

System Installation Guide

Guide to a successful system installation on an open source application stack

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1. Overview

EUSurvey is the official online survey management tool of the European Commission. Its development was started in 2013 under the supervision of DIGIT (<u>http://ec.europa.eu/dgs/informatics/index_en.htm</u>) and is published as open source software under the terms of the <u>EUPL public license</u> on JOINUP at <u>https://joinup.ec.europa.eu/software/eusurvey/home</u>. EUSurvey is a servlet based application and can be installed on any system that runs a JAVA servlet-container.

The system's development and reference installation runs Apache Tomcat as the servlet container and uses a MySQL database to store its information. The build process is assisted by Maven for resolving external dependencies.

This document describes the steps that are necessary to compile and install the open source version of EUSurvey. Even though the application can be installed on an arbitrary system running JAVA, the installation of the development environment will be presented on a Microsoft Windows 7 system representatively, for the sake of simplicity.

Except for Microsoft Windows, all tools used in this tutorial are available free of charge on the corresponding web sites.

Please notice that EUSurvey can be configured to run on a large number of different environments. In this case however, the installation of a different set of tools is necessary. The aim of this document is to guide the interested user through the process of installing a development environment and to deploy a working instance of the EUSurvey system, with as less effort as possible.

The experienced developer should feel free to use a compatible set of tools of his choice.

2. Prerequisites

To run the application from your own server being connected to the internet, a specific software architecture, composed of a servlet container and a supported database must be installed. The following table show an overview of the necessary software packages that should be installed to run (and compile) the EUSurvey application.

	Package	Version	Download from
1	Java SDK	8u101	http://www.oracle.com/technetwork/java/javase/downloads/index.html
2	Tomcat	8.0.15	http://tomcat.apache.org/download-80.cgi
3	MySQL	5.6.21	http://dev.mysql.com/downloads/mysql/
4	Spring	3.6.2	http://spring.io/tools/sts/all

Please notice that installing a software on your computer might require administration privileges. As the host system is usually shipped with an internet browser and the possibility to unpack zip-compressed files, these tools will not be mentioned explicitly.

Tools

The following tools and binaries need to be installed on the system to create and run the application:

Java SDK

Java is the programming language of the EUSurvey system. To run an application in JAVA, regardless what application it is, the JAVA runtime environment must be installed on your system. Given that we will create the application from its source-code, the Java Development Kit (JDK) is required.

Download and install the latest JDK 8 version for your system (jdk-8u101) from the Oracle web site:

http://www.oracle.com/technetwork/java/javase/downloads/index.html

Once you have installed it, please conduct the following steps to configure your system:

Adjust system variables

To complete your installation of the JDK on your system, different system variables need to be adjusted to match your environment.

To do so, please open the System menu from the Control Panel of your system and select "Change Settings" from the section representing "Computer name, domain, and workgroup settings".

Control Panel Home	View basic information	about your computer	
Device Manager	Windows edition		
😵 Remote settings	Windows 7 Enterprise		
System protection	Copyright © 2009 Microso	At Corporation. All rights reserved.	
Advanced system settings	Service Pack 1		
	System		
	Manufacturen	EC - DIGIT	
	Model:	DIGIT A2 RC Client 7.1.10.0 RTM	
	Rating	System rating is not available	
	Processor:	Intel(R) Xeon(R) CPU E5-2630 0 @ 2.30GHz Communication 2.30 GHz (2 processors)	-
	Installed memory (RAM):	4.00 GB	
	System type:	64-bit Operating System	
See also	Pen and Touch:	No Pen or Touch Input is available for this	
Action Center		Display	
Windows Update	Computer name, domain, and	workgroup settings	
Performance Information and Tools	Computer name:	VW-A3-CIRCA-EUsurveyOSS	settings
	Full computer name:	VW-A3-CIRCA-EUsurveyOSS.net1.cec.eu.int	

Figure 1 - Change system settings.

System Properties
Computer Name Hardware Advanced System Protection Remote
You must be logged on as an Administrator to make most of these changes.
Performance
Visual effects, processor scheduling, memory usage, and virtual memory
Settings
User Profiles
Desktop settings related to your logon
Settings
Startup and Recovery
System startup, system failure, and debugging information
Settings
Environment Variables
OK Cancel Apply

Figure 2 - Edit environment variables.

nvironment Variat	bles X
-User variables for	r stem
Variable	Value
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
	New Edit Delete
System variables	
Variable	Value
Path	C:\ProgramData\Orade\Java\javapath;
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;
PROCESSOR_A	
PROCESSOR_II	D Intel64 Family 6 Model 45 Stepping 7, G 💌
	New Edit Delete
	OK Cancel

Figure 3 - Edit system variables.

JAVA_HOME

Edit or create a new variable named **JAVA_HOME** and assign it the path to the installation directory of your JDK installation. (e.g. c:\jdk)

PATH

Additionally, add the patch containing the Java binaries of your JDK installation to the variable named **PATH (**e.g. c:\jdk\bin)

Test your settings

To test your installation, please open a windows command prompt and type "java -version". Type in "cmd" in the search field of your Start-environment and execute "cmd.exe" from the result list.

Programs (1)			
See more results			
cmd	×	Log off 🕨	
e			

Figure 4 - Searching for the command line executable

On successful installation, java will return information about the installed version.

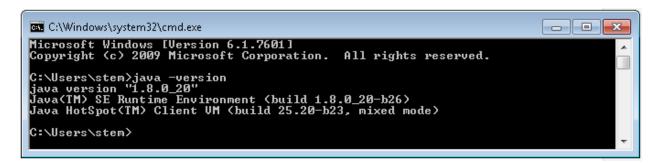


Figure 5 - Test installation of java executables

MySQL Database Server and Client

To install the MySQL database server, download the latest MySQL Community Server of version5.6 from the MySQL web site:

http://dev.mysql.com/downloads/mysql/

The Installation Guide is based on version 4.5.11.0 of the MySQL Database. It might be possible newer versions of the product are shipped with a slightly different installation wizard.

Hint

Please notice that the installation of the MySQL database requires the .NET framework 4.0 to be installed on your computer. If the wizard cannot find this package on your computer, the installation process will stop, showing you the message below. In this case, please browse to the indicated URL to download and install your copy of the Microsoft .NET Framework 4.5 binaries before proceeding.

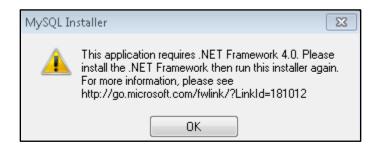


Figure 6 - Error message mentioning .NET to be required

From the Oracle web-page, please download the MySQL Community server. Choose the Windows (x86, 64 bit), MySQL Installer MSI that contains an offline-installation wizard, that will guide you through the installation process.



Figure 7 - Download MySQL from the Oracle web-page

Please make sure to download the full installation package and not the web-installer package, as depicted in the screenshot below.

Windows (x86, 32-bit), MSI Installer	5.6.21	1.4M	Download
(mysql-installer-web-community-5.6.21.1.msi)	MD5: afcc3	07021e4f2cc30114	27c6f4a27dd Signature
Windows (x86, 32-bit), MSI Installer	5.6.21	287.0M	Download
(mysql-installer-community-5.6.21.1.msi)	MD5: 62ee3	06399671b419b992	4564a3d5496 Signature

Figure 8 - Download full offline installer package.

Once you have launched the installation wizard, please select the "Custom" type of installation and adapt the installation- and data-path.

MySQL. Installer	Choosing a Setup Type				
	Please select the Setup Type that suits your use case.				
License Information Find latest products	Developer Default Installs all products needed for MySQL development purposes.	Setup Type Description Allows you to select exactly which products you would like to install. This also allows to pick other server versions and architectures (depending on your OS).			
Setup Type Feature Selection Check Requirements	 Server only Installs only the MySQL Server product. Client only 				
Installation Configuration	Installs only the MySQL Client products, without a server.	Installation Path:			
Complete	Installs all included MySQL products and features. Oustom Manually select the products that should be installed on the system.	Data Path:			
		< Back Next > Cancel			

Figure 9 - Select "Custom" installation type.

