



INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

VERIFYING ENGUILD DELIVERY MEDIA

INSTRUCTION

Classification
Company Confidential

Document no.
2015-INS-012

Issue
3.0

Date
2025-10-07

1	REVISION HISTORY	3
2	ABBREVIATIONS AND ACRONYMS	3
3	REFERENCES	3
4	INTRODUCTION	4
5	VERIFYING DISCS/ISO-FILES USING RPM	5
5.1	Using the verify_media command	5
6	VERIFYING DISCS/ISO-FILES USING LIVE-DISC VERSION 3	7
6.1	Using the verify-application	7
6.2	Shutdown	12

INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

1 REVISION HISTORY

Issue	Date	Author	Description
1.2	2017-12-03	Magnus Juntti	First version with revision history
2.0	2020-06-12	Magnus Juntti	Updated for version 2.0
3.0	2025-10-07	Magnus Juntti	Updated for live-disc version 3

2 ABBREVIATIONS AND ACRONYMS

Definition	Description
CA	Certificate Authority
RPM	RedHat Package Manager
CRL	Certificate Revocation List
OS	Operating System
RHEL	RedHat Linux Enterprise
RPM	RedHat Package Manager

3 REFERENCES

No	Document ID	Title/Description
1		

INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

4 INTRODUCTION

This document describes how to verify a bundle of Enguild Delivery media discs (CD/DVD). There are two ways to do this, either by using a computer with an RHEL-based operating system installed and the RPM enguild-sign installed or by using the dedicated Live-disc created for this purpose.

The media is validated against a signature made by the certificate on the signature disc. The certificate is validated against the Enguild CA-certificate included in the enguild-sign RPM or installed in the Live-verifier.

INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

5 VERIFYING DISCS/ISO-FILES USING RPM

This chapter explains the two methods for using the verification tool in an installed RPM.

Login to the computer and open a terminal window. Make sure you are running as “root”. Follow the instructions in chapter 5.1, starting with the section of choosing CD/DVD-drive to use.

5.1 Using the `verify_media` command

This section is the same for both LiveCD and using another RHEL-based computer.

If you do not have a CRL you wish to use, just enter the command:

```
verify_media
```

If you have a CRL (can be downloaded from <http://www.enguild.com/crl/crl.pem>), you can use this file by entering the command:

```
verify_media <path to your CRL>
```

For example if you have the CRL on a USB-memory, mount it using:

```
mount /dev/sdb1 /mnt
```

Verify using the command:

```
verify_media /mnt/crl.pem
```

Unmount the memory:

```
umount /mnt
```

You will be asked to enter the CD/DVD-reader to use for verifying the media. Default is “/dev/sr1” which is the most likely device for your other reader. To accept this, just press Enter, otherwise enter the device to use and then press Enter.

Follow the instructions and insert the CD with your signatures first. The signature certificate will be validated and if validation is successful, it will present the subject form the certificate and you can choose to accept the signer or deny it. **NOTE: The signer certificate from Enguild always has “Delivery” as part of its OU-field.** Accept the signer certificate by entering ‘Y’ and press Enter.

Now the main menu will be presented:

Choose action:

1. Verify Discs
2. Verify ISO files
3. Finish

If you choose to validate a disc, insert the CD/DVD:s to be validated when instructed to do so. Note that you must wait a while after inserting the disc before pressing enter to scan it. If you press enter too quickly, the reading will fail and the disc is ejected. If this happens, just choose to validate another disc and insert the disc again and retry.

If you choose to validate ISO-files, you must enter the path to a directory containing ISO-files to be verified or a full path to a single ISO-file.

INSTRUCTION

Classification	Document no.	Issue	Date
Company Confidential	2015-INS-012	3.0	2025-10-07

When the disc/ISO has been scanned, the result is presented as a line starting with the text “FAILED” followed by an explanation or starting with “SUCCESS”. You can safely ignore any other output lines during the process even if these states something about I/O error or anything else. The result is ONLY dependent on the last output as stated above.

