




Key Performance Indicator			
			
Line Counting			
Lines of Code	481219	↗	✓
Source Lines Of Code	401326	↗	✓
Effective Lines Of Code	325196	↗	✓
Cyclomatic Complexity	12265	↗	✓
Comment Rate	16 %	↘	✗
Decision Making			
Business Value	1912	→	I
Technical Debt	3626	↗	I
Maturity Index	65 %	↘	C
Stability Index	84 %	↗	B
Reusability Index	44 %	↘	D

Square 17.0.15

Installation Checklist

Reference : SIM_QUICK_Square

Version : 17.0.15

Date : 13/02/2019

Installation Checklist

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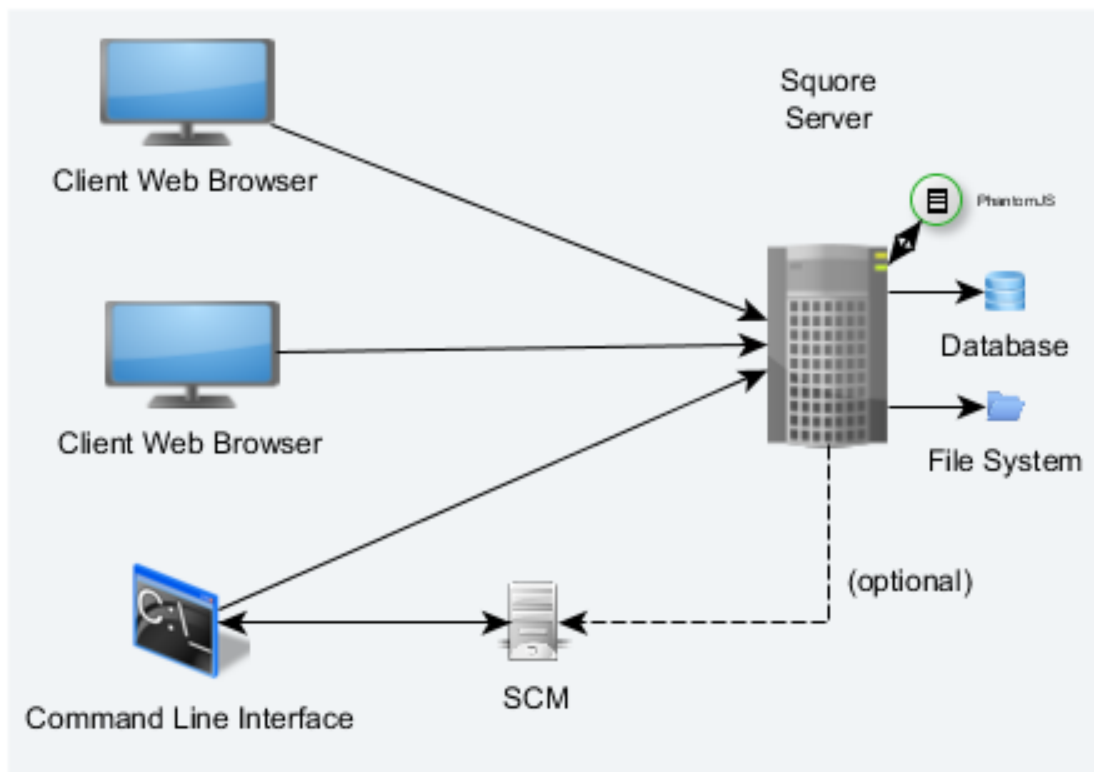
1. Introduction

This document is a checklist and FAQ sheet you can use to make sure that your environment is ready for installing Squore. The first chapter covers common pre-requisites and concepts of the Squore architecture. Each of the following chapters covers more specific topics that you only need to read about if you are interested in using the proposed solutions.

1.1. The Squore Ecosystem

Squore is based on a traditional 3-tier architecture consisting of:

- A database and a data folder for storing project data
- An application server running the main application, the licence server and a distribution of PhantomJS
- A client front-end accessible through a Web Browser
- A Command Line Interface (Squore CLI) to interact with the server from a client machine



The Squore Architecture

As shown in the schema above, Squore Server can provide analysis results to clients without having access to any source code, in scenarios where the analysis is carried out on a client machine with access to the SCM repository, as is the case in most Continuous Integration environments.

If you are planning to access source code hosted in a Subversion, Git, ClearCase, CVS or Synergy repository, a command line client for this repository must be available on the machine where the Squore analysis

carried out. For complete information about all installation pre-requisites, consult Section 2.1, “Installation Prerequisites”.