When coming to "Feature Selection", make sure that "MySQL Workbench CE" is selected. This application represents an easy-to-use MySQL client application. Please notice that such an application

will be necessary at a later point of the installation process, to create a custom database schema for EUSurvey manually.

Hint

The installation of this application requires the Microsoft Visual C++ runtime libraries. These libraries are installed automatically by the wizard during the installation process, if not already existing on your system.

MySQL. Installer	Feature Selection
License Information Find latest products Setup Type Feature Selection Check Requirements Installation Configuration Complete	Please select the products and features you would like to install on this machine. Product Catalog: MySQL 5.6 Community Edition (available in this package MySQL Server 5.6.11 MySQL Server 5.6.11 MySQL Server 5.6.11 MySQL Workbench CE 5.2.47 MySQL Workbench CE 5.2.47 MySQL Notifier 1.0.3 MySQL Notifier 1.0.3 MySQL For Excel 1.1.1 MySQL Connectors MySQL Conne
	Space available on drive: 10,19G Estimated Total Space required on drive: 603,24M

Figure 10 - Select MySQL Workbench for installation.

Please feel free to unselect different other options, as they are not necessary for a successful installation of the EUSurvey system.

Once you have successfully installed the MySQL server and client on your computer, an initial configuration becomes necessary. On the second page of the configuration phase, please set the password of the MySQL root account.

MySQL. Installer	MySQL Server Configuration				
	Root Account Password Enter the password for the root account. Please remember to store				
License Information Find latest products	this password in a secure place. Image: root MySQL Root Password: Repeat Password:]			
Setup Type Feature Selection	Password Strength: Strong]			
Check Requirements Installation Configuration	MySQL User Accounts Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.				
Complete	MySQL Username Host User Role	Add User Edit User Delete User			
	< Back Next >	Cancel			

Figure 11 - Setting a new MySQL root-password.

Once you have done so, please follow the wizard until a successful installation is reported by the system.

Enabling Event-Scheduler

EUSurvey makes use of an advanced database functionality named "Event Scheduler". Unfortunately, this feature is not enabled by default, but has to be enabled before EUSurvey can make use of it.

To do so, please edit the configuration file of your MySQL server "my.ini" or "my.cnf", usually located in the server's sub-folder under the "ProgramData" folder of your system disk.

Troubleshoot

If you don't find the ProgramData or the my.ini file, please change your explorer settings to display hidden and system folder/files.

🎱 🔍 🗣 🐌 🕨 Computer 🕨 Local D	isk (C:) → ProgramData → M	lySQL → MySQL Server 5.6 →				
Organize 🔻 🗐 Open 🔻 Prin	t New folder	*	Date modified	Туре	Size	
🥃 Libraries 🗈 Documents	🎉 data		19.08.2014 08:45	File folder		_
Music	imy.ir	ni	18.08.2014 13:16	Configuration sett	14 KB	$\leq \square$
 Wideos Videos 	2 my_2	014-08-18T12-59-23.ini	22.01.2014 14:42	Configuration sett	14 KB	

Figure 12 - Edit database configuration file from MySQL installation directory.

In this file, please scroll down to the [mysqld] section of the file and add the following line to it:

"event-scheduler=ON"

Example

server_type=3 [mysqld]
event-scheduler=ON
<pre># The next three options are mutually exclusive to SERVER_PORT below. # skip-networking # enable-named-pipe # The Pine the MVSOL Server will use</pre>

Figure 13 - Add event-scheduler switch to MySQL configuration.

To take these settings into account the database (that has already been started right after installation and is running as a background service) needs to be restarted.

Therefore, please open the view on system Services and RESTART the system service labelled "MySQL56" as described in the Knowledge section below.

e Action View Help							
🔹 🖉 📑 🙆 📾 🗐 👘	11 16						
Services (Local) Services (Local)							
MySQL56	Nam	e	Description	Status	Startup Type	Log On As	
, , ,	Ö TD	Helper	Provides tu	Started	Automatic	Local Syste	
Stop the service		sec Policy Agent	Internet Pro	Started	Manual	Network S	
Pause the service		mRm for Distributed Tran		Starteu			
Restart the service	- 974				Manual	Network S	
		nk-Layer Topology Discov			Manual	Local Service	
	- 14	ledia Center Extender Servic			Disabled	Local Service	
		licrosoft .NET Framework			Disabled	Local Syste	
	9. M	licrosoft .NET Framework	Microsoft		Disabled	Local Syste	
	🤹 M	licrosoft .NET Framework	Microsoft		Automatic (D	Local Syste	
	🤹 M	licrosoft .NET Framework	Microsoft		Automatic (D	Local Syste	
	🥋 M	licrosoft iSCSI Initiator Serv.	Manages In		Manual	Local Syste	
	<u>Ф</u> м	licrosoft Software Shadow .	Manages so		Manual	Local Syste	
	<u>©</u> м	lultimedia Class Scheduler	Enables rela		Automatic	Local Syste	
	0. M	VSQL56	_	Started	Automatic	Network S	
	🔍 N	Start	Receives act		Disabled	Network S	
	<u></u> N	Stop	Receives act		Disabled	Local Service	
	Q. N		Receives act		Disabled	Local Service	
		Pause	Provides abi		Disabled	Local Service	
	Q N	Resume	Maintains a	Started	Automatic	Local Syste	
	Q N		The Networ	Starteu	Manual	Network S	
	Si N			Ch.,	Manual Manual		
		All Tasks 🕨 🕨	Manages o	Started Started		Local Syste	
	See N	Befresh	Identifies th	Started	Manual	Local Service	
Extended (Standard /		Aerresti					
and Start service MySQL56 on Local Comput	er	Properties					

Figure 14 - Restart the MySQL service after configuration.

Once you have successfully performed all above mentioned steps you are ready to build EUSurvey from its sources and to deploy the application to the servlet container (e.g. Apache Tomcat).

Apache Tomcat Servlet Container

As a Java web application, EUSurvey requires an application server (more precisely, a Servlet Container) to run the application. Such a servlet container is offered from different manufacturers and can be used interchangeably. In the context of this installation guide, the deployment on an Apache Tomcat servlet container will be described exemplarily for this type of application.

Please download and install the latest Apache Tomcat version from the Apache web site located at:

http://tomcat.apache.org/download-80.cgi

Make sure to download the 32-bit/64bit Windows Service Installer from the download page. It contains an installation wizard that will guide you through the installation process.

From the installation wizard, please select the custom type of installation and set the "Service Startup" as shown in the screenshot below.

ache Tomcat you want to inst	st.
	components you don't want to
Custom	
Core Core Native Start Neu Items Occumentation Wanager	Poston your moute over a component to see its description.
Host Manager Examples	
	Custom

Figure 15 - Select application to run as a service

During the installation process, please specify the folder where you have installed your Java Runtime Environment (JRE), as done in the previous step.

🗷 Apache Tomcat Setup: Java Virtual Machine path selection 🗉	• •
Java Virtual Machine Java Virtual Machine path selection.	Harrison Contraction
Please select the path of a Java SE 6.0 or later JRE installed on yo	ur system.
::\Program Files (x86)\Java\jre7	
Nullsoft Install System v2.46 -	Next > Cancel

Figure 16 - Specify JRE location.

After successful installation, the Servlet Container that runs as a System Service needs to be started. This step is mandatory for the web-application to be correctly deployed.

To do so, please open the view on system services and select "Start" from the respective service entry labelled "Apache Tomcat 7.0 Tomcat 7" from your item's context menu.

Please read the section on how to "Control System Services", if you are unsure on how to do this.

