

Version	Release Notes
2.6.3-7-ce28341bb 15-Nov-2024	<p>Changes:</p> <ul style="list-style-type: none"> Adjust IPS LCD driver to avoid occasional vertical image shifting <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 32 Wi-Fi VCM8002: 1.4.1
2.6.2-0-57406e428 3-Feb-2023	<p>Changes:</p> <ul style="list-style-type: none"> Improve reliability of transmission of BACnet/IP i-am broadcast upon WiFi reconnection. <p>Known Issues:</p> <ul style="list-style-type: none"> Issues only effecting SE8000s using Lua scripts: <ul style="list-style-type: none"> Two issues exist in Lua which may result in product restart: CVE-2020-15888, CVE-2022-28805. Issues occur only when Lua scripts are used, with some specific code (Refer to the CVEs for detail)) If the issue occurs, the product will restart when the Lua code executes. To recover the device, use the RC8000 Uploader tool to load an empty Lua script. Workarounds: <ul style="list-style-type: none"> Do not use `_ENV <const>` in Lua scripts Minimize script complexity, particularly complicated nested function calls and usage of large strings <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 32 Wi-Fi VCM8002: 1.4.1
2.6.1-0-548c27946 3-Feb-2023	<p>Changes:</p> <ul style="list-style-type: none"> Improve startup sequence to remove rare cases where alternative touch screen controller failed to startup correctly <p>Known Issues:</p> <ul style="list-style-type: none"> Issues only effecting SE8000s using Lua scripts: <ul style="list-style-type: none"> Two issues exist in Lua which may result in product restart: CVE-2020-15888, CVE-2022-28805. Issues occur only when Lua scripts are used, with some specific code (Refer to the CVEs for detail)) If the issue occurs, the product will restart when the Lua code executes. To recover the device, use the RC8000 Uploader tool to load an empty Lua script. Workarounds: <ul style="list-style-type: none"> Do not use `_ENV <const>` in Lua scripts

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<p>2.6.0-17-7591a28c8</p> <p>25-May-2022</p>	<p>New features:</p> <ul style="list-style-type: none"> Support IPS LCD screen <ul style="list-style-type: none"> RC8000 devices with the new LCD screen will support firmware version 2.6 and newer only. Downgrade is not possible. Support joining ZigBee networks in “high security mode” <ul style="list-style-type: none"> RC8000 will show Install Code on page “3/3 ZigBee Network” page in text and ZigBee standard QR formats. Code can be entered or scanned when adding devices to high security networks created by EBO servers. 8650: Support “Mixed Air Temperature” (MAT) input on UI20 <ul style="list-style-type: none"> “UI20 config” added to Configuration page 1 to select between RS and MAT <p>Changes:</p> <ul style="list-style-type: none"> Support alternative touch screen controller <p>Known Issues:</p> <ul style="list-style-type: none"> Issues only effecting SE8000s using Lua scripts: <ul style="list-style-type: none"> Two issues exist in Lua which may result in product restart: CVE-2020-1588, CVE-2022-28805. Issues occur only when Lua scripts are used, with some specific code (Refer to the CVEs for detail)) If the issue occurs, the product will restart when the Lua code executes. To recover the device, use the RC8000 Uploader tool to load an empty Lua script. Workarounds: <ul style="list-style-type: none"> Do not use ` _ENV <const> ` in Lua scripts Minimize script complexity, particularly complicated nested function calls and usage of large strings <p>WARNING: Latest versions of the Room Controller use a new touchscreen controller:</p> <ul style="list-style-type: none"> Firmware 2.6 and newer: Works on both old and new hardware Firmware 2.5 and older: Does not work with old hardware. The touchscreen will not function. <p>If you experience an unresponsive touchscreen on the Room Controller, please upgrade to version 2.6 or newer.</p>

