

Version	Release Notes
<p>2.6.2-0-57406e428</p> <p>3-Feb-2023</p>	<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
<p>2.6.1-0-548c27946</p> <p>3-Feb-2023</p>	<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 ▪ 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

<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

	<ul style="list-style-type: none"> • 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>10-Jun-2020</p>	<p>New Features:</p> <ul style="list-style-type: none"> • Display options added to allow hiding of: <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

	<ul style="list-style-type: none"> • ZigBee VCM8000: 30 <ul style="list-style-type: none"> ○ WARNING: Not backwards compatible with previous ZigBee VCMs • Wi-Fi VCM8002: 1.2
<p>2.4.0-135-30526e5d9</p> <p>20-May-2020</p>	<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) ● 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 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>2.1.1-22-9976868 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 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>2.0.1-2-819368b 15-Aug-2018</p>	<p>New Features:</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" data-bbox="505 520 1417 890"> <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" data-bbox="505 1476 1417 1843"> <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>1.7.3-01b1</p>	<p>Fixes:</p>																				

<p>25-May-2018</p>	<ul style="list-style-type: none"> • Fix issue where configuration values set via Modbus were lost after a power cycle (COREGAM-1750) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 2.0.0 or newer • ZigBee VCM: 10, 20
<p>1.7.2-2b98 5-Apr-2018</p>	<p>Fixes:</p> <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) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 2.0.0 or newer • ZigBee VCM: 10, 20
<p>1.7.0-1aa5 28-Jul-2017</p>	<p>New Features:</p> <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) <p>Compatible with:</p> <ul style="list-style-type: none"> • Room Controller Uploader: 2.0.0 or newer • ZigBee VCM: 10, 20