



VIA Platform

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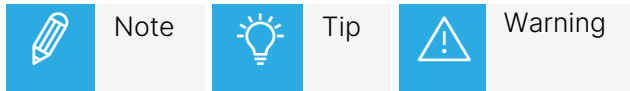
The latest version of the user manual, if any, and other user manuals on EVS products can be found at the EVS download center, on the following webpage: <https://download-area.evs.com>.



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1. Introduction

1.1. About the VIA Platform

Product Overview

The VIA Platform is a web application installed on a customer setup exposing multiple infrastructure tools that allow to manage licenses, set user rights, perform maintenance for different EVS products in a centralized and uniform way.

Main Usages

VIA Platform 1.0 is used for:

- License Management



1.2. About License Management

1.2.1. License Management Tools

To manage the EVS licenses, the following tools are involved:

- VIA Licensing Manager
- VIA Licensing Service

VIA Licensing Manager

The VIA Licensing Manager is the tool that will allow you to manage all the EVS licenses installed on the servers in your setup.

Its web interface is easily accessible and centralizes and visualizes all servers and their licenses. From this interface, you can check the status of the different servers and licenses, manually add and remove servers, and import new and delete existing licenses on each server.

The VIA Licensing Manager communicates with the different VIA Licensing Services.

VIA Licensing Service

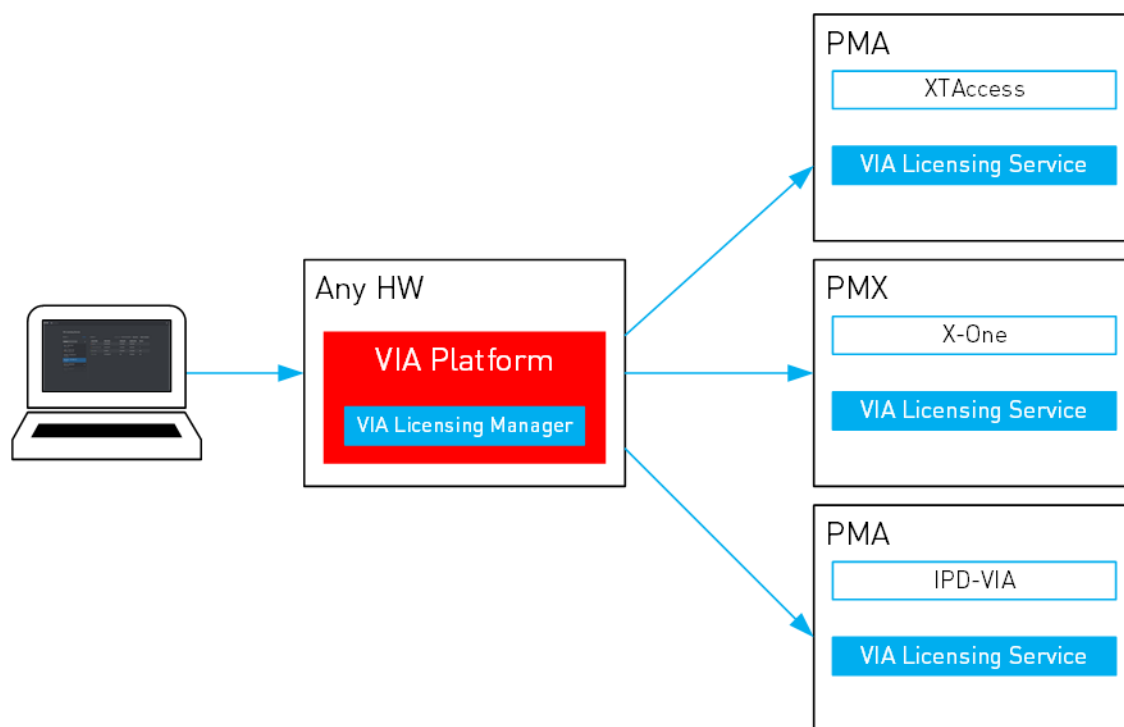
The VIA Licensing Service is a service that runs on every EVS server with EVS software that needs to be protected.

Its main goal is to form a bridge between the VIA Licensing Manager and the server. It retrieves all the license details from the latter and provides this information to the VIA Licensing Manager. It also passes on commands from the VIA Licensing Manager to the server, for example import or delete a license, copy a locking code, etc.

The VIA Licensing Service enables the automatic discovery of the server.

1.2.2. License Management Schema

The VIA Licensing Manager is installed together with the VIA Platform on any hardware in your setup, EVS or non-EVS. It communicates with the VIA Licensing Services installed on every EVS server in your setup. The VIA Licensing web interface forms part of the VIA Licensing Manager and is hosted on the same machine. It can be accessed from any PC in the network that has access to the VIA Licensing Manager machine.



