

**UPGRADE QUICK GUIDE** 



# LSM-VIA Version 1.9 December 2024

Corporate +32 4 361 7000

North & Latin America +1 973 575 7811

Asia & Pacific +852 2914 2501

Other regional offices evs.com/contact/offices



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#### User Manuals on EVS Website

The latest version of the user manual and other EVS product documentation can be found on the EVS documentation portal. The documentation portal can be accessed through the VIA Portal on the following webpage: <u>https://viaportal.evs.com/</u>.

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#### ICONOGRAPHY



## 1. Introduction

This Quick Guide document will help you go through the specificities of the LSM-VIA 1.9 deployment. At the end of this document, you will find a checklist to help you during the process.



## 2. Prerequisites

Through this procedure, you will reghost your LSM-VIA workstation, meaning you will restore a factory default. You will have to redo some basic configurations, so it is preferable to be well prepared.

1. Check if you have a valid **license file** stored on your LSM-VIA workstation.

If a file is stored,

• back it up so you can re-import it after the deployment of the ISO.

The locking code of your LSM-VIA workstation stays the same after the reghost, meaning your license will still be valid.

If the file is no longer stored on the LSM-VIA workstation, you can do one of the following actions:

- Check your emails for mails received from EVS to see if you still have the license file provided by EVS.
- Retrieve the license installed on the LSM-VIA workstation through the following command line (which will also rename the license file with the serial number of the unit):

```
sudo cp /etc/gemalto/lserv.lic /home/evs/Desktop/$(cat /etc/evs/serial) &&
sudo chmod 777 /home/evs/Desktop/$(cat /etc/evs/serial)
```

Then, back up the "Axxxxxx" file (where "xxxxxx" is the serial number of the XClient-VIA) which is on the desktop to another storage (USB key, other computer, ...).



You can retrieve the license file by connecting remotely in SSH with PuTTy.

- 2. Write down the **serial number** of your LSM-VIA workstation. This information will be needed later during the reghosting process. You can either:
  - Check the label on the chassis of the workstation: Axxxxxx (6 digits),
  - Check the content of the /etc/evs/serial file on the LSM-VIA workstation hard-drive.



If you connect remotely with PuTTy, use the command cat /etc/evs/serial.

- 3. Take a screenshot/picture to keep a trace of your LSM-VIA RCU shortcuts.
- 4. Back up your keyword files. Your LSM-VIA settings will be back to default after the reghost.
- 5. Export the System settings.



The export/import functionality introduced in the LSM-VIA configuration tool with the LSM-VIA 1.8 release will not work for Shortcuts, Shotbox content & Trains Filter, since there is no compatibility between the Setting files from different major versions (1.8 <> 1.9). However, the import/export will work properly for the **System settings**.

- 6. Document all your **Infrastructure settings** like the IP addresses from the LSM-VIA workstation wired settings, LSM-VIA remote IP settings, EVS server PC LAN you are connecting to, VIA Xsquare IP address (+ user/password).
- 7. Export your **bookmarks** in Google Chrome, like the MultiViewer links, VIA Xsquare monitoring page,...



We know some older generation USB keys can cause the reghost process to fail. Would you encounter this problem, use a different type of USB key, preferably a newer model. Make sure the key is FAT32, and can at least hold 8 GB.



## 3. Tips and Tricks

- Before you start the procedure described below, check the LSM-VIA version you are running currently, which should be 1.7.x or 1.8.x. Keep this in mind for a later step (Factory install of the LSM-VIA RCU).
- Make sure to follow the steps exactly as written in the LSM-VIA Installation and Configuration manual. However, the screenshots in the manual can be slightly different of what is displayed on your screen.
- To boot from the USB key you need to press F12 during startup. However, the small EVS keyboards have no F12 key. You will have to press Fn+F2 to trigger the secondary function of F2, which is F12.
- Make sure only one screen is connected to your XClient-VIA before starting the reghost. Otherwise you might miss the Startup Device Menu after pressing **F12**.
- The user and password of the account on the XClient-VIA is evs / evs123.

