

OmniSense



Software Installation Guide



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Don't connect any Zephyr Hardware to your PC until **after** the driver files are installed as part of your OmniSense software installation.



Don't install any Zephyr utilities on an Apple computer using a virtual PC interface, and then connect the BioHarness module to the computer. The device may behave unpredictably during subsequent operations.

1. Introduction

This document contains information required to operate install the Zephyr™ OmniSense Application Software and hardware driver files. This application forms a component of the Zephyr Physiological Status Monitoring (PSM) range of systems.

The application is supplied pre-configured to suit a customer's hardware needs. Information on configuring the application for other hardware and radio networks is contained in the OmniSense User Guide

SYSTEM REQUIREMENTS

To check a PC's specifications:

1. Select Windows *Start > Computer*
2. Right-click *Computer*
3. Select *Properties*
4. The information is in the *General* tab of the *System Properties* dialogue displayed.

PC Operating System:	Microsoft © Windows XP SP2, Windows Vista or Windows 7
PC Processor:	1.3 GHz single core 32 or 64 bit
PC RAM:	512MB minimum
PC Memory:	100MB free disk space required
Connectivity:	USB

SYSTEM COMPONENTS

The following components will all be installed:

Component	Description
Microsoft .NET3.5SP1	Program Framework required to operate the application software (already embedded in Windows 7)
Zephyr USB Driver	Files needed to communicate with Zephyr hardware (BioHarness modules, BioMics) when they are connected directly to a PC
Firebird Database	Database for storing recorded physiological data (this doesn't show up in the Add/Remove programs page in Windows)
Zephyr OmniSense Live Module	Zephyr Application Software
Zephyr OmniSense Analysis Module	Zephyr Application Software
Zephyr Configuration Tool	Configuration Tool for Zephyr BioHarness Modules (to be used only after consultation with Zephyr or distributor)
BioHarness Log Downloader	A utility for importing log files from a BioHarness and generating output files in .csv and or .dat /.hed format.
BioHarness Downloader	A utility for importing log files from multiple BioHarnesses simultaneously. Data can be sent to the OmniSense database and/or external csv files

GENERAL INFORMATION

The installation software files are normally supplied on a CD. For some PC platforms, such as the Panasonic Toughbook range, which do not have a CD drive, the files must first be transferred to removable storage such as a USB pen drive to allow their transfer to the PC.

2. Software Installation

The following screen captures are those for Windows Vista – the installation Wizard logic is similar for Windows XP and Windows 7.

2.1. Windows XP

From OmniSense version 2.1 onwards, driver files for Z-Modem devices are installed automatically. The version of the driver currently being used is unsigned, and a Windows Logo Testing warning dialogue will be displayed to ask the User whether they wish to continue.

To remove these dialogues:

1. Select **Windows Start > Control Panel > System > Hardware tab**



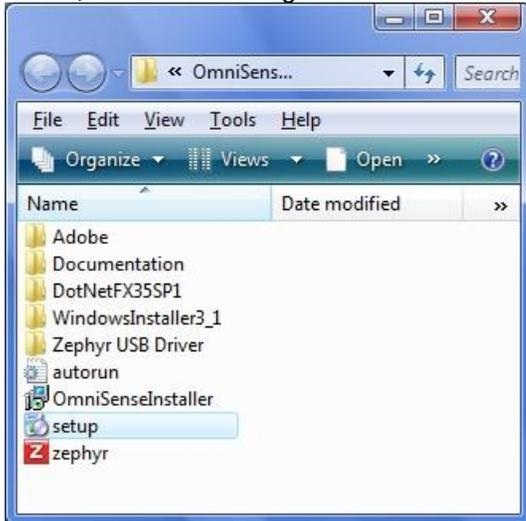
2. Select **Driver Signing**



Select **Ignore – install the software anyway...** Other than this aspect, the installation process logic will be similar to that described in the following sections.

