

WISE-PaaS/RMM 3.1

Wireless IoT Sensing Embedded Remote Monitoring and Management WISE-Agent User Manual V1.6



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 st 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.

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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 http://support.advantech.com/support/new_default.aspx.

- .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: http://www.advantech.com/wise-paas/rmm

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 ~ 5504KVM2: 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



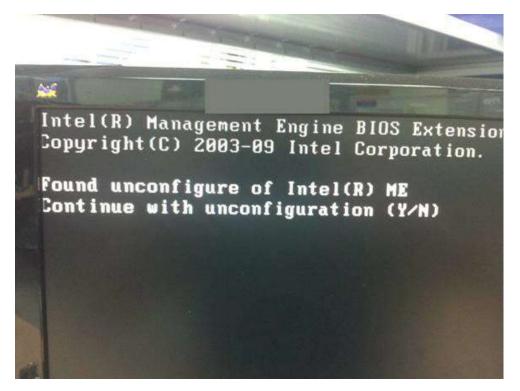
2.1.2 AMT Setting

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
```

Press Yes



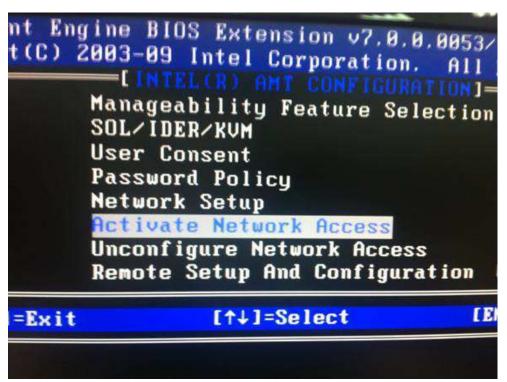
• First time entering ME with original password "admin"



Change new password



Activate Network Access



Exit and reboot

Please Visit Advantech website http://www.advantech.com/ for more information.

2. Software Installation

2.1. Windows WISE-Agent Installation

2.1.3 Installation

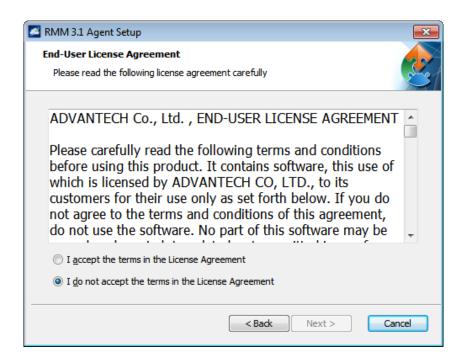
Double click "WISE-Agent Setup.exe" to install WISE-Agent program.

Start Installation



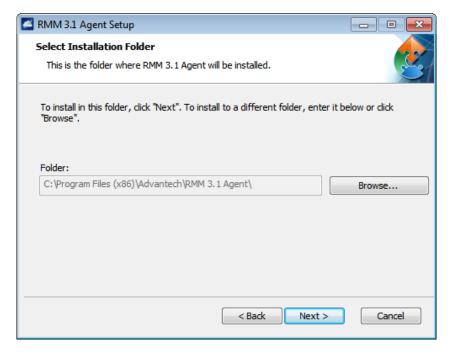
Check End-User License Agreement

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

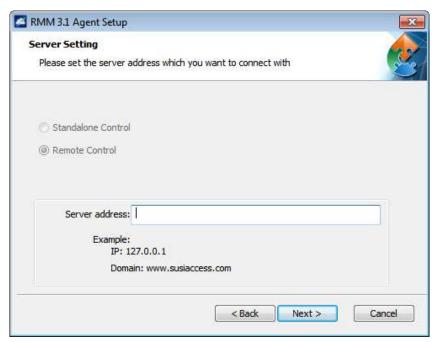


Select Installation Folder

Select the folder to be installed.

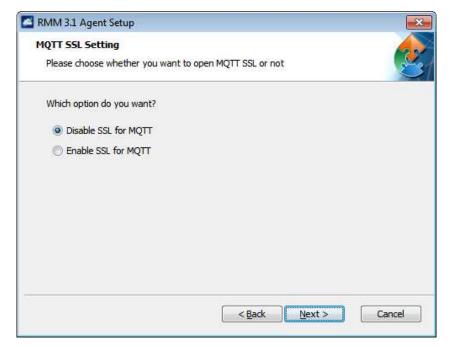


Server Settings - Set Remote Management Server URL/IP.



MQTT SLL Settings

