



# Gespage

## Technical prerequisites



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# 1. Presentation

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This document aims at describing Gespage technical prerequisites for installation purpose.

If you wish a detailed description of all the features provided by the solution, we recommend that you refer to Gespage administration manual.

## 1.1 Introduction

Gespage is an application for the management of MFPs. It provides features such secure print release, scan flows, mobile printing, accounting, and payment. It can manage printers installed on one or several print servers or on workstations.

Gespage On Premise software must be installed on a Windows or Linux server. It can be installed on a print server, i.e. a server that hosts print queues and shares them on the network.

The Web architecture of Gespage is made accessible to the administrator via the network with a web browser.

## 1.2 Architecture

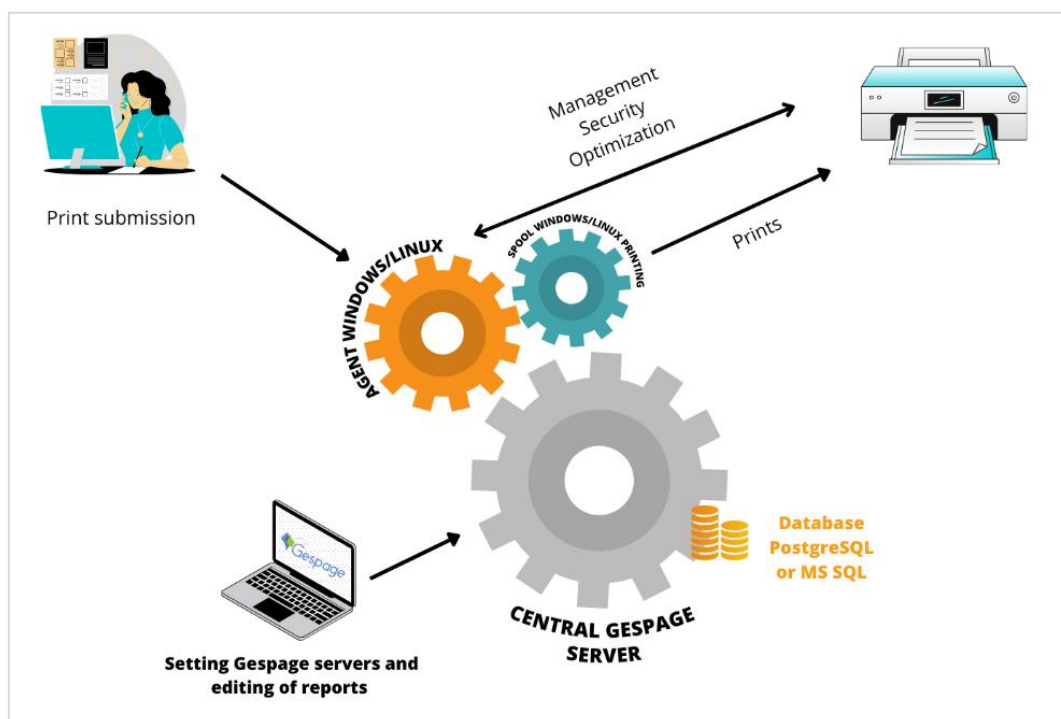
### 1.2.1 Basic Configuration

Gespage server is divided in 3 main services:

- **Gespage Service** [*Gespage Application server*]: manages the printing logic, the users' accounts, and the Web interface, the management of the eTerminals or peripherals.
- **Gespage Agent Service** [*Gespage Print Service*]: manages Windows or Linux print queues.
- **Gespage Mobile Service** [*Gespage Mobile Service*]: Manages Gespage Mobile and advanced scanning.

By default, it is installed with an autonomous PostgreSQL 15.2 database managed by its own service.

The software may be installed on a single server used as print server. The server hosting Gespage service may also be separated from the server hosting print queues (on which only the agent service is to install).



## 1.2.2 Multi-sites configuration

There are specific functions for managing multiple sites with a limited network link (Gespage Remote, Tracker Agent). Please refer to Gespage administration manual about their architecture.

## 2. Prerequisites

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### 2.1 Server

The prerequisites concerning the server is dependent on the size of the fleet of printers and on the Gespage functions to be used (eTerminal, Gespage mobile).

#### 2.1.1 Windows Server

##### 2.1.1.1 Operating system

It is recommended to install the Windows server hosting the print queues. Gespage is by default installed on the same server, but it can also be hosted on a separate Windows server:

- Windows Server 2022/ 64 bits
- Windows Server 2019 / 64bits
- Windows Server 2016 / 64bits

For small configurations (less than 10 workstations), it may be acceptable to host the print server on a Windows station:

- Windows 11 (64 bits)
- Windows 10 (64 bits)

### 2.1.1.2 Physical configuration

Gespage server physical requirements are as follows:

- Less than 10 printers: Minimum 8 GB of RAM.
- From 10 to 50 printers: Minimum 8 GB of RAM (12 GB minimum if using Gespage mobile).
- From 50 to 100 printers: Minimum 12 GB of RAM.
- More than 100 printers: Minimum 16 GB of RAM.

**ATTENTION!** The maximum number of printers per print server depends on the limitations of the Windows print servers and on the configuration (drivers, number of workstations ...). We do not recommend more than 300 print queues per print server.

Installing the software requires 5 GB of disk space available. The total size of a print server disk space depends on the documents printed (time for document retention, size of spool files).

The web interface of administration is compatible with browsers Edge, Firefox, and Chrome.