Squore allows analysing source code in the following programming languages: ABAP, Ada, C, COBOL, C++, C#, Fortran 77, Fortran 90, Java, JavaScript, Lustre, Mind-C, Objective-C, PHP, PL/SQL, Python, T-SQL, Visual Basic .NET, XAML.

2. Preparing your Machine for Squore

This chapter only covers how to ensure that your environment can be prepared for a Squore installation. For actual instructions on how to install Squore itself, refer to the full Installation and Administration Guide.

2.1. Installation Prerequisites

2.1.1. Supported Operating Systems

The following is a list of the officially supported and tested operating systems:

- CentOS 6
- CentOS 7
- Fedora 19
- Ubuntu Server 16.04
- Windows 8
- Windows 10
- Windows Server 2012 R2

Note

On Linux, a 64-bit version of the OS is required

On Windows, a 64-bit version of the OS is required if you want Squore to run as a Windows service, but the installation is also supported on a 32-bit system (and is started and stopped using .bat files instead of a Windows Service)

The following is a list of the operating systems that are not regularly tested but are known to be working:

- RedHat EL 6
- RedHat EL 7
- SuSe Linux 11.1
- Windows 7
- Ubuntu Server 10.04
- Ubuntu Server 14.04
- Windows Server 2008 R2

2.1.2. Supported Database Management Systems

Squore Server can use the following database management systems to store its data:

- PostgreSQL 8.4 and up
- Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

In both cases, it is possible to have database on the same machine as Squore Server or on a remote machine.

Note

When using a database backend on a remote machine, the database administrator is responsible for backing up the database. The backup scripts included in the Squore Server installation will only handle the backup of the data stored on the Squore Server file system in that case. You can find more information about backup strategies for Squore Server in the section called **Backup Tools** in the Installation and Administration Guide.

2.1.3. Browser Compatibility

Squore is compatible with many browsers. The following is the list of officially supported browsers:

- **Google Chrome stable branch**
- **Mozilla Firefox latest esr version**
- **Microsoft Internet Explorer 11.0.15063.0 and up**
- **Microsoft Edge 40.15063.0.0 and up**

2.1.4. For All Systems

For a successful installation of Squore, you will need:

- The latest version of the Squore Server installer, which can be downloaded from https://support.squoring.com/download_area.php
- A supported Operating System, as stated in Section 2.1.1, “Supported Operating Systems”
- The latest version of the Squore CLI installer, which can be downloaded from https://support.squoring.com/download_area.php for installations where only a command-line client is needed
- The latest version of the Squore Eclipse Plugin, which can be downloaded from http://localhost:8180/SQuORE_Server/eclipse for developer environments where Squore Eclipse Plugin will be used
- A user account with system administrator privileges
- The Oracle Java Runtime Environment version 8 (other versions are not supported)

Warning

- It is technically possible to run Squore on a server using a 32-bit JRE, however this will limit the memory available to 1GB of RAM to run the application, which will result in poor performance. If you still want to attempt such an installation, consult the troubleshooting page at http://openwiki.squoring.com/index.php/Running_Squore_On_A_32-bit_Java_Installation
- A supported Eclipse version (Luna SR2 and up)
- Valid credentials to log into a Squore Server
- At least 4 GB of space available on the disk for a full installation with demo projects
- At least 8 GB of RAM on the server machine
- A valid Squore Server licence file (optional, since the licence file can be added after installation)
- At least 4 GB of RAM on the client machine
- The `java` executable should be in the machine's `PATH` environment variable for Squore CLI to run successfully.

Tip

Keep in mind that the requirements above are the strict minimum. In production, Squore Server generally runs on a dedicated machine with a multi-core processor and 8 to 12GB of RAM. Squore reserves 25% of the available RAM of the machine to the database and another 25% to the server. External processes (like Checkstyle or FindBugs) running on the same machine as Squore may add to the amount of RAM required for analysing source code. Linux is known to offer better performances than Windows when running Squore. For a production database, you should plan a minimum of 20 GB of disk space.

