

RELEASE NOTE SUMMARY



Overview

This document provides a compilation of Release Notes that have been published by Industrial Scientific. *Table 1. Document Summary* provides a list of version numbers, release dates, and a brief overview of each Release Notes document. Following Table 1, you will find a copy of the complete version of each document.

Document Summary

Table 1. Release Notes Document Summary

Instrument	Version	Release Date	Summary of Features Added and Issues Addressed
Radius BZ1			
SafeCore™	v3.2	04/18/2019	Bug fixes for the peer alarm indicators and PID sensor
SafeCore™	v3.1	01/28/2019	New and updated settings including CE/RED compliance
SafeCore™	v3.0	09/03/2018	Compatibility with the RGX™ Gateway
SafeCore™	v2.0	12/06/2016	LENS™ Wireless connectivity with the Ventis™ Pro Series; user interface improvements for LENS Wireless features; minor bug fixes
SafeCore™	v1.3	10/04/2016	Process change to update LENS™ Wireless radio script to v1.0.1

SafeCore v3.2 – released April 18th, 2019

Upgrade recommendation

- Critical – All instruments must be upgraded to ensure continued safe operation.
- Recommended – Industrial Scientific recommends you upgrade the instrument firmware to ensure optimal performance.
- Optional – Users may upgrade instruments to take advantage of new features.

Note: DSX-i v7.7 or above is required to read and update SafeCore v3.2 features.

Upgrade Methods

Using a DSXi Docking Station, this firmware upgrade can be completed in approximately 8-10 minutes, or you can contact your local Industrial Scientific Service Center for assistance.

What's new in SafeCore v3.2?

SafeCore v3.2 includes minor enhancements and bug fixes.

Minor enhancements and bug fixes

- **Peer alarm indicators** – Corrected issue where manual adjustment of the peer alarm indicators does not apply to the instrument. (SFCORE-34)
- **PID sensor error** – It was found that if a PID sensor was disabled in the field and then later enabled, the sensor would be in an error state. This has been corrected to allow a PID sensor to be disabled and enabled in the field. (SCRFIRM-70)

SafeCore v3.1 – released January 28th, 2019

Upgrade recommendation

- Critical – All instruments must be upgraded to ensure continued safe operation.
- Recommended – Industrial Scientific recommends you upgrade the instrument firmware to ensure optimal performance.
- Optional – Users may upgrade instruments to take advantage of new features.

Note: DSX-i v7.7 or above is required to read and update SafeCore v3.1 features.

Upgrade Methods

Using a DSXi Docking Station, this firmware upgrade can be completed in approximately 8-10 minutes, or you can contact your local Industrial Scientific Service Center for assistance.

What's new in SafeCore v3.1?

SafeCore v3.1 includes new and updated settings.

- **New options for maintenance indicators** –The dock due option displays a notification when the instrument should be placed on a docking station for calibration, bump testing, or data synchronization (based on the calibration due, bump due, and sync intervals respectively). When enabled, the dock due indicator replaces the bump and calibration due indicators. Radius BZ1

users can now choose to have the dock due indicator trigger based on different alarm conditions as they occur (i.e. Low, High, TWA, and/or STEL). This can help encourage timely reporting of alarm events regardless of the scheduled intervals between bump tests and calibrations. (SCRFIRM-21)

- **New alarm tone** – Four alarm tones are now available for Radius BZ1 – *Sweep, Dual Tone, Single Tone, and the new Chirp tone.*
- **Confidence indicator intervals** – The confidence indicator emits a signal to indicate to users and others nearby that the instrument is powered on. Radius BZ1 users can now choose the interval of time between signals. More frequent confidence indicator signals will have an impact on instrument runtime. (SCRFIRM-14)

Confidence Indicator Setting	Confidence Indicator Interval	Radius BZ1 Run time *
Off	N/A	168 hours
Visual only	90 seconds	167 hours
	30 seconds	165 hours
	15 seconds	162 hours
Audible only	90 seconds	168 hours
	30 seconds	167 hours
	15 seconds	165 hours
Both visual and audible	90 seconds	167 hours
	30 seconds	163 hours
	15 seconds	158 hours

* Run time may vary based on in-field conditions and installed components. Run time estimates are based on an instrument with a standard 4-gas configuration, no pump, and with LENS enabled when operated at room temperature.

- **iNet Now lost indicator** – A new indicator has been added allowing Radius BZ1 users to know when connection to iNet Now has been lost. The indicator can be visual only or audible and visual. (SCRFIRM-17)
- **German compliance start-up message** – For German customers, the Compliance Start-Up Message can now be turned on or off. (SCRFIRM-19)
- **Wireless radio power setting for EU/RED compliance** - SafeCore v3.1 allows the adjustment of the LENS radio power to follow CE/RED compliance. The two new settings for this feature are *World Mode* and *CE/RED Compliant*. The setting can be changed directly from the instrument or using iNet Control. (SCRFIRM-15, SCRFIRM-48)

Minor enhancements and bug fixes

Minor, non-critical bugs were addressed during this firmware update. (SCRFIRM-17, -18, -22, -24, -25, -27, -34, -35, -36, -40, -47, -53, and -60)

SafeCore v3.0 – released September 3rd, 2018

Upgrade recommendation

- ☐ Critical – All instruments must be upgraded to ensure continued safe operation.