# 4. Reghosting the LSM-VIA Workstation to Rocky Linux

#### **USB Key Preparation**

- 1. Download Rufus on https://rufus.ie./
- 2. Launch Rufus and select the USB device

Rufus Rufus		_		X
4°				
Drive Properties ———				
Device				
USB-LSMVIA (D:) [32 GB]			~	
Boot selection				
Disk or ISO image (Please select)	$\sim$ (	⊘	SELECT	▼
Partition scheme	Target system			
MBR $\sim$	BIOS (or UEFI-	-CSM)		~ ?
<ul> <li>Hide advanced drive properties</li> </ul>				
List USB Hard Drives				
Add fixes for old BIOSes (extra partition, ali	gn, etc.)			
Use Rufus MBR with BIOS ID	0x80 (Default)	)		$\sim$
Format Options				
File system	Cluster size			
FAT32 (Default)	16 kilobytes (	Default)		$\sim$
	To knobytes (	ocraany		
<ul> <li>Hide advanced format options</li> </ul>				
Curck format				
Cheale device fee had blacks				
	1 pass			$\sim$
Status —				
PEADV				
READY				
Ø û ∻ ■	START		CLOSE	
	JIAN		CLOSE	
1 device found				



In case some files are missing, the following message will be displayed:



	0 (No persistence)
Download required	×
This image uses Syslinux 6.04 but this app includes the installation files for Syslinux As new versions of Syslinux are not comp another, and it wouldn't be possible for them all, two additional files must be dow Internet ('Idlinux.sys' and 'Idlinux.bss'): - Select 'Yes' to connect to the Internet ar files - Select 'No' to cancel the operation Note: The files will be downloaded in the directory and will be reused automaticall	plication only 6.04/pre1. Patible with one Rufus to include wnloaded from the and download these
Y	es No
Quick format	
Create extended label and icon files	
Check device for had blocks 1.	
1. Click <b>Yes</b> to download the missing files.	
The download status will be indicated in t	the <b>Status</b> field at the bottom of the
Check device for bad blocks	1 pass v
Status	

CANCEL

START

S) (i) 😤 🖬

2. Continue the procedure.

Downloading Idlinux.bss (512 bytes)

3. Select your LSM-VIA iso image.

You can download the right image version from the download area (<u>https://download-area.evs.com/en</u>).

🖋 Rufus 3.11.1678 — 🗆 🗙	📑 🛛 🚽 🚽 isoFiles 🛛 🛛 Manage — 🗆 🗙
Drive Properties	File Home Share View Disc Image Tools 🗸 🦿 🥐
Device	$\leftarrow \rightarrow \checkmark \uparrow$ $\sim $ Des $\rightarrow$ isoFiles $\checkmark$ $\bigcirc$ $\sim$ Search isoFiles
USB-LSMVIA (D:) [32 GB] 🗸 🖓	
Boot selection	A Name Date modified
Disk or ISO image (Please select) $\checkmark$ SELECT	Desktop 🖈
Partition scheme Target system	👃 Downloads 🖈
MBR V BIOS (or UEFI-CSM) V ?	🖹 Documents 🖈
<ul> <li>Hide advanced drive properties</li> </ul>	📰 Pictures 🖈
List USB Hard Drives	
Add fixes for old BIOSes (extra partition, align, etc.)	System32
Use Rufus MBR with BIOS ID 0x80 (Default)	
Format Options	Keebra 2.4
Volume label	OneDrive - EVS B
USB-LSMVIA	This DC
File system Cluster size	
FAT32 (Default) V 16 kilobytes (Default) V	J SU Objects
<ul> <li>Hide advanced format options</li> </ul>	Desktop
Quick format	Documents
Create extended label and icon files	
Check device for bad blocks 1 pass 🗸	Music
Status	Pictures
	🚪 Videos
READY	🎬 Windows (C:)
	USB-LSMVIA (D
🚱 🛈 🏂 📰 START CLOSE	🛖 Team Store (#10
	- Public Store (#2 🗸 <
No image selected	I item   1 item selected 3,18 GB



4. Check all the parameters and click **Start**.

Rufus 2 11 1678				$\sim$
- Kulus 3.11.1070				^
Drive Properties ———				
Device				
USB-LSMVIA (D:) [32 GB]			~	日
Boot selection				
evs-lsm-via-	~	$\oslash$	SELECT	▼
Persistent partition size				
1		0 (No	persistence	)
Partition scheme	Target syster	n		
MBR ~	BIOS or UEF	1		~
<ul> <li>Hide advanced drive properties</li> </ul>				
List USB Hard Drives				
Add fixes for old BIOSes (extra partition, a	lign, etc.)			
Use Rufus MBR with BIOS ID	0x80 (Defau	lt)		$\sim$
Format Options				
BOOT				
File system	Cluster size			
FAT32 (Default)	16 kilobytes	(Defau	ılt)	~
Hide advanced formations	, ,			
Create extended label and icon files				
	1			~
	i pass			Ň
Status —				
READ	v			
here here				
Ø (i) ž III	START		CLOS	E
Using image: evs-lsm-via-1.0.6.30453.iso				

