Replacement Intelligent Equipment Gateway

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Applied Rooftop Models: RDS and RPS
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Revision History
IM 1229  November 2014  Initial release

Reference Documents

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<th>Company</th>
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Limited Warranty
Consult your local Daikin Representative for warranty details. Refer to Form 933-43285Y. To find your local Daikin representative, go to www.DaikinApplied.com.

Notice
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General Information
This manual contains the information you need to replace an existing gateway for the Intelligent Equipment solution.

Hazard Identification Messages

Recognize Safety Symbols, Words and Labels
The following symbols and labels are used throughout this manual to indicate immediate or potential hazards. It is the owner and installer’s responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of property damage and/or product damage, serious personal injury or death. Improper installation, operation and maintenance can void the warranty.

- **DANGER**
  Dangers indicate a hazardous situation which will result in death or serious injury if not avoided.

- **WARNING**
  Warnings indicate potentially hazardous situations, which can result in property damage, severe personal injury, or death if not avoided.

- **CAUTION**
  Cautions indicate potentially hazardous situations, which can result in personal injury or equipment damage if not avoided.
Product Description
The Daikin Applied Intelligent Equipment solution provides facility and equipment management, monitoring, control, analysis, and decision-making via a secure, cloud-communicating machine-to-machine gateway that captures, analyzes and delivers building and equipment information, and third party content (i.e. - weather, utility, and CRM data), to a user device (smart phone, tablet, etc.) via wireless (Wi-Fi, cellular) or local area network (LAN) connection. This manual contains instructions specific to replacing an existing machine-to-machine (M2M) gateway.

Components
Machine-to-Machine (M2M) Gateway
The M2M Gateway is a factory tested and commissioned device, which arrives ready to be installed on an existing mounting bracket. The existing Gateway will be removed and replaced by the new Gateway.

Unpacking
Material shipped loose

- A single M2M Gateway.

Upon receiving, verify that all components are present, and notify the supplier of any shortage.
**Necessary Tools**

- Multimeter
- #2 Phillips Screwdriver
- #2 Flat Screwdriver
- 5/16" Nut Driver

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**WARNING**

Electric shock hazard. Can cause personal injury or equipment damage.

Prior to replacing Intelligent Equipment hardware, power must be removed from the unit. This means removing power at the breaker panel serving the unit, and following proper lockout/tagout procedures at said breaker panel for the duration of the install. Power should not be reapplied until all electrical interconnections have been made and verified.

This equipment must be properly grounded. Connections and service to the MicroTech III Air Handling Unit Controller, Machine-to-Machine Gateway and Energy Management Module must be performed only by personnel knowledgeable in the operation of the equipment being controlled.

---

**CAUTION**

Static sensitive components. Can cause equipment damage.

Discharge any static electrical charge by touching the bare metal inside the control panel before performing any service work. Never unplug cables, circuit board terminal blocks, or power plugs while power is applied to the panel.

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**CAUTION**

Sharp edges on sheet metal and fasteners can cause personal injury. This equipment must be installed, operated, and serviced only by an experienced installation company and fully trained personnel.

---

**Removal**

**Disconnecting Existing Wiring Interconnections**

Prior to replacing the M2M Gateway, power must be removed from the unit. Power must be removed at the breaker panel serving the unit, and proper lockout/tagout procedures should be followed for the duration of the install. After removing unit power at the breaker panel, the installer must verify the absence of power at the unit using a multimeter. Only if power has been verified absent, should the technician continue the replacement process.

**M2M Connection to MTIII**

The M2M Gateway is connected to the MicroTech III unit controller via Ethernet. Disconnect the Ethernet Patch cable from the M2M port marked, "ETH" (Figure 1).

![Figure 1: ‘ETH’ Port](image1)

**M2M Connection to EMM**

The M2M Gateway is connected to the Energy Management Module (EMM) via USB. Remove the USB cable connection from the M2M port marked, “USB1” (Figure 2).