	<p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 32 Wi-Fi VCM8002: 1.4
<p>2.5.1-0-02f76ce3e</p> <p>24-Sep-2021</p>	<p>New features:</p> <ul style="list-style-type: none"> Support configuration of Wi-Fi VCM8002 via RC8000 USB port Add “USB access” configuration option to enable/disable USB port of RC8000. This can be used to prevent unauthorized loading of firmware, scripts and standby images. <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 31 Wi-Fi VCM8002: 1.4
<p>2.5.0-21-32dd739a</p> <p>20-Apr-2021</p>	<p>New features:</p> <ul style="list-style-type: none"> Support LUA script read and write over BACnet as a file object: <ul style="list-style-type: none"> Full size LUA script (as via USB) now supported via BACnet Program objects 2-10 removed WARNING: LUA scripts loaded before upgrade via Program 1-10 description fields are no longer supported. The script will need to be re-loaded via file transfer after upgrade. <p>Improvements:</p> <ul style="list-style-type: none"> Accuracy of setpoints applied in centigrade improved Fix rounding error in LUA when calculating some negative values Fix issue with LUA 3 of 4 screen not exiting on timeout <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 31 Wi-Fi VCM8002: 1.3
<p>2.4.3-0-0ffa8e844</p> <p>5-Nov-2020</p>	<p>Bug Fixes:</p> <ul style="list-style-type: none"> R8350: Correct issue with Changeover and Supply temperature reading from relay pack. <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 30 Wi-Fi VCM8002: 1.2
<p>2.4.2-2-8967b251f</p> <p>24-Aug-2020</p>	<p>Bug Fixes:</p> <ul style="list-style-type: none"> Improve rounding in LUA mathematical calculations <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM8000: 30 Wi-Fi VCM8002: 1.2
<p>2.4.1-5-a284dedc5</p>	<p>New Features:</p> <ul style="list-style-type: none"> Display options added to allow hiding of:

10-Jun-2020	<ul style="list-style-type: none"> ○ System Status Icon ○ Fan Status Icon ○ Help Button <p>Bug Fixes:</p> <ul style="list-style-type: none"> ● Backlight flashes dark each minute on LUA configuration pages <p>Compatible with:</p> <ul style="list-style-type: none"> ● Room Controller Uploader: 3.1.0 and newer ● ZigBee VCM8000: 30 <ul style="list-style-type: none"> ○ WARNING: Not backwards compatible with previous ZigBee VCMs ● Wi-Fi VCM8002: 1.2
2.4.0-135-30526e5d9 20-May-2020	<p>New Features:</p> <ul style="list-style-type: none"> ● Disable Dehumidification by default <ul style="list-style-type: none"> ○ WARNING: If Dehumidification Lockout was left at default, it will change from Enabled to Disabled after upgrade. If Dehumidification is enabled, please check this value after upgrading. ● Occupancy: Support "Schedule AND Motion" and "Schedule OR Motion" occupancy modes ● Add points to allow use of all Universal Inputs as Thermistor, Binary or Voltage from LUA ● Add selectable CO2 source ● Use wireless door/window sensor without requiring UI16/17 to be set as door/window ● Display Time source on clock configuration pages ● Populate standby setpoint values when in relative