5. Select the Write in DD image mode option and click OK.

	🖋 Rufus 3.11.1678				×	
	Drive Properties					
	Device					
	USB-LSMVIA (D:) [32 GB]			$\sim$		
	Boot selection					
	evs-lsm-via-	$\sim$	$\oslash$	SELECT		
	Persistent partition size					
		_	0 (No per	sistence)		
	Partition scheme	Target system	m :i		~	
	Hide advanced drive preparties	DIOS OF DEF				
	Hide advanced drive properties					
	Add fixes for old BIOSes (extra partition, a	lign, etc.)				
ISOHV	/brid image detected					
?	in ISO Image (file copy) mode or DD Image Rufus recommends using ISO Image mode drive after writing it. However, if you encounter issues during b Image mode.	e (disk image) e, so that you oot, you can t	mode. always have ry writing th	full acce	ss to the again in	DD
	Please select the mode that you want to us	se to write this	image:			
	◯ Write in ISO Image mode (Recommend	ed)				
	Write in DD Image mode					
				_		_
			OK		Cancel	
	010100					
	READ	Y				
	§ (i) 😤 🖩	START		CANCE	L	
	Using image: evs-lsm-via-1.0.6.30453.iso					

6. Wait a few minutes until the USB stick is ready to be used.



#### **Client Installation**



This operation will result in the loss of the XClient-VIA Infrastructure configuration and the existing licenses. Make sure you copy and save the license files and you take note of your configuration.

- 1. Plug the USB key on the computer.
- 2. Boot on the USB key:
  - a. Press **F12** during startup (or **Fn+F2** on small EVS keyboards).
  - b. From the Startup Device menu, select the USB key created with Rufus.



c. From the next screen, select LSM-VIA Server.



The installation process starts:

3. At the end of the first installation step, keep the USB key plugged to the XClient-VIA and reboot:



4. After the reboot, you will be asked to enter the serial number (available at the front of your computer).

[2024-	06-04	09:52:54]			4	
[2024-	86-84	09:52:54]	##########	## ##	############	
[2024-	06-04	09:52:541		## ##	##	
[2024-	06-04	09:52:54]	*******	## ##	********	
[2024-	06-04	09:52:541		## ##	##	
[2024-	06-04	09:52:541	*******	####	*******	
[2024-	06-04	09:52:54]				
[2024-	06-04	09:52:541				
[2024-	06-04	09:52:541	Proceeding with	installation o	f evs-lsmvia-s	erver
[2024-	06-04	09:52:541				
[2024-	-06-04	09:52:541	Executing /opt/	evs/evs-product	-installer/lib	/evs-product-installer/install.d/10-check
[2024-	-06-04	09:52:541	*** Stop servic	es		
[2024-	-06-04	09:52:541				
[2024-	-06-04	09:52:541	*** Stop contai	ners		
[2024-	-06-04	09:52:541	*** Check graph	ical context		
[2024-	-06-04	09:52:541	*** Check modul	es usage		
[2024-	-06-04	09:52:54]	Check kernel mo	dule usage of n	vidia_uvm (	not loaded LUKI
[2024	-06-04	09:52:541	Check kernel mo	dule usage of n	vidia_drm (	
[2024	-06-04	09:52:54]	Check kernel mo	dule usage of d	leita_x300	
[2024	-06-04	09:52:54]	Check kernel mo	dule usage of m	11x5_10 (not	: IDaded J LUKJ
[2024	-06-04	09:52:541	Executing /opt/	evs/evs-product	-installer/iit	Seve-product-installers install. as 20 marca
[2024	-06-04	09:52:54]	[EUS] Checking	hardware profi	le specifics.	
[2024	-06-04	09:52:54]	Detecting hard	are profile usi	ing evs-contig-	nattemp: '4[9_9]{6}' []:
[2024	-06-04	09:52:541	Set system se	rial number sys	stem - allowed	pattern. nto-sitos tit
_						

5. At the end of this process, restart your computer to finalize the installation.

```
[EUS] System is configured
[2024-06-04 10:07:08] logs are available at /var/log/evs/evs-lsmvia-server/install_evs-lsmv
Removed "/etc/systemd/system/multi-user.target.wants/evs-setup@evs-lsmvia-server.service".
[EUS] Press ENTER to reboot
```

If you have any question(s), please contact us: support@evs.com.

