

Pier

Delivery Specification and Third-Party Components

Document ID	IM.PIER.INT.05
Document version	1.0
Date of issue	2026-10-06
Applies to	Pier 0.3.1
Language	English
Publisher	iMobile

Contents

- 1. Product identification 3
- 2. Delivery set 3
 - 2.1. Contents 3
 - 2.2. Method of delivery 3
 - 2.3. Documentation 4
- 3. Operating environment 4
 - 3.1. Supported platforms 4
 - 3.2. Hardware and software requirements 4
- 4. Licensing 4
 - 4.1. Editions and terms of use 4
 - 4.2. Activation 5
 - 4.3. Updates 5
- 5. Interface languages 5
- 6. Third-party components 5
- 7. Known limitations 6

About this document

This document defines what is delivered with Pier version 0.3.1, the environment the product requires, the licensing terms in functional outline and the third-party software components the product contains.

Prices, delivery dates and the parties' details are not part of this document; they are set in the contract.

1. Product identification

Item	Value
Product	Pier
Version	0.3.1
Release date	2026-10-04
Type of software	System utility for Windows: a network storage client that mounts remote file storage as local drives, with a built-in backup tool
Deployment	Desktop software installed on the customer's computers
Publisher	iMobile

Pier mounts remote storage reached over WebDAV, SFTP and NFS version 3 as Windows drive letters, with a block cache on the local disk, resumable transfers, automatic reconnection and an offline mode. The built-in Pier Backup tool makes versioned, encrypted backups of folders to WebDAV, SFTP, NFS and S3 storage.

The product is installed on every Windows computer (workstation or server) that needs the drives. It is a single executable, `Pier.exe`, which runs as the Windows service "Pier" (LocalSystem account), as a notification-area icon with a settings window in the user's session, and as a command-line program. Drives are presented through the Dokany file-system driver, installed as a separate package by the product's setup program. There is no server component on the customer side and no storage on the vendor side: the product talks to the storage servers the customer configures and to the vendor's account server (registration, edition terms, updates).

2. Delivery set

2.1. Contents

- The setup package `Pier-0.3.1-Setup.exe`: installs the Dokany driver 2.3.1 when it is missing, then the product
- The Windows Installer package `Pier-0.3.1.msi`: the product only, without the driver
- The archive `Pier-0.3.1.zip` for installation without the setup program: `Pier.exe`, `DokanSetup.exe`, the Dokany licence texts, README and CHANGELOG files in English and Russian
- The product documentation set
- There is no separate licence key: the Pro edition is bound to an account (an e-mail address) on the vendor's account server

2.2. Method of delivery

The setup packages are downloaded from the vendor's website over HTTPS: the product page is <https://new-imobile.com/en/pier/> and the setup package is <https://new-imobile.com/download/pier/Pier-0.3.1-Setup.exe>.

2.3. Documentation

The documentation set consists of:

- Product Description and Functional Specification
- Installation and Administration Guide
- User Guide
- Software Lifecycle, Maintenance and Support
- Delivery Specification and Third-Party Components (this document)
- Security and Data Protection Statement
- a country annex for the customer's jurisdiction

3. Operating environment

3.1. Supported platforms

- Windows 10 version 1809 (build 17763) or later, 64-bit (x64)
- Windows 11, 64-bit (x64)
- Windows Server 2019 or later, 64-bit (x64)

3.2. Hardware and software requirements

- An x64 processor. The vendor sets no separate requirements for processor speed or memory size
- Local disk space for the cache: up to 4096 MB per mounted drive by default (configurable, at least 64 MB). The setup package is about 20 MB
- The Dokany file-system driver 2.3.1. The Pier setup program installs it when it is missing
- Administrator rights to install and remove the product and to configure backups
- Network access to the storage servers over outbound TCP connections: WebDAV on port 443 or 80, SFTP on port 22, NFS on ports 111, 2049 and the mountd port, S3 on port 443 or 80, or the ports set in the configuration
- Internet access to accounts.new-imobile.com (TCP 443) for registration, edition terms and updates, and to new-imobile.com (TCP 443) to download the setup packages and the driver installer

4. Licensing

4.1. Editions and terms of use

Proprietary software in two editions. The Free edition has no time limit and no fee: at most 5 drives mounted at once, one backup job started by hand and, once the product is registered and the ad-free period set by the account server is over, an ad banner in the settings window and an ad pop-up at most once a day. The Pro edition is a one-year subscription taken out in the iMobile account: any number of drives and backup jobs, backups on a schedule, no ads. The edition is bound to an account (an e-mail address); one address can be registered on up to 3 computers in the Free edition and up to 10 in the Pro edition. For the first 14 days after its first start the product works without registration; after that, adding or changing drives and backup jobs requires the free registration by e-mail, while drives that are already configured and restoring from backups keep working.

