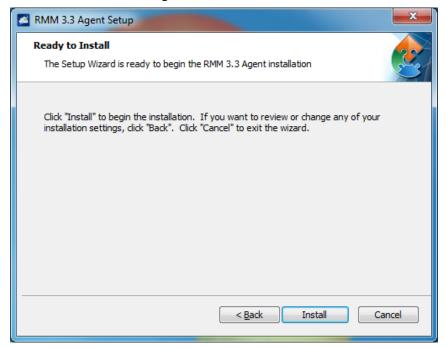


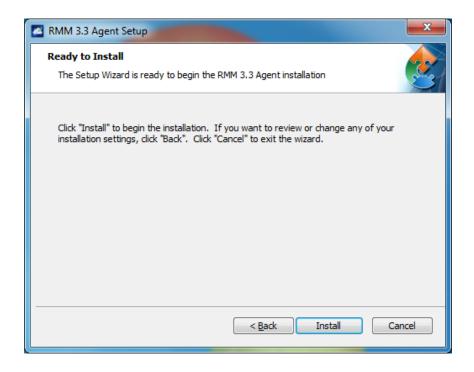
#### B. Set up iAMT

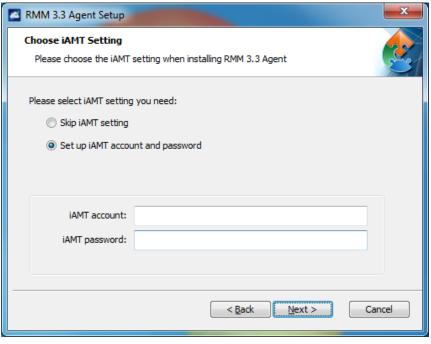


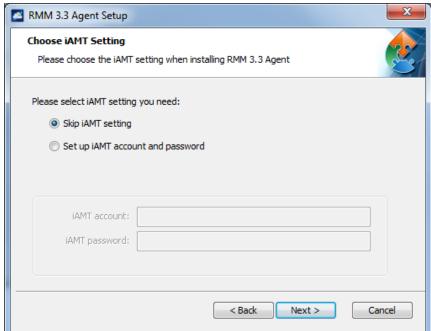
#### Start Installing.

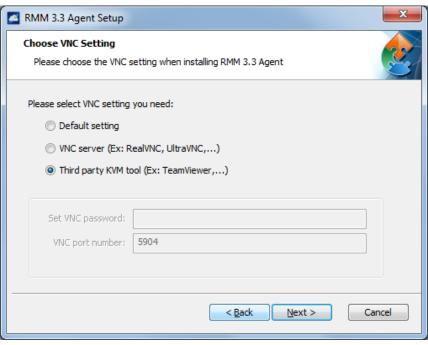
Click the "Install" button to begin the installation.