![Figure 2: USB Connection](image2)
Connection of Power Supply

The M2M Gateway is powered by a 120VAC (primary) to 24VDC (secondary) power supply. The 24 VDC connection is made via a pre-fabricated, keyed plug coming from the low voltage end of the power supply. Disconnect this plug from the M2M Gateway receptacle marked, “Power Input” (Figure 3).

Antenna and Ethernet Connections

Depending on the application, the M2M Gateway could be connected to the cloud via cellular, Wi-Fi, or LAN. If the application is cellular or Wi-Fi, unscrew the SMA coaxial connector from the M2M SMA coaxial connector; “3G/GPRS” for cellular or “WLAN” for Wi-Fi. (Figure 4).

If the application is LAN, unplug the USB-to-Ethernet adapter (Figure 5) from the “USB2” port of the M2M.

Figure 3: M2M Power input

Figure 4: 3G and WLAN Connections

Figure 5: USB-to-Ethernet adapter
Removing Existing M2M Gateway from Bracket

The existing mounting bracket, which contains the M2M Gateway and power supply, is mounted to the inside of the control enclosure. Depending on the cabinet layout, the bracket may be located in several different places within the control enclosure. Typically, however, it will be located on the top of the enclosure. Prior to removing the existing Gateway from this bracket, ensure that all wiring interconnections have been removed from the existing M2M Gateway, as described in the preceding section. In addition, make note of the orientation of the existing Gateway on the mounting bracket. The new M2M Gateway must be installed in the same orientation. Remove the existing Gateway by unscrewing the 5/16” head sheet metal screws located at the four corners of the Gateway (Figure 6). Set these screws aside, as they will be reused for the new M2M Gateway.

Installation

Installing New M2M Gateway on Bracket

Remove the new M2M gateway from the box and align it on the bracket in the same orientation as the previous Gateway. Secure it to the mounting bracket using the four 5/16” head sheet metal screws saved from the existing Gateway.

Reconnecting Wiring interconnections

Reconnect all wiring interconnections that were removed during the replacement including:

- M2M Connection to MTIII
- M2M Connection to EMM
- Connection of M2M Gateway to Power Supply
- Antenna and/or Ethernet Connections
Verify Time Zone Information

The M2M Gateway comes pre-configured from the factory with the Time and Time Zone set based on the location of the installation site. However, the installer should confirm that the factory setting is accurate, and ensure that the correct information is also set in the MicroTech III Rooftop Unit controller.

1. Using a laptop computer and Ethernet cable, connect to the “ETH” port of the M2M Gateway (you will need to temporarily disconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller, to make use of the “ETH” port on the M2M Gateway).
   a. The Time Zone in the M2M Gateway is verified using an HTML Interface page in an HTTP server.
   b. In order to access this page, your computer must be on the same subnet as the M2M Gateway, which is shipped set to a default IP subnet mask (255.255.0.0) and IP address (172.31.255.1). You must change the computer’s network settings to match the subnet.
   c. Navigate to your laptop’s Local Area Connection settings screen and change the IP subnet mask to 255.255.0.0, and the IP address to be compatible with the default M2M Gateway IP address listed above (example: 172.31.255.7). For more information on how to change your computer’s IP settings, consult the Operating System’s “Help” files.
   d. Temporarily disable the wireless adapter(s) on the computer, as these may prevent accessing the HTML Interface page.
2. Open a web browser page and type, 172.31.255.1, and then press enter.
   a. When prompted, enter the User Name: “service”
   b. Enter the unique password that was provided with the Gateway hardware and press ENTER.
   c. This opens the Gateway home page.
3. Click the ‘System’ tab (Figure 7).
   a. Select the ‘Settings’ tab
   b. Under ‘Time Zone’, verify that the indicated Time Zone is accurate. If so, continue to step 5.
4. If the Time Zone is inaccurate, use the list to select the correct Time Zone, then click, ‘Save Changes’.
   a. After saving changes, the screen will refresh.
5. Click, ‘Apply Changes’ to write the change to the Gateway’s configuration file.
   a. After applying changes, the screen will briefly indicate that the configuration is being updated, then will refresh to display the new time zone.
6. You will notice that the time in the upper right corner of the webpage will now reflect accurately based on the selected Time Zone (Figure 8).
7. Once the Time Zone is verified in the M2M Gateway, you will verify the time in the MicroTech III Rooftop Unit controller. From the main menu of the unit controller (Figure 9), turn the knob clockwise until ‘View/Set Unit’ is highlighted.
   a. Press in on the knob to enter the ‘View/Set Unit’ menu
8. From the ‘View/Set Unit’ menu, turn the knob clockwise until ‘Date/Time/Schedules’ is highlighted.
   a. Press in on the knob to enter the ‘Date/Time/Schedules’ menu
9. Verify that the ‘Time’, ‘Date’, and ‘UTC Diff’ (Figure 10) are all correct.
   a. If any require a change, simply use the knob to highlight that field, then press in on the knob to select, which makes the item adjustable.
   b. Use the knob to increase/decrease the value, then press in on the knob to enter
10. Once the ‘Time’, ‘Date’, and ‘UTC Diff’ are all correct, press the back button to return to the main menu.