2.1.5. Prerequisites for Oracle

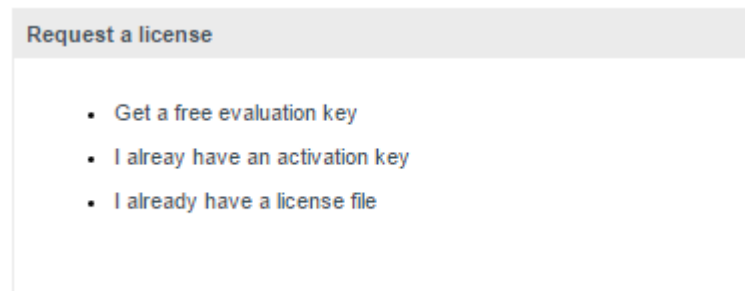
When using Oracle as a database backend, a database administrator must create an Oracle user before you can install Squore.

The user requires the following privileges:

- **CREATE PROCEDURE**
- **CREATE SEQUENCE**
- **CREATE SESSION**
- **CREATE TABLE**
- **CREATE TYPE**
- **CREATE VIEW**
- A valid quota for the tablespace used by the user (for example **UNLIMITED**)

2.1.6. Obtaining a Licence File

A Squore licence file is linked to the hardware that Squore Server is installed on. When you complete your installation of Squore Server, and access http://localhost:8180/SQuORE_Server in your browser, you are presented with a screen that allows you to request an activation key and download an evaluation licence.



The licence request dialog

Request an activation key or enter an existing one to download a temporary licence for your machine. Requesting an activation key ensures that Squoring gets all the information necessary to generate your final licence file when the evaluation period ends.

Note

The licence request dialog only displays when accessing http://localhost:8180/SQuORE_Server (it redirects to http://localhost:8180/SQuORE_Server/License/License.xhtml) from the machine where Squore Server is installed. If you cannot open a browser window on the server, you will have to request your evaluation licence by manually generating and e-mailing your host-id to Squoring:

1. Open a terminal on the machine where you installed or plan to install Squore.
2. Change to the <SQUORE_HOME> folder
3. Run the command `java -jar ./lib/hostid.jar`.
4. Send the output to support@squoring.com.

2.1.7. Packages for Windows

A JRE is required for Squore Server. The Windows installer contains the tcl and perl runtimes as well as a portable PostgreSQL installation and a distribution of PhantomJS.

A JRE is required for Squore CLI. The Windows installer contains the tcl and perl runtimes needed. It will allow you to obtain the configuration needed to create projects from the server.

A compatible version of Eclipse must be downloaded from <http://www.eclipse.org/downloads/> if you are planning on using Squore Eclipse Plugin.

2.1.8. Packages for Linux

On Linux platforms, the following must be installed before installing Squore:

→ **Perl** version 5.10.1 or greater including the following extra-modules:

→ Mandatory packages:

- **Algorithm::Diff** [module details] [<http://search.cpan.org/~nedkonz/Algorithm-Diff/lib/Algorithm/Diff.pm>]
- **Archive::Zip** [module details] [<http://search.cpan.org/~phred/Archive-Zip/lib/Archive/Zip.pm>]
- **Date::Calc** [module details] [<http://search.cpan.org/~stbey/Date-Calc/lib/Date/Calc.pod>]
- (Squore Server only) **DBD::Pg** (unless you use a Oracle as your database backend) [module details] [<http://search.cpan.org/~turnstep/DBD-Pg/Pg.pm>]
- (Squore Server only) **DBI** (unless you use a Oracle as your database backend) [module details] [<http://search.cpan.org/~timb/DBI/DBI.pm>]
- **Digest::SHA** [module details] [<http://search.cpan.org/~mshelord/Digest-SHA/lib/Digest/SHA.pm>]
- **HTTP::Request** [module details] [<http://search.cpan.org/~gaas/HTTP-Message/lib/HTTP/Request.pm>]
- **JSON** [module details] [<http://search.cpan.org/~makamaka/JSON/lib/JSON.pm>]
- **LWP** [module details] [<http://search.cpan.org/~ether/libwww-perl/lib/LWP.pm>]
- **LWP::UserAgent** [module details] [<http://search.cpan.org/~gaas/libwww-perl/lib/LWP/UserAgent.pm>]
- **Time::HiRes** [module details] [<http://search.cpan.org/~zefram/Time-HiRes/HiRes.pm>]
- **XML::Parser** [module details] [<http://search.cpan.org/~toddr/XML-Parser/Parser.pm>]

→ Optional packages for working with Microsoft Excel:

- **HTML::Entities** [module details] [<http://search.cpan.org/dist/HTML-Parser/lib/HTML/Entities.pm>]
- **Spreadsheet::BasicRead** [module details] [<http://search.cpan.org/~gng/Spreadsheet-BasicRead/BasicRead.pm>]

