

## D-PC-OT-1649

**Date:** January 23, 2019  
**To:** Internal, Sales, Distribution and Sales Representatives  
**From:** Norman Pennant, Controls Product Manager  
**Subject:** **intelligent Touch Manager™ (iTM) 2+ Software Update**

Daikin North America LLC is pleased to announce the new *iTM* 2+ software version (v2.06) is now available. The new software version is backwards compatible with all *iTMs*. In order to upgrade to the new software version, a software update needs to be performed on the *iTM* - Contact Daikin Technical Support for details.

The following changes have been made in this software update:

- Indoor unit, outdoor unit and connected external components operation data is now stored in the *iTM* every minute for the previous 5 days. The operation data can be accessed and downloaded through the *iTM* web access or USB output.
  - Indoor and outdoor unit\* operation data
  - *BACnet*® client management data points (AI, AO, AV, BI, BO, BV, MI, MO and MV)
  - *WAGO*® IO system data points (External DI, DIO, PI AI and AO)
- New indoor unit and outdoor unit operational data points are also available to the Building Management System (BMS) through the *iTM* *BACnet* Server Gateway Option (DCM014A51)
- Additional management point icons and selectable icons sizes are also available to be used for the floor plan development and the *BACnet* Client graphical user interface (GUI).

\* Supported outdoor unit models only (Current supported outdoor unit models: RXYQ\_TATJU, RXYQ\_TAYDU, REYQ\_TATJU, and REYQ\_TAYDU)

With the new updates, the following *BACnet* objects are available through the *iTM* and/or the *iTM* *BACnet* Server Gateway Option (DCM014A51). The points marked in “**blue bold**” are the new points that have been added with this latest update.

- **System configuration points linked to *iTM* control logic (one set of points per *iTM*):**



*iTM* (DCM601A71)

***(Continued on next page)***

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Point Name	Point Description
Enable <i>iTM</i> Schedule Operation	Enable or Disable <i>iTM</i> Schedule operation
Enable <i>iTM</i> Auto Changeover Operation	Enable or disable <i>iTM</i> Auto changeover logic.
Timed Override Minutes	Set override time in minutes
System Forced Off	The Forced System Stop command will force the indoor unit to stop running. Remote controllers will be locked out from restarting indoor units during the forced system stop event.

- Indoor unit monitoring points (one set of points per indoor unit group):**

Point Name	Point Description
Unit On_Off Status	Monitors if the indoor unit fan is On or Off
Alarm Status	Monitors whether or not the indoor unit is operating normally, and issues an alarm if the indoor unit has a malfunction. Error Code is shown in the description.
Room Temperature	Monitors and displays the room temperature.
Unit On Details	Indoor unit details operation Off - Normal (ON) - Override - Setback
Filter Sign Status	Monitors filter run time and provides service alert.
Indoor Fan Status	Monitors if the indoor unit fan is On or Off
Communication Status	Monitor if the communication is Normal or in Alarm
Thermo-on Status	Monitors whether or not the indoor unit is actively cooling or heating.
Compressor Status	Monitors if the compressor of the outdoor unit is On/Off/Defrost
Aux Heater Status	Monitors if the external heater controlled by the indoor unit is operating.
Changeover Option	Monitor if <i>iTM</i> changeover logic is Active.
<b>Return Air Temperature</b>	<b>Monitors and displays the return air temperature.</b>
<b>Discharge Air Temperature</b>	<b>Monitors and displays the discharge air temperature of the FXMQ_PB indoor unit.</b>
<b>Liquid Pipe Temperature</b>	<b>Monitors and displays the liquid pipe temperature.</b>
<b>Gas Pipe Temperature</b>	<b>Monitors and displays the gas pipe temperature.</b>
<b>EV Position</b>	<b>Monitors and displays the expansion valve position.</b>
<b>Freeze Protection</b>	<b>Monitors if the freeze protection is active (for FXEQ_P, FXFQ_T, FXTQ_TA, FXUQ_P, FXZQ_TA, FXSQ_TA, CXTQ_TA indoor units only).</b>

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- **Indoor unit monitoring and control points (one set of points per indoor unit group):**

Point Name	Point Description
Occupancy Mode	Set the occupancy of the indoor unit Occupied , Unoccupied or Standby
Operation mode	Set Cool - Heat -Fan -Dry operation mode. for the indoor unit and monitors the latest mode
Occ Cooling Setpoint	Sets the occupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
Occ Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
Unocc Cooling Setpoint	Sets the unoccupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
Unocc Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
Max Cooling Setpoint	Sets the maximum cooling setpoint of the indoor unit and monitors the latest setpoint value.
Min Cooling Setpoint	Sets the minimum cooling setpoint of the indoor unit and monitors the latest setpoint value.
Max Heating Setpoint	Sets the maximum Heating setpoint of the indoor unit and monitors the latest setpoint value.
Min Heating Setpoint	Sets the minimum heating setpoint of the indoor unit and monitors the latest setpoint value.
Min Setpoint Differential (Cooling & Heating)	Set the minimum differential value between cooling and heating setpoint and monitor the latest differential value.
Cooling & Heating Setpoint Tracking Mode	Enable or Disable <i>iTM</i> setpoint tracking mode.
Fan speed	Sets the indoor unit fan speed and monitors the latest setting
Timed Override Operation	Enable or Disable <i>iTM</i> override timer
Remote Controller Prohibit (On_Off)	Permits or prohibits the remote controller to control the indoor unit's On/Off.
Remote Controller Prohibit (Operation Mode)	Permits or prohibits the remote controller to control the indoor unit's Operation mode.
Remote Controller Prohibit (Setpoint)	Permits or prohibits the remote controller to control the indoor unit's Setpoint.
Remote Controller Prohibit (Setpoint)	Permits or prohibits the remote controller to control the indoor unit's Setpoint.
Filter Sign Reset	Clears the Filter sign status.
Forced Thermo-off	Force the indoor unit to stop actively cooling or heating.