2.2. Windows Vista and Windows 7

1. The installation CD should auto-start, otherwise browse the installation files at their location – either on CD, removable storage or on the PC itself:



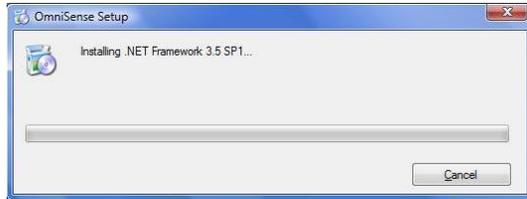
Double-click the **Setup** file to start the installation. Do *not* click any other file, as setup.exe initiates .NET and Zephyr USB driver installation as well as the OmniSense software.

2. A Microsoft .NET Install dialogue will display if you do not already have this component installed on your PC. (this is already embedded in Windows 7, and you will not see this dialogue)

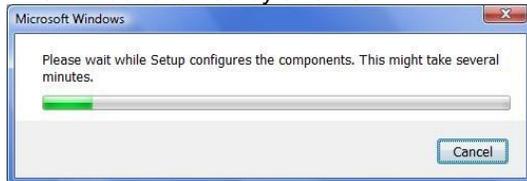


3. Click **Accept** to continue

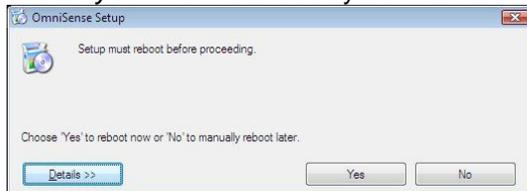
4. Some copying file dialogues will briefly display, followed by a progress bar. You may be prompted by User Control to continue with the installation.



5. This will be followed by another

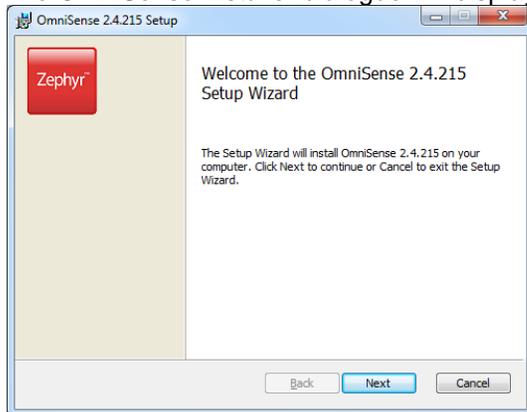


6. You may be asked to reboot your PC before proceeding



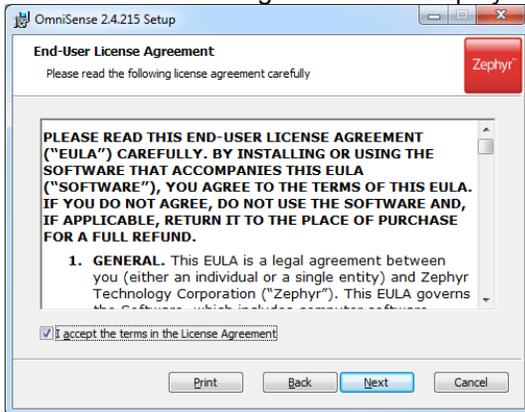
Click **Yes**, reboot your PC and the install process will continue automatically.