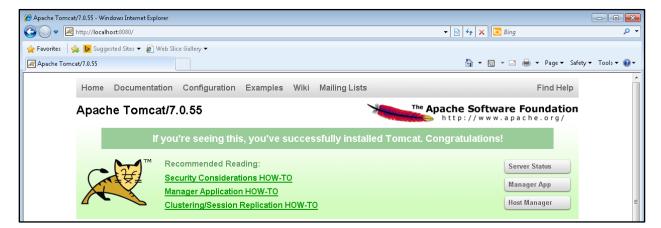
Services							
ile Action View	Help						
	à 📑 🛛 📰 🐂 🕨 💷 💷 🕨						
Services (Local)	Q Services (Local)						
	Apache Tomcat 7.0 Tomcat7	Name	Description		Status	Startup Type	Log On As
	Start the service	ActiveX Installer (AvInstSV) Adaptive Brightness		count Control validation for the installation of ActiveX con t light sensors to detect changes in ambient light and adju		Manual Manual	Local Syste Local Service
	Description:	Apache Tomcat 7.0 Tomcat7	Start Start	0.55 Server - http://tomcat.apache.org/ ion compatibility cache requests for applications as they		Manual Manual	Local Syste Local Syste
	Apache Tomcat 7.0.55 Server - http://tomcat.apache.org/	Application Identity Application Information Application Layer Gateway Servi	Stop Pause	srifies the identity of an application. Disabling this service ning of interactive applications with additional administra or 3rd party protocol plug-ins for Internet Connection Sh	Started	Manual Manual Manual	Local Service Local Syste Local Service
		Application Management Application Management ASP.NET State Service	Resume Restart	ion, removal, and enumeration requests for software depl or out-of-process session states for ASP.NET. If this servic		Manual Disabled	Local Syste Network S
		🤐 Background Intelligent Transfer 🍓 Base Filtering Engine	All Tasks 🔹 🕨	e background using idle network bandwidth. If the servic Engine (BFE) is a service that manages firewall and Intern	Started	Manual Automatic	Local Syste Local Service
		🍓 BitLocker Drive Encryption Servi	Refresh	BitLocker Drive Encryption service. BitLocker Drive Encryp		Manual	Local Syste
		Block Level Backup Engine Servi Bluetooth Support Service	Properties	rvice is used by Windows Backup to perform backup and vice supports discovery and association of remote Blueto		Manual Manual	Local Syste Local Service
		🙀 BranchCache	Help	s network content from peers on the local subnet.		Manual	Network S

Figure 17 - Start Tomcat from the System Services view.

Once Apache Tomcat has been started successfully, please browse to the following URL.

http://localhost:8080/

Once your Servlet Container has been installed and started successfully, your browser will show the following (or similar) page:





Spring Tool Suite

EUSurvey was built on top of a software framework named Spring MVC. To start your work on EUSurvey, we propose to use the Sprint Tool Suite as the primary IDE.

The Spring Tool Suite (STS) is a Java IDE based on the popular Java IDE "Eclipse" and has the binaries of the Spring framework built-in, as well as different other tools that facilitate development on the Spring MVC framework.

Download and extract the latest Spring Tool Suite version from the Spring web-site located at:

http://spring.io/tools/sts/all

Please make sure the package you install match your installation of the JDK (in terms of being compiled for 32 or 64bit architectures).



Figure 19 - Select 32 or 64bit release from the STS-download-page, depending on what JDK binaries have been installed.

Once the Sprint Tool Suite has been extracted to a local directory, the IDE can be started by executing "sts.exe" from the root-directory of the software package.

Troubleshoot

In case an error is telling you "**Failed to load JNI shared library**", the Sprint Tool Suite you have downloaded does not match your installation of your JDK (in terms of being compiled for 32 or 64bit system).

In this case, please download the package matching your JDK installation.

As soon as above mentioned prerequisites are fulfilled, please proceed to the creation of the new EUSurvey database and to the deployment of the application from the compiled sources.

Maven

To avoid any problem with the compilation from any IDE (sts,eclipse,...) we have to install the maven software in order to create the war file.

Download and extract the Maven 3.2.3 (minimum required) from this link <u>http://maven.apache.org/download.cgi#</u> and choose the Binary file

Extract the zip file to a folder

Adjust system variables

To complete your installation of the maven on your system, different system variables need to be adjusted to match your environment.

To do so, please open the System menu from the Control Panel of your system and select "Change Settings" from the section representing "Computer name, domain, and workgroup settings".

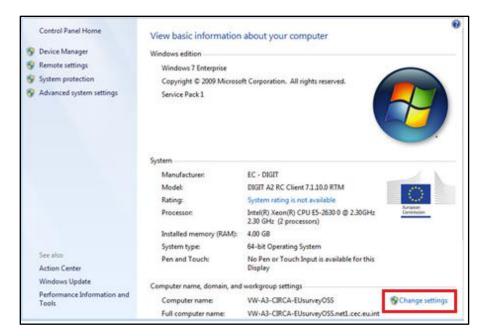


Figure 20 - Change system settings.

ystem Properties					X
Computer Name	Hardware	Advanced	System Prote	ction Remote	
You must be lo	gged on as	an Administra	tor to make mo	ist of these char	nges.
Performance					
Visual effects,	processor :	scheduling, m	emory usage, a	and virtual memo	ory
				Settings	
- User Profiles -					
Desktop settir	ne related t	o uour logon			
Desktop setti	igs related t	o your logori			
				Settings	
-Startup and R	ecovery				
System startup	o, system fa	ilure, and deb	ugging informa	tion	
				Settings	
			Env	ironment Variabl	es
		ОК	Ca	ncel A	\pply

Variable	Value	4
EC_COMPUTER	DIGIT	
EC_HOMEAPPD	H:_CI_APPDATA	
EC_USER_DEPA	DIGIT.A.3.001	
EC_USER_DG	DIGIT	4
ystem variables	New Edit Delete	•
ystem variables Variable	New Edit Delete	
		•
Variable	Value	
Variable M2	Value %M2_HOME%\bin	
Variable M2 M2_HOME	Value %M2_HOME%\bin C:\jgd\apache-maven-3.2.3\	

M2 and M2_HOME variables

Edit or create a new variable named **M2_HOME** and assign it the path to the installation directory of your maven installation.

Edit or create a new variable named M2 and assign it the value %M2_HOME%\bin

PATH variable

Edit the Path variable by adding the %M2% entry

To ensure the proper installation of the Maven tools, open a command prompt windows and type mvn – version, you should have this kind of value returned

C:\windows\system32\cmd.exe	_
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	
C:\Users\duyckje>mvn -version Apache Maven 3.2.3 (33f8c3e1027c3ddde99d3cdebad2656a31e8fdf4; 2014-08-11T Maven home: C:\jgd\apache-maven-3.2.3 Java version: 1.7.0_71, vendor: Oracle Corporation	22:58:10+02:00>
Java home: C:\jgd\java\jre Default locale: en_GB, platform encoding: Cp1252 OS name: "windows 7", version: "6.1", arch: "amd64", family: "windows"	
C:\Users\duyckje>	

Microsoft Translator Data

If you want to use an automatic translation tool that is partially free* (see on the website the limitation of the free version), please follow those instructions

Register to the service

Go to the url https://datamarket.azure.com/dataset/bing/microsofttranslator

		La	nguage: <u>English</u>	Region: United Kingdom	Support Sign In ▼
Microsoft Azure Marketplace	Learn Application	s Data	My Account	Publish	the Marketplace 🔎
Home > Data > Microsoft Translator					
к Б	Microsoft Transla Data	ator		2,000,000 Characters/month	£0.00 per month SIGN UP
	Categories: Comm	oft Translator unications, Machine L per Services, High Tec		4,000,000 Characters/month	£26.36 per month BUY
	Date added: 31/08/2 Get support for this offering			6,000,000 Characters/month	£39.54 per month BUY
	Microsoft Translator is a WEB AP Translation) of text between any (of-the-art statistical machine tran every day. It also provides additio and pre- and post-editing custon	of the 50 supported lan Islation API powers bill nal functionality such a	guages.This state- ions of translations is language detection	8,000,000 Characters/month	£52.72 per month BUY
	and Collaborative Translation Fr The API is used in the translatior Office, SharePoint, Lync, Yamme numerous consumer translation	r, Visual Studio, and Bi	ng. It also powers	Characters/monun	£105.43 per month BUY
	customers can integrate to their Web Widget. To get started using the Translat www.MicrosoftTranslator.com/Ge	or API, go to	t site, the Translator	32,000,000 Characters/month	£201.60 per month BUY
				64,000,000 Characters/month	£387.07 per month BUY

Please follow the instructions given by the website

But in summary you need first to create an account.