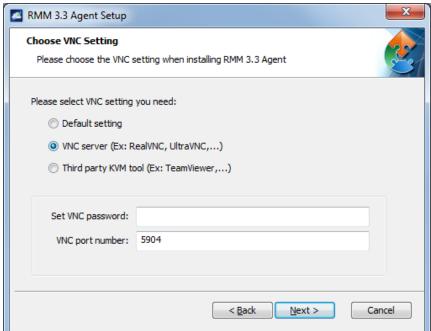


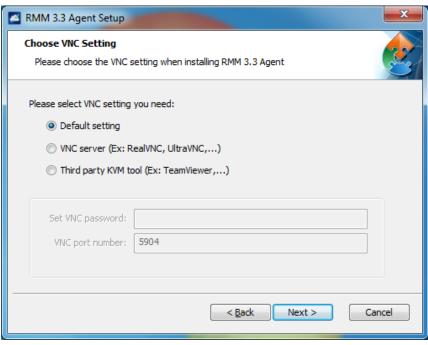


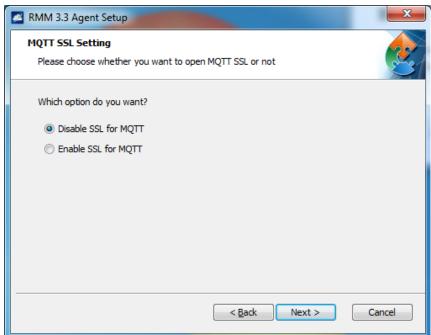


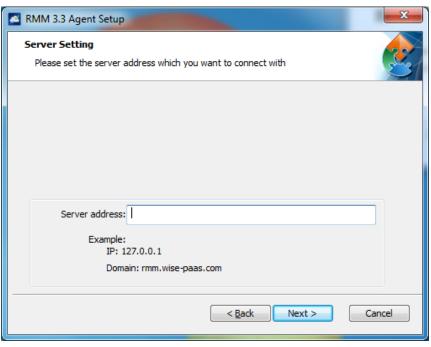




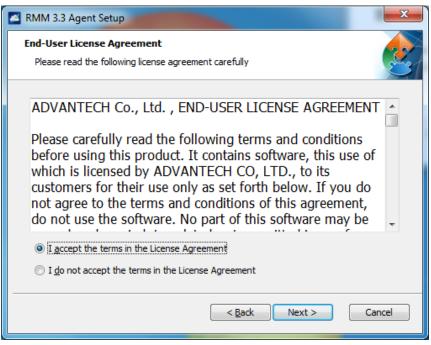






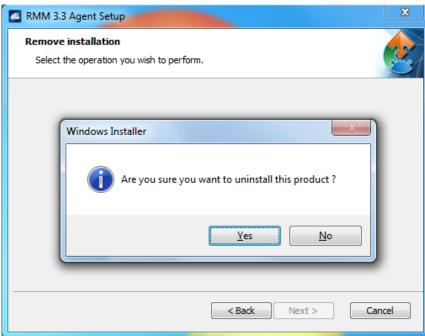


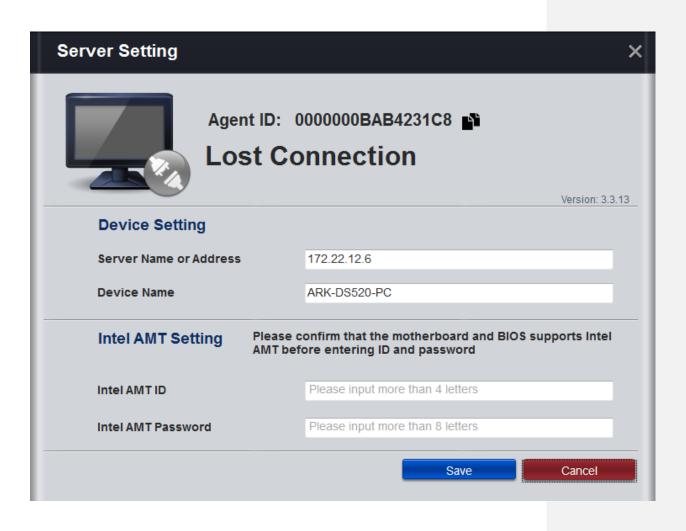


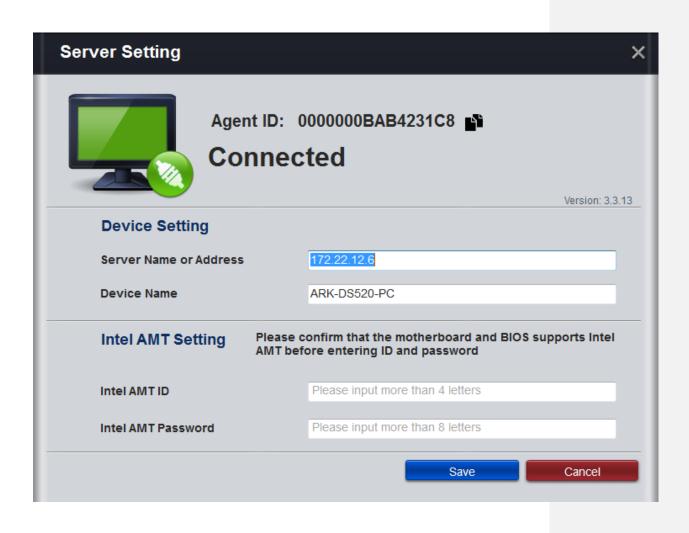


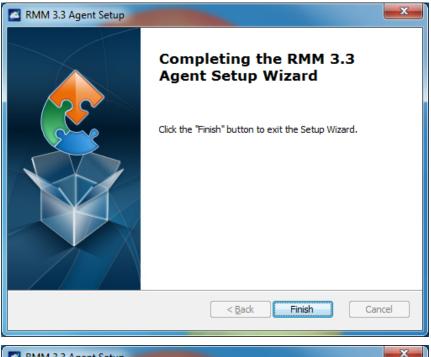


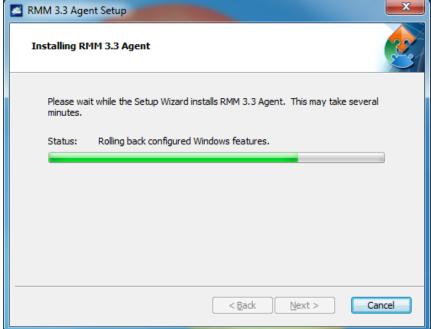












#### • Installation Completed.

Click the "Finish" button to exit the Setup Wizard.



#### 2.1.4 Uninstallation

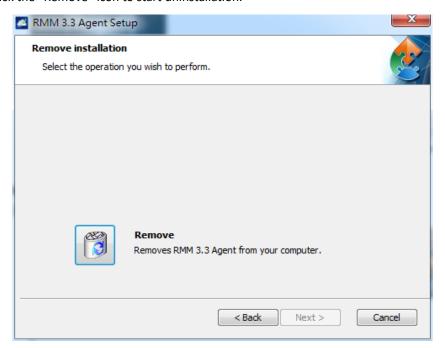
Start to uninstall "WISE-Agent"

Double click "RMM 3.3 AgentSetup.exe" to uninstall the WISE-Agent program.



#### Remove installation

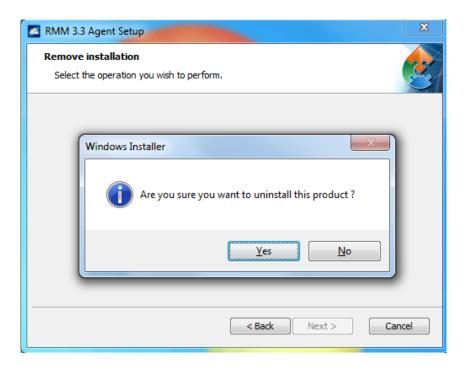
Click the "Remove" icon to start uninstallation.

