

Carrier® Infinity® Touch Control Version 14 Release Notes

March 23, 2017, rev 20171115

General



This document is provided in conjunction with the “hex” file INFI1401.hex, which comprises the executable code for the Infinity Touch wall control model numbers SYSTXCCITN01, SYSTXCCITN01-A, SYSTXCCITC01-A, SYSTXCCITW01, and SYSTXCCITW01-A. This software is ONLY compatible with these model wall controls.

Refer to the document, Infinity Touch Control Field Software Updates, for detailed instructions on uploading this software into the Infinity Touch wall control.

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Revision History

Version 14 (March 2017)

New Features

- Optional Simultaneous Heat/Cool Demand (SHCD) Mode
 - **Default:** Disabled (available only for zoning systems)
 - Allows zoning systems to satisfy concurrent calls for heating and cooling in different zones within the same 60 minute period.
 - Allows for better comfort in all zones.
 - May lead to higher system energy usage, especially for zoning systems with unrestricted airflow between zones, or with few return air registers.
 - Added display of SHCD pending + prep to temp control status screen
- Energy Tracking for Infinity® System Geothermal Heat Pump Systems
 - **Default:** Enabled (available only when EWT is present)
 - Enables the collection of Energy Tracking data for Infinity® System geothermal heat pump systems.
 - Requires an Entering Water Temperature (EWT) sensor to be installed on the incoming loop water fitting of the geothermal heat pump, and connected to the OPT connection of the geothermal heat pump compressor control board.
 - Requires the installer to enter the loop pump power and loop flow rate in the Setup menus.

Enhancements

- Updated Wi-Fi® Status Bars on HOME Screen
 - Indication of no connection to MyInfinity server is now a more typical symbol for connected devices (triangle with exclamation point over the signal strength bars).
 - Removed previously used Red Bars for server connection status.
- Enhanced Keyboard

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- More special characters available for complex Wi-Fi® network passwords.
- System Operation with Infinity® 18/19VS™ Outdoor Units
 - Updated airflow adjustments to help systems with noisy ductwork.
- Amazon SmartHome™ Skill Support (Alexa™ / Echo™ systems)
 - Remote updates to wall control and system settings now allowed when screens other than the HOME screen are active on the wall control.
 - Hold Until times are now set for the start of the next Activity (Comfort Profile) period.
 - Version 14 does NOT need to be installed for an Infinity® System Control to be compatible with Amazon Alexa.
- High Heat/Cool Latch Options
 - Added ALWAYS option to settings.
- Pressure-based Filter Reminders
 - Updated to reduce/eliminate premature Clean Filter alerts
- Enhanced Remote Settings and Service Access

The following data are now available in the ING_REST_API database, but may not be available at this time on the various dealer portals. Watch for announcement of dealer portal enhancements to support the display of these data elements.

 - Airflow verification test data
 - Infinity® 18/19VS™ outdoor unit available stages
 - Damper position of each zone
 - Pending heat/cool mode for the SHCD option now shown on conditioning status screens
- Server Response Time Enhancements
 - Randomized timers for daily data updates from wall control to server to relieve daily spikes in server activity.
 - Relieved “reconnect tsunami” caused by intermittent connection issues with local ISPs, and server maintenance interruptions.
 - Relieved the Over-the-Air (OTA) software update “download tsunami.”

Bug Fixes

- Corrected several spelling errors on setup screens.
- Corrected electric heat options for fan coils with no electric heat.
- Corrected automatic daylight savings time clock adjustments.
- Corrected condition where display screen would freeze.
- Corrected condition that caused bad weather updates after postal codes were corrected.
- Corrected behavior of gas furnace fan settings when ECM blower motor entered “cutback” condition.
- Updated handling of backlight settings, and temperature compensation due to backlight levels.
- Corrected temperature conversion errors in wall control.
 - NOTE: Certain Celsius setpoints, such as 22.5C and 23C, convert to identical Fahrenheit values. In these cases, setpoints such as 22.5C are converted to 23C, etc.
- Corrected condition where URGENT notifications would not be sent to the server when mobile apps were active.