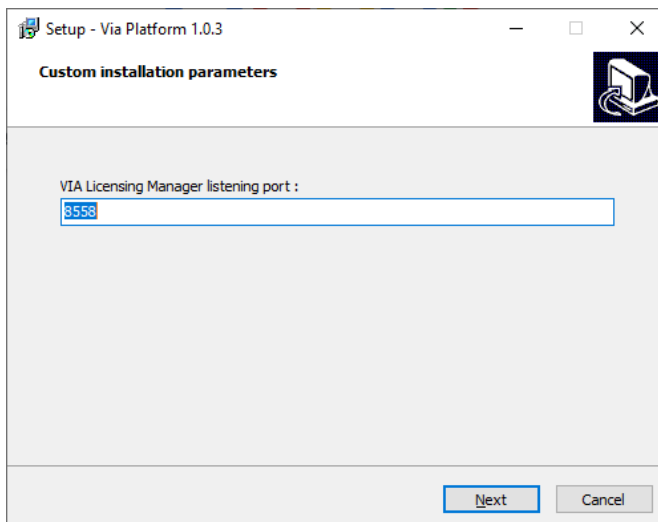
2. Installation and Configuration

2.1. Installing the VIA Platform

To install the VIA Platform, proceed as follows:

1. Double-click the `VIA_Platform_setup-1.0.x.exe` file.

The Custom Installation Parameters screen appears.

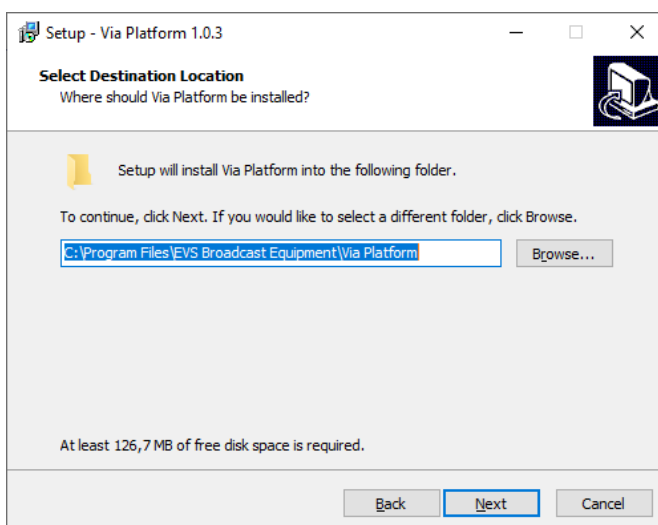


2. Enter the listening port number of the VIA Licensing Manager.

By default, the VIA Licensing Manager listens on port 8558.

3. Click **Next** to continue.

The Select Location Destination screen appears.

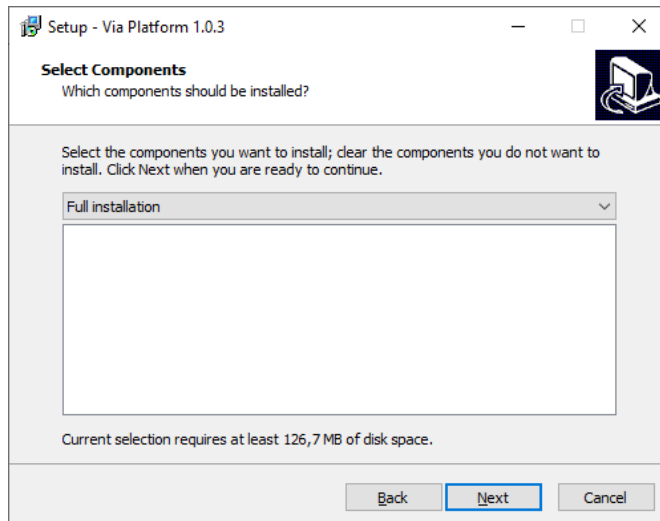


4. Browse for and select the folder where you want to install VIA Platform.

By default, VIA Platform is installed in the folder C:\Program Files\ EVS Broadcast Equipment\Via Platform.