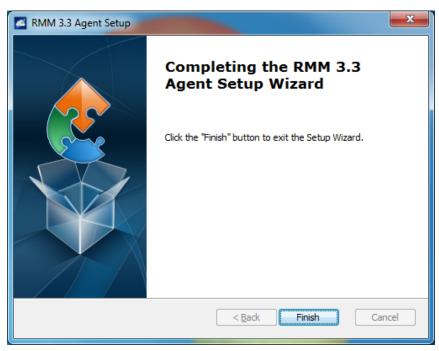


#### Confirm the uninstallation for RMM Agent

Click the "Yes" button to remove RMM Agent from your computer.









#### 2.2. Linux WISE-Agent Installation - CentOS

#### 2.2.1 Installation

• Untar the WISE-Agent installer to "Wrapped" folder

```
test@localhost:~/Downloads

[test@localhost Downloads]$ tar -zxf rmmagent-CentOS\ relear
se\ 6.5\ \(Final\)\ i686-3.3.13.7806.run.tar.gz
```

 Change directory to "Wrapped" folder and execute the installer with superuser permissions

```
test@localhost:~/Downloads/Wrapped

[test@localhost Downloads]$ cd Wrapped/
  [test@localhost Wrapped]$ ls
Install manual
rmmagent-CentOS release 6.5 (Final) i686-3.3.13.7806.run
[test@localhost Wrapped]$ sudo ./rmmagent-CentOS\ release\
6.5\ \(Final\)\ i686-3.3.13.7806.run
```

