Installing and updating VP ENTERPRISE
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Chapter I. Technical prerequisites

1. INTRODUCTION

This document describes the minimum configurations required to install and use VISUAL PLANNING. VISUAL PLANNING is a Java application that works in standalone or network modes and uses a database.

There are several versions of the software available:

■ VISUAL PLANNING ONE for use in standalone mode,
■ VISUAL PLANNING ENTERPRISE for use by multiple users on an Internet or Intranet network,
■ The VPPORTAL module for thin full web or smartphone clients,
■ The VPGO module for thin full smartphone clients.

2. VISUAL PLANNING ENTERPRISE

This version of VISUAL PLANNING is for client / server networks. It requires a server machine and client workstations.

The Workstations

■ Hardware
  ▪ CPU: 2GHz Intel / AMD processor
  ▪ RAM: 1GB (Windows 7), 2GB (all versions of Windows 10), 4GB (MacOS X or higher)
  ▪ Hard drive: 200MB of free disk space
■ Software
  ▪ Java execution environment version 1.7 or 1.8, which can be downloaded here: http://www.oracle.com/technetwork/java/javase/downloads/index.html.

The Server

The server machine configuration shown below is for reference only. It must be adapted to the type of use and the planned number of simultaneous users.

Please contact VISUAL PLANNING support for more information: support@stilog.com.

■ Hardware
  ▪ CPU: 2GHz Intel / AMD processor
  ▪ OS: 64-bit Windows
Installing and updating VP ENTERPRISE

- RAM: 4GB (Windows 7, 10 64-bit, Linux), 8GB (Windows 2008 R2 64-bit, Windows 2012/2012 R2 64-bit, Windows 2016 64-bit)
- Hard drive: 500MB of free disk space

Software
- Database management system (DBMS): MySQL 5.x, Microsoft SQL Server 2008 to 2016, Oracle 9i/10g/11g/12g, MariaDB 10.2, PostGreSQL 9.3.
- The J2EE application server is required for all installations on non-Windows servers, or servers that do not use the VPServer package: Tomcat 7.x and 8.x, JOnAS, JBoss, WebSphere, Weblogic 10.3.

The Network

All points of access to the Internet can access VISUAL PLANNING ENTERPRISE.

The bandwidth required for comfortable use depends on the number of users working on the same connection simultaneously, the way the planners are used (frequency, etc.), the volumes of data, etc.

The minimum bandwidth required per user is 256kbit/s.

Maximum latency of 100ms.

ADSL access to the planners is recommended.

3. VPGO

The VPGO module is an add-on that requires the installation of VISUAL PLANNING ENTERPRISE.

It requires a smartphone or tablet type terminal (Google Android, Apple iOS).

Android 5.0 or iOS 8.0 or higher must be installed on the terminal.
Chapter II. Visual Planning Application Architecture

1. INTRODUCTION

This document describes the architecture of VPServer application for Visual Planning 6 Enterprise. This document does not describe the installation procedure for VPServer. To install, please refer to the installation guide available at https://www.visual-planning.com/en/documentation.

VPServer is the common name of a package that contains:

- A J2EE application server, limited to the web container, JSP container and Servlet container
- VPlanning, the pre-deployed Visual Planning client/server application of the Visual Planning software solution.

The J2EE server used by VPServer is based on the "Jakarta Tomcat version 8.5 Embedded" engine and is packaged for a greater ease of administration. The Java Virtual Machine used by VPServer is included directly in the package. There is no interaction with any other existing JVM on the server. The Java version used is JRE 8U121.

The VPServer package was designed to ease the deployment of Visual Planning on Microsoft servers that have no available instance of a J2EE application server. However, as it is a Java web application, VPlanning may also be deployed directly on any existing J2EE application server that is running Java 1.7 or above, such as Tomcat, JBoss, Jonas, Weblogic or Websphere.