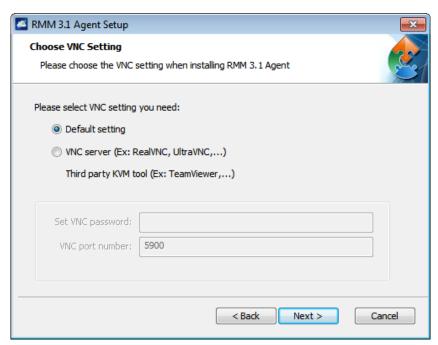
Choose either disable or enable SSL for MQTT.



VNC Setting

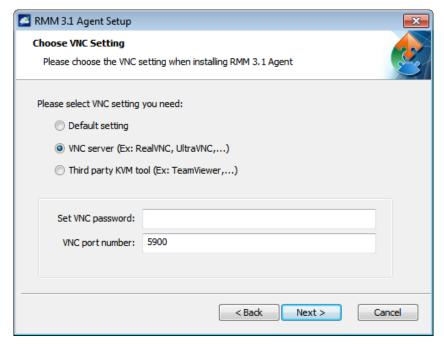
Please select VNC setting.

A. Set as Default RMM Built-in VNC.

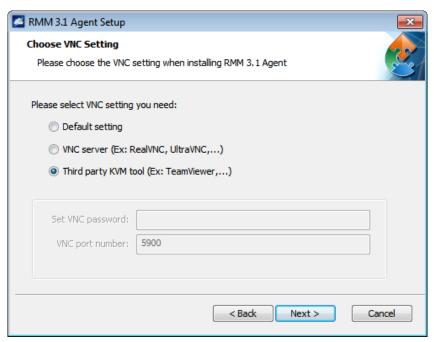


B. Use other User-defined VNC server.

Input VNC server password and port number



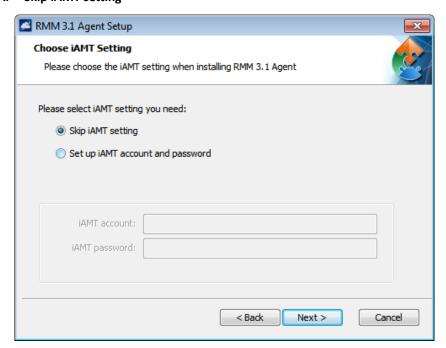
C. Disable RMM Built-in VNC and use other third party KVM tool.



iAMT Settings

Please choose the iAMT..

A. Skip iAMT setting

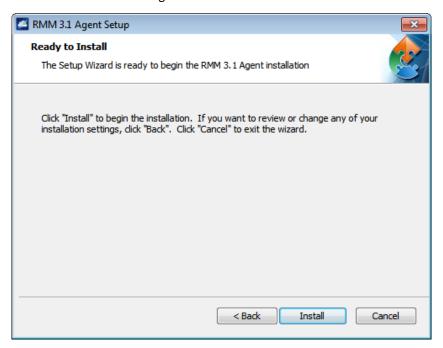


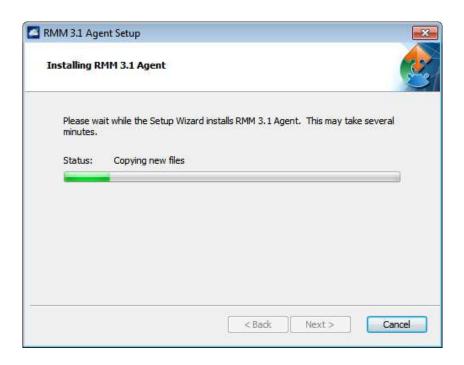
B. Set up iAMT



Start Installing.

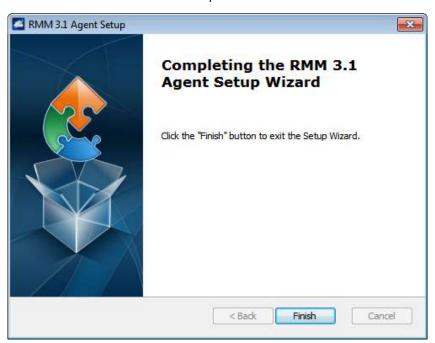
Click the "Install" button to begin the installation.





Installation Completed.

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



2.1.4 Uninstallation

Start to uninstall "WISE-Agent"

Double click "WISE-Agent Setup.exe" to uninstall the WISE-Agent program.



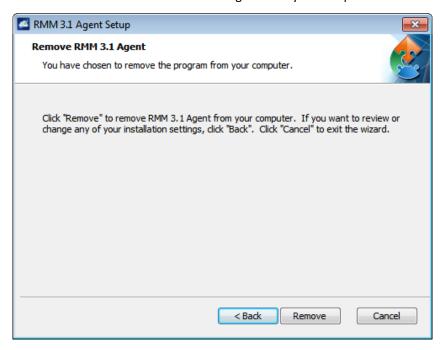
Remove installation

Click the "Remove" icon to start uninstallation.



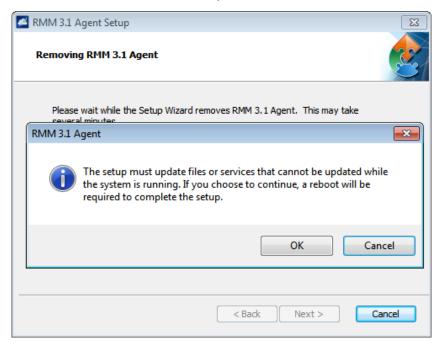
Confirm the uninstallation for WISE-Agent

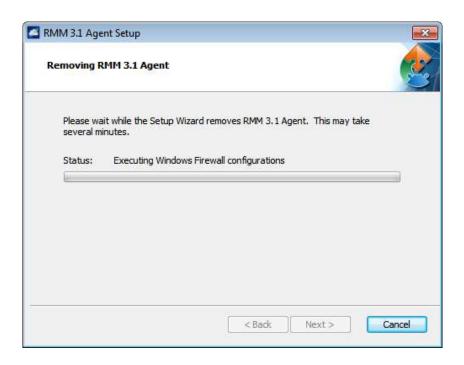
Click the "Remove" button to remove WISE-Agent from your computer.



• Confirm that running services will being stopped and removed.

Click "OK" to continue the uninstallation process.





Uninstallation completed.

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



2.2. Linux WISE-Agent Installation - CentOS

2.2.1 Installation

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

