



Measure Life ... Anywhere

Release Notes: OmniSense 1.1

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Table of Contents

1. SCOPE 3
2. DOCUMENT VERSION CONTROL 3
3. REFERENCES 3
4. DEFINITIONS AND ABBREVIATIONS 3
4.1. Abbreviations 3
5. OPERATIONAL REQUIREMENTS 3
5.1. Operating systems supported 3
5.2. PC System requirements 3
5.3. Motorola XTS Requirements 4
6. NEW FEATURES 4
6.1. Team System functionality 4
6.2. Demo mode 4
6.3. Downloader tool 4
6.4. Markers 4
6.5. Preferences Screen 4
6.6. Heart Rate Recovery, HR@VT, Fitness Test 4
6.7. Effort and Exertion Score Activity 4
6.8. Skin Conductance Level (SCL) 5
6.9. Certified Zephyr Driver 5
7. FIXES AND CORRECTIONS 5
8. DROPPED FEATURES 5
9. KNOWN ISSUES, LIMITATIONS AND RESTRICTIONS 5
9.1. Known Issues 5
9.1.1. Installation/ Upgrade 5
9.1.2. OmniSense configuration 6
9.1.3. Windows Related 6
9.1.4. Operational 6
9.2. Limitations 6
9.3. Restrictions 6
10. RELATED DOCUMENTATION OBTAINING DOCUMENTATION 6

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1. Scope

This document provides an overview of the added features and release status for Zephyr OmniSense 1.1 application software. It covers both OmniSense Live and Analysis applications and is applicable to the Zephyr PSM Responder and PSM Training systems.

2. Document Version Control

Version	Description
1.1	First Release

3. References

This document refers to the OmniSense Live version 1.1 and OmniSense Analysis version 1.1 software releases.

4. Definitions and Abbreviations

4.1. Abbreviations

PSM	Physiological Status Monitoring
USB	Universal Serial Port
HR@VT	Heart Rate at Ventricular Threshold
BioGauge	Graphical representation of physiological parameters
SCL	Skin Conductance Level

5. Operational Requirements

5.1. Operating systems supported

Windows XP with Service Pack 3 / Windows Vista / Windows 7.

5.2. PC System requirements

512MB of memory, 100MB free disk space required, at least one USB port or serial port.

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5.3. *Motorola XTS Requirements*

The following feature sets must be installed on the XTS Motorola radios:

- Q947 – Packet Data Interface
- Q387 – Conventional Voting Scan.

6. *New Features*

6.1. *Team System functionality*

The team system functionality is now integrated to OmniSense allowing for a single solution software package.

6.2. *Demo mode*

Demo mode allows life-like data to run on OmniSense without real hardware which creates an ideal training tool to familiarise new users with the system. The demo mode runs in both OmniSense Life and Analysis packages.

6.3. *Downloader tool*

An easy to use and straight forward tool enabling post activity downloading of data stored on the BioHarness into the analysis tool.

6.4. *Markers*

The user now has 10 preselected markers to choose from that can be edited and added to. Markers are very handy to time stamp events during the live mode sessions.

6.5. *Preferences Screen*

In the configurations tab a preference screen has been added allowing the user to maintain application configuration and preconfigured marker names.

6.6. *Heart Rate Recovery, HR@VT, Fitness Test*

Automated calculations of heart rate recovery, HR@VT and fitness test analysis in the OmniSense Analysis package.

6.7. *Effort and Exertion Score Activity*

These two features show the level of effort and activity in the Analysis package. In the Live package, Effort is also shown as part of the BioGauge.



6.8. Skin Conductance Level (SCL)

An indicative measure of skin conductance in micro Siemens is shown in the Analysis package. SCL is only available in downloaded data.

6.9. Certified Zephyr Driver

The Zephyr specific drivers are certified and will no longer prompt security alert pop-ups.

7. Fixes and Corrections

Various minor bug fixes.

8. Dropped Features

None.

9. Known Issues, Limitations and Restrictions

9.1. Known Issues

9.1.1. Installation/ Upgrade

- Installation must be done from a local disk or from a CD. When run from a network drive or a ZIP file, the installer will not be able to access necessary folders and the installation cannot be completed.
- In some instances an error code 2755 might be displayed. This is a Windows related issue but will not affect installation if the on screen prompts are followed.
- When upgrading from the Zephyr Team system to OmniSense 1.1, and the Team System data base was not installed in the default file location, the user must point the OmniSense installer to the “polling. FDB” file location to import the database file.
- The Zephyr driver should be uninstalled prior to upgrading from a previous version of OmniSense if this is not done the system will continue to work but the user will not have the benefit of the certified driver.
- When upgrading from Team System to Omnisense 1.1, BioHarnesses that are added to the system via the “add wizard” will display an error. This is corrected by running the configuration tool and setting the BioHarness time slots to less than 20ms.

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9.1.2. OmniSense Configuration

In isolated cases when radio network type is changed from XTS to ISM, the team configuration is lost and teams must be re-assigned and redeployed.

9.1.3. Windows Related

If hibernation is enabled in the system, OmniSense could lock up when the operating system is recovering from hibernation.

9.1.4. Operational

- In some cases the user selections (teams and data grids) are lost when the user toggles from setup mode to live mode and back to setup mode.
- If the physical connection between the gateway radio and the PC is temporarily lost, OmniSense has to be restarted to continue data collection. A screen prompt is displayed to alert the user to restart OmniSense.

9.2. **Limitations**

- This release only supports one database file and data cannot be shared between different database files
- Recorded sessions cannot be currently removed from the system
- Hibernation should always be disabled when using OmniSense.

9.3. **Restrictions**

Although it is possible to select Thales MBITR radio configuration, this release is restricted to Motorola XTS and ISM radio support only. Thales MBITR radios are not officially supported at this point.

10. **Related Documentation**

All product documentation is contained on the OmniSense installer CD under the "Documentation" folder.