2. ARCHITECTURE

The VPlanning application is a n-tier architecture web application. The VPlanning server consists of a set of "servlets". The VPlanning client uses Java’s reference implementation, "Java Web Start" (www.java.com). This implementation allows a client application to run outside the Web browser, mimicking an applet by using the JNLP protocol (Java Network Launching Protocol). VPlanning can therefore be considered a "rich" client. (https://docs.oracle.com/javase/tutorial/deployment/deploymentInDepth/jnlp.html)
Communication between the VPServer server and client workstations uses the HTTP protocol.

The port used by default is port 80. It is possible to use any other port of your choice if needed. The data flow between clients and the server is encrypted (proprietary Blowfish encryption).

VPServer communicates with the database management system via the TCP/IP protocol using the applicable port. (1433 for SQL Server, 1521 for ORACLE and 3306 for MySQL). Those parameters can be modified as well.

VPServer uses its own built-in authentication system. This system can be interfaced with a centralized external authentication system such as LDAP, SSO or any other, in case Visual Planning is integrated in an enterprise-scale IT environment.
4. APPLICATION BRICKS

B1 Brick

a: "VISUAL PLANNING" rich client

The user connects from his workstation to the VPServer server using a W3C browser (IEExplorer, Mozilla Firefox, Opera, Safari ...). The client application starts through the JavaWebStart module (java 1.7)
b: "VP Portal" web client

The user connects from his workstation to the VPServer server using a W3C browser (IEExplorer, Mozilla Firefox, Opera, Safari ...).

c: "VPGO" mobile client

The user connects from a smartphone using the VPGO mobile application, available on Apple & Google app stores (Android 5 minimum, iOS 8 minimum).

B2 Brick: J2EE Server

The J2EE server is based on the TOMCAT 8.5 engine with JDK 1.7 or above. It is pre-set to receive the VPlanning application.

B3 Brick: VPlanning Application

The VPlanning application is the server part of Visual Planning and is pre-deployed on the J2EE server.

B4 Brick: Database Management System

(Can be MySQL 5.6 to 5.7, or Microsoft SQL Server 2008 to 2016, or Oracle 9i and above, or PostgreSQL 9.3, or MariaDB 10.1)

The DBMS server stores data of planners created and managed by VPlanning. The database is solely used for storage. The application does not use any type of trigger routine or stored procedure. Only the application server connects to the DBMS server.

B5 Brick: External Authentication Server (optional)

The Visual Planning Application uses its own management system to authenticate users. However, it is possible to shift the authentication system to external solutions such as LDAP (OpenLDAP, Lotus, Active Directory...) or SSO.
Chapter III. Installing VP ENTERPRISE

1. INTRODUCTION

VISUAL PLANNING ENTERPRISE is a client / server network version with an n-tier architecture of the VISUAL PLANNING software.

Therefore, the installation is made up of several parts:

- Installation and/or configuration of the DBMS to be used with VISUAL PLANNING,
- Installation of the application server,
- Connection of the application server to the DBMS,
- Activation of the licenses.

For the procedure for minor updates, refer to Minor updates of VISUAL PLANNING ENTERPRISE.

2. TECHNICAL PREREQUISITES

Check that the following technical prerequisites are met before starting the installation of VISUAL PLANNING.

See Technical prerequisites

3. INSTALLING THE DBMS

Check that the selected DBMS is installed and working before starting the installation of VISUAL PLANNING.

The DBMS settings are required during the installation procedure.

If there is no DBMS on the server, install the version of MySQL supplied by STILOG I.S.T.

MySQL

There are two ways to install MySQL:

- using the version of MySQL provided,
- from an existing MySQL server.

Using the version of MySQL provided

Start by running the mysql.exe executable at the address provided by STILOG.
Enter the hard drive where the MySQL directory will be created (e.g. C:\ or D:\).

Click Extract to create the D:\mysql directory.

Once the extraction has finished, go to d:\msql\bin and execute the file “winmysqladmin.exe”.

The window shown below opens:

Click Execute to install and start the MySQL service.

Open the Windows Task Manager and check that the mysqld.exe process is running to make sure that the MySQL service has started.

If the line above does not appear, MySQL has not started.