5. Click **Next** to continue.

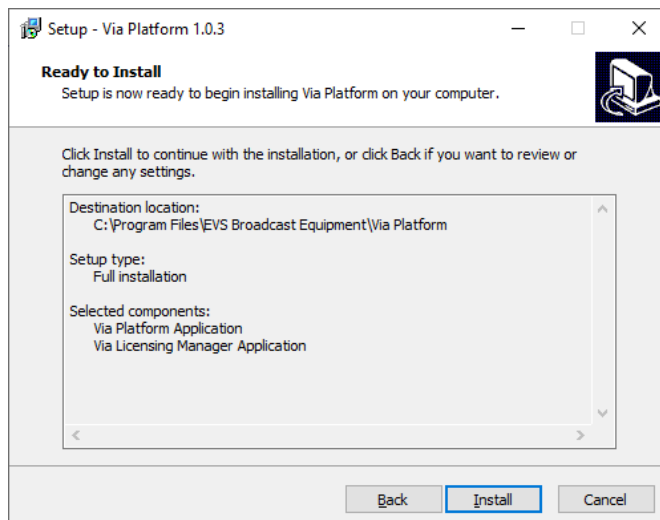
The Select Components screen appears.



By default, the VIA Platform and the VIA Licensing Manager application will be installed.

6. Click **Next** to continue.

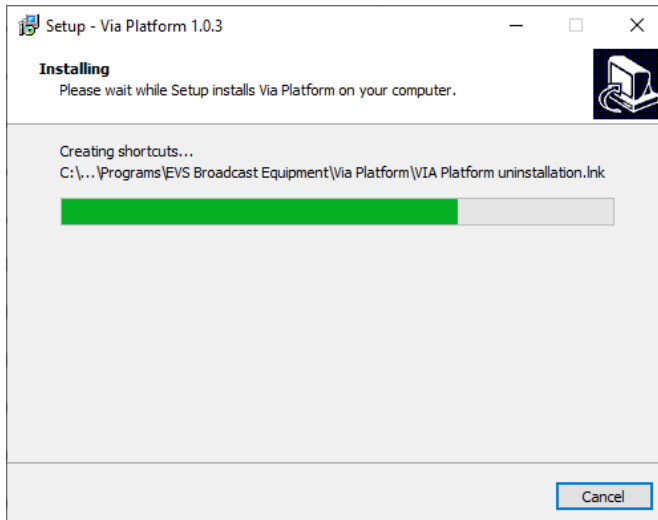
The Ready to Install screen appears.



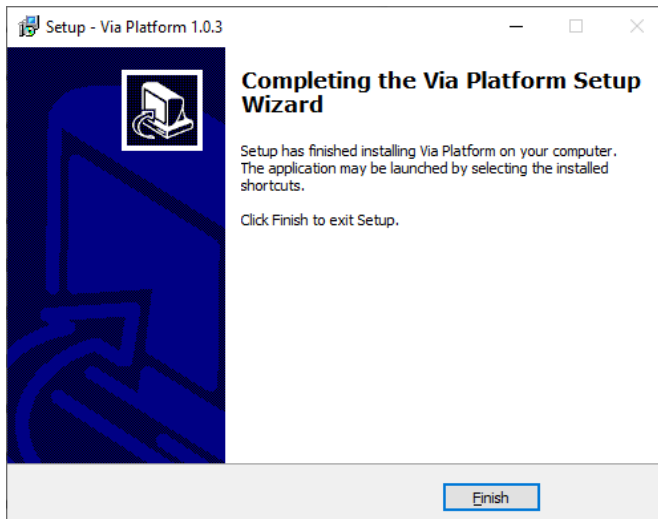
7. Click **Install**.



The installation is started.



Once the installation is completed, the following screen appears



8. Click **Finish**.

2.2. Installing the VIA Licensing Service

The VIA Licensing Service forms part of the installer of every EVS software. It is installed together with the EVS software.

See the Installation and Configuration Manual of each of these software for more information.

2.3. Configuring LDAP Authentication

Introduction

By default, the VIA Platform is running with its own local authentication with a single user (admin). The VIA Platform can also be connected to the LDAP server of the customer. Users will then be able to log in using their own LDAP login and password, instead of the administrator password.

How to Configure LDAP Authentication

1. Edit the `ldap.conf` file located in `C:\Program Files\EVS Broadcast Equipment\Via Platform\Config`.
 - a. Set the `ldap.use` value to 'true' to authenticate with LDAP, to 'false' if not.
 - b. Set the URL of the LDAP server: `ldap.url=ldap://my.ldap.server:389`.
 - c. Set the LDAP root: `ldap.root=dc=myCompany,dc=com`.
 - d. Set the users base Dn: `ldap.user.baseDn=ou=Users`.
 - e. If your LDAP does not support anonymous binds, fill `ldap.bindDn` and `ldap.bindPassword` keys, leave them empty otherwise.


```
ldap.bindDn=cn=myBindUserOrBlank,ou=technicalAccounts,dc=myCompany,dc=com
ldap.bindPassword=myBindPasswordOrBlank
```
 - f. Fill one of the following keys, `ldap.user.filter` or `ldap.user.pattern`.


```
ldap.user.filter=(&(objectClass=user)(sAMAccountName={0})) (Active Directory)
ldap.user.pattern=uid={0} (Open LDAP)
```
2. Save the `ldap.conf` file.
3. Restart the EVS VIA Licensing Manager service using the following command:


```
net.exe stop "EvsViaLicensingManager" && net.exe start "EvsViaLicensingManager"
```