## 2.1.2 Linux Server

Gespage application has to be installed on following Linux distributions:

- Debian 11
- Ubuntu 22.04

Prerequisites depend on the size of the configuration.

Gespage server physical requirements are as follows:

- Less than 10 printers: Minimum 8 GB of RAM.
- From 10 to 50 printers: Minimum 8 GB of RAM (12 GB minimum if using Gespage mobile).
- From 50 to 100 printers: Minimum 12 GB of RAM.
- More than 100 printers: Minimum 16 GB of RAM.

Installing the software requires 5 GB of disk space available. The total size of a print server disk space depends on the documents printed (time for document retention, size of spool files).

The web interface of administration is compatible with browsers Edge, Firefox, and Chrome.

## 2.1.3 Database

By default, Gespage uses an autonomous PostgreSQL database installed by Gespage installer.

The use of an external database may be configured. The supported databases are:

- PostgreSQL: 15.2
- Microsoft SQL server: Minimum version: 2016.

## 2.1.4 Network flows

Gespage software requires to open network flows which depend on the configuration.

Please refer to Gespage administration and eTerminal manuals for further information.

## 2.1.5 Print queues

### 2.1.5.1 Print2me

Virtual Print2me print queues are used to allow secure printing. It requires that all compatible printers support a common print driver.

### 2.1.5.2 Print accounting

Gespage parser allows the analysis of spool files of the following languages:

- PostScript
- PCL 5/6
- XPS.

For other print languages, Gespage relies on the information provided by the print spooler (only on Windows).

**ATTENTION!** Print flows from ERP systems must be first validated.

### 2.1.5.3 Microsoft Universal Print

Gespage is compatible with Microsoft Universal Print (please refer to the Gespage manual for detailed functionalities).

Microsoft Universal Print requires subscription to the corresponding Microsoft service (please refer to Microsoft terms for details).

## 2.2 User accounts

Prior to installation, it is important to define how the user accounts will be created.

Users can be created by using several methods:

- By synchronization with a LDAP directory (AD, Azure, OpenLDAP)
- By CSV import
- By an administrator on the web interface.
- Dynamically at the first authentication from a Popup window.
- By an end-user in the user interface.

Only the case of a configuration with a payment station does not require the creation of accounts in Gespage.

### 2.2.1 LDAP Synchronization

Gespage may synchronize its database of users to one or several LDAP directories of AD, Azure or OpenLDAP type.

Some specific fields can be defined to be synchronized from the directory (such as the card number or the print code).

Synchronized accounts are created in Gespage database. Gespage connects to the directory at synchronizations or validation of a user password.

## 2.2.2 CSV Import

If no directory is available, users can be created from a CSV file.

The format of the CSV file must be in Gespage standard. The format of this file is dependent on the parameters to be initialized by the CSV import.

Please contact Gespage support to get the file format that matches your needs and prepare it before installation.

## 2.3 Client Stations

### 2.3.1 Print submission

By default, users printing to the shared print queues are identified by the login of their session.

Without a print server, Gespage agent must be installed on the users' workstations to manage the print jobs through Gespage. This Gespage agent will connect to the Gespage application server.

In the following cases, the use of GespagePopup software is required in order to identify the owners of the prints:

- Printing from a shared station without a distinct login per user.
- Login of the users different of the accounts defined in Gespage.

### 2.3.2 Gespage Popup

The Popup can be installed to identify the users printing or to notify them with information about their prints.

This is an application that can be installed on Windows, Mac, or Linux. The application requires Java (minimum 1.8).

## 2.4 Gespage features

### 2.4.1 Gespage Mobile

Gespage mobile printing is available through:

- Web printing
- Email printing

#### **Web printing**

Web printing is using *Gespage user interface*. Please refer to the dedicated chapter.

#### **Email printing**

Email printing requires to create public mailboxes dedicated to receiving the documents to be printed (if all printers are compatible, only one mailbox is required)

## 2.4.2 Gespage user interface

The user interface is a public web page provided to end users:

- To submit print job (web printing)
- To access their account information
- To top-up their credit (through web payment option)

Gespage user interface is available only for devices with a network access to Gespage server.

If the service is supplied on Internet, the server must have a public IP. In this case, the DNS name of the server should also be public (for example, print.mydomain.com).

It is recommended to purchase a SSL certificate for the access to the website of mobile printing (to avoid security alerts of Internet browsers). The installation of the certificate is carried out by Gespage support.

## 2.4.3 Gespage scan

If you want to setup OCR processing in Gespage scans, Tesseract 3.05.01 must be installed on Gespage server (please refer to the Gespage manual for installation advice).

## 2.4.4 Web payment

### Opening of the merchant account

You have to open a merchant account to a payment gateway compatible with Gespage (*Ingenico ePayments* or *Paypal*).

Thank you to contact the following organizations to open a merchant account:

- **Worldline (previously Ingenico e-Commerce Solutions SAS)**  
<https://worldline.com/en/home/solutions/online-payments/wl-online-payments.html>.
- **PayPal**  
<https://www.paypal.com/fr/business>

Opening this merchant account requires the subscription of a banking contract with an acquiring partner. This contract defines the costs charged by your bank (% of turnover, cost per transaction ...).

The opening of these accounts may take several weeks.

### Gespage configuration

Web payment is using *Gespage user interface*. Please refer to the dedicated chapter.

In addition, in the case of *Paypal*, it is mandatory to have a public access from interface with a valid certificate.