VALUING AND IMPROVING
SOFTWARE
CAPITAL

SQUORING
Technologies

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**

Squore 18.0.11

Installation Checklist

Reference : SIM_QUICK_Squore
Version : 18.0.11
Date : 12/10/2018

# Installation Checklist

Table of Contents

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

→ Clients that can interact with the server: a front-end accessible through a Web Browser and a Command Line Interface (Squore CLI) to interact with the server from a console
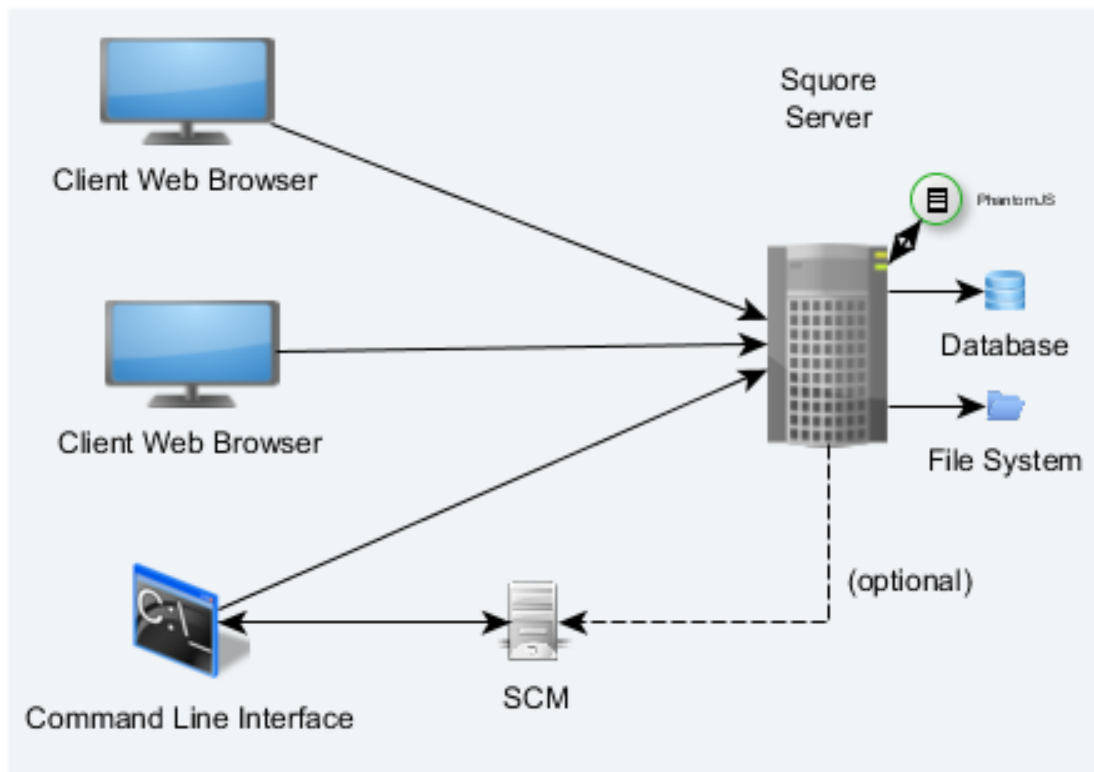
The Squore Architecture

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 Subversion, Git, ClearCase, CVS, Integrity, Perforce, TFS or Synergy repositories, 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, C++, MindC, C#, COBOL, Java, JavaScript, Fortran 77, Fortran 90, Objective-C, PHP, PL/SQL, Python, T-SQL, Visual Basic .NET, XAML, Lustre.

https://www.squoring.com/

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**
> A 64-bit version of the OS is required

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

→ Ubuntu Server 10.04

→ Ubuntu Server 14.04

→ Windows 7

→ 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 minimum (PostgreSQL 9.6 is recommended) and up

→ Oracle Database 12c Release 1

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 [https://www.chromium.org/getting-involved/dev-channel]**

→ **Mozilla Firefox 59 and up [https://www.mozilla.org/en-US/firefox/59.0/releasenotes/]**

→ **Microsoft Internet Explorer 11.0 (Update Versions 11.0.19 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**
>
> → Using the 64-bit version is recommended. 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 a minimum of 16GB 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.
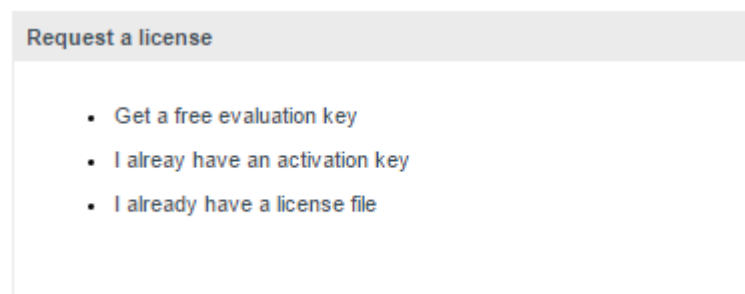
The licence request dialog