mode ● With ZigBee VCM 30: <ul style="list-style-type: none"> ○ Support ZigBee 3.0 ○ Support Low (legacy) and Normal security levels ○ Support 20 ZigBee sensors ○ WARNING: After upgrading from VCM 20-24, Green Power sensor (SED-CO2-G-5045 or SED-TRH-G-5045) will need to be recommissioned ● With Wi-Fi VCM 1.1: <ul style="list-style-type: none"> ○ RC8650: Support Facility Expert integration ○ Support reception of time via NTP <p>Changes:</p> <ul style="list-style-type: none"> ● BACnet: Minor point changes needed to support 20 sensors: <ul style="list-style-type: none"> ○ MSI.309 changes from Wireless Green Power Communication Status to Effective Temperature Sensor ○ MSI.310 changes from Wireless Green Power Battery to Wireless Zone 11 Status ○ MSI.311 changes from Wireless Green Power - Remove to Wireless Device 11 - Battery ○ MSI.312 changes from Effective Temperature Sensor to Wireless Zone 11 Communication Status <p>Bug Fixes:</p>

	<ul style="list-style-type: none"> • Modbus reads failed on 2.3.x (COREGAM-3273) • RC8650: Fan was continuously on when unoccupied in Smart Mode (COREGAM-3241) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 3.1.0 and newer • ZigBee VCM: 30 <ul style="list-style-type: none"> ◦ WARNING: Not backwards compatible with previous ZigBee VCMs • Wi-Fi VCM: 1.1 																						
2.3.1-0-80edaf58c 4-Sep-2019	<p>Limited release via Technical Support only!</p> <p>Contains a work around for Wi-Fi Module network loss (WCM-1444), where RC8000 monitors the Wi-Fi Network Status and resets the Wi-Fi Module if it was online, then goes offline continuously for one hour.</p>																						
2.3.0-177-3ef29bf83 22-Jul-2019	<p>New features:</p> <ul style="list-style-type: none"> • Support Z8250 VAV Room Controller • Add adjustable time to standby image and long message display (COREGAM-2975) • Improve detection and handling of faults on inputs <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 3.1.0 and newer • ZigBee VCM: 24 • Hardware: (See "BD" number on sticker on back of thermostat) <table border="1"> <thead> <tr> <th>Model</th><th>BD number</th></tr> </thead> <tbody> <tr> <td>8350U0B</td><td>026-0473</td></tr> <tr> <td>8350U5B(PIR)</td><td>026-0472</td></tr> <tr> <td>8350U5BP(PIR,ZB)</td><td>026-0453</td></tr> <tr> <td>8650U0B</td><td>026-0471</td></tr> <tr> <td>8650U5B(PIR)</td><td>026-0470</td></tr> <tr> <td>8650U5BP(PIR,ZB)</td><td>026-0454</td></tr> <tr> <td>R8350A0B</td><td>026-0475</td></tr> <tr> <td>R8350A5B(PIR)</td><td>026-0474</td></tr> <tr> <td>R8350A5BP(PIR,ZB)</td><td>026-0452</td></tr> <tr> <td>Z8250</td><td>All references</td></tr> </tbody> </table>	Model	BD number	8350U0B	026-0473	8350U5B(PIR)	026-0472	8350U5BP(PIR,ZB)	026-0453	8650U0B	026-0471	8650U5B(PIR)	026-0470	8650U5BP(PIR,ZB)	026-0454	R8350A0B	026-0475	R8350A5B(PIR)	026-0474	R8350A5BP(PIR,ZB)	026-0452	Z8250	All references
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2.2.0-113-41f47fa0 01-Apr-2019	<p>New Features:</p> <ul style="list-style-type: none"> • Support VCM8002V5031 Wi-Fi Module • Support Effective Mode (MSI.314) and Setpoint (AI.329) via Service View and BACnet • Display ZigBee VCM IEEE Address in Network screen • Update BACnet BTL certification, various small changes • Add BACnet Poll Rate to Network screen <p>Fixes:</p> <ul style="list-style-type: none"> • Fixed an issue where some BACnet instance numbers could not be set via the network screens (COREGAM-2782) • Extend BACnet maximum COV lifetime from 8 to 24 hours (COREGAM-2912) 																						

