System Requirements

Cash Center Software
Pecunia Version 6

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1. Foreword

Pecunia consists of various modules that are offered both as rental licenses and as purchase licenses. Any hardware, including workstations and servers, referred to in this document must be procured by the user. Likewise, all system software packages must be procured by the user. These include Windows operating systems for servers and workstations, Microsoft SQL Server, Apache, etc.

The use of other operating systems, database servers, or a system configuration below the stated minimum requirements may lead to undesirable side effects and errors. Please note that in such cases no support will be provided.

If you need assistance in selecting the appropriate system requirements, please contact the staff of IT Kompetenz Gesellschaft für innovative Informationstechnologie mbH.

The currently valid system requirements can be requested from IT Kompetenz Gesellschaft für innovative Informationstechnologie mbH at any time.

2. Interface for Database Data Access

Under Windows, Pecunia accesses a Microsoft SQL Server database via Microsoft SQL Native Client. The drivers are not integrated into Windows, but are generally provided as standard by Finanz Informatik der Sparkassen. No additional software needs to be installed on the workstations, neither drivers nor Pecunia itself.

The speed of each workstation's connection to the Finanz Informatik network should be taken into account. If the connection is slow, it may be advisable to install the Pecunia application locally on the computers when using FAT clients.

3. Workstation Operating System

The following operating systems are supported:

- Windows 10
- Windows 11
- Windows Terminal Server
- Citrix

In connection with the use of counting machines with a serial interface, please note that FAT clients are required for this purpose. The use of built-in expansion cards with serial interfaces has not proven effective in practice. We recommend installing specific models of USB-to-serial converters.

4. Server

4.1. Database Server

The following database servers are supported:

- MS-SQL Server Version 2019 oder höher

If an MS SQL Server is already available, the Pecunia database and, if applicable, additional databases for extended services can also be operated there. A dedicated server is not necessary.

4.2. File Server

The Pecunia program files must be accessible and readable on the network. In addition, configuration files and report definitions are stored here. Approximately 200 MB of disk space is required.

The Pecunia Job Service is available for the automatic creation and dispatch of reports, files, etc. If the Pecunia Job Service is to be used, the Pecunia Export Service must be installed and run on a Windows Server version 2012 or later.

4.3. Web Server

For webAmis (order entry in the browser), an additional web server is required. Apache version 2.4 or later is required for this, either under Linux or Windows. It is possible to share an existing web server as a virtual host. At least 8 GB of RAM is required. The associated REST data transport service must be installed under NodeJS.

5. System Configuration

The following minimum system configuration is required for the server: for operation with up to 10 workstations, approximately 10 GB of additional data volume per year should be expected. At least 8 GB of RAM should be available for the database.

We recommend an initial database size of 100 GB so that no database expansion is required during the first years of use.

6. Supported Peripheral Devices

6.1. Counting Machines

Machine-specific serial or USB connection cables are required to connect a counting machine to a workstation. The user is responsible for providing the connection cables. The Pecunia software contains a library of counting machine drivers.

The following banknote and coin counting machines can be connected to the Pecunia Cash Center Software (as of 07/2024):

Banknote Counting Machines

Manufacturer	**Device Name**
Cummins Allison	JetScan
G & D	C2
Glory	GFR-220 / GFS-110
	GFS-220
	UW-F
Hitachi	iHunter 110
Hyundai	MIB 9 Printer
NGZ	Newton 3/4/V/F
ScanCoin	SC8200

Banknote Counting Machines (Large-Volume Counting Technology)

Manufacturer	**Device Name**
G & D	BPS C4 / C5
G & D	BPS M5 / M7

Coin Counting Machines

Manufacturer	Device Name
BS Banktechnik	CS311
CT Coin	Zebra CS301
Cummins Allison	JetSort
Glory	CS 3550 (Reis CC3550)
	Mach 9 Wave
NGZ	Q12
ProCoin	Prc420/200 (EvoSort)
ScanCoin	ICP-Active 9/SC4000
	SC4000
	Contovit S2
	CDT1
Standard Reis	CC1302
	CC3515
	CC3550

6.2. Video Systems

Video-specific serial or USB connection cables are required to connect a video system to a counting workstation. The user is responsible for providing the connection cables.

The following video systems can be connected to the Pecunia Cash Center Software (as of 08/2023):

- Geutebrück GCore
- MAKU
- TimeLine Videosysteme

6.3. Keyboard Scanners

To simplify the capture of safebag or seal numbers in Pecunia, a barcode scanner can be used. Procurement is the responsibility of the client.

The connection of standard scanners as alternative keyboard input has so far proven to be unproblematic. Recommended examples include scanners from Datalogic (models Gryphon I GM410X and Gryphon I GM4102 (wireless) and Gryphon I GD4132 (corded)).