Request an activation key or enter an existing one to download a temporary licence for your machine. Requesting an activation key ensures that Squoring Technologies 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 Technologies:

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:

    → **Date::Calc** [module details] [http://search.cpan.org/~stbey/Date-Calc/lib/Date/Calc.pod]

    → (Squore Server only) **DBD::Pg** (if you are using PostgreSQL and use export scripts for HIS metrics) [module details] [http://search.cpan.org/~turnstep/DBD-Pg/Pg.pm]

    → (Squore Server only) **DBI** (if you are using PostgreSQL and use export scripts for HIS metrics) [module details] [http://search.cpan.org/~timb/DBI/DBI.pm]

    → **Digest::SHA** [module details] [http://search.cpan.org/~mshelor/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 RTRT (new in 18.0):

    → **XML::Simple** [module details] [http://search.cpan.org/~grantm/XML-Simple/lib/XML/Simple.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 Advanced CSV Export Management:

    → **Text::CSV** [module details] [http://search.cpan.org/~makamaka/Text-CSV/lib/Text/CSV.pm]

  → Optional packages for working with Mantis, Jira and other ticket management software:

    → **Date::Parse** [module details] [http://search.cpan.org/~gbarr/TimeDate/lib/Date/Parse.pm]

    → **JSON::XS** [module details] [http://search.cpan.org/~mlehmann/JSON-XS/XS.pm]

    → **Spreadsheet::ParseExcel** [module details] [http://search.cpan.org/~dougw/Spreadsheet-ParseExcel/lib/Spreadsheet/ParseExcel.pm]

    → **Spreadsheet::BasicRead** [module details] [http://search.cpan.org/~gng/Spreadsheet-BasicRead/BasicRead.pm]

    → **Text::CSV** [module details] [http://search.cpan.org/~makamaka/Text-CSV/lib/Text/CSV.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]

> **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 minimum (PostgreSQL 9.6 is recommended) (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-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 RTRT (new in 18.0):

→ **perl-XML-Simple**

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 Advanced CSV Export Management:

→ **perl-Text-CSV**

Optional packages for working with Mantis, Jira and other ticket management software:

→ **perl-TimeDate**

→ **perl-JSON-XS**

→ **perl-Spreadsheet-ParseExcel** (available in the EPEL repository)

→ **perl-Text-CSV**

→ **perl-WWW-Mechanize** (available in the EPEL repository)

→ **perl-XML-LibXML**

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
```

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:

→ **libdate-calc-perl**

→ (Squore Server only) **libdbd-pg-perl** (if you are using PostgreSQL and use export scripts for HIS metrics)

→ (Squore Server only) **libdbi-perl** (if you are using PostgreSQL and use export scripts for HIS metrics)

→ **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 RTRT (new in 18.0):

→ **libxml-simple-perl**

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 Advanced CSV Export Management:

→ **libtext-csv-perl**

Optional packages for working with Mantis, Jira and other ticket management software:

→ **libtimedate-perl**

→ **libjson-perl**

→ **libspreadsheet-parseexcel-perl** (available in the EPEL repository)

→ **libtext-csv-perl**

→ **libwww-mechanize-perl** (available in the EPEL repository)

→ **libxml-libxml-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
```

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 authentificating. 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. 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 user as the user's full name.

→ **userMail (optional)**: the field in the LDAP account that Squore will import and user as the user's e-mail address.

→ **userOrganizationUnit (optional)**: the field in the LDAP account that Squore will import and user as the user's department.

→ **userId (optional)**: the field in the LDAP account that Squore will use as a 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

https://www.squoring.com/

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").

CUSTOMER CONSENTS TO BE LEGALLY BOUND BY THESE TERMS. IF CUSTOMER DOES NOT AGREE
 TO ALL OF THE TERMS OF THIS AGREEMENT, CUSTOMER MUST NOT USE THE SOFTWARE AND
 MUST RETURN IT, INCLUDING ANY PRINTED ASSOCIATED DOCUMENTATION, TO SQUORING
 WITHIN FOURTEEN (14) DAYS TO RECEIVE A FULL REFUND OF THE PURCHASE PRICE.


1) DEFINITION
(a) "Squoring Software" includes (i) the Software identified in an Order Form
 or delivered with this Agreement; (ii) any authorized copies thereof; (iii)
 all related documentation ("Documentation") delivered with or included in that
 software; and (iv) any update to that software that Customer may receive from
 Squoring.
(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.