→ Optional packages for working with OSLC systems:

- **Date::Parse** [module details] [<http://search.cpan.org/~gbarr/TimeDate/lib/Date/Parse.pm>]
- **WWW::Mechanize** [module details] [<http://search.cpan.org/~ether/WWW-Mechanize/lib/WWW/Mechanize.pm>]
- **XML::LibXML** [module details] [<http://search.cpan.org/~shlomif/XML-LibXML/LibXML.pod>]

→ Optional packages for working with GitHub systems:

- **Date::Parse** [module details] [<http://search.cpan.org/~gbarr/TimeDate/lib/Date/Parse.pm>]
- **Mail::Box::Manager** [module details] [<http://search.cpan.org/~markov/Mail-Box/lib/Mail/Box/Manager.pod>]
- **Mail::Message::Body::Lines** [module details] [<http://search.cpan.org/~markov/Mail-Box/lib/Mail/Message/Body/Lines.pod>]
- **Mail::Message::Construct** [module details] [<http://search.cpan.org/~markov/Mail-Box/lib/Mail/Message/Construct.pod>]

- **Mail::Mbox::MessageParser** [module details] [<http://search.cpan.org/~dcoppit/Mail-Mbox-MessageParser/lib/Mail/Mbox/MessageParser.pm>]
- **Net::GitHub** [module details] [<http://search.cpan.org/~fayland/Net-GitHub/lib/Net/GitHub.pm>]
- Optional packages for working with Semios/Prometil systems:
 - **File::Slurp** [module details] [<http://search.cpan.org/~uri/File-Slurp/lib/File/Slurp.pm>]
- Optional packages for Advanced CSV Export Management:
 - **Text::CSV** [module details] [<http://search.cpan.org/~makamaka/Text-CSV-1.33/lib/Text/CSV.pm>]

Tip

If some of these modules are not available as packages on your operating system, use your perl installation's cpan to install the modules. Using the OS packages is recommended, as it avoids having to reinstall via cpan after upgrading your version of perl.

- **Tcl** version 8.5 or greater,
- (Squore Server only) **PostgreSQL** version 8.4 (unless you use a RDBMS running on another system) including at least the **server** component, and optionally, the **pgAdmin** utility. Note that your system must use a UTF-8 locale for the database creation to be carried out successfully. You can force this by running `export LANG=en_US.UTF-8` or `export LANG=fr_FR.UTF-8` according to what is available on your system before installing Squore.
- (Squore Server only) The **rsync** utility
- A supported Eclipse version (Luna SR2 and up) if you are planning on using the Squore Eclipse Plugin

If you are running on a headless Squore Server, java-1.6.0-openjdk may not be sufficient, as it lacks some fonts to render graphics. This is why using Oracle's JRE is recommended.

2.1.9. Packages for CentOS and Red Hat Enterprise Linux

On Red Hat Enterprise Linux and CentOS (6.5 and 7.1), the dependencies are satisfied by the following packages:

Mandatory packages:

- **java-1.8.0-openjdk**
- **perl**
- **perl-Algorithm-Diff**
- **perl-Archive-Zip**
- **perl-Date-Calc**
- **perl-Digest-SHA**
- **perl-JSON**
- **perl-libwww-perl**
- **perl-Time-HiRes**
- **perl-XML-Parser**
- (Squore Server only) **postgresql-server** (unless you use a RDBMS running on another system)
- (Squore Server only) **rsync**
- **tcl**
- A compatible installation of Eclipse downloaded from <http://eclipse.org/downloads> if you plan on using Squore Eclipse Plugin.

Optional packages for working with Microsoft Excel:

- **perl-HTML-Parser**
- **perl-CPAN** (CPAN utility requirement)
- **perl-Spreadsheet-ParseExcel** (available in the EPEL repository)
- **perl-Spreadsheet-XLSX** (available in the EPEL repository)

Warning

The module **Spreadsheet::BasicRead** is not available as a package and must therefore be installed using **cpan** (make sure **cpan** is properly configured, by running **cpan** without arguments first):

```
sudo cpan -i Spreadsheet::BasicRead
```

Optional packages for working with OSLC systems:

- **perl-TimeDate**
- **perl-WWW-Mechanize** (available in the EPEL repository)
- **perl-XML-LibXML**

Optional packages for working with GitHub systems:

- **perl-TimeDate**
- **perl-Mail-Box** (available in the EPEL repository)
- **perl-Mail-Mbox-MessageParser** (available in the EPEL repository)
- **perl-Net-GitHub** (available in the EPEL repository)

Optional packages for working with Semios/Prometil systems:

- **perl-File-Slurp**

Optional packages for Advanced CSV Export Management:

- **perl-Text-CSV** (available in the EPEL repository)

For more information about how to install the Extra Packages for Enterprise Linux (EPEL) repository, consult <https://fedoraproject.org/wiki/EPEL>.