In this case, contact VISUAL PLANNING support at support@stilog.com.
From an existing MySQL server

If a version 5.x or higher MySQL server is already installed, you must create a MySQL user dedicated to VISUAL PLANNING (e.g., `vpuser`).

Use the script below:

```sql
mysql> CREATE USER 'vpuser'@'%' IDENTIFIED BY 'vpuser_password';
mysql> GRANT ALL PRIVILEGES ON *.* TO 'vpuser'@'%' WITH GRANT OPTION;
```

Replace `vpuser_password` with the real password of `vpuser`.

**Warning:**

Remember this password, because you will need it during the installation procedure and for as long as VISUAL PLANNING is used on your server.

**SQLSERVER**

VISUAL PLANNING is only compatible with instances of SQL Server in **mixed** authentication mode.

If SQL Server is in **Windows** authentication mode, then you must change it.

Proceed as follows:

- Start the **Enterprise Manager** application,
- Right-click on the name of your server,
- Select the **Properties** option in the context-sensitive menu,
- Select the **Security** tab in the dialog box that opens,
- Tick the **SQL Server** and **Windows** authentication modes,
- Click **OK** to confirm the change.

Now create an SQL Server user dedicated to VISUAL PLANNING (e.g., `vpuser`).

Proceed as follows:

- Start the **Enterprise Manager** application,
- Left-click on the name of your server,
- Double-click on the Security folder,
- Right-click on Login,
- Select the **New login** option in the context-sensitive menu.

The following dialog box opens:
On the **General** tab, proceed as follows:

- Enter the **User name** (e.g.: vpuser),
- Tick the SQL Server Authentication option.

On the **Server Roles** tab:

- Tick the Database creator role.

Click **OK** to confirm.

The dedicated user name and the password will be required when installing the software. This information is necessary before starting the installation procedure.

If the SQL Server version is higher than SQL Server 2005, check that the TCP/IP protocol of SQL Server is activated.

Start the SQL Server Configuration Manager and activate TCP/IP.
An instance must be reserved for VISUAL PLANNING (e.g., VPSID).

This instance may exist already, but it is preferable to create one for VISUAL PLANNING.

The disk space values shown below are for reference only. They will be adjusted according to the way in which VISUAL PLANNING is used.

<table>
<thead>
<tr>
<th>Objet</th>
<th>Nom</th>
<th>Taille</th>
</tr>
</thead>
<tbody>
<tr>
<td>TableSpace</td>
<td>USERS</td>
<td>700 Mo</td>
</tr>
<tr>
<td>TableSpace</td>
<td>INDEX</td>
<td>500 Mo</td>
</tr>
<tr>
<td>TableSpace</td>
<td>SYSTEM</td>
<td>500 Mo</td>
</tr>
<tr>
<td>TableSpace</td>
<td>TEMP</td>
<td>200 Mo</td>
</tr>
</tbody>
</table>

Then create a user dedicated to VISUAL PLANNING under this instance (e.g., VISUALPLANNING) according to the script shown below:

```
Sqlplus system/<passwdSystem>@VPSID
CREATE USER <userName> IDENTIFIED BY <passwd>
GRANT CONNECT TO <userName>
GRANT CREATE SESSION TO <userName> WITH ADMIN OPTION
GRANT CREATE TABLE TO <userName> WITH ADMIN OPTION
GRANT UNLIMITED TABLESPACE TO <userName> WITH ADMIN OPTION
GRANT CREATE USER TO <userName>
```
GRANT DROP USER TO <userName>

If the Oracle user does not obey this script, VISUAL PLANNING will not function properly.

The names of the **tablespaces** of the instance for VISUAL PLANNING and the dedicated **user name** and **password** are required when installing the software. This information is necessary before starting the installation procedure.

### 4. INSTALLING THE APPLICATION SERVER

VISUAL PLANNING ENTERPRISE 6 can be installed:

- using the complete vp6enterprise package,
- using an existing J2EE server.

#### Installing with the complete package

Start by executing the package **vp6enterprise.exe**.

The following window appears:

![Visual Planning Enterprise Setup](image)

Click **Next** to continue.