When finished enter ‘n’ when asked if you want to validate another disc/ISO.

INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

6 VERIFYING DISCS/ISO-FILES USING LIVE-DISC VERSION 3

To use the Live-disc, you need a computer with a CD/DVD-reader and at least 8 GB RAM and UEFI-boot enabled. Make sure the computer's hardware clock is accurate, otherwise certificate validation may fail.

Insert the Live-disc in the reader and boot the computer from the disc. When booting is complete the verifier program is automatically started.

Note: You can now remove the live-disc from the drive to use it for other discs.

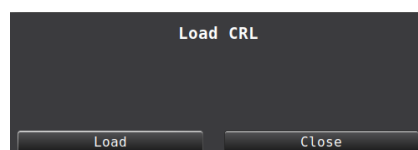
It is also possible to burn the live-ISO file to a USB-memory and use it to boot. Use for example the program Rufus to do this. It is out of the scope of this instruction to detail how to create a bootable USB-drive.

6.1 Using the verify-application

After the disc has booted, you will be auto-logged-in to a session and see this view:



The first task is to load the latest CRL if you want to verify the signer certificate against a CRL which is recommended. Press the "Load CRL" button to do this.



Press "Load" to open a file-manager. In the file-manager, browse to the file and double-click it to select it or select and press the "Done"-button.

INSTRUCTION

Classification

Company Confidential

Document no.

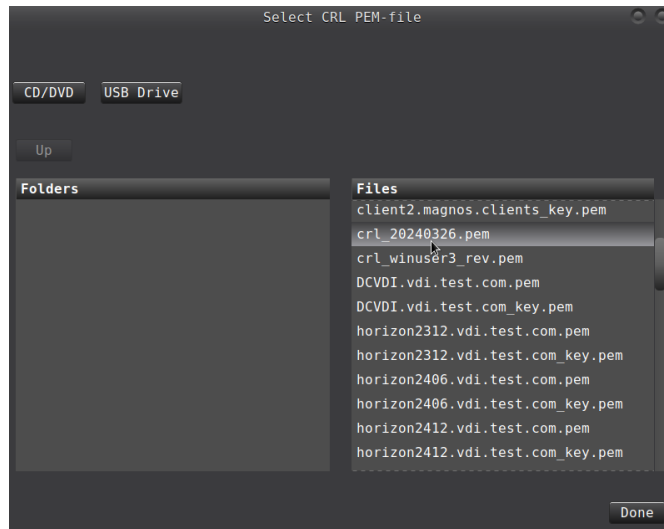
2015-INS-012

Issue

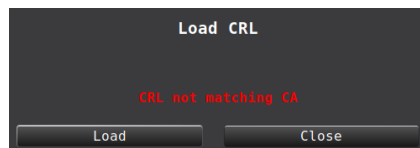
3.0

Date

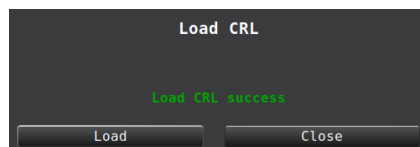
2025-10-07



The CRL will be validate against the installed CA and rejected if it is not issued by that CA.



If the validation was ok, the following is shown and the CRL is now loaded.



Close that window and next select the “Load Signatures” button on the desktop. If you have a signature-disc, insert it and press the CD/DVD-button to load the signatures. You will be presented with the subject of the signer-certificate if it is a valid signatures-disc and a valid (issued from the correct CA and not revoked) signer-certificate, otherwise an error is shown.

INSTRUCTION

Classification

Company Confidential

Document no.