2.4. Configuring HTTPS

Using a Custom Security Certificate

Self-Signed Security Certificate

By default, the VIA Platform comes with a self-signed security certificate. This is a certificate that is not signed by a certificate authority (CA). It does not offer the same security properties as a certificate signed by a CA.

When a user tries to visit the VIA Platform web interface through https, he will see a "Your connection is not private" error.

The VIA Platform allows you to replace the default self-signed certificate by a custom security certificate.

How to Generate the Custom Security Certificate

Make sure you have access to a Linux machine with the open-source command line tool OpenSSL installed on it.

1. Open a Terminal window and enter the following command to generate your private key file using the RSA algorithm:

```
openssl genrsa -aes256 -out FileName.key 4096
```

Where:

- `FileName` = The name for the generated private key. For example, VIA Platform.
- `-aes256` = Option that encrypts the private key with the specified cipher before outputting it.
- `4096` = The size of the private key to generate in bits.

You will be asked to enter a pass phrase or password for the private key.

2. Enter the following command to generate a Certificate Signing Request:

```
openssl req -new -key FileName.key -out FileName.csr
```

Where:

- `FileName` = The name for the generated private key (.key) and certificate signing request file (.csr). For example, VIA Platform.-
- `key FileName.key` = Specifies the file to read the private key from.

You will be prompted to provide the following information. This information is used to create a distinguishing name (DN) for the certificate.

- The two-letter code for your country, such as US or BE, and the full name of your state or province.
- Your city or town
- The name of your organization

- The name of the unit within your organization
 - Your name or the host name of the system
 - Your email address
 - A challenge password – This is not related to the password you assigned when creating the private key. Leave blank unless you understand when and how to use it.
 - Company name – Optional
3. Send the certificate signing request (CSR) to a certificate authority (CA) to be signed.
 4. Create a pkcs12 keystore file.

```
openssl pkcs12 -export -in FileName.crt -inkey FileName.key -name
CertificateName -out FileName.p12
```

Where:

- `-in FileName.crt`: The filename to read the certificate from.
- `-inkey FileName.key`: The file to read the private key from.
- `-name CertificateName`: This specifies the "friendly name" for the certificate and private key.
- `-out FileName.p12`: The filename to write the pkcs12 file to.

You will be asked to enter the a pass phrase or password for the private key and the password of the keystore.

How to Replace the Default Security Certificate

1. Copy the pkcs12 file (.p12) to the computer where the VIA Platform is installed in the following folder:
C:\Program Files\EVS Broadcast Equipment\Via Platform\Config
2. Open the `ssl.conf` and edit the following parameters:
 - `server.ssl.enabled`: Defines if SSL (HTTPS) should be used or not. Set to 'true' by default.
 - `server.ssl.custom`: Defines if the self-signed or a custom security certificate has to be used. Set to 'false' by default.
 - `server.ssl.key-store`: The absolute path of the keystore file. For example, C:/temp/FileName.p12.
NOTE: Use only slashes ("/") and no backslashes ("\") as separator.
 - `server.ssl.key-store-password`: The password of the keystore used at certificate creation.
 - `server.ssl.key-store-type`: Use "PKCS12" by default.
 - `server.ssl.key-alias`: The alias of the certificate. For example, CertificateName.
3. Save the `ssl.conf` file and restart the EVS VIA Licensing Manager service using the following command: `net.exe stop "EvsViaLicensingManager" && net.exe start "EvsViaLicensingManager"`



Disabling and Re-Enabling HTTPS

How to Disable HTTPS

By default, access to the VIA Platform web interface through https is enabled.