2.1.10. Packages for Ubuntu

On Ubuntu 16.04.3 LTS, the dependencies are satisfied by the following packages:

Mandatory packages:

- **libalgorithm-diff-perl**
- **libarchive-zip-perl**
- **libdate-calc-perl**
- (Squore Server only) **libdbd-pg-perl** (unless you use a Oracle as your database backend)
- (Squore Server only) **libdbi-perl** (unless you use a Oracle as your database backend)
- **libhttp-message-perl**
- **libjson-perl**
- **libwww-perl**

- **libxml-parser-perl**
- **openjdk-8-jre**
- **perl**
- (Squore Server only) **postgresql** (unless you use a RDBMS running on another system)
- (Squore Server only) **rsync**
- **tcl**
- A compatible installation of Eclipse downloaded from <http://eclipse.org/downloads> if you plan on using Squore Eclipse Plugin.

Optional packages for working with Microsoft Excel:

- **make** (CPAN utility requirement)
- **libhtml-parser-perl**
- **libspreadsheet-parseexcel-perl**
- **libspreadsheet-xlsx-perl**

Warning

The module **Spreadsheet::BasicRead** is not available as a package and must therefore be installed using cpan (make sure cpan is properly configured, by running **cpan** without arguments first):

```
sudo cpan -i Spreadsheet::BasicRead
```

Optional packages for working with OSLC systems:

- **libtimedate-perl**
- **libwww-mechanize-perl**
- **libxml-libxml-perl**

Optional packages for working with GitHub systems:

- **libtimedate-perl**
- **libmail-box-perl**
- **libmail-mbox-messageparser-perl**
- **libnet-github-perl**

Optional packages for working with Semios/Prometil systems:

- **libfile-slurp-perl**

Optional packages for Advanced CSV Export Management:

- **libtext-csv-perl**

2.2. Third-Party Plugins and Applications

End users can run third-party static code analysers or rule checkers that are not shipped with the Squore installer for licencing reasons. In this case, it is necessary to download the extra binaries from https://support.squoring.com/download_area.php and deploy them on the server.

The list of third party plugins to be downloaded separately is as follows:

- Checkstyle 5.6
- FindBugs 3.0
- Cppcheck 1.61
- PMD 5.0.5
- Polyspace Export
- Stylecop 4.7

Here is a full example of how to deploy Checkstyle into Squore

1. Download the Checkstyle binary from https://support.squoring.com/download_area.php.
2. Extract the contents of the zip file onto Squore Server.
3. Copy the extracted checkstyle-5.6 folder into <SQUORE_HOME>/addons/tools/CheckStyle_auto.
4. Instruct all client installations to synchronise with the server so that they get the newly deployed third-party binaries.

If you have deployed some third-party tools on Squore Server, they will automatically be downloaded to your client when you launch the client synchronisation script.

Tip

AntiC and Cppcheck on Linux also require special attention: Cppcheck must be installed and available in the path, and antiC must be compiled with the command:

```
cd <SQUORE_HOME>/addons/Antic_auto/bin/ && gcc antic.c -o antic
```

For more information, refer to the Command Line Interface Manual, which contains the full details about special installation procedures for Data Providers and Repository Connectors.

2.3. Requirements for LDAP Integration

In order to configure Squore to integrate with your LDAP Server, you should make sure that you have access to the following information:

- The address of the LDAP server you want to connect to Squore.
- The section(s) of the directory that contain the users that should be allowed to log into Squore.
- The login and password of a user account allowed to browse the section(s) of the directory mentioned above.
- Basic knowledge of your directory structure. Note that Squore was tested with Microsoft Active Directory on Windows Server 2008 and OpenLDAP on Ubuntu 12.04.