```
[zach@zcentos ~]$ 1s

ARK-2150F Release 2015 11 24 centos6.5 x86.tar
.gz

CAgentIoT
Desktop
Documents
Downloads
Music
Pictures
Public
release
rmmagent-CentOS release 6.5 (Final) i686-3.1.2
4.4576.run.tar.gz
Steps
SUS14.0.13692
SusiIoT CentOS6.5 x86 13692.tar.gz
Templates
Videos
WISE-Paas RMM 3.1 Agent UM_V1.4.pdf
[zach@zCentOS ~]$ tar -xvf rmmagent-CentOS\ re
lease\ 6.5\ \(Final\)\ i686-3.1.24.4576.run.ta
r.gz
```

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

```
Zach@ZCentOS:~Wrapped
[zach@ZCentOS Wrapped]$ ls
Install manual
rmmagent-CentOS release 6.5 (Final) i686-3.1.2
4.4576.run
[zach@ZCentOS Wrapped]$ sudo ./rmmagent-CentOS
\ release\ 6.5\ \(Final\)\ i686-3.1.24.4576.ru
n
```

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 libmosquittol redhat-lsb-core xterm
 salite
All the packages is installed!
Setup Agent [y/n] (default:n): y
```

Complete the configuration step by step

```
₽ 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.
RMM Websockify daemon is not running.
                                                   [WARNING]
                                                   [WARNING]
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)
```

Install Completed

```
- - 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.
                                                                [WARNING]
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)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

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:~# 1s
factorydef.sh
rmmagent-Poky (Yocto Project Reference Distro) 1.5.3 armv7l-3.1.31.5437.run.tar.
gz
saagent
sennet-wise_3310-1.3.00.0297.run
servicectl.sh
test.sh
root@imx6qwise3310:~# tar -xvf rmmagent-Poky\ \(Yocto\\) Project\ Reference\ Distro\)\\ 1.5.3\ armv7l-3.1.31.5437.run.tar.gz []
```

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

```
root@imx6qwise3310:~/Wrapped# 1s
Install manual
rmmagent-Poky (Yocto Project Reference Distro) 1.5.3 armv71-3.1.31.5437.run
root@imx6qwise3310:~/Wrapped# ./rmmagent-Poky\ \(Yocto\ Project\ Reference\ Dist
ro\)\ 1.5.3\ armv71-3.1.31.5437.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
                                                                   _ - X
 Removing 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:):
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