Enter the setup mode by clicking y

```
  zach@localhost:~/Wrapped

 ./AgentService/VNC' -> `/usr/local/AgentService/VNC'
 ./AgentService/VNC/x11vnc' -> `/usr/local/AgentService/VNC/x11vnc'
./AgentService/VNC/websockify' -> `/usr/local/AgentService/VNC/websockify'
./AgentService/libSAGatherInfo.so' -> `/usr/local/AgentService/libSAGatherI
nfo.so'
 ./AgentService/libSAConfig.so.3.1.30.5430' -> `/usr/local/AgentService/libS
AConfig.so.3.1.30.5430'
restore config files
 '/tmp/tmp.U1XF562Ptf/agent_config.xml' -> `/usr/local/AgentService/agent_con
fig.xml'
 /tmp/tmp.U1XF562Ptf/agent_config_def.xml' -> `/usr/local/AgentService/agent
 config_def.xml'
 -
//tmp/tmp.U1XF562Ptf/logger.ini' -> `/usr/local/AgentService/logger.ini'
 /tmp/tmp.U1XF562Ptf/log.ini' -> `/usr/local/AgentService/log.ini'
 /tmp/tmp.U1XF562Ptf/Modbus Handler.ini' -> `/usr/local/AgentService/Modbus
Handler.ini'
Install SAWatchdog service
Install SAWebsockify service
Install SAAgent service
Now will check whether the following packages installed:
 libxml2 openssl libcurl libXtst libX11 libmosquitto1 redhat-lsb-core xterm
 salite
All the packages is installed!
Setup Agent [y/n](default:n): y
```

Complete the configuration step by step

```
_ D X

  zach@localhost:∼/Wrapped

                       == AgentService Linux Setup =
*****************
********
FireWall is disabled
var/run/saagent.pid not found.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
RMM Watchdog daemon is not running.
                                                        [WARNING]
RMM Websockify daemon is not running.
RMM Agent daemon is not running.
Do you want to configure RMM Agent now? [y/n] (default: y) y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n] (default: n):
Input Device Name[Len:4--35] (default:localhost.localdomain):
Input AMT ID[Len:4--35, or na](default:):
Input AMT password[Len:8--16, or na](default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable](default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable](default: enable):
Do you want to start RMM Agent now? [y/n](default: y)
```

#### Install Completed

```
_ D X
zach@localhost:~/Wrapped
/var/run/saagent.pid not found.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
RMM Watchdog daemon is not running.
                                                               [WARNING]
RMM Websockify daemon is not running.
RMM Agent daemon is not running.
                                                               [WARNING]
Do you want to configure RMM Agent now? [y/n](default: y)y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n](default: n):
Input Device Name[Len:4--35] (default:localhost.localdomain):
Input AMT ID[Len:4--35, or na](default:):
Input AMT password[Len:8--16, or na](default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable](default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable](default: enable):
Do you want to start RMM Agent now? [y/n](default: y)y
Starting RMM Agent daemon...
Starting RMM Websockify daemon...
Starting RMM Watchdog daemon...
RMM Agent Linux setup successfully!
[zach@localhost Wrapped]$
```

#### 2.2.2 Uninstallation

 Change directory to '/usr/local/AgentService', and execute 'uninstall.sh' with superuser permissions

```
zach@localhost/usr/local/AgentService

[zach@localhost Wrapped]$ cd /usr/local/AgentService/
[zach@localhost AgentService]$ sudo ./uninstall.sh
```

Uninstall Completed

```
zach@localhost/usr/local/AgentService

[zach@localhost Wrapped]$ cd /usr/local/AgentService/
[zach@localhost AgentService]$ sudo ./uninstall.sh
Uninstall AgentService.
Pid: 7499
find app dir /usr/local/AgentService
AgentService Path: /usr/local/AgentService
Shutting down RMM Websockify daemon ... [ OK ]
Shutting down RMM Watchdog daemon... [ OK ]
Shutting down RMM Agent daemon... [ OK ]
remove folder /usr/local/AgentService
done.
[zach@localhost AgentService]$
```