If you need to obtain this information to a system administrator, ask for these details:

- **java.naming.provider.url**: The URL of the directory server.
- **baseCtxDN**: The fixed DN of the context to start the user search from.
- **bindDN**: The DN used to bind against the ldap server for the user and roles queries. This is some DN with read/search permissions on the baseCtxDN and rolesCtxDN values.
- **bindCredential**: The password for the bindDN
- **baseFilter**: The search query sent by Squore to the LDAP server when authenticating. If the password is correct and the search returns true, the user is allowed to log into Squore. The default query checks that the login exists, but you can change it to check that the login is valid and that the user is part of a specific group for example, using the syntax `&((condition1)(condition2))`. For more information about LDAP

query syntax, refer to [https://technet.microsoft.com/en-us/library/aa996205\(v=exchg.65\).aspx](https://technet.microsoft.com/en-us/library/aa996205(v=exchg.65).aspx). Note that the **&** characters must be written as an entity (**&**) in the settings file.

- **rolesCtxDN**: The fixed DN of the context to search for user roles. This is required to exist, even though it is not used by Squore at the moment.
- **userCompositeName (optional)**: the field in the LDAP account that Squore will import and use as the user's full name.
- **userMail (optional)**: the field in the LDAP account that Squore will import and use as the user's e-mail address.
- **userOrganizationUnit (optional)**: the field in the LDAP account that Squore will import and use as the user's department.
- **userId (optional)**: the field in the LDAP account that Squore will use as the final user login to create the account or log into the application. When no value is specified for this field, Squore uses the login as typed by the user on the login page.

Note

Using this field helps avoiding confusion with mixed-case logins. Squore Server considers **demo** and **Demo** as two separate users by default. By specifying that the login is taken from a specific field from your directory, you ensure that the same account is used no matter what case was used in the login form.

2.4. Requirements for TeamForge Integration

In order to configure Squore to integrate with TeamForge, you will need to provide the following TeamForge details:

- **TeamForge Server URL (without / at the end)**, for example `http://localhost`.
- **TeamForge Server Name (will appear in Squore export format list)**, for example `TeamForge`.
- **TeamForge artifact default status at export**, for example `Open`.
- **TeamForge artifact default priority at export**, for example `4`.
- **SvnEdge Main Repository URL**, for example `http://localhost/svn`.
- **SvnEdge Viewer (viewvc) URL**, for example `http://localhost/viewvc`.
- **External System Id of SvnEdge (for ex: exsy1001)**, for example `exsy1011`.

The rest of the configuration is carried out on the TeamForge side with data obtained from Squore after you create some projects. You can see this information in the full Installation and Administration Guide

Appendix A. Licences

Squoring Software

End-User License and Support Agreement

Please read this document carefully. This is a legal agreement by which Squoring Technologies SAS ("Squoring") permits use of its Software products ("Squoring Software"). The user ("Customer") accepts the terms of this Agreement by taking any or all of the following actions: (a) by signing an order form or purchase order referencing either this Agreement or a Technical and Financial proposal issued by Squoring (an "Order Form"), (b) by opening the package containing the Software, and/or (c) by installing the Software on a computer ("Target Hardware").

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- (b) Squoring Software is based on a traditional 3-tier architecture consisting of:
 - . a database and a data folder for storing project and user management data
 - . an application server running the "Squore Server Software" and the "License Server Software"
 - . a client front-end accessible through a Web Browser and a Command Line Interface to interact with the application server from a client machine
- (c) Target hardware ("Target Hardware") is uniquely identified by the hardware specification and the operating system running on it.

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 - . After one year, Maintenance and Support services will be renewed by tacit agreement of the parties, for annual periods. Before the anniversary date of each license for which Support Services are in effect, Squoring shall advise the Customer of the applicable Maintenance and Support Service fees for the coming year.
 - . The termination of maintenance contract will be effective only by sending a registered letter with acknowledgement of receipt denouncing the contract at least 60 days before the end of the period of validity.
 - ii. In case of software licenses subscription

If the license to use the software is subject to a periodic subscription, the maintenance cost for these licenses is included in the subscription price. The maintenance is so provided during all the duration of the subscription, and stops automatically at the end of the subscription validity.

(b) Conditions. Maintenance and support services as defined hereafter in paragraph 5-(c) are applicable subject to the following conditions:

- . Squoring Software is covered by a valid maintenance contract for all acquired Squoring software licenses.
- . Squoring Software was not modified by the Customer.
- . The version of the installed Squoring Software corresponds to one of the two latest annual major updates distributed by Squoring Technologies.
- . Customer engages to comply with the normal use of the software, strictly comply with the instructions given by the Squoring Technologies and to respect all provisions in the present agreement.
- . Customer shall nominate from among its staff a technical coordinator and an alternate coordinator at the Customer Site(s), with up to date knowledge of Squoring licensed products usage and sufficient technical knowledge to interact with Squoring support staff. In case of change of the coordinators, the Customer will provide written notification to Squoring Technologies.