	<ul style="list-style-type: none"> 8650: Fix issue where W1 was not disabled if Outdoor Temperature was greater than the High Balance Point (COREGAM-2907) Fix issue where graphics file was occasionally corrupted during upload (COREGAM-2839) R8350: Fix issue where Pulsed Heat output did not follow Occupied state when configured as "Occ out" (COREGAM-2780) <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM: 23 Hardware: (See "BD" number on sticker on back of thermostat) <table> <tr> <th>Model</th><th>BD number</th></tr> <tr> <td>8350U0B</td><td>026-0473</td></tr> <tr> <td>8350U5B(PIR)</td><td>026-0472</td></tr> <tr> <td>8350U5BP(PIR,ZB)</td><td>026-0453</td></tr> <tr> <td>8650U0B</td><td>026-0471</td></tr> <tr> <td>8650U5B(PIR)</td><td>026-0470</td></tr> <tr> <td>8650U5BP(PIR,ZB)</td><td>026-0454</td></tr> <tr> <td>R8350A0B</td><td>026-0475</td></tr> <tr> <td>R8350A5B(PIR)</td><td>026-0474</td></tr> <tr> <td>R8350A5BP(PIR,ZB)</td><td>026-0452</td></tr> </table>	Model	BD number	8350U0B	026-0473	8350U5B(PIR)	026-0472	8350U5BP(PIR,ZB)	026-0453	8650U0B	026-0471	8650U5B(PIR)	026-0470	8650U5BP(PIR,ZB)	026-0454	R8350A0B	026-0475	R8350A5B(PIR)	026-0474	R8350A5BP(PIR,ZB)	026-0452
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<p>2.1.1-22-9976868</p> <p>20-Sep-2018</p>	<p>New Features:</p> <ul style="list-style-type: none"> Support ECM Fan Motors on 8350 and R8350 models (COREGAM-2434) Support Japanese language (COREGAM-2609) Support Hebrew language (COREGAM-2624) <p>Fixes:</p> <ul style="list-style-type: none"> Fix issue where changes to BACnet COV increments were not accepted on some AO and AV points if a COV configuration previously existed (COREGAM-2640) Restore LUA points UI19-24 (AV202-206) previously removed in 2.0.0 <p>Compatible with:</p> <ul style="list-style-type: none"> Room Controller Uploader: 3.1.0 and newer ZigBee VCM: 22 Hardware: (See "BD" number on sticker on back of thermostat) <table> <tr> <th>Model</th><th>BD number</th></tr> <tr> <td>8350U0B</td><td>026-0473</td></tr> <tr> <td>8350U5B(PIR)</td><td>026-0472</td></tr> <tr> <td>8350U5BP(PIR,ZB)</td><td>026-0453</td></tr> <tr> <td>8650U0B</td><td>026-0471</td></tr> <tr> <td>8650U5B(PIR)</td><td>026-0470</td></tr> <tr> <td>8650U5BP(PIR,ZB)</td><td>026-0454</td></tr> <tr> <td>R8350A0B</td><td>026-0475</td></tr> <tr> <td>R8350A5B(PIR)</td><td>026-0474</td></tr> <tr> <td>R8350A5BP(PIR,ZB)</td><td>026-0452</td></tr> </table>	Model	BD number	8350U0B	026-0473	8350U5B(PIR)	026-0472	8350U5BP(PIR,ZB)	026-0453	8650U0B	026-0471	8650U5B(PIR)	026-0470	8650U5BP(PIR,ZB)	026-0454	R8350A0B	026-0475	R8350A5B(PIR)	026-0474	R8350A5BP(PIR,ZB)	026-0452
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2.0.1-2-819368b	New Features:																				

<p>15-Aug-2018</p>	<ul style="list-style-type: none"> • Support backup and restore of RC8000 thermostat configuration. Requires Room Controller Uploader 3.1.0 or newer (GAMMATOOL-193) • Compensate Relative Humidity values from internal sensor to improve accuracy across temperature range (COREGAM-2625) <p>Fixes:</p> <ul style="list-style-type: none"> • Fix issue in 2.0.0 firmware with local temperature measurement, where room temperatures below 68f/20c could read up to 6f/3c high then suddenly revert to the true value (COREGAM-2605) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: <ul style="list-style-type: none"> ○ 3.0.0 or newer ○ 3.1.0 required for Configuration