```
_ - 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

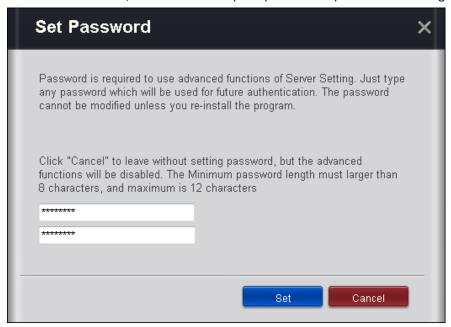
To use WISE-PaaS/RMM, users must install the WISE-Agent software on the monitored device. After installing the agent software, users can launch WISE-Agent program from the desktop shortcut.



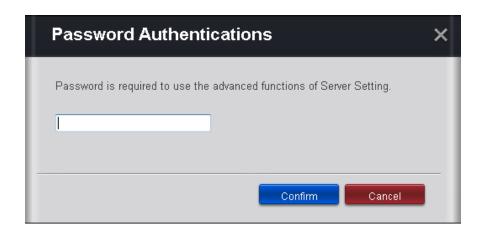
3.2. Connect to Server

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.



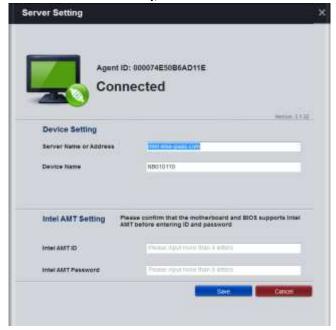
After the password setup, user needs to enter the password to lunch the Server Setting dialog.



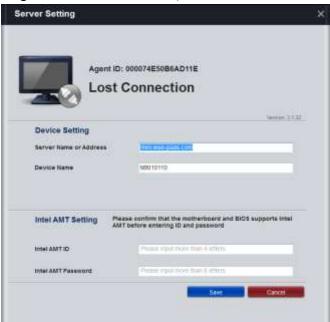
In the following window, enter the server IP address or server name and the device name, and then click "Save & Connect" button to establish the connection to server. If the device's motherboard supports Intel AMT, users can also enter AMT's account ID and password here, then after connecting to the 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

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

[zach@localhost AgentService]$ sudo /etc/init.d/saagent start

RMM Agent daemon already running.

[zach@localhost AgentService]$

[zach@localhost AgentService]$
```

Stop Agent Service

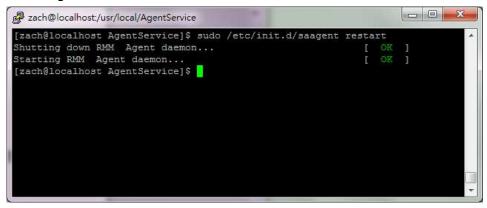
```
zach@localhost/usr/local/AgentService

[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.

```
_ - 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.
                                                            [WARNING]
RMM Websockify daemon is not running.
                                                            [WARNING]
RMM Agent daemon is not running.
                                                            [WARNING]
Do you want to configure RMM Agent now? [y/n](default: y)
```

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

```
_ - 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.
                                                        [WARNING]
                                                        [WARNING]
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)
```

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.

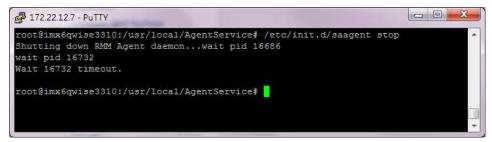
4.2 RISC_Yocto

- 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#
```

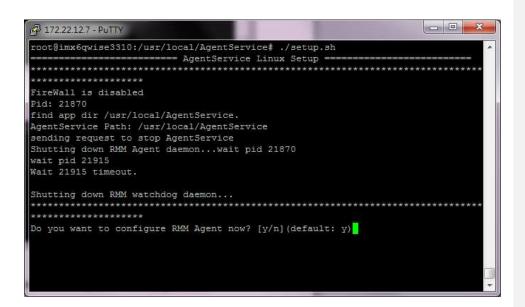
Stop Agent Service



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.

```
- - X
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 http://www.advantech.com/wise-paas/rmm

IoT Developer Form http://iotforum.advantech.com/

Technical Support http://support.advantech.com/support/new-default.aspx

Advantech http://www.advantech.com/