(c) Maintenance and support services include:

- . Assistance from support: the online support (hot line) is available during Squoring normal business hours from 9 am to 6 pm (Central European Time) to answer the questions of the technical coordinator when technical facts encountered in the use of the Squoring Software. Support will help to identify problems and provide, where appropriate, temporary fixing patches. Contact information for support is:
 - support site: <https://support.squoring.com>
 - email: support@squoring.com
- . Corrective maintenance: the corrective maintenance includes the development, to the extent commercially reasonable, of workarounds or program fixes for malfunctions submitted by Customer. Are considered as malfunctions recognized or reproducible defects resulting in distorted results compared to those defined in the software Manual and not coming from non-observance of the instructions of the said Manual.
- . Updates: updates include the delivery of successive versions of the software, being either due to bug fixes or to enhancements of performances or features (this delivery does not necessarily provide new additional features). Customer will destroy any prior version before installing a new update.
- . Rehost: any change of "Target hardware" implies a change of license keys and shall be subject to the prior written authorization of Squoring and to the signature by the Customer of a letter of destruction of all the license files already installed.

d) Maintenance and support services do not include:

- . Time spent, after request of the Customer by Squoring Technologies staff not directly attributable to maintenance services: search for non-reproducible anomalies, malfunction due to non-compliance with the Manual without the Software itself being an issue, unavailability of the system, operating activities prior to the intervention (such as preliminary backup ...).
- . Installation of the Software by Squoring Technologies.
- . Additional services which do not fall within the scope of maintenance services as defined above in paragraph 5-(c).
- . On-site support: Squoring may offer on-site support to Customer at additional charges

e) Procedure for the submission of requests:

- . To be taken into account, Customer requests shall be sent using the support site at <https://support.squoring.com>
- . Customer agrees to give, in support of a request for correction due to an anomaly, any information likely to facilitate the search for the causes of this anomaly, and to give for free to Squoring Technologies an open access to its

premises and development stations in the day and hours necessary to perform the contract, and to ensure the conservation, under the conditions of appropriate security and condition of the latest version, of the sources of programs in case of this is necessary to enable Squoring Technologies to perform its maintenance services.

- . Regarding correction of anomalies, Squoring is committed to act as soon as possible to correct the anomalies detected. Squoring will transfer to the Customer either a technique to bypass the anomaly or a patch of necessary corrections or a new version of the software.
- . Any issues not resolved with the initial response will be investigated using the data provided. Below are the targeted response times for continued investigations.
 - Blocker: 1 day, daily update. A request is "blocking" when the incident has a significative impact with a risk of operating loss or when datas are corrupted. The significative impact is appreciated by Squoring Technologies.
 - Serious: 2 days, weekly update
 - Major: 3 days, monthly update
 - Minor: 1 week, monthly update
- (f) Limitations
 - . Squoring is expressly subject to an obligation of means.
 - . Squoring is not required to (i) develop and release any, or any particular type of enhancements or (ii) customize the enhancements to satisfy Customer's particular requirements.
 - . The Updates will not include any upgrade or new version of the Products that Squoring decides, in its sole discretion, to make generally available as a separately priced item.
 - . Squoring will be released from any responsibility in case of breach by the Customer of any provision of this maintenance terms and conditions.

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(c) Limitation. Neither Squoring nor Customer will have any confidentiality obligation with respect to any portion of the Products or Customer Information that (i) the receiving party knew or independently developed before receiving such Products or Customer Information under this Agreement, (ii) the receiving party lawfully obtained from a third party under no confidentiality obligation, or (iii) became available to the public other than as a result of any act or omission by the receiving party or any of receiving party's employees or consultants.

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Customer may terminate this Agreement or any Order Form, without right to refund, by notifying Squoring of such termination and returning the Product and copies thereof to Squoring. Squoring may terminate this Agreement, upon reasonable notice and without judicial or administrative resolution, if Customer or any of Customer's employees or consultants breach any material term or condition hereof. This Agreement will terminate automatically if Customer becomes insolvent or enters into bankruptcy, suspension of payments, moratorium, or any other proceeding that relates to insolvency or protection or creditors' rights.

Upon the termination of this Agreement for any reason, all rights granted to Customer hereunder will cease, and Customer will stop using Squoring Software, return or destroy all copies and so certify to Squoring in writing. The provisions of Sections 6-8 will survive the termination of this Agreement.