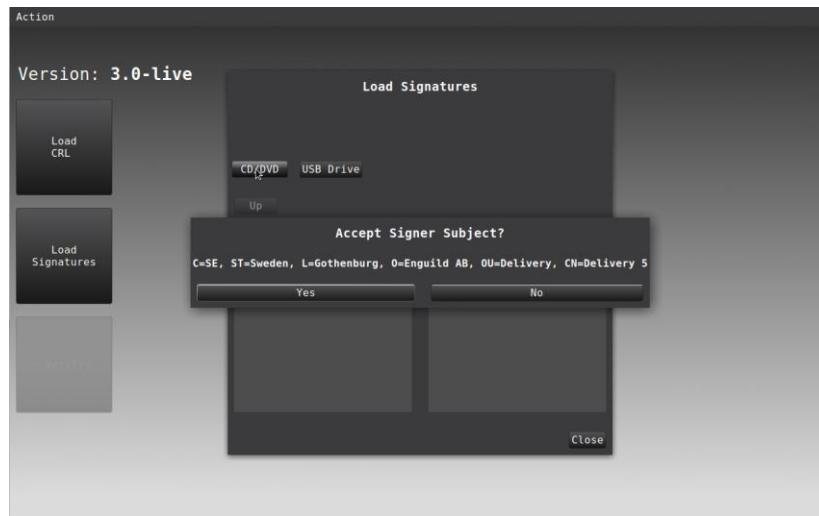
2015-INS-012

Issue

3.0

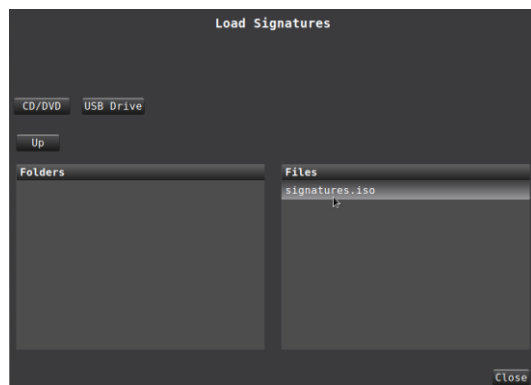
Date

2025-10-07

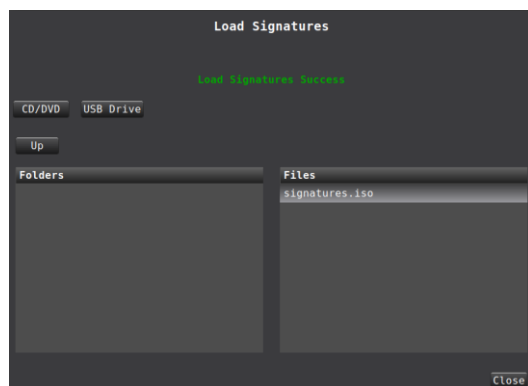


Press “Yes” to accept it or no to reject it. Check that the signer is from the expected CA, which is currently “Delivery 5” since it is CA 05 that is active.

If you instead have a signatures.iso file on a USB-drive, select the “USB-Drive” button and then select your signatures.iso file by double-clicking it.



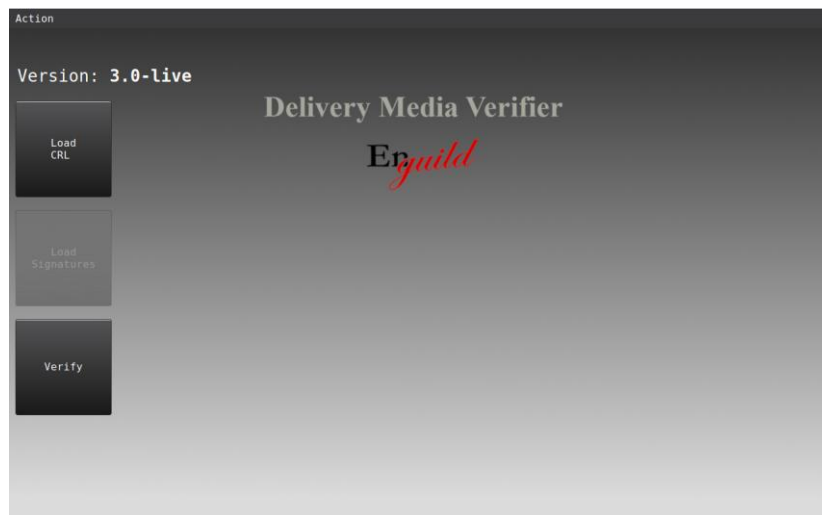
You will have to accept the certificate and then the result is shown in the manager.