The following window displays the license contract.
Read the terms of use of the license carefully. The installation procedure will be interrupted if you refuse the terms of use.

Click **Next** to continue.
It is preferable to use the installation path proposed by default, especially if you are using Microsoft Windows 7, 8 or 2008. If you have to change the directory, please keep the directory name “VPServer Enterprise 6”.

Click **Next** to continue.

If the information in this window is not correct, click “**Back**” to change it.

Click **Next** to continue.
Installing and updating
VP ENTERPRISE

The installer then tries to check whether there is already a web service installed on the server (use of port 80).

If there is, the following window appears.
If port 81 is already used, enter another port (e.g., 82), etc.

This window only closes if the proposed port N° is not already used by another application.

Click **Next** to continue.

Then, specify whether there is already an installation of VISUAL PLANNING on the server.

If this is not the case, select **No**, then **Next**.

If there is already an installation, select **Yes** and click **Next**.
In this case, enter the location of this installation and click **Next**.

In both cases, the following window opens:

Click **Finish** to complete the installation.
To configure and activate the application, go to **Start > All programs > VPServer Enterprise 6.**

Click **VP Application Portal** to open the configuration page.

**Installing on an existing J2EE application server**

The software is installed by deploying the **vplanning.war** file that you can request by sending an e-mail to support@stilog.com.

The deployment procedure described below is for the Java Tomcat 5.2 application server.

If other servers, such as JBoss or JOnAS are used, refer to their user manual for the installation of the WAR file.

- The JBoss manual: [http://www.jboss.org/jbossportal/docs](http://www.jboss.org/jbossportal/docs)

First, go to the Tomcat server portal.
Installing and updating VP ENTERPRISE

Click on Tomcat Manager.

Then:

- go to the WAR file to deploy section,
- select the file vplanning.war,
- then click Deploy to start the deployment.

Once the deployment is confirmed as deployed, open your web browser and enter the address:

http://VP_server:808/vplanning/

where VP_server is the DNS name of the server machine and 808 is the port used by the Tomcat J2EE server.
These settings must be adjusted to the installation.

5. Connecting to the DBMS

To connect VISUAL PLANNING to the installed DBMS, open the VISUAL PLANNING portal.

In Microsoft Windows, go to Start > All Programs > VPServer Enterprise 6 > VP application portal.

The first time you open this portal, the following page appears:

Choose the server language and click **Next**.

The DBMS connection configuration page opens.

Select the DBMS. The following options are available:

- **SQL Server**
- **MySQL**
- **Oracle**
- **MS Access**
- **PostgreSQL**
- **MariaDB**

**SQL Server**

When using Microsoft SQL Server, select **SQL Server** in the list.
Installing and updating VP ENTERPRISE

Click Next to continue.

Then enter the information about the SQL Server that has already been installed (see Installing the DBMS):

- **Server Name / IP**: to use a particular instance name for VISUAL PLANNING, add it with the IP address of the server (e.g., 127.0.0.1\sqlexpress) where sqlexpress is the name of the instance,
- **Port**: The default value is 1433. If a different port is used, replace 1433 with the value of the port,
- **User**: see Installing the DBMS
- **Password**: see Installing the DBMS

Click Next to continue.
MySQL

When using MySQL, select MySQL in the list.

Click Next to continue.

Then enter the information about the MySQL server that has already been installed (see Installing the DBMS):

- **Server name / IP**: if the version of MySQL supplied by STILOG I.S.T. is used, leave the server address `127.0.0.1`. Otherwise, enter the IP address of the MySQL server.
- **Port**: The default value is 3306. If a different port is used, replace 3306 with the value of the port,
- **User**: see Installing the DBMS,
- **Password**: see Installing the DBMS.
Click **Next** to continue.

**Oracle**

When using Oracle, select **Oracle** in the list.

![Database connection configuration (1)](image1)

Click **Next** to continue.

![Database connection configuration (2)](image2)
Then enter the information about the Oracle server that has already been installed (see Installing the DBMS):

To avoid problems with uppercase and lowercase, enter all the information (except the password) in UPPERCASE.

