



Technical Paper

Overview - Danfoss Icon2™ App and Firmware versions

Danfoss Icon2™ App software

App versions:			
Release	Versions	Date	Improvements
1.0	1.1.1		• Application 7,10,17 and 20 actuators used for changeover are not shown as available for rooms
	1.1.2		• Bug fixes and performance improvements
	1.1.3		• Fixes an issue with the wrong conversion factor of Zigbee signal in the network test
	1.1.4		• Fixes a bug in some translations and links to Privacy Policy • Adds updated functionality in Demo mode
	1.1.5		• Implement Czech language; • Privacy Policy in polish fixed ; • Added Uninstall Repeater functionality
	1.1.6		• Fixed uninstall repeater functionality if there is more then one repeater
	1.1.7		• Updated Privacy Policy URL • Added new image for Wired RT in Configure Room screen • Fixed app does not reconnect to MC after OTA, pairing alert is shown constantly now
	1.1.8		• Bug fixes
	1.1.9		• Serial number and HP optimizer status added to handover report. • Updated handling of Danfoss Identity Profile logon • Temperature setpoint refresh for room overview • Minor updates to graphical layout Minor bugfixes and improvements • Update for demo mode
	1.1.10		• Minor UI related updates • Stability improvements • Improved QR scanner
1.2	1.2.0		• QR code scanner optimization • Support for 3rd party repeaters • Join repeaters and RTs without QR code
	1.2.1		• Added Spanish language support
1.3	1.3.0		• Multi controller system support • Installation steps optimisation • Network test improvements
	1.3.1		• Improvement to flow of adding RTs, if installer leaves Main MC and bluetooth connection is lost, and he returns within range, then connection will auto-connect • Improvement to commissioning of a new building, clearer discription of difference between Single vs Multi MC • Network test improvement • Improvements to MMC configuration • Technical drawings with legends
	1.3.3		Change to the format of the installation report which is stored locally on the Main Controller. • Bug fix to the network test related to when the installation uses multiple ZigBee repeaters • Various other smaller improvement Android specifically: Bug fix related to when the user wants to connect a ZigBee Repeater to the Main Controller.

App versions:			
	1.3.4	2025-06-23	<ul style="list-style-type: none"> Improvements to the network test <ul style="list-style-type: none"> A progress bar informs about the test status for each device Possibility to retest a single device, by pressing it when result icon is visible When all results are green, a new summary page is shown with the overall test result Test result icons have been updated Explanation of the Main Controllers Blinking Patterns is now available from the main app page under the (i) button Included a warning of the importance for specific firmware updates Included reminder not to restart the main controller during firmware updates Included new animations to better explain user actions and behaviour of the main controller Bugfix to avoid situations where a room thermostat is not connected to an output/room Bugfixes in general
	1.3.5	2025-07-03	<ul style="list-style-type: none"> Included animations to the firmware update flow; <ul style="list-style-type: none"> Transfer of update file Installation of the new firmware Controller is restarting Activate Bluetooth if controller did not do it after firmware update During Multi MC firmware update, recommend to factory reset controller after the update When user opens Icon2 App, it will check automatically if there is a new app version available and if so recommend updating. Various bug fixes
	1.3.6	2025-08-06	<ul style="list-style-type: none"> Stability improvements New visual presentation of blinking patterns Updated technical drawings for the applications If user has problem adoption secondary MCs, app will suggest “common issues” When network test results where not all green, app will after 2nd test suggest adding ZigBee repeater Bugfix related to network test result Visual improvements to menu bar, related to Android 15 (Internal note only!) When a Danfoss employee is logged into the app, it will be possible to see network test results in % also for Repeaters and Secondary Controllers
	1.3.6	2025-08-06	<ul style="list-style-type: none"> Latest available public Main controller firmware will be included in the app New visual presentation of blinking patterns Updated technical drawings for the applications If user has problem adoption secondary MCs, app will suggest “common issues” When network test results where not all green, app will after 2nd test suggest adding ZigBee repeater On the room overview page, display also secondary MCs under the Repeater section, as they are in fact acting also as repeaters (Internal note only!) When a Danfoss employee is logged into the app, it will be possible to see network test results in % also for Repeaters and Secondary Controllers
iOS	1.3.7	2025-08-14	<ul style="list-style-type: none"> Bugfix related to memory cleanup, prior to firmware update of the main controller
Android	1.3.7	2025-08-27	<ul style="list-style-type: none"> Latest available public Main controller firmware will be included in the app, when the app is opened for the first time Before firmware update, the App will validate if the MC has enough free memory. If not, it will offer to perform a memory cleanup On the room overview page, Secondary MCs will be displayed also under the Repeater section, as they are in fact acting also as repeaters Bugfix related to Android 15 and specific phone models Various other bugfixes
iOS + Android	1.3.8	2025-08-17	<ul style="list-style-type: none"> Feature to support recall of Icon2 MCs with ‘Missing Key’ issue, will inform installer to replace the MC An animation is added to the app during the cleanup of memory, before firmware update The Main Controller will now be set to “Install mode” during firmware update, to ensure the process goes as smoothly as possible Secondary MCs, who are now shown also as Repeaters will have a label in front of their name, to make it clear to the user that it is a secondary mc Various bugfixes