4.2. Activation

Registration is done on the Account tab: the user enters an e-mail address, receives a code by e-mail and types it in. To request the code the product sends the e-mail address, the product identifier and the interface language to the vendor's account server `accounts.new-imobile.com` over HTTPS. Activation sends the address, the code, the product identifier and a computer identifier, which is the first 16 bytes of the SHA-256 value of a fixed prefix followed by the MachineGuid value from the Windows registry. The server replies with a token, stored on the computer under DPAPI protection. After that, when the product's notification-area icon starts and once an hour while it runs, the product sends the token, the product identifier, the product version, the interface language and the computer identifier; the server returns the edition terms signed with an ECDSA P-256 key, and the product verifies the signature with a built-in public key. There is no separate licence key or hardware key. Registration without access to the vendor's account server is not available.

4.3. Updates

Ninety seconds after it starts and then every 6 hours, the product's service asks the vendor's account server for the latest version, sending the product identifier and the installed version number. The reply is signed with an ECDSA P-256 key; the product verifies the signature, downloads the new executable and checks its size and SHA-256 checksum. With auto-update on (the default) the file is installed when no transfer or backup is running: the service stops, the executable is replaced and the service starts again, and the drives are unavailable meanwhile (about a minute). With auto-update off the product only announces the new version and the user starts the installation from the icon's menu, from the Settings tab or with the command `Pier.exe update apply`. The product can also be updated by running the setup package of the new version over the installed one; settings, drives and the cache are kept. The product has no built-in way to return to the previous version.

5. Interface languages

English, Russian, German, French, Spanish, Italian, Portuguese (Brazil), Polish, Turkish, Arabic, Persian, Chinese (Simplified), Japanese, Korean, Vietnamese and Indonesian, 16 in total. The language follows the Windows settings or is chosen on the Settings tab. Error messages of the service, command-line output and log records are in English.

6. Third-party components

Component	Version	Licence	Purpose
Dokany	2.3.1	LGPL-3.0 (dokan2.dll), MIT (driver)	User-mode file-system driver and its library. Installed as a separate, unmodified package from the delivery set; the product loads the library dynamically
libssh2	1.11.1	BSD-3-Clause	The SSH and SFTP protocols. Linked statically into the executable; cryptographic operations are performed by Windows CNG
TweetNaCl (derived code)	—	Public domain	Ed25519 signature arithmetic for SSH key authentication, included in the product's source code
WiX Toolset	6	MS-RL	Tool used to build the setup packages. Its bootstrapper is part of <code>Pier-0.3.1-Setup.exe</code>

Each third-party component is used under its own licence, named in the table. The table is a human-readable component list; a machine-readable bill of materials (SPDX or CycloneDX) is not part of this delivery.

7. Known limitations

- The product runs only on 64-bit (x64) Windows and needs the Dokany 2.x driver; without the driver no drive can be mounted
- S3 storage is used only as a place for backups; it cannot be mounted as a drive
- NFS: version 3 over TCP with AUTH_SYS authentication only, without encryption and without Kerberos; NFS version 4 is not supported; symbolic links are shown as empty files and special files are not shown
- SFTP: the server's host key is neither verified nor remembered, so there is no protection against an impersonated server. Ed25519 host keys and Curve25519 key exchange are not supported. SSH agents, proxies and jump hosts are not supported. Keys in PuTTY (.ppk) format and EC keys in PEM format must be converted to OpenSSH format
- WebDAV: on servers other than Nextcloud and ownCloud any change to a file re-sends the whole file, and an interrupted upload starts over. TLS client certificates are not supported. WebDAV locks (LOCK) are not used
- There is no file locking and no merging of versions: when a file has been changed both on the computer and on the server, the local version is sent to the server
- A mounted drive is available to every user of the computer with the rights of one server account; there is no separation by Windows user on the drive
- The cache on the local disk is not encrypted. Changes not yet sent to the server exist only in this computer's cache and are lost when the drive or the cache folder is deleted
- After 14 days without registration, drives and backup jobs cannot be added or changed and backups cannot be started. Registration needs access to the vendor's account server over the Internet
- Pier Backup does not use the Volume Shadow Copy Service (VSS): a file that another program holds open without read sharing is left out of the version. Cloud-only files (OneDrive placeholders and the like) and folder links are skipped. NTFS permissions and alternate data streams are not saved
- Pier Backup: the backup password cannot be changed. Days of the week in a schedule can be set only in the job file. The backup repository has its own format. S3 was verified against an S3-compatible server and has not been verified against Amazon S3 or MinIO
- The executable and the setup packages of version 0.3.1 carry no code-signing signature, so Windows may show an unknown-publisher warning
- There is no central management (Group Policy, administration console); configuration is done on each computer and automated through the command line
- There is no record of user actions. The product does not write to the Windows event log
- The product's notification-area icon does not start automatically when a user signs in; the drives do not depend on it
- Error messages of the service, command-line output and logs are in English only

Document history

Document version	Date	Product version	Change
1.0	2026-10-06	0.3.1	First issue