NOTE: For more information on navigating the MicroTech III Rooftop Unit controller keypad display, please see the appropriate operation manual for the unit model.
**Figure 7: System tab**

![System tab](image)

**Figure 8: Time updated to Time Zone**

![Time updated to Time Zone](image)

**Figure 9: Keypad Controls**

![Keypad Controls](image)

**Figure 10: Date/Time/Schedules Menu**

![Date/Time/Schedules Menu](image)
Cellular Configuration

The following procedures should be used to configure the Intelligent Equipment solution for Cellular connectivity:

1. Mount and connect the wireless antenna per the instructions included in document section, “Antenna Installation”

2. Using a laptop computer and Ethernet cable, connect to the “ETH” port of the M2M Gateway (you will need to temporarily disconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller, to make use of the “ETH” port on the M2M Gateway).
   a. The Cellular strength of the M2M Gateway is verified using an HTML Interface page in an HTTP server.
   b. In order to access this page, your computer must be on the same subnet as the M2M Gateway, which is shipped set to a default IP subnet mask (255.255.0.0) and IP address (172.31.255.1). You must change the computer’s network settings to match the subnet (the signal strength verification process is the same regardless of the operating system on your computer).
   c. Navigate to your laptop’s Local Area Connection settings screen and change the IP subnet mask to 255.255.0.0, and the IP address to be compatible with the default M2M Gateway IP address listed above (example: 172.31.255.7). For more information on how to change your computer’s IP settings, consult the Operating System’s “Help” files.
   d. Temporarily disable the wireless adapter(s) on the computer, as these may prevent accessing the HTML Interface page.

3. Open a web browser page and type, 172.31.255.1, and then press enter.
   a. When prompted, enter the User Name: “service”
   b. Enter the unique password that was provided with the Gateway hardware and press ENTER.
   c. This opens the Gateway home page (Figure 11).

4. Click the ‘Status’ tab
   a. Select the ‘WWAN Modem’ tab
   b. Under “Signal Quality, verify cellular signal strength (Figure 12).

5. Adjust antenna as necessary to establish a strong cellular connection
   a. For reliable operation, signal quality and power should both be in the good or excellent range.
   b. As the antenna is adjusted, be mindful that signal strength is impacted by structures or other antennas. As much as practically possible, make efforts to avoid such interference while adjusting the antenna.

6. Once a strong cellular connection is obtained, close the web browser, and disconnect the Ethernet cable between the laptop and M2M Gateway.

7. Reconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller.

8. Feed excess antenna cable into the control enclosure, and then tighten waterproof grommet.

9. Add a bead of silicone around the perimeter of the waterproof grommet penetration into the control enclosure.

10. On inside of enclosure, secure excess antenna cable using zip ties.
**Figure 11: M2M Gateway home page**

![M2M Gateway home page](image1)

**Figure 12: Verify Cellular signal strength**

![Verify Cellular signal strength](image2)
Wi-Fi Configuration

The following procedures should be used to configure the Intelligent Equipment solution for Wi-Fi connectivity:

1. Mount and connect the wireless antenna per the instructions included in document section, “Antenna Installation”

2. Using a laptop computer and Ethernet cable, connect to the “ETH” port of the M2M Gateway (you will need to temporarily disconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller, to make use of the “ETH” port on the M2M Gateway).
   a. The Wi-Fi settings of the M2M Gateway are configured using HTML Interface pages in an HTTP server.
   b. In order to access these pages, your computer must be on the same subnet as the M2M Gateway, which is shipped set to a default IP subnet mask (255.255.0.0) and IP address (172.31.255.1). You must change the computer’s network settings to match the subnet (the Wi-Fi configuration process is the same regardless of the operating system on your computer).
   c. Navigate to your laptop’s Local Area Connection settings screen and change the IP subnet mask to 255.255.0.0, and the IP address to be compatible with the default M2M Gateway IP address listed above (example: 172.31.255.7). For more information on how to change your computer’s IP settings, consult the Operating System’s “Help” files.
   d. Temporarily disable the wireless adapter(s) on the computer, as these may prevent accessing the HTML Interface pages.

3. Open a web browser page and type, 172.31.255.1, and then press enter.
   a. When prompted, enter the User Name: “service”
   b. Enter the unique password that was provided with the Gateway hardware and press ENTER.
   c. This opens the Gateway home page (Figure 13).

4. If the M2M Gateway will be using DHCP, skip to step 6. If the M2M Gateway will be using a Static IP address, go to step 5.

5. Click the ‘Network’ tab
   a. Under wlan0 Configuration (Figure 14), select ‘Static IP’ for Connection Type
   b. Enter the IP, Subnet, and Gateway address information
   c. Under wlan0 DNS Servers enter the primary DNS server and click ‘Add’
   d. If a secondary DNS server address is to be entered, enter it after the page has reloaded and click ‘Add’ and enter the secondary address.
   e. Click ‘Save’.

6. Click the ‘Wireless’ tab (Figure 15 on page 14)
   a. Enter the ESSID of the network
   b. If Wi-Fi security is enabled enter in Wi-Fi network SSID and password and security type

7. Click the ‘Save Changes’ button in the lower right corner of the page.

8. Click the System tab, and then click the Reboot tab.
   a. Click the ‘Yes, really reboot now’ button
   b. The gateway will automatically refresh after several minutes.

9. Click the ‘Status’ tab
   a. Under ‘WLAN’, verify Wi-Fi signal strength (Figure 16 on page 14).

10. Adjust antenna as necessary to establish a strong Wi-Fi connection
    a. For reliable operation, signal level should be 60 dBm or lower and link quality power should be 50/70 or higher.
    b. As the antenna is adjusted, be mindful that signal strength is impacted by structures or other antennas. As much as practically possible, make efforts to avoid such interference while adjusting the antenna.

11. Once a strong Wi-Fi connection is obtained, close the web browser, and disconnect the laptop and Ethernet cable from the M2M Gateway.

12. Reconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller.

13. Feed excess antenna cable into the control enclosure, and then tighten waterproof grommet.

14. Add a bead of silicone around the perimeter of the waterproof grommet penetration into the control enclosure.

15. On inside of enclosure, secure excess antenna cable using zip ties.
**Figure 13: M2M Gateway home page**

*WIND RIVER*
*Intelligent Device Platform 2.0*

![System Information](image)

**Figure 14: Wireless LAN Configuration**

*lan Configuration*
- Connection Type: DHCP
  - eth0

*wlani Configuration*
- Connection Type: Static IP
  - Type: wlan0

*wlani0 DNS Servers*

*wwan Configuration*
- Connection Type: WWAN
  - Interface: 3g-wwan
  - Device: /dev/ttyACU0
**Figure 15: Wireless Configuration screen**