Technical Paper
Overview - Danfoss Icon2 App and Firmware versions

Android	1.3.9	2025-11-10	<ul style="list-style-type: none"> • Feature to include support for Android 16 • Feature to improve the user journey when you want to add Secondary MCs from the Room Overview page on existing installation • Feature to inform the user that his Bluetooth connection is lost after 30 seconds, and recommend him to re-activate Bluetooth on the MC • Feature to include an animation when log files are being cleaned up • Re-organize the main MC page into two columns, to give a better overview • Update the blinking pattern sheet included in the app • Various stability improvements
Firmware versions:			
Release	Versions	Date	Improvements
1.14	1.14		<ul style="list-style-type: none"> • Danfoss Icon2 release
1.22	1.22 (0.2.6)	20/09/2023	<p>Danfoss Icon2 Main Controller (MC)</p> <ul style="list-style-type: none"> • Added support for naming the Danfos ZigBee repeater <p>Danfoss Icon2 Room Thermostat (RT)</p> <ul style="list-style-type: none"> • Icon 2 RT will display 'Net Err' if a repeater is connected to the system and Icon 2 MC is offline. • The default state for Icon 2 RT cooling enabled is set to ON. Before the change, the default state was OFF.
1.38	1.38 (0.2.6)	11/07/2024	<p>Danfoss Icon2 Main Controller (MC)</p> <ul style="list-style-type: none"> • Fixed issue with wrong error codes being sent to Ally (fix in Ally still pending) • Improved pairing range on ZigBee • Improved stability detection of TWA. • Improved handling of power loss to ensure proper storing of system settings. • Fixed issue with unwanted offset when using mixing shunt forward line temperature control • Fixed issues where RTS's would have a hard time joining the MC (Master Controller) during pairing. <p>Danfoss Icon2 Room Thermostat (RT)</p> <ul style="list-style-type: none"> • Improved RTZ user experience – more responsive user interface with less “busy” moments • Improved RTZ Temperature measurement – more consistency • Fixed Battery drain issue when updating the RTZ firmware. (fixed after update) • Fixed issue where RT24V would not join MC
1.46	1.46 (0.2.8)	13/11/2024	<p>Danfoss Icon2 Main Controller (MC)</p> <ul style="list-style-type: none"> • Long Join Feature to allow MMC UX flow • Improved Stability (fixed re-starts that were not so visible to the user, but happened anyway) • Improved logging for easier support in case of crash • Fixed issue where the RT24V could change room name at Join • Workaround for issue where the network lose its NW ID when a conflict is detected by a repeater • Temperature reporting at rejoin (preventing Ally to show units offline when they are not) • Improved stability of temperature reporting in MMC Systems
1.50	1.50 (0.2.10)	04/12/2024	<p>Danfoss Icon2 Main Controller (MC)</p> <ul style="list-style-type: none"> • Fix to avoid that an Secondary MC in a MMC system could enter Idle mode when changing from installation to run mode • Fix of the device ping, which makes that the RT and the MC output blinks at the same time during a ping test <p>Danfoss Icon2 Room Thermostat (RT)</p> <ul style="list-style-type: none"> • Fix to avoid that the RT reported a wrong setpoint when the panel was activated by a user, which in some cases was sent to Ally instead of the right one (sent few seconds after but maybe lost or coming earlier than the wrong one) • The wired RT 24V can now set Child lock locally (the feature was not enabled before)
1.60	1.60(0.2.12)	22/04/2025	<p>Danfoss Icon2 Main Controller (MC)</p> <ul style="list-style-type: none"> • Fix to solve a challenge with firmware update of Danfoss ZigBee Repeaters connected to the main controller, to version 1.17. • Various other bugfixes.

1.70	1.70	2025/08/11	<ul style="list-style-type: none"> • Improvements related to cyber security • Stability improvement to prevent unresponsive Icon2™ Main Controller • Stability improvements to Icon2™ ZigBee network • Bugfix to avoid situations where Icon2™ Main Controller would cool down the home during Away mode • Bugfix to the PWM+ heating logic • New blinking patterns:
	0.3.1		<p><u>LED1 Black (off) & LED2 blinking Red for 3 sec "Action not allowed"</u></p> <p>New possible causes:</p> <ul style="list-style-type: none"> • TMain Controller cannot try to join Ally Gateway before room thermostats are connected to MC. • Main Controller is configured as Single MC, cannot be added as Secondary MC in Multi MC. It should instead be factory reset first. Controller is restarting <p><u>LED1 Black (off) & LED2 blinking White</u></p> <ul style="list-style-type: none"> • Update of the core software layer. IMPORTANT; MC should not be restarted now!
Icon2™ App	1.80	2025-11-14	<ul style="list-style-type: none"> • Feature to allow read/write of the RT names via ZigBee interface • Feature to prevent Primary MC from offering firmware updates to sub-devices, while it is receiving itself a firmware update • Improvement which allows MCs to be firmware updated, via Icon2™ App before becoming part of Multi MC system
Ally™ Gateway	0.3.6		
Production	1.80	2025-11-24	<ul style="list-style-type: none"> • Bugfix to allow Secondary MCs which are part of Multi MC system to report Cooling arrows correctly to Ally™ App • Bugfix to allow sub-devices to be adopted into Icon2-network using Repeaters

Danfoss A/S

Climate Solutions • danfoss.com • +45 7488 2222

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product.
All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.