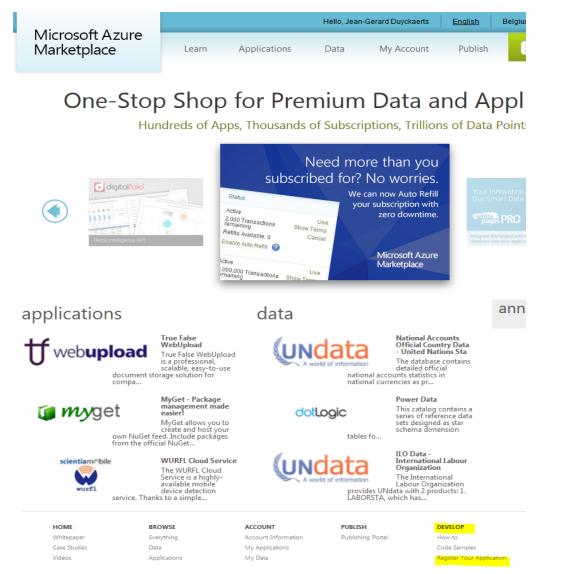
Search for the Translator application

Microsoft Azure			Hello, Jear	n-Gerard Duyckaerts	English	Belgium	<u>Support</u>	<u>Sign Out</u>
Marketplace			My Account	Publish	Searc	h the Marketp	lace 🔎	
Home > Search: Translator								
type	4 Res	sults in: 🗵 SEARCH: TR	ANSLATOR					
APPLICATIONS (3) DATA (1)	Sort By:	Date Added Name	Publisher					1
price		Micro	soft Tra	nslator				data
FREE (1) PAID (1)	Ľæ	published b	y: Microsoft Tra	anslator			\checkmark	subscribed
CATALOG (3)	ax	of a text int	o a specified la	rs Automatic Translatic nguage. It is a state-of-	the-art statistical		Ŭ	use
category		machine tr languages		m translating between	any of the suppor	ted		
AUTOMOTIVE, INDUSTRIAL, & AEROSPACE (1)								
BUSINESS AND FINANCE (2)		Vfan I	Micro Tr	anslate			арр	lication

and sign up for the version that you need (first option is free 2.000.000 character translated / month)

			Hello, Jean-O	Gerard Duyckaerts	English	Belgium	Support	Sign Out
Microsoft Azure Marketplace	Learn	Applications	Data	My Account	Publish	Searc	h the Marketp	lace 🔎
Home > Data > Microsoft Translator								
кљ ая	Microsoft Translator Data					Active 0,000 ters/month	(,00 € er month ANCEL
	Published by: Categories:		ations, Machine Le Services, High Tech			0,000 ters/month	p	1,80 € er month
	Date added:	31-08-11					U	IPDATE
		-		c Translation (Machine quages.This state-	Charac	0,000 ters/month	p	7,71 € er month IPDATE

After Sign-Up you need to register the application, to do that from at the end of the page you have the Register your application below the Develop section



Enter the data that you need

		Hello, Jea	n-Gerard Duyckaerts	English	Belgium <u>Support</u>	Sign Out
Microsoft Azure Marketplace	Learn App	olications Data	My Account	Publish	Search the Market	nlace 🔎
	Registe	er your a	applica	ition		
	Client ID	my_translator_client_id				
	Your application's ID. It car	n be a mix of numbers, letters, h	yphens and underscores.			
	Name	Translator_client				
	The name of the application	on that will be displayed to the u	ser when asking the user	's permission to a	ccess their account.	
	Client secret					
	Password for your applicat	ion. Keep it secret. You man pro		e provided one ab	ove.	
	Redirect URI	https://Microsoft.com				
	URL to redirect at the end of enter any valid URL.	of the consent flow. Clients that	don't use the consent flo	w (e.g. Microsoft	Translator) should	
	Enable subdomain ac	cess				
	Enables subdomains for th remain unchecked.	e redirect URI to be specified wh	nen invoking the consent	flow. In most sce	narios, this should	
	Description	Translator Test				
	Optional description for th	e application, visible only to you	1.			
	◄ Cancel		CREATE			

You have to remember the Client ID value and the Client Secret that must be set in the spring.properties file (see Configure the application)

Knowledge

To be able to work on an EUSurvey development environment, the following advanced system knowledge is necessary:

• Modifying the state of existing System Services.

Control System Services

At different moments of the installation, you will have to start/stop/restart background tasks of your system, called Services.

In Windows systems, Services are controlled from a specific view named "Services" that is accessible from the Control Panel of your system or right from the Start Menu of your system.

To open this view, you can type "Services" into the input field in the start menu and activate the respective element.

Programs (3) Services Component Services. Starts, stops, and configures Windows services. Services.exe
Control Panel (6)
₽ See more results
services × Log off >

Figure 21 – Show System Services.

To modify a Service's stage, select an entry and click the right mouse button to open the context menu of the respective Service.

Then, please select "Start", "Stop" or "Restart" to change the Service's state.

🗢 🏓 🔲 🗎	Q 🛃 🛛 🖬 🖿 🖛 🖬 🕨							
🔍 Services (Local)	Services (Local)							
	MySQL56	Name		Description	Status	Startup Type	Log On As	
	Stop the service Pause the service <u>Restart</u> the service	G Link-Layer To G Media Center G Microsoft .NE G Microsoft .NE G Microsoft .NE G Microsoft .NE G Microsoft .NE	gent stributed Tran pology Discov Extender Service T Framework T Framework T Framework SI Initiator Serv tware Shadow	Allows Med Microsoft Microsoft Microsoft Microsoft	Started Started	Automatic Manual Manual Disabled Disabled Disabled Automatic (D Automatic (D Manual Manual Automatic	Local Syste Network S Local Service Local Service Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste Local Syste	
ton and State on ico	Extended / Standard /	G N Start G N Start G N Pause G N Resur G N Resta G N All Ta G N Refre: Prope	e ne rt sks sh	Receives act Receives act Receives act Provides abi Maintains a The Networ Manages o Identifies th	Started Started Started Started	Automatic Disabled Disabled Disabled Automatic Manual Manual Manual	Network S Network S Local Service Local Service Local Syste Network S Local Syste Local Syste	

Figure 22- Changing a service's state.

Warning

Please make sure not to unintentionally stop services that are not described in this document, given that this may affect the stability of your system.

3. Initialize the Database

After having installed the necessary software packages, a new database must be created and configured. This will require the following 3 steps to be conducted:

- 1. Creation of a new database schema for EUSurvey
- 2. Creation of a new database user to be used with EUSurvey
- 3. Customizing the database server.

Create a new schema

To create a new schema, open the MySQL Workbench and connect yourself to the database server you have installed in a previous step selecting "Database -> Connect to Database..." from the application's menu.

Use the root user and the password you have specified during the installation.

Once connected to the database server, select "Create a new schema in the connected server" to create a new database for EUSurvey by clicking the respective icon from the toolbar.