7. The OmniSense Installer dialogue will display automatically

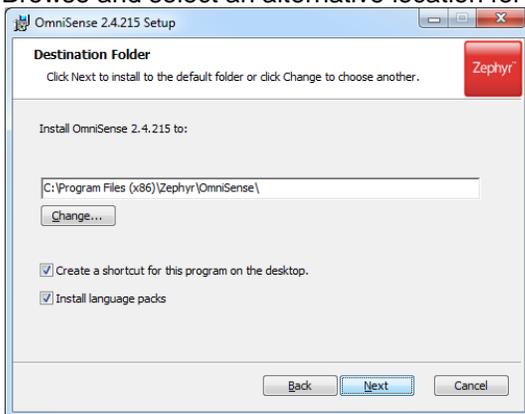


Click **Next** to continue

8. An end-user license agreement will display. Check the '**I Accept..**' box and click **Next** to continue.

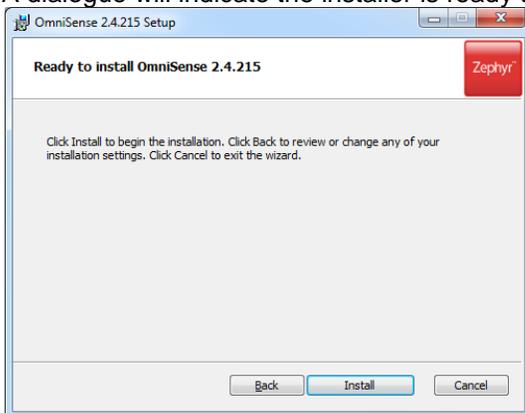


9. Browse and select an alternative location for the files if needed



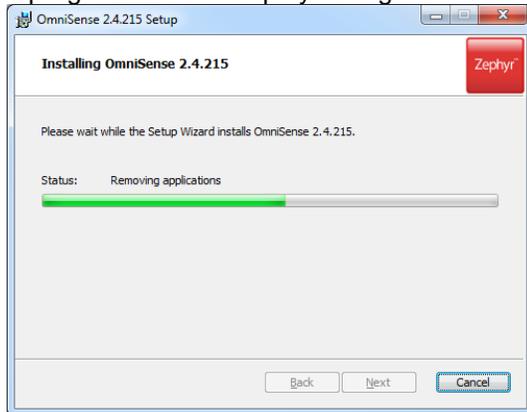
Click **Next** to continue, unless a location other than the default is preferred. Record where this alternate location is for future reference.

10. A dialogue will indicate the installer is ready to start..

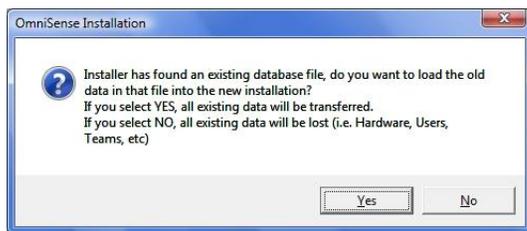


Click **Install** to continue

11. A progress bar will display during installation – there may be a short delay before it initiates.

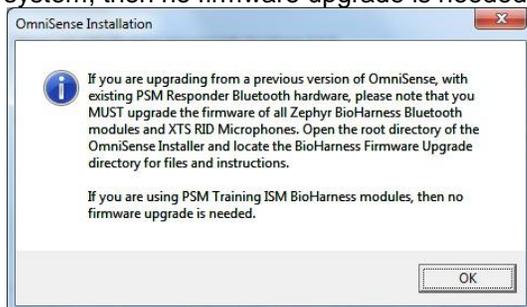


12. If an existing OmniSense database file (from a previous installation) is detected, a dialogue will ask whether you want to add the data from this existing file into the new database. If you select **No**, the old database file will be overwritten. If this is done in error, contact Zephyr for information on recovering the overwritten data.



13. If the version being installed is 2.0 or later, then a firmware upgrade is required for Bluetooth BioHarness modules and XTS Speaker Microphones. This is to facilitate the addition of external Bluetooth sensors to measure blood pressure and SpO2 using the PSM Responder system. An additional directory [**BioHarness Firmware Upgrade**] supplied on the CD or download contains all the files and instructions needed for the user to perform the upgrade themselves.

If the user is using a PSM Training system with ISM BioHarness Modules or a PSM Training ECHO system, then no firmware upgrade is needed.



14. If Adobe © Acrobat Reader is not already installed on your PC you will see a dialogue asking you to install Adobe © Acrobat Reader – this is required to read the OmniSense User Guide, which displays when the Help ‘?’ button is used in the OmniSense application toolbar. Click **OK** to acknowledge the dialogue. For your convenience a copy of Adobe © Acrobat Reader is supplied on the Zephyr installation CD or you can download the reader directly from www.adobe.com.

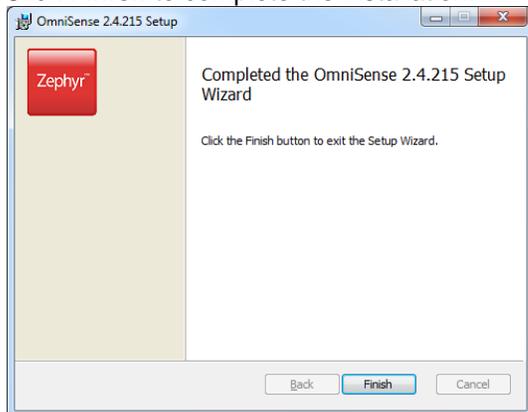


15. A Windows Security dialogue will display when the installing the driver files for the Z-Modem.



Click **Install this driver software anyway** to continue.