#### 2.3. Linux WISE-Agent Installation – RISC\_Yocto

#### 2.3.1 Installation

Untar the WISE-Agent installer to "Wrapped" folder

```
root@imx6qwise3310:~# tar -zxf rmmagent-Poky\ \(^Yocto\ Project\ Reference\ Distro\)\ 1.5.3\ armv 71-3.3.13.7803.run.tar.gz
```

 Change directory to "Wrapped" folder and execute the installer with superuser permissions

```
root@imx6qwise3310:~/Wrapped# ls
Install manual
rmmagent-Poky (Yocto Project Reference Distro) 1
.5.3 armv71-3.3.13.7803.run
root@imx6qwise3310:~/Wrapped# ./rmmagent-Poky\ \
(Yocto\ Project\ Reference\ Distro\)\ 1.5.3\ arm
v71-3.3.13.7803.run
```

Enter the setup mode by clicking y

```
₽ 172.22.12.7 - PuTTY
 ./updater.sh: line 43: xhost: command not found
 Copy AgentService to /usr/local.
 restore config files
 cp -vf find /tmp/tmp.uVJ3aQ/ -maxdepth 1 -name '*.xml' /usr/local/AgentService/
BusyBox v1.21.1 (2015-07-31 20:34:01 CST) multi-call binary.
Usage: cp [OPTIONS] SOURCE... DEST
cp -vf find /tmp/tmp.uVJ3aQ/ -maxdepth 1 -name '*.ini' /usr/local/AgentService/
BusyBox v1.21.1 (2015-07-31 20:34:01 CST) multi-call binary.
Usage: cp [OPTIONS] SOURCE... DEST
update-rc.d: /etc/init.d/saagent exists during rc.d purge (continuing)
 Removing any system startup links for saagent ...
 Adding system startup for /etc/init.d/saagent.
 update-rc.d: /etc/init.d/sawatchdog exists during rc.d purge (continuing)
 Removing any system startup links for sawatchdog ...
 Adding system startup for /etc/init.d/sawatchdog.
 Setup Agent [y/n] (default:n): y
```

• Complete the configuration step by step

```
₽ 172.22.12.7 - PuTTY
   moving any system startup links for sawatchdog ...
Adding system startup for /etc/init.d/sawatchdog.
Setup Agent [y/n](default:n): y
                  ==== AgentService Linux Setup =
*****************
******
FireWall is disabled
/var/run/saagent.pid not found.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
RMM Agent daemon is not running.
RMM Agent daemon is not running.
************************
*******
Do you want to configure RMM Agent now? [y/n](default: y)y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n](default: n):
Input Device Name[Len:4--35](default:imx6qwise3310):
Input AMT ID[Len:4--35, or na](default:):
Input AMT password[Len:8--16, or na](default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable](default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable] (default: enable):
**********
*******
Do you want to start RMM Agent now? [y/n](default: y)
```

Install Completed

```
₽ 172.22.12.7 - PuTTY
FireWall is disabled
/var/run/saagent.pid not found.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
RMM Agent daemon is not running.
RMM Agent daemon is not running.
**************
******
Do you want to configure RMM Agent now? [y/n](default: y)y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n] (default: n):
Input Device Name[Len:4--35](default:imx6qwise3310):
Input AMT ID[Len:4--35, or na](default:):
Input AMT password[Len:8--16, or na](default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable](default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable](default: enable):
************
*******
Do you want to start RMM Agent now? [y/n](default: y)
RMM Agent Service Starting...
Starting RMM Agent daemon...
Starting RMM watchdog daemon...
RMM Linux setup successfully!
root@imx6qwise3310:~/Wrapped#
```

#### 2.3.2 Uninstallation

 Change directory to '/usr/local/AgentService', and execute 'uninstall.sh' with superuser permissions

```
root@imx6qwise3310:~/Wrapped# cd /usr/local/AgentService/
root@imx6qwise3310:/usr/local/AgentService# ./uninstall.sh
```