A new page will be shown, offering the possibility to configure your new schema. Please call your new schema "eusurvey" and select "utf8- default collation" as collation of choice.

MySQL Workbench				
SQL Epitor (Local instance M.,	×			
File Edit were Query Databa	se Plugins Scripting	Help		
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				
Colject Browse Create a new schema in the SCHEMAS	he connected server aver	Schema ×		
and the second se	Name:	eusurvey	٦	The name of the schema. It is recommended to use only alpha-numeric characters. Spaces should be avoided and be replaced by
Search objects	19			
▶ 📑 sakila ▶ 🗐 test	Collation:	utf8 - default collation	•	Specifies which characticollations the schema's tables will use if they do not have an explicit setting. Common choices are Latin1 or UTF8.
world	5.	-		

Figure 23 - Name the new database and select a collation.

Once you have done so, please click "Apply" to create your new schema. On success, a new schema will appear in the object browser.

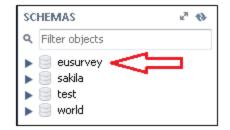


Figure 24 - New schema shown in object browser.

Create a new DB user

Once you have successfully created a new DB to save the elements created by EUSurvey, a new database user will have to be created, that can be used by the application to read and write into it.

To do so, please select "Users and Privileges" from the "Management" menu section of your Workbench and click the button labelled "Add Account", located at the bottom of the screen.

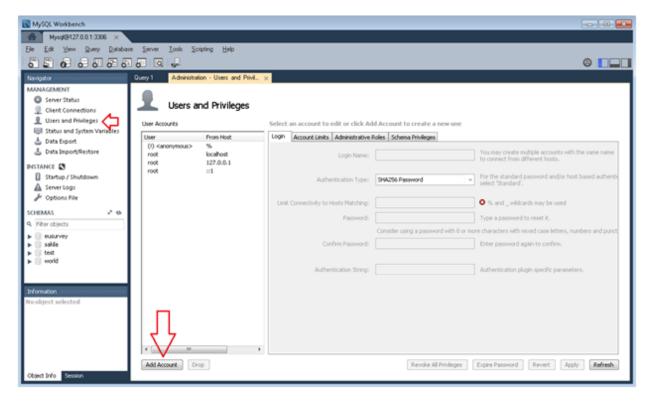


Figure 25 - Adding a new database user.

If you are asked to re-enter the password of user "root", please do so.

Once you have clicked "Add Account", the system will ask you to give the new user a name and to assign him respective privileges to perform specific tasks on your newly created database schema.

At first, please name your new user "eusurveyuser" on the "Login" tab. Then, choose and confirm a new password for this new user.

Users a	nd Privileges						
User Accounts		Details	for account eus	urveyuser@lo	calhost		
User	From Host	Login	Account Limits 4	Administrative R	oles Schema Privilege	s	
(!) <anonymous> eusurveyuser root</anonymous>	% localhost localhost			Login Name:	eusurveyuser		You may create multiple accounts with the same name to connect from different hosts.
root root	127.0.0.1 ::1		Authent	ication Type:	Standard	•	For the standard password and/or host based authenti select 'Standard'.
		Limit	Connectivity to Ho	sts Matching:	localhost		% and _ wildcards may be used
				Password:	*****		Type a password to reset it.
					Consider using a passv	vord with 8 or mo	re characters with mixed case letters, numbers and punct
			Confi	m Password:	*****		Enter password again to confirm.
							_

Figure 26 - Specifying user credentials of the new database user.

Once you have done so, change to the "Schema Privileges" tab and click "Add Entry..." to select a schema you want the new user to be privileged to perform some actions on.

User Accounts	nd Privileges	Details	for account eu	ısurveyuser@locall	nost V	
User	From Host	Login	Account Limits	Administrative Roles	Schema Privileges	
(!) <anonymous> eusurveyuser root root root</anonymous>	% localhost localhost 127.0.0.1 ::1	Scher Scher The s	na and Host fields	Privileges s may use % and _ wilk specific entries before to	III dcards. wildcarded ones.	Delete Entry Add Entry

Figure 27 - Select database schema for privileged access.

In the modal dialog that appears, select "Selected schema:" and highlight the name of the schema you created in a previous step. Then click "OK" to confirm your selection.

🔝 New Schema Privilege Definition		
Select the Schema for which the user 'newus Schema	er' will have the privileges you want to define.	
Any Schema (%)		This rule will apply to any schema name.
 Schemas matching pattern or name: C C	eusurvey information_schema mysql performance_schema sakila test world	This rule will apply to schemas that match the given name or pattern. You may use _ and % as wildcards in a pattern. Escape these characters with \ in case you want their literal value.
 Selected schema: 		Select a specific schema name for the rule to apply to.
		\mathbf{r}
		Cancel OK

Figure 28 - Select schema from list.

Make sure that the name of the schema is highlighted correctly when it is selected. Otherwise, the application will just not take the selection into account and will return without showing any error but without having any schema selected, neither.

Once you have done so, you will be asked to specify the privileges to be assigned to the current user for the selected schema.

From the tab labelled "Administrative Roles", please set the "EVENT" privilege for this user.

User Accounts	and Privileges	Details for account eusurve	yuyer@localhost	
User	From Host	Login Account Limits Admir	nistrative Roles Schema Privileges	
(!) <anonymous></anonymous>	%			
eusurveyuser	localhost	Role	Description	Global Privileges
root	localhost	DBA	grants the rights to perform all tasks	ALTER
root	127.0.0.1	MaintenanceAdmin	grants rights needed to maintain server	ALTER ROUTINE
root	::1	ProcessAdmin	rights needed to assess, monitor, and kill any	CREATE
		UserAdmin	grants rights to create users logins and reset pa	CREATE ROUTINE
		SecurityAdmin	rights to manage logins and grant and revoke	
		MonitorAdmin	minimum set of rights needed to monitor server	
		DBManager	grants full rights on all databases	CREATE USER
		DBDesigner	rights to create and reverse engineer any dat	
		ReplicationAdmin	rights needed to setup and manage replication	DELETE
		BackupAdmin	minimal rights needed to backup any database	DROP
		Custom	custom role	EVENT
				EXECUTE
				FILE



Then, from the tab labelled "Schema Privilege", click "Select ALL" to assign all available privileges to the new user you are about to create.

Finally, click "Apply" to create your new database user.

	nd Privileges	Details for account eusu		
User	From Host	Login Account Limits Ac	· · · · · · · · · · · · · · · · · · ·	
(!) <anonymous> eusurveyuser root root root</anonymous>	% localhost localhost 127.0.0.1 ::1	Schema eusurvey	Privileges ALTER, ALTER ROUTINE, CREATE, CREATE ROUTIN	E, CREATE TEMPORARY TABLES, CREATE VIEW
			III ay use % and _ wildcards. ific entries before wildcarded ones. 'localhost' will have the following access rights to the schema DDL Rights	Delete Entry Add Entry 'eusurvey': Other Rights
		V SELECT V INSERT V UPDATE V DELETE V EXECUTE V SHOW VIEW	 CREATE ALTER REFERENCES INDEX CREATE VIEW CREATE ROUTINE ALTER ROUTINE DROP TRIGGER 	GRANT OPTION CREATE TEMPORARY TABLES LOCK TABLES
4	•			Unselect All Select "ALL"
, Add Account Dro	qc		Revoke All Privileges Expir	e Password Revert Apply Refresh

Figure 30 - Grant full Schema Privileges.

4. Build the application

A web application is usually deployed by loading a so-called WAR file ("Web Archive") into a respective Servlet Container (or Application Server). Such a file contains already compiled Java classes as well as human readable configuration files and more.

The next section will explain how to set-up a development environment and how to create an EUSurvey WAR file from its sources. The advanced reader who is not interested in building-up a whole development environment might be interested in the EUSurvey Deployment Guide that explains the manual configuration of an existing WAR file to be deployed on a working environment.