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During the term of this Agreement, Squoring or its representative, if in receipt of credible evidence of non-compliance, may, upon prior notice to Customer, inspect the files, computer processors, equipment and facilities of Customer during normal working hours to verify Customer's compliance with this Agreement. While conducting such inspection, Squoring or its representative will be entitled to copy any item that Customer may possess in violation of this Agreement, without disruption of Squoring business and violation of Laws and Regulations.

12. ASSIGNMENT

Customer shall not assign, delegate or otherwise transfer this Agreement or any of its rights or obligations hereunder without Squoring prior approval which shall not be unreasonably withheld.

13. MISCELLANEOUS

- . Any terms and conditions of any unilateral letter, memorandum, purchase order or other writing issued by Customer shall not be binding on Squoring. Any waiver or modification of this Agreement will not be effective unless executed in writing and signed by an authorized representative of Squoring and Customer. This Agreement will bind Customer's successors-in-interest.
- . This Agreement will be governed by and interpreted in accordance with the laws of France. If any provision of this Agreement is held to be unenforceable, in whole or in part, such holding will not affect the validity of the other

provisions of this Agreement, unless the Parties in good faith deem the unenforceable provision to be essential, in which case either Party may terminate this Agreement effective immediately upon notice to the other Party. This Agreement constitutes the complete and entire statement of all conditions and representations of the agreement between Squoring and Customer with respect to its subject matter and supersedes all prior writings or understandings.

Redistributed Software	Version	License File

Wildfly	10.1.0.Final	lgpl-2.1.txt
PostgreSQL	8.4	postgresql-bsd.txt
Perl	5.12.3	al.txt
TCL	8.5	tcltkl.txt,tcllib.txt
PhantomJS	2.1.1	bsd3.txt
Components	Sub component	Version License File

Richfaces	4.5.17	lgpl-2.1.txt
PostgreSQL JDBC Driver	42.0.0	bsd2.txt
Oracle JDBC driver	12.1.02	otn.txt
Omnifaces	2.6	apache-2.0.txt
ANTLR	3.1	antlr3.txt
JasperReports Library	4.8	lgpl-2.1.txt
Checkstyle	5.6	lgpl-2.1.txt
JTcl	2.8	jtcl.txt, amd.txt, itcl.txt, janino.txt, tcllib.txt, tcltk.txt, ucb.txt
log4j	1.2.17	apache-2.0.txt
Apache Commons commons-lang3	3.1	apache-2.0.txt
Apache HttpComponents httpclient	4.1.2	apache-2.0.txt
Apache HttpComponents httpmime	4.1.2	apache-2.0.txt
Apache XML Graphics batik-transcoder	1.7	apache-2.0.txt
Bouncy Castle bcmail-jdk16	1.46	bouncy-castle.txt
com.beust jcommander	1.48	apache-2.0.txt
com.google.collections google-collections	1.0	apache-2.0.txt
com.googlecode.juniversalchardet juniversalchardet	1.0.3	mpl1.1.txt
com.sun.mail javax.mail	1.5.3	gf.txt
commons-cli commons-cli	1.2	apache-2.0.txt
commons-collections commons-collections	3.2.2	apache-2.0.txt
javax.enterprise cdi-api	1.2	apache-2.0.txt
javax.validation validation-api	1.1.0.Final	apache-2.0.txt
net.java.dev.jna jna	4.1.0	lgpl-2.1.txt
net.sf.jsci jsci	1.2	lgpl-2.1.txt
net.sf.saxon saxon-xom	8.7	mpl1.0.txt
nux nux	1.6	nux.txt
org.glassfish javax.json	1.0.4	gf.txt
org.jdom jdom2	2.0.5	jdom.txt
Resources	Version	License File

CodeMirror	4.4.0	mit.txt
font-awesome	4.7.0	mit.txt, ofl-1.1.txt
JavaScript InfoVis Toolkit	2.0.1	mit.txt
jquery	1.12.3	jquery.txt
jquery-mobile	1.4.2	jquery-mobile.txt
jquery-ui-resizable	1.11.4	mit.txt, jquery.txt
notify.js	0.4.2	mit.txt
splitter.js	1.51	mit.txt
gridstack.js	1.0.0	mit.txt
spectrum.js	1.8.0	mit.txt

al

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amd

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antlr3

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apache-2.0

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GlassFish

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jdom2

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lgpl-2.1

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