![Wireless Configuration screen](image)

**Figure 16: Wireless signal strength**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>10.170.1.53</td>
</tr>
<tr>
<td>MAC Address</td>
<td>00:0c:29:31:32:00</td>
</tr>
<tr>
<td>IPv6 Address (Link)</td>
<td>2001:0db8:0100:0:0:0:0:0/64</td>
</tr>
<tr>
<td>Received</td>
<td>246 bytes (31.7 KB)</td>
</tr>
<tr>
<td>HTU</td>
<td>1500</td>
</tr>
<tr>
<td>ESSID</td>
<td>Corp</td>
</tr>
<tr>
<td>Mode</td>
<td>Managed</td>
</tr>
<tr>
<td>Frequency</td>
<td>2.437 GHz</td>
</tr>
<tr>
<td>Access Point</td>
<td>00:3A:99:33:87:31</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>15 dBm</td>
</tr>
<tr>
<td>RTS</td>
<td>Off</td>
</tr>
<tr>
<td>Fragmentation</td>
<td>Off</td>
</tr>
<tr>
<td>Power Management</td>
<td>Off</td>
</tr>
<tr>
<td>Link Quality</td>
<td>56/79</td>
</tr>
<tr>
<td>Signal Level</td>
<td>-94 dBm</td>
</tr>
</tbody>
</table>

![Wireless signal strength](image)
LAN Configuration

The following procedures should be used to configure the Intelligent Equipment solution for Local Area Network (LAN) connectivity:

1. Remove the Ethernet to USB-to-Ethernet adapter from the envelope and connect it to an open USB port on the M2M Gateway (this is necessary because the M2M Gateway has a single Ethernet plug, which is connected to the MicroTech III controller, and, therefore, unavailable).
   a. If the M2M Gateway will be addressed using DHCP, simply connect the provided Ethernet patch cord to the USB-to-Ethernet adapter (DHCP is enabled by default)
   b. If the M2M Gateway will use a Static IP address, proceed to step 2.

2. Using a laptop computer and Ethernet cable, connect to the “ETH” port of the M2M Gateway (you will need to temporarily disconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller, to make use of the “ETH” port on the M2M Gateway).
   a. The Local Area Network (LAN) settings of the M2M Gateway are configured using HTML Interface pages in an HTTP server.
   b. In order to access these pages, your computer must be on the same subnet as the M2M Gateway, which is shipped set to a default IP subnet mask (255.255.0.0) and IP address (172.31.255.1). You must change the computer’s network settings to match the subnet (the Wi-Fi configuration process is the same regardless of the operating system on your computer).
   c. Navigate to your laptop’s Local Area Connection settings screen and change the IP subnet mask to 255.255.0.0, and the IP address to be compatible with the default M2M Gateway IP address listed above (example: 172.31.255.7). For more information on how to change your computer’s IP settings, consult the Operating System’s “Help” files.
   d. Temporarily disable the wireless adapter(s) on the computer, as these may prevent accessing the HTML Interface pages.

3. Open a web browser page and type, 172.31.255.1, and then press enter.
   a. When prompted, enter the User Name: “service”
   b. Enter the unique password that was provided with the Gateway hardware and press ENTER.
   c. This opens the Gateway home page (Figure 17 on page 16).

4. Click the ‘Network’ tab

5. Scroll down to the ‘lan Configuration’ section (Figure 18 on page 16)
   a. Under lan Configuration select ‘Static IP’ for Connection Type
      — Enter the IP, Subnet, and Gateway address information
   b. Under wan DNS Servers enter the primary DNS server and click ‘Add’
      — If a secondary DNS server address is to be entered, enter it after the page has reloaded and click ‘Add’ and enter the secondary address.

6. Click the ‘Save Changes’ button in the lower right corner of the page.

7. Click the System tab, and then click the Reboot tab.
   a. Click the ‘Yes, really reboot now’ button
   b. The gateway will automatically refresh after several minutes.