#### Uninstall Completed

```
_ D X
172.22.12.7 - PuTTY
Shutting down RMM watchdog daemon...
update-rc.d: /etc/init.d/saagent exists during rc.d purge (continuing)
 Removing any system startup links for saagent ... /etc/rc0.d/K20saagent /etc/rc1.d/K20saagent
  /etc/rc2.d/S99saagent
  /etc/rc3.d/S99saagent
  /etc/rc4.d/S99saagent
  /etc/rc5.d/S99saagent
  /etc/rc6.d/K20saagent
update-rc.d: /etc/init.d/sawatchdog exists during rc.d purge (continuing)
 Removing any system startup links for sawatchdog ... /etc/rc0.d/K20sawatchdog
  /etc/rc1.d/K20sawatchdog
  /etc/rc2.d/S99sawatchdog
  /etc/rc3.d/S99sawatchdog
  /etc/rc4.d/S99sawatchdog
  /etc/rc5.d/S99sawatchdog
  /etc/rc6.d/K20sawatchdog
remove folder /usr/local/AgentService
killall: cagent: no process killed
killall: sawatchdog: no process killed
root@imx6qwise3310:/usr/local/AgentService#
```

## 3. Windows WISE-Agent Configuration

#### 3.1. WISE-Agent Console

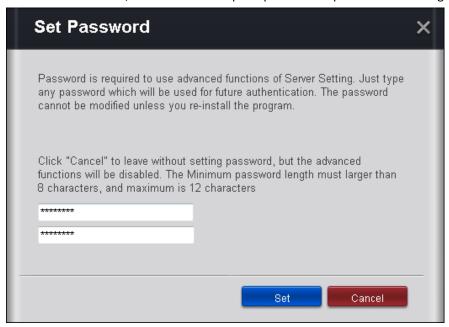
To use WISE-PaaS/RMM, users must install the WISE-Agent software on the monitored device. After installing the agent software, users can launch WISE-Agent program from the desktop shortcut.



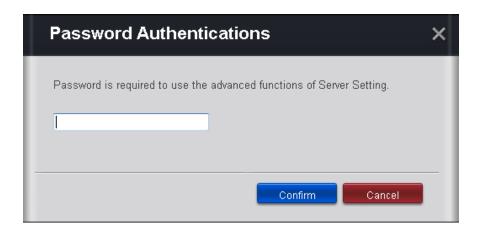
#### 3.2. Connect to Server

Double-click the WISE-Agent shortcut under desktop to call WISE-Agent standalone.

In first time execution, user needs to setup the password to protect the WISE-Agent.



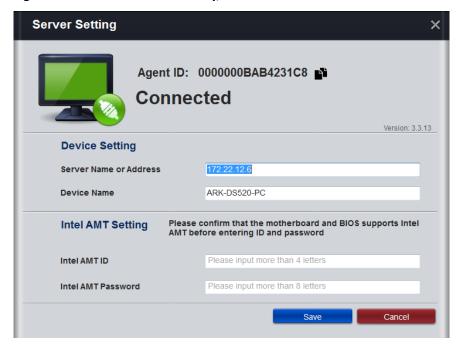
After the password setup, user needs to enter the password to lunch the Server Setting dialog.



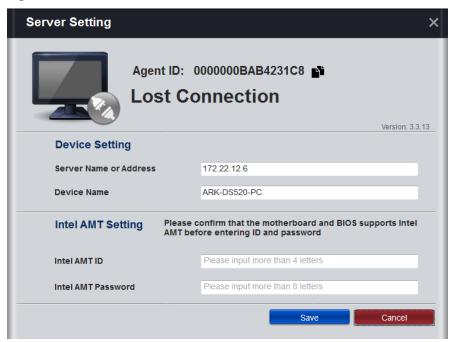
In the following window, enter the server IP address or server name and the device name, and then click "Save & Connect" button to establish the connection to server. If the device's motherboard supports Intel AMT, users can also enter AMT's account ID and password here, then after connecting to the server, the administrator can use Remote KVM to connect to the device via Intel AMT even when the device is powered off.

Note: The device's BIOS must be pre-configured to enable Intel AMT so that RMM can use it.