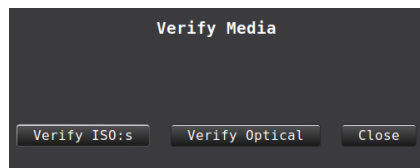
INSTRUCTION

Classification	Document no.	Issue	Date
Company Confidential	2015-INS-012	3.0	2025-10-07

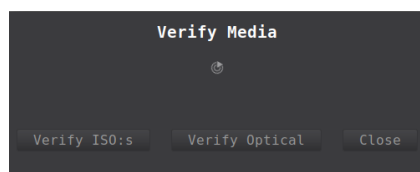
The desktop will now enable the “Verify”-button and disable the “Load Signatures” button.



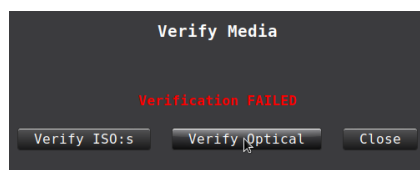
Press the “Verify”-button to open the main verify-window.



To verify a delivered DVD, insert it and press “Verify Optical”. A progress spinner is shown while processing the media.



The result will be shown as success or failure, failure shown below.



If you instead want to verify one or several ISO-files on a USB-drive or DVD, select “Verify ISO:s”. A file manager will open where you can select a folder or single file to verify. If a folder is selected, all “.iso”-files ion that will be verified. If the ISO-files are located in the root of the media, do not select anything, just press “Done”.

INSTRUCTION

Classification

Company Confidential

Document no.

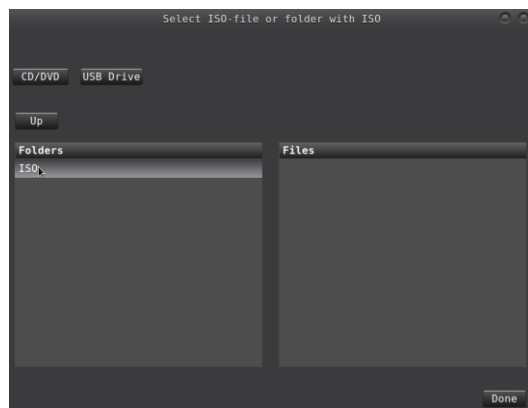
2015-INS-012

Issue

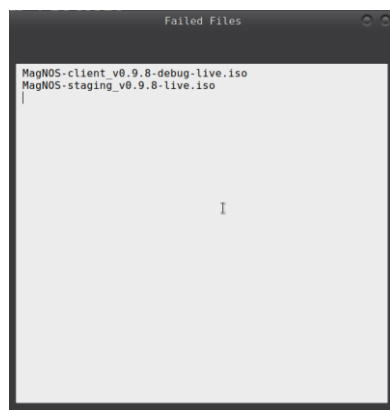
3.0

Date

2025-10-07

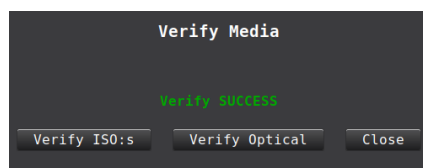


If any files in the selected folder fail, the result will be failure and the failed files will be shown in a window.



Note: All files in the folder not shown in this window, validated OK.

If all files validated Ok, result is success in the main window.



INSTRUCTION

Classification

Company Confidential

Document no.

2015-INS-012

Issue

3.0

Date

2025-10-07

6.2 Shutdown

When all discs/ISO-files have been validated, close the application by selecting “Action – Quit” in the upper left corner. The computer will be shutdown.