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## PREMIUM MARKETING NEWS

- **Outdoor unit general monitoring points (one set of points per outdoor unit):**

Point Name	Point Description
Communication Status	Monitors and displays the communication status
Operation Mode	Monitors and displays the operation mode (Cool, Heat, Fan or Heat &Cool)
Outdoor Unit Alarm Status	Monitors whether or not the outdoor unit is operating normally.
Defrost Mode	Monitors if the defrost mode is active.
Oil Return Mode	Monitors whether or not the outdoor unit is in oil return operation.
Electric Power	Monitors and displays the electric power (Calculated).
Electric Current	Monitors and displays the electric current (Calculated).
System Capacity Code	Monitors and displays the system capacity code.
Outdoor Air Temperature	Monitors and displays the outdoor air temperature.

- **Outdoor unit monitoring points for outdoor unit Master module, Sub Module 1 and Sub Module 2 (one set of points per outdoor unit module):**

Point Name	Point Description
Condensing Pressure	Monitors and displays the condensing pressure
Evaporating Pressure	Monitors and displays the evaporating pressure
Condensing Temperature	Monitors and displays the condensing temperature
Evaporating Temperature	Monitors and displays the evaporating temperature
Inverter Compressor 1 Speed	Monitors and displays the speed of the inverter compressor1
Inverter Compressor 2 Speed	Monitors and displays the speed of the inverter compressor2
Fan Step	Monitors and displays the fan step
EV Position 1	Monitors and displays the position of the expansion valve1
EV position 2	Monitors and displays the position of the expansion valve2
Hot Gas Temperature (Compressor 1)	Monitors and displays the hot gas temperature of the compressor1
Hot Gas Temperature (Compressor 2)	Monitors and displays the hot gas temperature of the compressor2
Liquid Pipe Temperature	Monitors and displays the liquid pipe temperature
Liquid Pipe Temperature (HX Upper)	Monitors and displays the liquid pipe temperature for the upper HX
Liquid Pipe Temperature (HX Lower)	Monitors and displays the liquid pipe temperature for the lower HX
Liquid Pipe Temperature (De-Icer)	Monitors and displays the liquid pipe temperature for the de-icer
Gas Pipe Temperature (HX Upper)	Monitors and displays the gas pipe temperature for the upper HX
Gas Pipe Temperature (HX Lower)	Monitors and displays the gas pipe temperature for the lower HX

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## PREMIUM MARKETING NEWS

Suction Temperature	Monitors and displays the suction temperature
Compressor Suction Temperature	Monitors and displays the compressor's suction temperature
Subcool Inlet Temperature	Monitors and displays the subcool inlet temperature
Subcool Outlet temperature	Monitors and displays the subcool outlet temperature
Subcool EV Position	Monitors and displays the subcool expansion valve position

The following documents and tools will be available on DaikinCity:

### **Key Release Date and Information**

ITEM	AVAILABLE/UPDATE DATE
Guide Specs (Updated)	Jan 28 <sup>th</sup> , 2019
Submittal (Updated)	Jan 28 <sup>th</sup> , 2019
<i>iTM</i> User Manual (Updated)	Jan 28 <sup>th</sup> , 2019
<i>iTM</i> BACnet Server Product Flyer (Updated)	Jan 28 <sup>th</sup> , 2019
<i>iTM</i> Brochure (Updated)	Jan 28 <sup>th</sup> , 2019
<i>iTM</i> BACnet Server Design Guide (Updated)	Jan 28, 2019
<i>iTM</i> BACnet Client Macro Tools (Updated)	Jan 28 <sup>th</sup> , 2019
<i>iTM</i> Operation Data Analysis Macro Tool (New)	Jan 28 <sup>th</sup> , 2019
Sales Presentation (New)	Available through Daikin City
Webinar (New)	Available through Daikin University

The shipment of the *iTM* with the new software installed from the factory will start from April 2019.

Contact the VRV Controls Product Marketing Group [VRVControlsMarketingGroup@daikincomfort.com](mailto:VRVControlsMarketingGroup@daikincomfort.com) for questions.

Contact Daikin Tech Support [TechSupport@daikincomfort.com](mailto:TechSupport@daikincomfort.com) for the *iTM* Version up and Preset Tool software.

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