16. Click **Finish** to complete the installation.

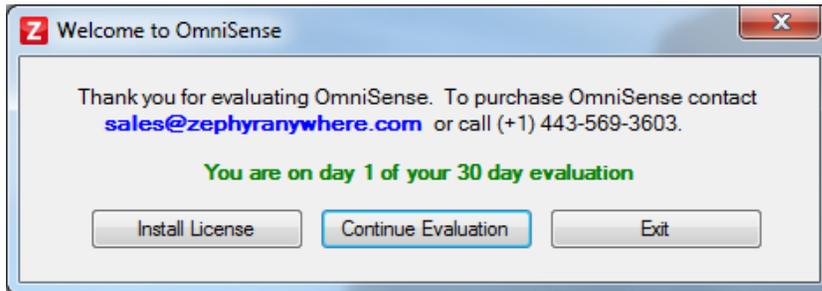


17. Shortcuts for OmniSense Live and Analysis modules will be placed on your desktop.

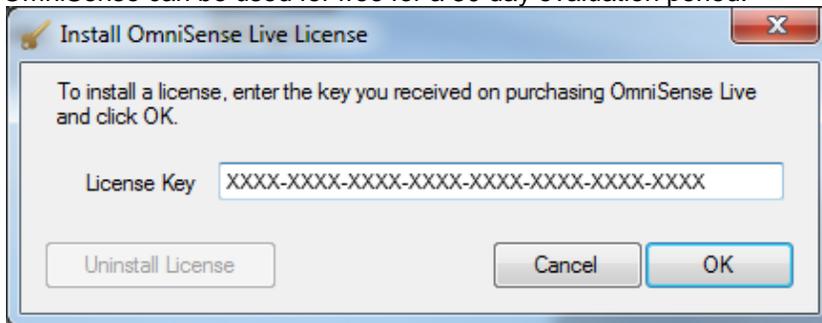


3. License Key

As of OmniSense v3.2.x, a license key is required for operation for more than 30 days of use. A licence key dialogue will appear the first time you run **OmniSense Live**:



A 32-character license key will be supplied for all new instances of OmniSense, or upgrades, purchased. OmniSense can be used for free for a 30 day evaluation period.



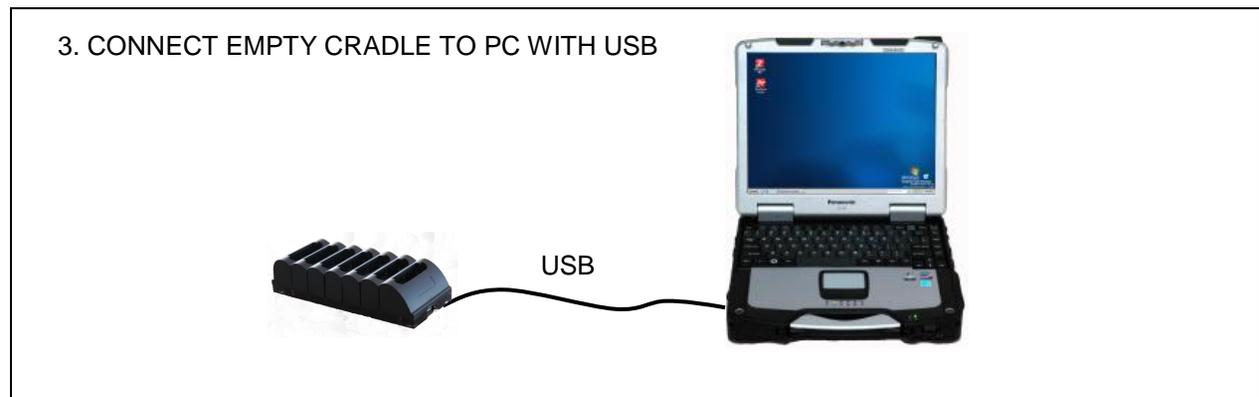
Two types of licence key are available:

- Full – unlimited use of OmniSense on multiple PCs
- 30-day Trial extension – unlimited use of OmniSense on multiple PCs for a further 30 days beyond the initial free 30 day trial

Contact sales@zephyranywhere.com for further details.