8. Verify Internet connection through the Multi Wan Page.

9. Once the Internet connection is verified, close the web browser, and disconnect the laptop and Ethernet cable from the M2M Gateway.

10. Reconnect the Ethernet cable between the M2M Gateway and the MicroTech III controller.
Figure 17: M2M Gateway home page

WIND RIVER
Intelligent Device Platform 2.0

System Information

- Firmware: Wind River Intelligent Device Platform - With Wasel Extensions 2.0
- Kernel: Linux 3.4.43-generic-WPS.0.1.8, Stanford #112 SMP INMIOPM Mon Jan 27 14:23:31 UTC 2014
- Device: Intel Atom C2050
- Username: admin
- Web req. console: WebIT
- Version: 0.3.0-04957

Figure 18: LAN Configuration settings

**Ian Configuration**
- Connection Type: Static IP
- Interface: eth0
- Type: None

**IP Address**
- 192.168.1.40

**Netmask**
- 255.255.255.0

**Default Gateway**
- 192.168.1.1

**Ian DNS Servers**
- 8.8.8.8
- 4.2.2.2
- Add

**wlan0 Configuration**
- Connection Type: DHCP
- Interface: wlan0
**Gateway does not power up (LED does not illuminate)**

- Verify that power supply wires are properly installed on terminals
  - Rebel - Line (brown) conductor to terminal TB1-1 and the Neutral (blue) conductor to terminal TB1-3
  - MicroTech III Maverick II - Line (brown) conductor to terminal TB1A-1, 2, 3, or 4 and Neutral (blue) conductor to terminal TB1A-5, 6, 7, 8, or 9
- Verify 120V at appropriate terminals
- Verify that power supply is properly connected to the Gateway
- Contact Daikin Applied

**Cell connection cannot be established**

- Check antenna connection to magnetic base
- Check antenna connection to 3G/GPRS connection on Gateway
- Check signal strength through WebIF
- Verify APN settings
- Verify that neither a LAN or Wi-Fi connection has been established
- Confirm SIM card installation and recognition by gateway
- Contact Daikin Applied

**Wi-Fi connection cannot be established**

- Check antenna connection to magnetic base
- Check antenna connection to WLAN connection on Gateway
- Check signal strength through WebIF
- Verify Wi-Fi IP addressing, ESSID, and login credentials match customer supplied Wireless LAN requirements
- Connect to Wi-Fi network and try to ping the Gateway's WLAN IP address
- Verify that neither a LAN or Cell connection has been established
- Contact Daikin Applied

**LAN connection cannot be established**

- Confirm proper installation of USB to Ethernet adapter
- Verify LED activity on USB to Ethernet adapter
- Verify LAN addressing through Web IP
- Connect to LAN and try to ping the Gateway's LAN IP address
- Verify that neither a Wi-Fi or Cell connection has been established
- Contact Daikin Applied

**MicroTech III Data Not Showing Up In User Interface**

- Confirm Ethernet cable is plugged into 'ETH' port on Gateway
- Confirm Ethernet cable is plugged into 'TIP' port on MicroTech III controller
- Check for LED activity on Gateway's ETH port
- Verify IP address of Eth0 on the Gateway is 192.168.1.40
- Verify IP address of the MicroTech III controller is 192.168.1.42
  - On units with software versions later than 2506017500 this can be done at the keypad
- Contact Daikin Applied
Daikin Applied Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

Warranty

All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Applied representative for warranty details. To find your local Daikin Applied representative, go to www.DaikinApplied.com.

Aftermarket Services

To find your local parts office, visit www.DaikinApplied.com or call 800-37PARTS (800-377-2787). To find your local service office, visit www.DaikinApplied.com or call 800-432-1342.

This document contains the most current product information as of this printing. For the most up-to-date product information, please go to www.DaikinApplied.com.

Products manufactured in an ISO Certified Facility.