If Agent connect to Server successfully, it will show "Connected"



If Agent can't connect to Server, it will show "Disconnected"

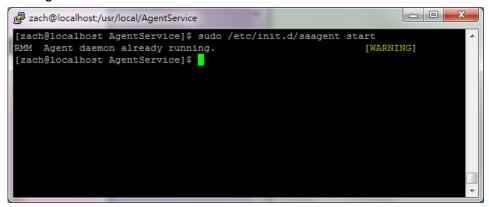


## 4. Linux WISE-Agent Configuration

#### 4.1 CentOS

#### 4.1.1 WISE-Agent Service Control

Start Agent Service



Stop Agent Service

```
zach@localhost/usr/local/AgentService

[zach@localhost AgentService]$ sudo /etc/init.d/saagent stop
Shutting down RMM Agent daemon...

[zach@localhost AgentService]$

[zach@localhost AgentService]$
```

Restart Agent Service

4.1.2 Setup WISE-Agent

 Change directory to '/usr/local/AgentService' and execute 'setup.sh' with superuser permissions.

Complete the configuration step by step to setup the agent.

```
_ D X
zach@localhost:/usr/local/AgentService
[zach@localhost AgentService]$ sudo ./setup.sh
[sudo] password for zach:
                         === AgentService Linux Setup ==
******************
*******
FireWall is disabled
/var/run/saagent.pid not found.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
RMM Watchdog daemon is not running.
RMM Websockify daemon is not running.
RMM Agent daemon is not running.
*************
*******
Do you want to configure RMM Agent now? [y/n](default: y)y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n] (default: n):
Input Device Name[Len:4--35] (default:localhost.localdomain):
Input Device Name[Len:4--35] (default:10cainost:10caidomain):
Input AMT ID[Len:4--35, or na] (default:):
Input AMT password[Len:8--16, or na] (default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable] (default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable](default: enable):
Do you want to start RMM Agent now? [y/n](default: y)
```

#### 4.1.3 Check WISE-Agent Connection Status

Change directory to '/usr/localAgentService' and use 'cat' command to check
'agent\_status' file. If return 0 means the agent cannot connect to server, return 1
means the agent connected to server.

```
Zach@localhost/usr/local/AgentService

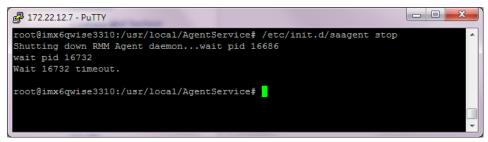
[zach@localhost AgentService]$ cat agent_status
0
[zach@localhost AgentService]$
```

#### 4.2 RISC\_Yocto

- WISE-Agent Service Control
- Start Agent Service

```
root@imx6qwise3310:/usr/local/AgentService# /etc/init.d/saagent start
RMM Agent daemon already running.
root@imx6qwise3310:/usr/local/AgentService#
```

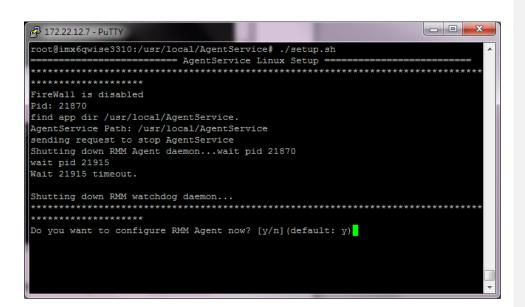
Stop Agent Service



Restart Agent Service

```
root@imx6qwise3310:/usr/local/AgentService# /etc/init.d/saagent restart
RMM Agent daemon is not running.
Starting RMM Agent daemon...
root@imx6qwise3310:/usr/local/AgentService#
```

- Setup WISE- Agent
- Change directory to '/usr/local/AgentService' and execute 'setup.sh' with superuser permissions.



• Complete the configuration step by step to setup the agent.

```
172.22.12.7 - PuTTY
                                                                     root@imx6qwise3310:/usr/local/AgentService# ./setup.sh
     ***********************
*******
FireWall is disabled
find app dir /usr/local/AgentService.
AgentService Path: /usr/local/AgentService
sending request to stop AgentService
Shutting down RMM Agent daemon...wait pid 21870
wait pid 21915
Wait 21915 timeout.
Shutting down RMM watchdog daemon...
Do you want to configure RMM Agent now? [y/n](default: y)y
Input Server IPAddress(default:127.0.0.1):
Input Server Port(default:1883):
Enalbe TLS [y/n](default: n):
Input Device Name[Len:4--35](default:imx6qwise3310):
Input AMT ID[Len:4--35] (default:):
Input AMT password[Len:8--16, or na] (default:):
Select KVM Mode[0:default, 1:custom VNC, 2:disable] (default:0):
Input VNC Port[1--65535] (default :5900):
Enable auto reconnect[enable/disable] (default: enable):
Do you want to start RMM Agent now? [y/n](default: y)
```