- **Server name / IP**: see Installing the DBMS,
- **Port**: see Installing the DBMS,
- **User**: see Installing the DBMS,
- **Password**: see Installing the DBMS.

Click **Next** to continue.

**MS Access**

Using Microsoft Access is not recommended for configurations with more than five users.

When using MS Access, select **MS Access** in the list.

Click **Next** to continue.
Then enter the information about MS Access that has already been installed (see Installing the DBMS):

- **Directory**: the default value is `{vp.home}/msadatas`, where `{vp.home}` is the root of the VISUAL PLANNING installation. If the data is stored in another director, change this value accordingly.

  Click **Next** to continue.

**PostgreSQL**

When using PostgreSQL, select **PostgreSQL** in the list.

Click **Next** to continue.
Installing and updating VP ENTERPRISE

Then enter the information about PostgreSQL that has already been installed (see Installing the DBMS):

- **Server name / IP**: see Installing the DBMS,
- **Port**: The default value is 5432. If a different port is used, replace 5432 with the value of the port,
- **User**: see Installing the DBMS,
- **Password**: see Installing the DBMS

Click **Next** to continue.

**MariaDB**

When using MariaDB, select **MariaDB** in the list.

Click **Next** to continue.
Then enter the information about the MariaDB server that has already been installed (see Installing the DBMS):

- **Server name / IP**: see Installing the DBMS.
- **Port**: The default value is 3306. If a different port is used, replace 3306 with the value of the port,
- **User**: see Installing the DBMS,
- **Password**: see Installing the DBMS.

Click **Next** to continue.

### 6. ACTIVATING THE LICENSES

The following window opens:
Installing and updating VP ENTERPRISE

■ Application URL: check that the URL is correct. The licenses are activated using this URL. Therefore, if this URL is modified, the licenses must be re-activated.

■ VP serial number: this is the VISUAL PLANNING serial number. STILOG I.S.T. provides this number on delivery.

■ VPViewer serial number: this is the serial number of the viewer licenses. This number is also provided on delivery.

Click Next to complete the action.
Installing and updating VP ENTERPRISE

Start the ADMIN CENTER to activate VISUAL PLANNING.

Correct configuration

If the configuration is OK, the following screen opens:

Click **OK** directly, because the **admin** user does not have a password by default.

The ADMIN CENTER then prompts you to enter the activation key of the license.

Select **Get the activation key automatically via Internet**, then **OK**.

If the license cannot be activated by Internet, contact support:

- by telephone on +33 (0)1 47 29 29 66 (Europe) / +1 (855) 589-9800 Ext. 2 (USA)
- or by e-mail at support@stilog.com
Incorrect configuration

After initializing Java and accepting the launch of the application, if the ADMIN CENTER displays the following message:

![Error message](image)

The DBMS configuration is incorrect.

In this case, open a web browser and view the log files at the following address:

http://VP_server/vplanning/logs.jsp

Where VP_server is the address of the VISUAL PLANNING installation.

Once the cause of the problem has been identified, repair the configuration by opening the following page:

http://VP_server/vplanning/activationen.jsp

Once the configuration is OK, complete the activation procedure. (See Correct configuration)
Chapter IV. Major updates of VP ENTERPRISE

1. INTRODUCTION

This document describes the procedure for major updates of VISUAL PLANNING ENTERPRISE. The procedure is different, depending on the installed version: 4.X or 5.X.

This procedure only applies to major updates. This document does not cover minor updates or builds (see Minor updates of VP ENTERPRISE).

This document does not describe major updates of the ONE versions.

2. PREREQUISITES

The following prerequisites are essential:

■ a VISUAL PLANNING 6 license number
■ an infrastructure compatible with VISUAL PLANNING 6 (see Technical prerequisites)

3. MIGRATING FROM 5.X to 6

It is possible to migrate from a 5.X version to VISUAL PLANNING ENTERPRISE 6:

■ using the complete vp6enterprise package,
■ using an existing J2EE server.