Backup/Restore • ZigBee VCM: 20 • Hardware: (See "BD" number on sticker on back of thermostat) <table border="1"> <thead> <tr> <th>Model</th><th>BD number</th></tr> </thead> <tbody> <tr><td>8350U0B</td><td>026-0473</td></tr> <tr><td>8350U5B(PIR)</td><td>026-0472</td></tr> <tr><td>8350U5BP(PIR,ZB)</td><td>026-0453</td></tr> <tr><td>8650U0B</td><td>026-0471</td></tr> <tr><td>8650U5B(PIR)</td><td>026-0470</td></tr> <tr><td>8650U5BP(PIR,ZB)</td><td>026-0454</td></tr> <tr><td>R8350A0B</td><td>026-0475</td></tr> <tr><td>R8350A5B(PIR)</td><td>026-0474</td></tr> <tr><td>R8350A5BP(PIR,ZB)</td><td>026-0452</td></tr> </tbody> </table>	Model	BD number	8350U0B	026-0473	8350U5B(PIR)	026-0472	8350U5BP(PIR,ZB)	026-0453	8650U0B	026-0471	8650U5B(PIR)	026-0470	8650U5BP(PIR,ZB)	026-0454	R8350A0B	026-0475	R8350A5B(PIR)	026-0474	R8350A5BP(PIR,ZB)	026-0452
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<p>2.0.0-313-a860f13</p> <p>06-Apr-2018</p>	<p>New Features:</p> <ul style="list-style-type: none"> • Increase LUA script memory size to 80kB (COREGAM-1520) • Support upgrade of ZigBee VCM (internal and external) (COREGAM-1638) • Support internal ZigBee VCM (COREGAM-1678) • Add new user interface colors: Red, Pink, Purple, Orange & Black (COREGAM-1932) • Increase number of generic LUA variables from 6 to 12 (COREGAM-2226) <p>Fixes:</p> <ul style="list-style-type: none"> • Improve response time of economizer when room temperature is close to setpoint (COREGAM-2233) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 3.0.0 or newer • ZigBee VCM: 20 • Hardware: (See "BD" number on sticker on back of thermostat) <table border="1"> <thead> <tr> <th>Model</th><th>BD number</th></tr> </thead> <tbody> <tr><td>8350U0B</td><td>026-0473</td></tr> <tr><td>8350U5B(PIR)</td><td>026-0472</td></tr> <tr><td>8350U5BP(PIR,ZB)</td><td>026-0453</td></tr> <tr><td>8650U0B</td><td>026-0471</td></tr> </tbody> </table>	Model	BD number	8350U0B	026-0473	8350U5B(PIR)	026-0472	8350U5BP(PIR,ZB)	026-0453	8650U0B	026-0471										
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1.7.3-01b1 25-May-2018	Fixes: <ul style="list-style-type: none"> Fix issue where configuration values set via Modbus were lost after a power cycle (COREGAM-1750) Compatible with: <ul style="list-style-type: none"> Room Controller Uploader: 2.0.0 or newer ZigBee VCM: 10, 20 	
1.7.2-2b98 5-Apr-2018	Fixes: <ul style="list-style-type: none"> Fix issue where some units would display corrupted graphics (incorrect pixels, graphics shifted up or down) (COREGAM-1995) Improve response time of economizer when room temperature is close to setpoint (COREGAM-2316) Compatible with: <ul style="list-style-type: none"> Room Controller Uploader: 2.0.0 or newer ZigBee VCM: 10, 20 	
1.7.0-1aa5 28-Jul-2017	New Features: <ul style="list-style-type: none"> Support new wireless sensors: (COREGAM-1528) <ul style="list-style-type: none"> SED-CO2-G-5045: CO2, Temperature, Relative Humidity SED-TRH-G-5045: Temperature, Relative Humidity Support Centralite wireless 3-Series Water Sensor 3315 (COREGAM-1650) Support temperature and relative humidity reading from motion sensors: (COREGAM-198) <ul style="list-style-type: none"> SED-WMS-P: Wireless Wall Mounted Sensor (From Revision C) SED-CMS-P: Wireless Ceiling Mounted Sensor (From Revision C) Support Automated Demand Response (ADR) via BACnet (COREGAM-1798) Compatible with: <ul style="list-style-type: none"> Room Controller Uploader: 2.0.0 or newer ZigBee VCM: 10, 20 	