

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

ieneral Computer Name Hardware Advanced evice Manager The Device Manager lists all the hardware devices installed properties of any device. Device Manager to change the properties of any device. Device Manager Device Manager to change the properties of any device. Device Manager Device Manager Inversion Device Manager Device Manager Driver Signing Undows Update lets you set up how Windows connects to Windows Update Driver Signing Windows Update ardware Profiles Profiles Image: Hardware profiles provide a way for you to set up and store different hardware configurations. Hardware Profiles		estore	Automa	atic Updates	Remote
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	ect Dri	iver Si	ianina		
ct Driver Signing	er Signi	ing Opti	ons		?
ct Driver Signing er Signing Options				we might datact	software that

 What action do you want Windows to take?

 • Ignore - Install the software anyway and don't ask for my approval

 • Warn - Prompt me each time to choose an action

 • Block - Never install unsigned driver software

 Administrator option

 Make this action the system default

 OK
 Cancel

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.





2.2. 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

		c.
Setup must reboot before proce	eding.	
ioose 'Yes' to reboot now or 'No' to manua	ally reboot later.	

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

🖞 OmniSense 2.4.215 Setup
Destination Folder Click Next to install to the default folder or click Change to choose another. Zephyr
Install OmniSense 2.4.215 to:
C:\Program Files (x86)\Zephyr\OmniSense\
Change
☑ Create a shortcut for this program on the desktop.
✓ Install language packs
Back Next Cancel

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.

Installing OmniSense 2.4.215	Zephy
Please wait while the Setup Wizard installs OmniSense 2	.4.215.
Status: Removing applications	
	hisset Comment
Dack	

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.

		If you select YES, all e If you select NO, all e Teams, etc)	xisting data will be xisting data will be	transferred. lost (i.e. Hardware,	Users,
--	--	--	--	--------------------------------------	--------

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 it 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:**

Z Welcome to OmniSense	x				
Thank you for evaluating OmniSense. To purchase OmniSense contact sales@zephyranywhere.com or call (+1) 443-569-3603.					
You are on day 1 of your 30 day evaluation					
Install License Continue Evaluation Exit					

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.

🖌 Install OmniSer	nse Live License
To install a license and click OK.	e, enter the key you received on purchasing OmniSense Live
License Key	XXXX-XXXX-XXXX-XXXX-XXXX-XXXX
Uninstall Licen	se Cancel OK

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 <u>sales@zephyranywhere.com</u> 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.

 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

🐻 Add or R	emo	ve Programs			
1	^	Currently installed programs: 🔲 Show up <u>d</u> ates	<u>S</u> ort by:	Name	*
C <u>h</u> ange or Remove		Z OmniSense	Size	10.10MB	^
Programs		🕞 OpenOffice.org Installer 1.0	Size	2.39MB	
1		Paint.NET v3.36	Size	4.46MB	-
Add New	~	R PDFCreator	Size	33.30MB	~

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