To build the application from its sources, the following steps will have to be performed:

- 1. Download the EUSurvey sources from JOINUP webpage.
- 2. Load the sources into a new Java project using the Sprint Tool Suite.
- 3. Configure the application to match your environment.

- 4. Export the WAR archive from the IDE.
- 5. Deploy the application on your Servlet Container.

The result of these steps will be a running EUSurvey application on your system environment.

Get the sources

Please get the EUSurvey source package as a zip archive from the location mentioned below and extract the content of the archive to a folder of your choice:

https://joinup.ec.europa.eu/software/eusurvey

Create a new Project

Once you have extracted the EUSurvey source code to your hard disk, load it into your IDE for configuration (and modification).

To do so, start the Spring Tool Suite you have installed in a previous step.

At start-up, you are asked to select a workspace. A workspace is a specific folder the system will save all project relevant data to. If you are unsure about what a workspace could be good for, just stay with the default.

Click "OK" to proceed with the program launch.

ፘ Workspace	Launcher		x
Select a wor	kspace		
	Suite stores your projects in a folder called a workspace. orkspace folder to use for this session.		
Workspace:	C:\Users\peter\workspace	▼ Browse	
🔲 Use this a	s the default and do not ask again		
		OK Cancel	

Figure 31 - Select a workspace to save your project data to.

To create a new Java project from the sources, select "File->New-> Java Project" from the application menu.

In the dialog, use "eusurvey" as the new project's name and uncheck the "use default location" checkbox.

Then, click the button labelled "Browse..." to specify the folder you extracted the EUSurvey sources to.

ፘ New Java Project	
Create a Java Project	
Create a Java project in the workspace or in an	external location.
Project name: eusurvey	
Use default location	$\overline{\Omega}$
Location: C:\src\eusurvey_1.1.5_oss	Browse
JRE	
Use an execution environment JRE:	JavaSE-1.7 💌
🔘 Use a project specific JRE:	jdk1.7.0_67 👻
OUse default JRE (currently 'jdk1.7.0_67')	Configure JREs
Project layout	
 Use project folder as root for sources and 	d class files
 Create separate folders for sources and c 	
Westing and	
Working sets	
Working sets:	▼ Select
 The wizard will automatically configure existing source. 	the JRE and the project layout based on the
-	
	45
Reck	ext > Finish Cancel

Figure 32 - Setting-up the project to import.

Then, click finish to create the project.

Once you have imported your new project successfully, the IDE will start setting-up the project environment. Most important, the integrated built-system named "Maven" will now start downloading dependencies during the first build which can take quite some time.

Please proceed to the next step "Configure the application", if the build-process succeeds without any errors. Otherwise, please read below.

Troubleshoot

In case your computer is located behind a network proxy and you have never used Maven before, you might run into trouble, given that Maven requires an internet connection to download missing packages from the internet. In this case, Maven needs to be configured to use correct proxy settings to access the internet. This is done by editing the Maven configuration file manually. The Maven built-system stores its settings in a file named "settings.xml", that is usually located in the folder named ".m2" in every user's home directory.

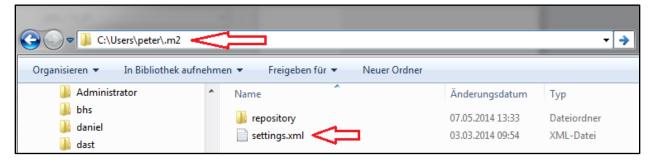


Figure 33 - Browse to the Maven configuration directory.

Editing this file, please add or adjust the section named "proxies" and enter valid proxy settings as depicted in the screenshot below

Example

<pre></pre>
<pre><settings <="" pre="" xsi:schemalocation="http://mayen.apache.org/SETTINGS/1.0.0 http://mayen.apache.org/xsd/settings-1.0.0.xsd"></settings></pre>
xmlns="http://mayen.apache.org/SETTINGS/1.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<pre><pre>cproxies></pre></pre>
<proxy></proxy>
<active>true</active>
<host>proxy.myhost.de</host>
<pre><port>8080</port></pre>
<nonproxyhosts>*.myhost.dellocalhost</nonproxyhosts>
<mirrors></mirrors>
<mirror></mirror>

Figure 34 - Add proxy settings to Maven configuration.

Once you have adjusted these settings, restart the package download for dependent libraries by selecting "Maven->Update Project..." from your project's context menu.

ፘ Java - Dashboard - Spring Tool Suite File Edit Source Refactor Navigate Search Project Run Window Help 🛅 • 🖫 🕼 📤 💋 🔌 🕸 • 🖸 • 🍇 • 🔳 • 🖡 • 😫 🕸 🞯 • 🍅 🖨 🛷 • 🙆 ½ • 🖓 • 🌾 Quick Access l Package Explorer 🛛 - -🟉 Dashboard 🛛 New Þ a 😕 eusur Go Into Q 🔈 芦 srd ⊳ 🕮 srd Open in New Window 🔈 🗁 sro Open Type Hierarchy F4 进 sro ISSUES BLOG FORUM Show In Alt+Shift+₩ ▶ 🕞 🛋 JR ⊳ 🛋 M 👔 Ctrl+C Copy 🦻 🚰 sre 👔 Copy Qualified Name 🔁 su Ctrl+V 🖻 🗁 tai 💼 Paste 🖬 po 💢 🛛 Delete Delete M2 Released Remove from Context Ctrl+Alt+Shift+Down e release of Spring Security 4.0.0.M2 Get Started! **Build Path** ۲ stone repository. SpringOne 2GX 2014 is Alt+Shift+S ► ur place at SpringOne in Dallas, TX for Sept Source IMPORT Refactor Alt+Shift+T ▶ GETTING STARTED 迠 Import... GUIDE d in Spring Security 3.2.5 and 🛃 Export... ge log) and 3.1.7 (change log) have been IMPORT TUTORIAL 🦑 🛛 Refresh F5 in Maven Central. Important highlights of GUIDE Close Project e contains a fix for CVE-2014-3527 ... Rob **Close Unrelated Projects** Add Dependency MPORT Assign Working Sets... ERENCE Add Plugin Profile As ۲ M New Maven Module Project Debug As ATE JAVA ROJECT Download JavaDoc Run As Þ Download Sources Validate 🚷 Update Project... Alt+F5 Team . Compare With Þ Enable Workspace Resolution Location Restore from Local History... Disable Workspace Resolution Disable Maven Nature Maven Þ Java EE Tools Þ Aspect Tools Þ

Please wait until the system has correctly downloaded the missing libraries before proceeding.

Figure 35 - Update a Maven project from project's context menu.

Hint

Just in case this does not solve the error, it might be necessary to rebuild the project. To do so, please make sure that "Build Automatically" is selected in the Project menu of the application and click "Project ->Clean..." to clean and rebuild your project.

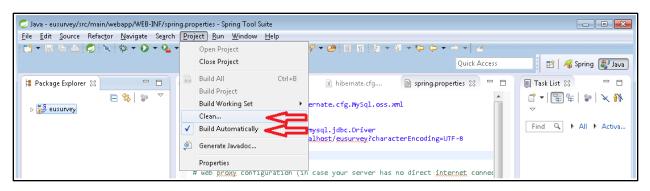


Figure 36 - Clean and rebuilt a Java project.

Configure the application

Important information for users who already used previous versions of EUSurvey: With this new version 1.3.4 you have the possibility to deploy the application on two different servers. Please carefully read the instructions below; they differ from the previous installation.

One server (aka Main server)

This is like the previous release of EUSurvey; the application runs on one server (user interface, background tasks, statistics, etc.)

Two servers (Main and Worker server)

This is a new feature, where the **main server** will execute almost all tasks (user interface, handling of HTTP sessions, etc.) while the **worker server** instance will serve to execute CPU- and memory-consuming tasks like exports, calculations of statistics, survey archiving and restoring, etc.