#### • Check WISE-Agent Connection Status

• Change directory to '/usr/localAgentService' and use 'cat' command to check 'agent\_status' file. If return 0 means the agent cannot connect to server, return 1 means the agent connected to server.



### 5. FAQ

Question1. How to fix the loss of dependent libraries while installing WISE-Agent?

```
_ D X
dest@CentOS:∼/Desktop
Now will check whether the following packages installed:
 libxml2 openssl libcurl libXtst libX11 libmosquitto1 redhat-lsb-core xterm sql
This following packages is not installed:
  libmosquitto1 xterm
Import mosquitto source file:
curl: (6) Couldn't resolve host 'download.opensuse.org'
Install libmosquitto1 xterm:
`[^ALoaded plugins: fastestmirror, refresh-packagekit, security
Determining fastest mirrors
Could not retrieve mirrorlist http://mirrorlist.centos.org/?release=6&arch=i386&
repo=os error was
14: PYCURL ERROR 6 - "Couldn't resolve host 'mirrorlist.centos.org'"
Error: Cannot find a valid baseurl for repo: base
Now will check whether the following packages installed:
This following packages is not installed:
  libmosquitto1 xterm
Install libmosquittol xterm failed!
You must install it manually and refer to Install manual!!
Setup Agent [y/n] (default:n): ^{\Lambda}You can setup agent with command '$ sudo ./set up.sh' in '/usr/local/AgentService' later.
Start RMM Agent.
Starting RMM Watchdog daemon...
Starting RMM Agent daemon...
```

#### Answer:

Users should connect to internet and restart the pre-install procedure with the following SOP:

- 1. # cd /usr/local/AgentService
- 2. # su root
- 3. # ./pre-install\_chk.sh

#### NOTICE:

Actually 'pre-install\_chk.sh' is run automatically when execute 'rmmagent-platform name-version.run'.

And run './pre-install\_chk.sh -devel' is install the depend packages for WISE-Agent development.

**註解 [W1]:** TBC

註解 [W2]: TBC

```
_ D X
test@CentOS:/usr/local/AgentService
[test@CentOS AgentService]$ sudo ./pre-install chk.sh
[sudo] password for test:
Now will check whether the following packages installed:
 libxml2 openssl libcurl libXtst libX11 libmosquitto1 redhat-lsb-core xterm sql
This following packages is not installed:
  libmosquitto1 xterm
Import mosquitto source file:
  % Total % Received % Xferd Average Speed Time Time Current
Dload Upload Total Spent Left Speed
36 272 136 272 0 0 119 0 0:00:02 0:00:02 --:--:- 888
Install libmosquitto1 xterm:
Loaded plugins: fastestmirror, refresh-packagekit, security
Loading mirror speeds from cached hostfile
 * base: mirror01.idc.hinet.net
 * extras: mirror01.idc.hinet.net
 * updates: mirror01.idc.hinet.net
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : libXpm-3.5.10-2.el6.i686
  Installing : libXaw-1.0.11-2.el6.i686
  Installing: xterm-253-1.el6.i686
  Installing: libmosquitto1-1.4.8-1.1.1686
```

## 6. Support

Please contact us if there are questions or visit the following websites for more details.

WISE-PaaS/RMM <a href="http://www.advantech.com/wise-paas/rmm">http://www.advantech.com/wise-paas/rmm</a>

IoT Developer Form <a href="http://iotforum.advantech.com/">http://iotforum.advantech.com/</a>

Technical Support <a href="http://support.advantech.com/support/new-default.aspx">http://support.advantech.com/support/new-default.aspx</a>

Advantech <a href="http://www.advantech.com/">http://www.advantech.com/</a>