2) LICENSE
Squoring grants to Customer, and Customer accepts from Squoring, a non-exclusive
 and non-transferable right and license to use the Squoring Software that is
 specified in the Order Form and/or that accompanies this Agreement, but only
 (i) in accordance with the related Documentation, (ii) subject to Customer's
 payment of applicable license fees and (iii) subject to the terms and conditions
 specified below.
Customer agrees that Customer does not have, and does not hereby acquire, any
 title or rights of ownership in any Squoring Software or, except for the license
 rights hereby granted, any right to use, copy, transfer or disclose all or
 any portion of any Squoring Software. The Squoring Software is protected by
 copyright laws and international treaties.


3) FEES
The fees for the license under this Agreement are set forth in the applicable
 Order Form or, if no Order Form exists, in the applicable Technical and
 Financial proposal  issued by Squoring, or, if no proposal exists, then in
 accordance with Squoring current list prices.
```

```
4) USE
(a) Unless otherwise stated in a special agreement, all dissemination or
 commercial exploitation of Squoring Software results is strictly forbidden.
(b) The license granted by this Agreement is a license under which a maximum
 number of active users and projects specified in the Order Form may use the
 Squoring Software.  An "Active User" is a physical user registered in the
 Squoring Software database.  Active Users are not shared among several Squoring
 software databases. A user is active if any activity has been recorded by the
 Squore Server Software in the past 6 months.  Activities include remote project
 creation, viewing of analysis results, and e-mail notification.
(c) The management and regulation of Active Users is managed by the License
 Server Software hosted on the Target hardware designated by the Customer.
(d) Except for continuous integration purpose, it is strictly forbidden to share
 the same Squoring Software login between different physical users.
(e) Customer will ensure that at least one of its employees has completed the
 two days on-site training course "Administrating Squoring software" given by a
 Squoring Software certified trainer, and that such trained employee(s) are the
 people within Customer's organization who are responsible for interactions with
 Squoring on maintenance and support matters.
(f) Customer may make a reasonable number of back-up or archival copies of the
 Software. Customer will reproduce all confidentiality and proprietary notices on
 each of these copies and maintain an accurate record of the location of each of
 these copies.
(g) Customer will not:
. Reverse compile, disassemble, or otherwise reverse engineer any Squoring
 Software, or allow anyone else to do so (except only to the extent such
 prohibition is contrary to applicable law).
. Remove or destroy any proprietary markings or legends or any encrypted license
 keys or similar security devices placed upon or contained in any Squoring
 Software.
. Modify or adapt the Squoring Software or create a derivative work based on or
 incorporate the Squoring Software into or with other software.
. Unless otherwise stated in a special agreement, distribute, sublicense, share,
 display, or in any manner make the Squoring Software available to any third
 party, with or without compensation.
. Use all or any part of the Squoring Software to create other software a
 principal purpose of which is to perform the same or similar functions as, or to
 replace any component of, the Squoring Software.


5.  MAINTENANCE AND SUPPORT
(a) Depending on the type of licenses bought by the Customer, Squoring will
 provide support and maintenance services according to the following schedule:
i. In case of perpetual licenses bought by Customer
. Maintenance fees will be charged in addition to the price of the purchase of
 the Squoring Software licenses. The annual initial amount of maintenance fees
 will be calculated on the basis of a 20% percentage of the net list price of the
 software licenses purchased by the Customer.
. 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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damages and costs finally awarded against Customer in the infringement action,
but only if (i) Customer notifies Squoring promptly upon learning that the claim
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Customer's employees or consultants who require access for Customer's authorized
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the use and non-disclosure restrictions applicable to the Products under this

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the Products may cause irreparable damage to Squoring. If an unauthorized use
or disclosure occurs, Customer will immediately notify Squoring and take, at
Customer's expense, all steps which may be available to recover the Products
and to prevent their subsequent unauthorized use or dissemination. Squoring
agrees to take the same action regarding any information designated in writing
as proprietary which it receives from Customer ("Customer Information").
(c) Limitation. Neither Squoring nor Customer will have any confidentiality
obligation with respect to any portion of the Products or Customer Information
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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.

10. TERMINATION
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.

11. INSPECTION
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 he 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
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This Agreement will bind Customer's successors-in-interest.
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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

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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.
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Redistributed Software     Version    License File
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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
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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
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al

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The "Artistic License"

    Preamble

The intent of this document is to state the conditions under which a
Package may be copied, such that the Copyright Holder maintains some
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the Package in a more-or-less customary fashion, plus the right to make
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    The End

amd

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The following license terms apply to the TJC compiler source
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antlr3

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apache-2.0

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                   Version 2.0, January 2004
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jdom

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*/
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jdom2

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jquery-mobile

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lgpl-2.1

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