6.4. Android-Based Scanners

For the use of the software products

- MobiTour
- MobiTick

IT Kompetenz Gesellschaft für innovative Informationstechnologie mbH provides support for these products under the system requirements listed below.

The use of other operating systems, database servers, or a system configuration below the stated minimum requirements may lead to undesirable side effects and errors. Please note that in such cases no support will be provided.

6.4.1. MobiTour App / MobiTick App

The apps were developed exclusively for Android operating systems. The procurement of hardware and accessories is the responsibility of the user. The user is required to keep the operating system, including certificates, up to date with current technical standards.

Hardware

The hardware listed below is approved for use with MobiTick and MobiTour in combination with the specified Android operating system version.

Functionality and support for MobiTour and MobiTick are guaranteed only if one of the approved devices listed below is used and the operating system, including certificates, is kept up to date with current technical standards.

Scanner	Android Version	Image Reference
Datalogic Memor 10 / 11	from 8.x	
Panasonic FZ-N1	from 8.x	

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Scanner	Android Version	Image Reference
Zebra TC 26	from 8.x	
Chainway C66	from 11.x	

If you have any questions regarding the approval of additional hardware, please contact our support team.

6.5. Printers

6.5.1. A4 Printers

All A4 printers with Windows drivers can be connected to Pecunia. The printers can either be connected locally to the workstation or set up as network printers.

6.5.2. Label Printers

All label printers with Windows drivers are supported and can be used with the software.

7. Communication

Optionally, ordering and pre-notification of cash with the Bundesbank is possible using the Pecunia CashEDI module. If this module is to be used, network access is required from the Pecunia workstation on which the CashEDI interface runs to the Bundesbank extranet (https://extranet.bundesbank.de/FT).

8. ICC Connector

The ICC Connector serves as the interface between the ICC and Centurio/Pecunia.
Data is exchanged in both directions. An HTTP/HTTPS connection is used for communication between the ICC Connector and ICC.

9. Electronic Invoice

An e-invoice represents invoice content in a structured, machine-readable XML data record instead of on paper or in an image file such as PDF.

This ensures that the information issued by the invoice sender in this form can be transmitted and received electronically, and can then be processed automatically without media disruption and made available for payment.

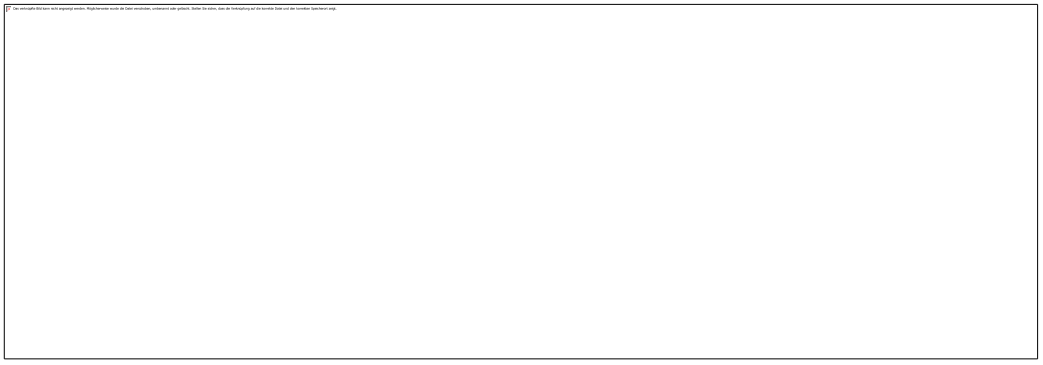
With the ZUGFeRD option (acronym for Zentraler User Guide des Forums elektronische Rechnung Deutschland), as with the X-Rechnung, an XML file is created; however, it is attached to the PDF, with this PDF being generated in the standard format PDF/A-3B according to ISO standard ISO 19005-3.

A prerequisite for using ZUGFeRD with Fakturio is the use of GhostScript.
GhostScript is a free interpreter for the page description language PostScript (PS) and the Portable Document Format (PDF). GhostScript provides a programming interface with functions for displaying and printing PostScript and PDF content.

For GhostScript, the files gswin64.exe, gsdll64.dll and gsdll64.lib (for 64-bit systems), or otherwise gswin32.exe, gsdll32.dll and gsdll32.lib (for 32-bit systems), must be available.

You may choose the directory in which these files are stored.

To use the format effectively, you must enter the correct path to your gswin32c.exe or gswin64c.exe in the program call line of the file CreateZUGFeRD.BAT in the ZUGFeRD folder, which is located under BIN in your Fakturio directory (see image):



For the exact use of the ZUGFeRD format, please refer to the current Fakturio manual from version 3.13 onward.