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- Window Protect settings are now not allowed when a humidifier is not installed in the system.
- Corrected issue where temperature units (°F) were not shown for temperature sensor offset settings.
- Adjusted fan delays and mode changes to account better for HP defrost conditions with gas furnaces used as supplemental heat. Corrects the issue of the furnace and heat pump both operating **briefly** in heat mode at the same time.
- Corrected issue where wall controls spontaneously send “old” configurations to the server, over-writing changes from mobile apps.
- Updated blower-on delay for geothermal package units.

Version 13 (September 2015)

- Added support for Infinity® System Geothermal Split Heat Pumps
 - o Supports all Infinity System functionality, except
 - o Does NOT support Energy Tracking
- Updated startup routines to minimize faults during software updates.
- Updated the display of the letter “i” for better resolution.
- Fixed Utility Curtailment operation for 19VS Air Conditioner systems.
- Fixed window protect functionality.
- Add “Super A” models to list of evaporator coils for system configurations.
- Gray out humidity and fresh air profiles menu item when no humidifier, ventilator nor outdoor unit are installed.
- Fixed intermittent issue where equipment operating status was incorrectly displaying “heat” function in Fan-Only or Off modes.

Version 12 (February 2015)

- Expanded CFM and Static Pressure Control
 - o Works with new indoor unit blower systems
(Watch indoor unit Product Bulletins for details)
 - o New Airflow Verification screens
- Expanded Infinity® Greenspeed® heat pump charging capabilities
- More indoor coils added to the system configuration
- Added 13kBTUH size for Infinity 18VS™ systems
- Updates to several Service and Installation screens

Version 11 (April 2014)

- Added support for Infinity® 18VS™ Heat Pump and Infinity® 19VS™ Air Conditioner
 - o Version 11 is required to operate the 18VS/19VS outdoor units with a communicating Infinity System

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- Added the ability to modify the heat source remotely
 - o System Controlled heat source selection
 - o Gas Furnace, only
 - o Heat Pump, only
 - NOTE: This setting will be automatically overridden for extreme outdoor conditions, or if the heat pump alone cannot keep the indoor temperature above 45F.
- Support for California Title 24 requirements as an Occupant Controlled Smart Thermostat (OCST; Wi-Fi models, only)
 - o Supports Utility Events
 - o Consumer choice of accepting HVAC responses to Utility Events, or not
- Humidity and fresh air profile added to the vacation profile
- Window protect expanded to all programmable comfort profiles
- Larger range of humidity settings now available for away and vacation profiles
- Backlight levels now programmable by comfort profile setting
 - o "OFF" capability added to backlight level options
- Added capability to set time zone and synchronize time with the server (Wi-Fi models, only)
- Celsius temperatures display and set points now supported in 1/2 degree increments
- Updated continuous fan speed settings from "OFF" to "AUTO" to match Smart Sensor
- Added touch screen calibration capability
- Added custom text for G terminal alert
- Improved help screens
- Improved Wi-Fi connectivity to the server for –A Wi-Fi models
- Expanded Dealer Portal through HVACPartner.com website (Wi-Fi models, only)

Version 10 (November 2013)

- Over-the-Air (OTA) software updates are enabled
 - o After Version 10 is installed in the wall control,
 - Future software downloads will occur automatically in the background
 - Once the complete software package is downloaded, the user will be notified and given the option to install the new software
- Software update screens moved to User area (Service button)
 - o UI must have Version 10 for Homeowner update capability
- "G" Terminal alert function added for Furnace and Fan Coils
 - o Turn on fan and system shutdown features remain
 - o When Alert is selected, a generic "Alert" notification email is sent to the emails selected by the owner for Urgent notifications

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- Wi-Fi® signal strength indicator displayed on the Home Screen for “-A” Wi-Fi Models Only
- High Cool Latch and High Heat Latch set-up added to the Dealer Installation section
 - o Outdoor temperature must be available to wall control for this feature to operate
 - o Installer can enable:
 - High heat, only, below a selectable outdoor temperature
 - High cool, only, above a selectable outdoor temperature
- Temperature Unit (°F or °C) set-up has been moved to the consumer Display sections
- NOTE: Version 10 Software is backwards compatible with Infinity Touch controls since initial launch (September 2012)