# 

## 5. Installing the Licenses

Valid license keys must be installed from the VIA Licensing Manager on the XClient-VIA. The procedure is the same would you use the license file received from EVS or the license file previously backed up from your LSM-VIA workstation.



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1. Open the LSM-VIA Licensing Manager by clicking on the desktop shortcut:

The following panel opens with a command line and various menu options to perform the various steps.

++   LSM-VIA-BP LICENSING MANAGER   ++
ERVER MODE : SINGLE
enerate locking code how installed licenses how installed license ids nstall a license emove a license etup redundant configuration how redundant configuration members how redundant configuration leader esynchronize redundant servers evert to single configuration evert to redundant configuration exit
RETURN>. <space> or <tab> validate - <esc> cancel ===</esc></tab></space>

- 2. Install the license as follows:
  - a. From the LSM-VIA Licensing Manager, select the **Install a license** option.
  - b. Drag & drop the file or enter the file path on the displayed screen.
- 3. Once the license(s) are installed, you can select the **Show installed licenses** option to display them.
- 4. Restart your LSM-VIA workstation.

## 6. Reflashing the LSM-VIA RCU



This step is only needed when you upgrade from LSM-VIA 1.7.



This operation will result in the loss of the Remote Panel configuration. Make sure you take note of your configuration from the Welcome screen.

Use a USB stick formatted in FAT32 with up to 4GB memory.

1. Extract the content of the Factory Install version of the Operating System archive (evs-remote-factory-os-1.9.0.557.tar) at the root location of a USB stick (unzipped content).

Name	Date modified	Туре	Size
res	25/09/2020 16:21	File folder	
📑 install.scr	25/09/2020 16:21	Screen saver	4 KB
📄 mbr	25/09/2020 16:21	File	1 KB
recovery.ext2	25/09/2020 16:21	EXT2 File	614 400 KB
📧 update.scr	25/09/2020 16:21	Screen saver	1 KB

- 2. Power OFF the Remote Panel.
- 3. Plug the USB stick to one of the USB port of the Remote Panel.
- 4. Power ON the Remote Panel.

The Operating System located on the USB stick will automatically be installed.

The following message is displayed on the touchscreen:



5. Once the installation is done, power OFF the Remote Panel.



- 6. Remove the USB stick.
- 7. Power ON the Remote Panel.

The LSM-VIA Welcome Screen is displayed.



This update of the Remote Panel Operating System will update the recovery partition on the Remote Panel at the same time.

# 7. Checklist

- Current LSM-VIA version = \_\_\_\_\_
- □ Create a copy of my VIA license file
- Check XClient-VIA Serial Number = \_\_\_\_\_
- □ Document my current LSM-VIA shortcuts
- □ Export my LSM-VIA System settings
- □ Copy my Keywords files
- □ Document my LSM-VIA Infrastructure settings

XClient-VIA	IP address	
	Subnet Mask	·
	Default Gateway	·
	DNS	·
LSM-VIA	Workstation IP	
	Remote Panel IP	
	Subnet Mask	·
	Default Gateway	·
VIA Xsquare	IP address	·
	Login	<u> </u>
	Password	
EVS server	IP address	

□ Document any unique items on my XClient-VIA

- □ Export Chrome bookmarks
- □ Configurations for Multi-screen layouts
- □ Extra tools or apps installed
- □ Get a USB key with 8GB storage for formatting
- Download the ISO image for LSM-VIA 1.9
- □ Download RCU OS files (if needed)
- Download and install RUFUS exe on your computer for making a Rocky Linux installation key
- □ Proceed to various installation steps
  - □ in RUFUS, create the Rocky Linux installation key
  - □ Reghost the XClient-VIA
  - □ Reconfigure XClient-VIA wired settings
  - □ Reinstall LSM-VIA licenses
  - □ Format USB key to create LSM-VIA RCU OS key (if needed)



- □ Reflash LSM-VIA remote (if needed)
- □ Restore your keywords files
- □ Reset LSM-VIA configuration as required (Infrastructure settings) and preferred (System settings)
- $\hfill\square$  Restore Chrome bookmarks or other unique install / configs



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