4. Hardware Installation

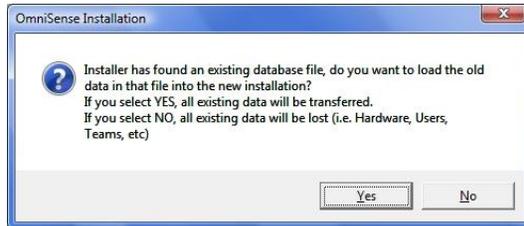
A Training system is supplied with a charging and configuration cradle capable of holding 7 devices.. In order to communicate with and download logs from each device to the PC platform, driver files must be installed for each of these devices. The best way to do this is to remove ALL devices from the cradle before its first connection to the PC, and relocate them one at a time, pausing for device driver files to load for each.



5. Software Upgrade

5.1. Upgrading OmniSense

When upgrading from a previous version of OmniSense the installer will detect the existing database and prompt to add this existing data to the new database:



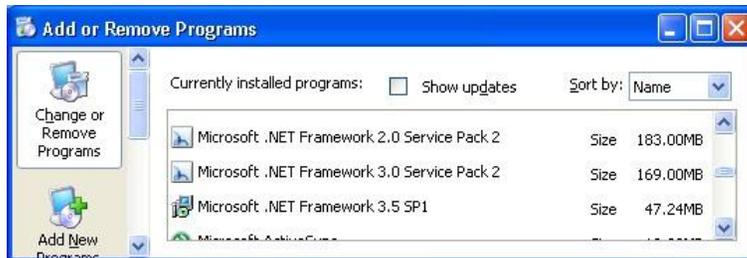
Select **Yes**, otherwise existing data will be over-written. This includes all subject physiological data and hardware configurations. If **No** is selected in error, contact Zephyr for instructions on how to recover the overwritten data.

6. Troubleshooting

6.1. Install Confirmation

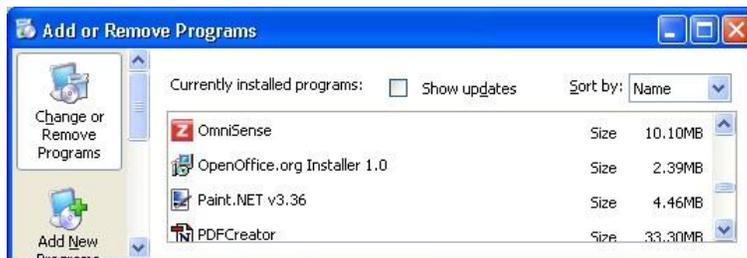
General problem diagnosis – should any aspect of installation or operation fail occur, first establish the status of your installation.

1. Confirm that Microsoft® .NET has installed. In XP, go to **Windows>Start>Control Panel>Add or Remove Programs**. Once the list has populated, scroll down and locate .NET (In Windows Vista and 7, go to **Windows>Start>Control Panel>Programs and Features**)



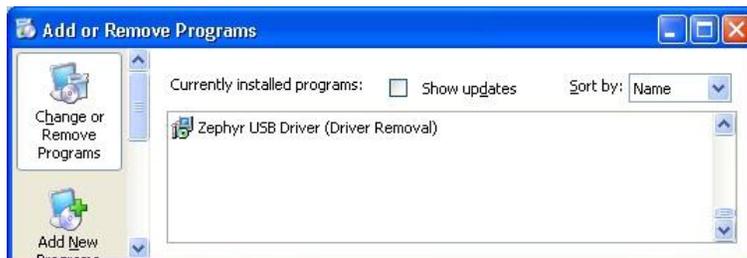
.NET 2.0, 3.0 and 3.5 should be displayed

2. Confirm, in the same Window, that the OmniSense Application has been installed



OmniSense should be displayed

3. Confirm, in the same Window, that the Zephyr USB Driver files have been installed



Zephyr USB Drive should be displayed