Migrating with the complete package

Whenever possible, it is strongly recommended to perform migration tests in a test environment, before proceeding with the migration of the live environment.

The test environment must never use the same database server as the live environment.

Proceed in the following order:

■ Get a VISUAL PLANNING 6 license number
■ Backup all the planners currently in use in VPS format
■ Stop the vpserver service
■ Proceed with a normal installation of version 6 of VISUAL PLANNING ENTERPRISE.
  ▪ In response to the question “Is this installation an update of a preceding version of VP ENTERPRISE installed on this server?”
Installing and updating VP ENTERPRISE

- Select Yes.

see Installing VISUAL PLANNING ENTERPRISE

- Uninstall the preceding version and send the uninstall code to our technical support department: support@stilog.com

See Uninstalling VISUAL PLANNING ENTERPRISE

Migrating from an existing J2EE server

- Backup all the planners currently in use in VPS format
- Stop the VISUAL PLANNING service.
- Copy the files / directories shown below into a temporary directory

```
\webapps\vplanning\install.properties
\webapps\vplanning\configuration
\webapps\vplanning\documents
\webapps\vplanning\publipost
\webapps\vplanning\modules
\webapps\vplanning\services
```
- Unmount the WAR or EAR of the preceding version of VP.
- Mount the new WAR or EAR of version 6.
- Put the content of the temporary directory in 2- in \webapps\vplanning.
- Start the version 6 application.
- Launch the page /activationen.jsp as usual. All the configuration data of the old version is retrieved.

4. MIGRATING FROM 4.X to 6

Note that there are a number of functional differences between the 4.X versions and version 6.

For example, all the permissions of the planners must be reconfigured.

Proceed in the following order:

- Check that the build of the version 4.X is at least in “11mmdd” (e.g., build 151125)
- Backup all the planners currently in use in VPS format. It is not necessary to backup the GDU.
■ Install version 6.
■ Import all the VPS files of the 4.X planners.
■ Create or import the users.
■ Configure the permissions.
■ Uninstall the preceding version and send the uninstall code to our technical support department: support@stilog.com
Chapter V. Minor updates of VP ENTERPRISE

1. DEFINITION

This document describes the procedure for minor updates or builds of VISUAL PLANNING ENTERPRISE.

This document does not cover major updates. To proceed with a major update, go to: Major updates of VP ENTERPRISE

Builds are optional and are only available if maintenance is up to date.

To update VISUAL PLANNING, the initial installation must have already been completed. See Installing VISUAL PLANNING ENTERPRISE

2. PREREQUISITES

- Version 6 of the VISUAL PLANNING ENTERPRISE is installed (for earlier versions: contact@stilog.com)
- The software is open on a workstation.

3. DOWNLOADS

To download the update, open a web browser and go to the VISUAL PLANNING updates page.
Enter the serial number. This number is also provided on your VISUAL PLANNING delivery note.

Download the file. The format of the file must be ip_171206.vpu.

Copy the file over to the Update directory on the server to be updated.

Example: C:/stilog/VP Enterprise 6/update

4. INSTALLATION

To install the update, stop the vpserver6 service using the server’s service manager.
Check that the VPU file is in the **Update** directory of the server to be updated.

Example : `C:/stilog/VP Enterprise 6/update`

Then, simply restart the **vpserver6** service using the service manager on your server.
Chapter VI. Uninstalling VP ENTERPRISE

1. INTRODUCTION

This document describes the procedure to uninstall VISUAL PLANNING ENTERPRISE.

2. Uninstalling VP ENTERPRISE

To uninstall the ENTERPRISE version of VISUAL PLANNING, go to Start > All programs > VPServer Enterprise 6.

Click Uninstall Visual Planning Enterprise to open the uninstall window.

The following window appears:
Click **Next** to continue.

The following window displays the **uninstall code**. Keep this code in a safe place.

Send the uninstall code to our technical support department: [support@stilog.com](mailto:support@stilog.com)
Click **Next** to continue.

Click **Finish** to complete the uninstall procedure.