

PHL-SOFT — INSTALLATION PROCEDURE

Vision Images + Valorigen — Quick guide for IT technician (with admin rights)

1. Prerequisites

Element	Specification
OS	Windows Server 2016/2019/2022 or Windows 10/11 Pro — 64-bit
RAM / Disk	4 GB min — 20 GB free min for image archives
Permissions	Local Administrator for installation
Network	Read access to VISION shares (at start pw required), write access to LIS
Antivirus	Exclude C:\PhlSoft\ from real-time scanning

2. Delivered Files

Vision Images	Valorigen
Vision_image_service.exe	Valorigen.exe
libzbar-32.dll, libiconv-2.dll (mandatory)	—
nssm.exe	nssm.exe
config.ini (to be adapted)	config.ini (to be adapted)
licence.aes (tied to the server)	licence.aes (tied to the server)
install.bat / uninstall Vision Image.bat	install.bat / uninstall valorigen.bat
gswin32c.exe, gsdll32.dll (mandatory)	ag.aes, Code_programme.xls, table_antigenes.xls

3. Installation

Steps

1. Unzip and copy the complete installation package (one by app) to a temporary folder on the server (e.g. C:\Temp\VisionInstall\).
2. Adapt **config.ini** to the site's network paths (SourceFolder, DestFolder...)
3. Check **licence** : licence.aes must be generated for this server (see §5)
4. Run **install.bat** as Administrator

⚠ Run install.bat as Administrator (right-click → Run as administrator).

5. Expected result at end of script: **STATE : 4 RUNNING**

Additional check: (CMD)

```
sc query VisionImageService
sc query Valorigen
```

✓ In services.msc: both services must be Running, startup type Automatic.

4. Configuration — config.ini

⚠ Any modification to config.ini requires a service restart.

Vision™ Images — key parameters

Parameter	Description / Example
LogFolder	C:\PhlSoft\VisionImageService\log
LicenceFile	C:\PhlSoft\VisionImageService\licence.aes
instrCount	Number of instruments (1 to 10)
Name	Instrument name Ex.: Vision
SourceFolder	\\VISION-SRV*\trace\Instr1 (.tra results) (need autorisation)
ImageFolder	\\VISION-SRV*\Images\Instr1 (raw images) (need autorisation)
DestFolder	\\SIL-SRV*\VisionImages (composite images → LIS)
ArchiveFolder	C:\PhlSoft\VisionImageService\Archive
QCFolder	C:\PhlSoft\VisionImageService\QC (one subfolder will be create by instrument)

* IP address if not DHCP

Valorigen™ — key parameters

Parameter	Description / Example
LogFolder	C:\PhlSoft\Valorigen\log
LicenceFile	C:\PhlSoft\Valorigen\licence.aes
instrCount	Number of instruments (1 to 10)
Name	Instrument name Ex.: Vision
SourceFolder	\\VISION-SRV*\Resolvigen trace\Instr1... (RAI and Panel results)
DestFolder	\\SIL-SRV*\Valorigen (jpeg grids → LIS)
ResolvedFolder	\\SIL-SRV*\Valorigen\Resolved (jpeg grids → LIS optional)
Retention	RAI result retention in days (default: 7)
AutoResolve	0 = no 1 = yes BOTH=both folder activated in parralel

* IP address if not DHCP

Restart after modification: (CMD)

```
net stop VisionImageService && net start VisionImageService
net stop Valorigen && net start Valorigen
```

5. License Management

The license is tied to the server's identification (few hardware identifiers). Obtain the HD ID:

```
run Get_pc_info.exe and send return string to contact@phl-soft.com
```

Provide this returned string to Phl-Soft → receive licence.aes → copy to the installation folder → restart the service.

⚠ If the server hardware is modified, a new license is required.

Common license errors

Log message	Cause / Action
« HD ID different »	Wrong server — request new license from Phl-Soft
Licence expired	Demo expired — contact Phl-Soft
File licence absent	Check if LicenceFile present (licence.aes)

6. Validation Tests

Test	Procedure	Expected result
Service status	sc query VisionImageService / sc query Valorigen	STATE : 4 RUNNING
Reboot	Restart the server, check services	RUNNING without intervention
Network access	Check SYSTEM account permissions on shares	No network errors in log
Vision image	Drop an XML result + raw image in SourceFolder	JPEG generated in DestFolder in < 30s
Valorigen grid	Drop a RAI + Panel (same SID) in SourceFolder	JPEG generated in DestFolder
LIS integration	Validate a test result in the LIS	Image accessible from LIS

7. Monitoring and Logs

Log files

File	Location	Content
service.log	C:\PhlSoft\Service\log\	Full activity: startup, processing, errors
debug_start.txt	C:\PhlSoft\Service\	SCM startup diagnostics

Real-time monitoring

```
powershell Get-Content C:\PhlSoft\VisionImageService\log\service.log -Wait -Tail 30
powershell Get-Content C:\PhlSoft\Valorigen\log\service.log -Wait -Tail 30
```

Normal startup sequence C:\PhlSoft\VisionImageService\log\service.log or C:\PhlSoft\Valorigen\log\log.txt

```
[INFO] [SERVICE] ExeFolder = [C:\PhlSoft\...]
[INFO] [SERVICE] Configuration chargee - N instrument(s)
[INFO] [LICENCE] Licence valide - Client: ... | Instruments: N
[INFO] [SERVICE] Service demarre avec succes
```

i If the sequence stops before 'Service started successfully', the preceding message indicates the exact cause.

To monitor — first weeks

What	When	How
Service status	Daily	sc query or services.msc
[ERROR] / [CRITICAL] in log	Daily	Read service.log or Get-Content -Wait
Images in DestFolder	After each run	Manual check or via LIS
Network access errors	When anomalies occur	Search 'ERROR' in service.log
QC lot expiry (Vision)	At lot change	Verify PDF/XLS report generated
Valorigen retention	Weekly	Files > 7j supprimés automatiquement

8. Troubleshooting — Common Issues

Symptom	Probable cause	Solution
STATE : 7 PAUSED	NSSM misconfigured	taskkill + nssm remove + sc delete → re-run install.bat
STATE : 2 START_PENDING	Invalid config or license	Check debug_start.txt — fix config.ini or licence.aes
debug_start.txt vide	Error before ServiceCreate	Check for missing DLL (libzbar-32.dll)
HD ID different	Wrong license	wmic diskdrive get SerialNumber → new Phl-Soft license
Images not generated	Network access ou fichiers absents	Check [ERROR] in log + network share permissions
Grids not generated	Different SID or retention exceeded	Verify SID RAI = SID Panel, reduce Retention if needed
File en cours d'utilisation	Previous process still active	taskkill /F /IM [service].exe → wait 5s → install.bat

Quick cleanup commands

```
taskkill /F /IM Vision_image_service.exe
taskkill /F /IM Valorigen.exe
nssm remove VisionImageService confirm
nssm remove Valorigen confirm
sc delete VisionImageService
sc delete Valorigen
```

9. Maintenance

Update

5. New package in `C:\Temp\` → adapt config.ini if needed
6. Run `install.bat` as Administrator — nettoyage automatique de l'ancienne version
7. Verify STATE : 4 RUNNING and first log entries

Uninstallation

```
uninstall.bat (en tant qu'Administrateur)
```

Or manually:

```
net stop VisionImageService && nssm remove VisionImageService confirm
```

Backup

File	Frequency
config.ini	After each modification
licence.aes	Once — keep in a safe location
Dossier log\	Weekly
Dossier Archive\	According to laboratory traceability policy