- Recommended – Industrial Scientific recommends you upgrade the instrument firmware to ensure optimal performance.
- Optional – Users may upgrade instruments to take advantage of new features.

Note: This firmware upgrade is required to use Radius BZ1 Area Monitors with RGX Gateways.

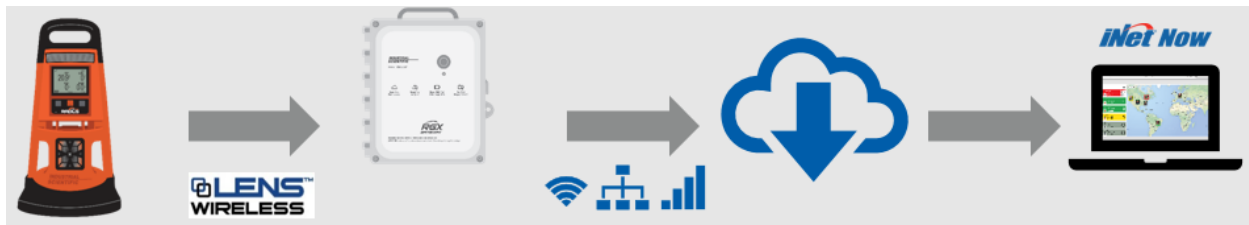
Upgrade Methods

Using a DSXi Docking Station, this firmware upgrade can be completed in approximately 8-10 minutes, or you can contact your local Industrial Scientific Service Center for assistance.

What's new in Safecore v3.0?

RGX Compatibility

The Radius BZ1 is now compatible with the RGX Gateway. The RGX Gateway connects with the Radius BZ1 via LENS, providing real-time access to hazardous exposures, panic, man-down situations, and exact locations via text, email, or on-screen alerts. With the RGX Gateway, customers can now use iNet Now features in hazardous locations without the need of a smart device. (SCR-180, SCR-135, SCR-190, SCRQA-93, ZAP-2008, ZAP-2100, SCRQA-108, SCRQA-112, SCRQA-111, ZAP-2013, ZAP-2012, ZAP-2016, ZAP-2019, SCRFIRM-2, ZAP-2022)



Minor enhancements and bug fixes

- SCR-41, -69, -152, -188
- SCRQA-80, -82, -94, -105, -106, -114, -115
- ZAP-2006, -2009, -2014, -2020, -2024, -2025
- SCRFIRM-7

SafeCore v2.0 – released December 6th, 2016

Upgrade recommendation

- Critical – All instruments must be upgraded to ensure continued safe operation.
- Recommended – Industrial Scientific recommends you upgrade the instrument firmware to ensure optimal performance.
- Optional – Users may upgrade instruments to take advantage of new features.

Upgrade Methods

Using a DSXi Docking Station, this firmware upgrade can be completed in approximately 8-10 minutes, or you can contact your local Industrial Scientific Service Center for assistance.

What is New in SafeCore v2.0?

LENS™ Wireless connectivity with the Ventis™ Pro Series

Originally released with the Radius™ BZ1 Area Monitor, LENS Wireless is an out-of-the-box, self-configuring, peer-to-peer wireless mesh network that does not require time consuming setup or expensive infrastructure. LENS Wireless users can now join Ventis Pro Series personal monitors to Radius BZ1 groups. [SCR-1]

User interface improvements for LENS Wireless features

Minor enhancements to the user interface for LENS Wireless related features, including better icons, home screen alarm cycling, and transferring pump fault alarms. (SCR-79, SCR-80, SCR-81, SCR-82, SCR-83, SCR-119)

Minor bug fixes

Minor, non-critical bugs were addressed during this firmware update. (SCR-88, SCR-97, SCR-117)

SafeCore v1.3 – released October 4th, 2016**Upgrade Recommendation**

- Critical – All instruments must be upgraded to ensure continued safe operation.
- Recommended – Industrial Scientific recommends you upgrade the instrument firmware to ensure optimal performance.
- Optional – Users may upgrade instruments to take advantage of new features.

Upgrade Methods

This firmware upgrade can be completed using a DSXi Docking Station in approximately 8-10 minutes, or contact your local Industrial Scientific Service Center for assistance.

What is New in SafeCore v1.3?

Process change to update LENS™ Wireless radio script to v1.0.1 (SCR-113)

Improved LENS Wireless stability for large numbers of instruments (>10 peers) in the same group.

No functional changes are included with v1.3.