The settings of the application are still located on the spring.properties file, but now you will find two different spring.properties files. Both of them are located under the src/main/config. In this folder you will find two sub-folders "**main**" and "**worker**" that contain the adequate configuration file.

To configure the application to match your system environment, open the file named "spring.properties" from the same directory and configure the application to match your environment settings. This includes the following properties:

- Database settings (use the settings for the MYSQL user you configured earlier)
- Application server settings (Optional)
- Proxy settings (Optional, needed if your network is behind a proxy sever)
- System folder settings ((Optional)
- SMTP server configuration (Optional, needed if you want to send out invitations).
- Worker server configurations

Below you will find a short overview of all the possible settings in the spring.properties files:

Important: Depending on the selected server mode (main or both servers), you will have to update the corresponding spring.properties file (two files if you use the worker mode).

SMTP settings

Specify a working SMTP configuration to enable self-registration of new users.

- smtp.server The configure SMTP server used
- smtp.port The respective port the SMTP server is running on
- smtp.sender The email address used by the application for sending email from

Directory settings

Specify directories to be used by the application. Defaults are valid for installations on Windows system only. Please adjust these settings if running the application on a Unix environment.

- export.fileDir Directory used to save uploaded and system generated files (e.g. uploaded files and results of web service tasks).
- export.tempFileDir Directory used by the system to save temporary data (e.g. where PDFs and other exports are created)

Proxy configuration settings

Specify how the application will connect to the internet, if you are running the application behind a webproxy and you do not have direct internet connection.

- proxy.host The host running your web-proxy
- proxy.port The port running the proxy
- proxy.user The privileged user being allowed to pass the proxy
- proxy.password Above mentioned user's password
- proxy.nonProxyHosts- If you need to bypass some address such as localhost to avoid error

Server settings

Global configuration of the application:

- server.prefix Server prefix used for absolute links (e.g. for loopback calls). Port settings must
 match the settings of your servlet container (default is "http://localhost:8080/eusurvey", if
 unset)
- pdfserver.prefix Server prefix of the local server instance that will provide survey content for being translated to PDF. Improves performance when a reverse proxy mapping is used. Should be set to the same value as server.prefix, otherwise

Server settings when using only the main server

In this case you only have to configure the spring.properties below /src/main/config/main

- isworkerserver Must be set to false
- useworkerserver Must be set to false (tell that we want to use only one server)
- workerserverurl Must be empty

Server settings when using both servers (main and worker)

Settings for the main spring.properties

- isworkerserver Must be set to false
- useworkerserver Must be set to true
- workerserverurl set the url path of the worker server such as <u>http://myworkerserver:8080/eusurvey</u>

Settings for the worker spring.properties

- isworkerserver Must be set to true (tell that the current instance is the worker server)
- useworkerserver Must be set to true
- workerserverurl set the url path of of the current server (must point to itself) such as <u>http://myworkerserver:8080/eusurvey</u>

The following settings are optional:

Resource settings

- export.xsllink Location of the style-sheet used to visualize translations in XML format (URL)
- export.poolsize Number of instances in the three pools use to perform asynchronous operations (exports, PDFs, web services)

Connection pooling (c3p0)

Configuration of the connection pooling system for Hibernate is best described at http://www.mchange.com/projects/c3p0/

Special settings

Settings that are useful in special situations only:

- **stresstest.createdata** Setting this to 1 creates a lot of dummy data usually used for stresstesting an environment
- webservice.maxrequestsperday Limits the number of web-service calls per user to that many
- **app.server.env** Creates a banner in the upper left corner used on dedicated environments.
- **Publicsurveynotification** -Used to setup the mail address(es) of groups/persons (administrators) that must be contacted when you want to create a public survey (available for everybody)
- **ui.enableresponsive** set this value to true if you expected the usage of differents device for the answering of your surveys (see release note) By Default this property is set to false
- **ui.enablearchiving** allow the archiving of old surveys by setting this property to true, by default the value is false (see release note). WARNING by enabling this feature you can have a negative impact on the performance
- **ui.enablefilemanagement** this property allows the management of files generated by the application (export,...) under the configuration section of EUSurvey (you should be an admin to get this feature). By default the value is set to true. For more explanation about this feature please refer to the release note.

Possible values are acceptance/stress/test or development



Figure 37: Configure the spring, properties file.

Automatic translation

If you want to use the translation tools, see after the chapter concerning the automatic translation (see prerequisites)

```
# if false use Microsoft translation otherwise European Commission machine translation
mt.use.ec.mt=false
# If you want use MST translation for your survey you have to register
# to the Microsoft Translator data service, please refer to the OSS installation guide
microsoft.translation.client.id=your account here
microsoft.translation.client.secret=your secret phrase here
```

After successful modification, save your changes back to the WAR file you have edited.

Hint

Please notice that the system needs to be configured to connect to a working SMTP server to be able to

send out email invitations for secured surveys. Please make sure the configured connection allows emails to be sent, before making this feature available to your users.

Human verification and Captcha

The application has, by default, included a captcha verification system from Google. If you do not want this kind of verification or if you do not have access to the web, you can disable this option.

To disable it on the spring.properties file, search for the property captcha.bypass and set the value to "true".

If you want to use the recaptcha system, you need a Google account. In order to get this, go to the Google website <u>https://www.google.com/recaptcha/intro/invisible.html</u>

• Select "Get reCAPTCHA"

Get reCAPTCHA

- Create your account (or log in with your Google account) and follow the instructions
- You will receive a captcha key and secret. Then, you have to update in the spring.properties file(s) the properties "captcha.key" and "captcha.secret"

List of public surveys - configuring mail to accept or decline public surveys

As administrator, you have to accept or decline surveys that are declared as public. As soon as they are accepted, the surveys will be available in EUSurvey's "Public list of Surveys".

EUSurvey has a dialog box to send e-mails to the survey managers in telling them that their survey has been accepted or denied. In this dialog box, you can configure two fields: "Reply to" and the signature.

For "Reply to", this has to be done through the spring.properties, by setting the sender property. For the Signature field, go to /src/main/webapp/WEB-INF/views/administration/publicsurveys.jsp. On this page, search for this statement below and replace the hidden type signatureValue with the appropriate value.

Accept	
*Reply to	
DIGIT-EUSURVEY-SUPPORT@ec.europa.eu	
* Subject	
Your publication request for the EUSurvey Homepage	
*Text	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Dear Jean-christophe GUELFI, Your request for publishing your survey in the list of all public surveys has been	^
accepted.	~
To see your questionnaire in the list, please follow this link:	
*Signature	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Your EUSurvey Team	^
	~
	.all
Cancel Send	

Data Collection and Privacy Best Practices

In terms of data protection you are responsible for the data that is stored on your EUSurvey instance. It is therefore highly recommended to disclose your privacy practices to your users by providing a privacy statement for EUSurvey. By default EUSurvey oss is delivered **without any** privacy stataments. If you want to enable those privacy statement you MUST set in the spring.properties file the property **show.privacy=true**.

If you enable this privacy, every user will have to accept your terms when logging in for the first time before being able to use the application.

By default, the OSS release has an empty privacy statement page. If you want to configure this page to publish your own privacy statement, you have to edit the file called **tos.jsp** that you can find on the **WEB-INF/views/auth** path. To be sure to have the text in the right place the, on this tos.jsp page search the "<!-- SET HERE THE ENGLISH TEXT OF YOUR PRIVACY STATEMENT -->", the "<!-- SET HERE THE GERMAN TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and the "<!-- SET HERE THE FRENCH TEXT OF YOUR PRIVACY STATEMENT -->" and write just after your own privacy statement text. By default the statement exist for the English the German and the French language.

With this privacy statement, you inform your users on how you are handling data in EUSurvey. It should detail at least the following things:

- An introduction referring to the privacy or data protection rules of your country (legislation may differ from country to country!)
- Why are you collecting data
- Who is responsible for the processing of the data

- What personal information you are collecting
- To whom your data is disclosed
- For how long you are keeping the information in the database
- What are the contact points for questions, complaints and recourse

Many organizations are themselves regulated by data privacy laws and regulations, as well as internal policies. You should ensure that you are familiar with these, as you will be responsible for ensuring that your EUSurvey instance complies with these requirements.

For further information you may also wish to consult the website about data protection rules in the EU.

Create the WAR archive

Once you have correctly configured your application, you can compile the application and export a WAR file for deployment on the Servlet Container.

To do so, we will use the Maven tool, first exit from your IDE.

Locate where you have extracted the source code, and open a command prompt to this location.

Hint: to be sure of the execution you have to open the command prompt in the folder where the pom.xml file is present.

Warning: due to the multiple configuration (main and worker server) you **MUST** use the profile maven setting

Type the following execution line: **mvn clean package –Pmain/worker.** It will execute the following:

- A clean-up of old previous compiled files that are remaining
- Check if there is no error at the compile time
- Execute the creation of the WAR file
- The –P will execute the war by getting all files that are located under the src/main/config/[main|worker] (spring.properties,...)

If this execution is successful, the generated WAR file will be present on the target subfolder

Hint:

- If you need to create the war file only for the main server then launch the mvn clean package –Pmain line → it will generate the war by including all files located below the src/main/config/main folder and subfolder
- If you need to create the war file only for the worker server then launch the mvn clean package –Pworker line → it will generate the war by including all files located below the src/main/config/main folder and subfolder
- You cannot generate at once the main and the worker server war file, you need to compile first the main, copy the generated war file to the destination location and then generate the worker server war.

Ex.: if you saved your sources file to c:\eusurvey the war file will be located below c:\eusurvey\target folder.

Warning

Make sure the name of the exported file is really "eusurvey.war", given that this name is crucial for conducting self-referenced calls to the application. The application will not work if deployed under a different name.

The WAR file you have just exported basically contains the configured application that can be deployed on an arbitrary web-container of your choice to run the application.

5. Deploy the application

Now that the application has been configured correctly, it is ready for deployment on a Servlet Container for execution.

To deploy a web-application, one of the easiest ways is to copy the WAR file to a folder the application server will check regularly for new applications to deploy.

For Apache Tomcat, this folder is called "webapps" and is located in the server's folder under "Program Files". To deploy the application, just copy the WAR archive you exported in a previous step to the application server's "webapps" folder.

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a) Music	📕 docs	s	18.08.2014 13:40	File folder
E Pictures] man	nager	18.08.2014 13:40	File folder
Videos	ROC	T	18.08.2014 13:40	File folder

Figure 38 - Copy the application to the auto-deploy directory of Tomcat.

As soon as the server has been started, open the root URL of EUSurvey that is:

http://localhost:8080/eusurvey

Please notice that on first access, the application will start creating the database structure and will do some initial configuration work. This might take a couple of minutes.

As soon as the application has finished the system initialization, the browser will show the application's welcome page:



Figure 39 - The application's welcome screen.

Troubleshoot

In case the web-page is not displayed, please make sure Tomcat has been started from the System Service view.

6. Importing Language Table

After the first deployment, the application only supports three different languages: English, French and German. In order to add more languages, you will have to import the "iso639-1.xls" file, contained in the source data.

You can find this file at this location within your unzipped source data:

src/main/webapp/WEB-INF/Content

If you open the file, you will see a table with 186 languages, their native writing, the official language code and a fourth column (column D). All languages marked with a "1" in column D will be imported. Initially, all EU languages are marked to be imported. You can add/remove languages to be imported by simply adding/removing a "1" in column D.

To actually import the data (admins only), you will have to open the following URL:

[SERVER]/eusurvey/administration/languages

Select the file and then click "Import".

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3	Avestan	avesta	AE		
4	Afrikaans	Afrikaans	AF		
5	Akan	Akan	AK		
6	Amharic	አማርኛ	AM		
	Aragonese	aragonés	AN		
8	Arabic		AR العري		
	Assamese	অসমীয়া	AS		
10	Avaric	авар маці, магіарул маці	AV		
11	Aymara	aymar aru	AY		
	Azerbaijani	azərbaycan dili	AZ		
	Bashkir	башкорт теле	BA		
	Belarusian	беларуская мова	BE		
	Bulgarian Bihari	български език भोजपुरी	BG BH	1	
	Bislama	Bislama	BI		
17					
18	Bambara	bamanankan	BM		
	Bengali	বাংলা	BN		
	Tibetan	र्वन् चेन	BO		
	Breton	brezhoneg	BR		
	Bosnian Catalan; Valencian	bosanski jezik català, valencià	BS CA		
23 24	Chechen	нохчийн мотт	CE		
25	Chamorro	Chamoru	СН		
26	Corsican	corsu, lingua corsa	со		
27	Cree	⊸∿∆∿∿∆°	CR		
28	Czech	čeština, český jazyk	CS	1	
29	Old Church Slavonic	ызыкъ словѣньскъ	CU		
30	Chuvash	ча́ваш чёлхи	CV		
	Welsh	Cymraeg	CY		
	Danish	dansk	DA	1	
	German Divebi: Dhivebi: Maldivian:	Deutsch	DE	1	
	Divehi; Dhivehi; Maldivian; Dzongkha	ž=r	DV فرؤر DZ		
	Ewe	Evegbe	EE		
	Greek	ελληνικά	EL	1	
	English	English	EN	1	
	Esperanto	Esperanto	EO		
	Spanish	español	ES	1	
	Estonian	eesti, eesti keel	ET	1	
	Basque	euskara, euskera	EU		
	Persian		FA فارس		
	Fula; Fulah; Pulaar; Pular	Fulfulde, Pulaar, Pular suomi, suomen kieli	FF		
	Finnish Fijian	vosa Vakaviti	FI	1	
	Fijian Faroese	føroyskt	FO		
	French	français, langue française	FR	1	
	Western Frisian	Frysk	FY	-	
	Irish	Gaeilge	GA	1	
	Scottish Gaelic; Gaelic	Gàidhlig	GD		
52	Galician	galego	GL		
53	Guaraní	Avañe'ẽ	GN		

Figure 40 - Preview of language list

7. First Steps on EUSurvey

Once you have successfully deployed the application on your own application server, you are ready to either run or modify your own instance of EUSurvey.

Depending on what is planned to do next, the interested reader is referred to the following documentation:

- The <u>Quick Start Guide</u> for creating a survey right away (for Survey Managers)
- The <u>Help pages</u> for advanced information on how to create surveys (for Survey Managers)
- The Developers Guide for technical details of the application and basic information on how to interact with the provided IDE (for Developers)
- The EUSurvey community forum on JOINUP

User Management

The system has a default admin account to let you manage your users. The default username and password of this account are "admin" (username) and "admin" (password).

To be able to create new users, enter the Administration area of EUSurvey, via the little gear-wheel icon in the top right corner of the blue banner

Hello Admin	(logout)	About	Support	Download	Documentation 🌞
					7



There you will find a category called "User management" from where you can create new users and give them rights. In order to add a new User, click on the "Add User" button and fill out the requested information.

	1 Welcome	S Dashboard	Surveys	s 📑 Exports 🛛 🚑 A	ddress Book 🛛 💄 Settings			
V U	sers			Search Reset	Configure	Add User		
N < User 1 To 1 of 1 > N								
User Management	Login 🕇	↓ E-mail	† +	Language	Roles	Comment	Actions	
Role Management	0	0						
System Management	dummy			All values 🕶	All values -			
	dummy	dummy@compan	y.org	BG	Applicant	A dummy user	/ ×	

Figure 42 - Add new system user to the application