To disable access through https , proceed as follows:

1. Open the `ssl.conf` file located in `C:\Program Files\EVS Broadcast Equipment\Via Platform\Config`.
2. Set the `server.ssl.enabled` parameter to false:

```
server.ssl.enabled=false
```

3. Save the `ssl.conf` file.
4. Restart the EVS VIA Licensing Manager service using the following command:

```
net.exe stop "EvsViaLicensingManager" && net.exe start  
"EvsViaLicensingManager"
```

How to Re-Enable HTTPS

To re-enable access through https after you have disabled it, proceed as follows:

1. Open the `ssl.conf` file located in `C:\Program Files\EVS Broadcast Equipment\Via Platform\Config`.
2. Set the `server.ssl.enabled` parameter to true:

```
server.ssl.enabled=true
```

3. Save the `ssl.conf` file and restart the EVS VIA Licensing Manager service using the following command:

```
net.exe stop "EvsViaLicensingManager" && net.exe start  
"EvsViaLicensingManager"
```

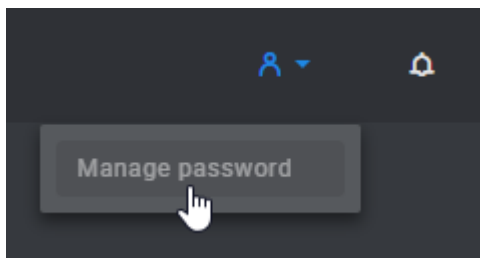

2.5. Managing the Administrator Password

Updating the Administrator Password

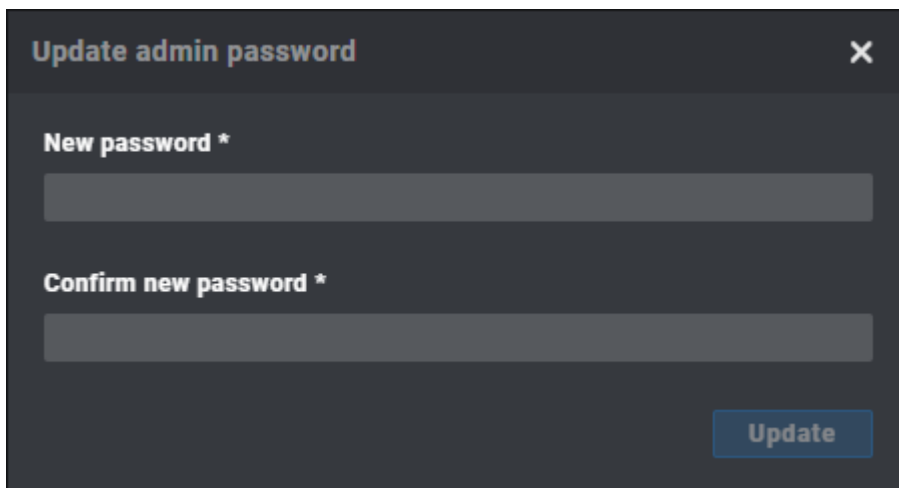
For security reasons, it is strongly advised to immediately update the default administrator password after you have installed and logged into the VIA Platform application. This can be done from the title bar of the VIA Platform web interface.

To update the password, proceed as follows:

1. Access the VIA Platform web interface.
2. In the right corner of the status bar, click the User icon.
3. From the menu, select **Manage Password**.



The Update Admin Password dialog box appears.

A screenshot of the 'Update admin password' dialog box. The dialog has a title bar with the text 'Update admin password' and a close button (X). Inside the dialog, there are two text input fields. The first field is labeled 'New password *' and the second field is labeled 'Confirm new password *'. At the bottom right of the dialog, there is a blue button labeled 'Update'.

4. Enter your new password and then confirm your password by entering it a second time.
5. Click **Update**.

You will be notified that your password has been successfully updated and you will be requested to log in again with your new password.



Resetting the Administrator Password

The VIA Platform allows you to reset your administrator password. This can be useful in case you have updated the default password and you no longer know what it is.

To do this, proceed as follows:

1. Open the Windows Command Prompt as administrator.
 - a. Type command or command prompt in the Start Search box to locate the Windows Command Prompt.
 - b. Right-click and choose **Run as administrator**.

2. Delete the file containing the administrator password using the following command:

```
del C:\Windows\System32\config\systemprofile\LicenseManagerAdmin
```

3. Restart the EVS VIA Licensing Manager service using the following command:

```
net.exe stop "EvsViaLicensingManager" && net.exe start  
"EvsViaLicensingManager"
```

The administrator password has been reset to 'admin'.

3. Operation

3.1. Opening the VIA Platform Web Interface

1. Do one of the following to access the VIA Platform web interface:
 - Type the following address in your web browser: <IP address>:<listening port number>.
 - Open the Windows **Start** menu, and click the VIA Platform shortcut.

Because by default the VIA Platform web interface has to be accessed through https and uses a self-signed security certificate, a "Your connection is not private" error will appear.



Your connection is not private

Attackers might be trying to steal your information from **127.0.0.1** (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR_CERT_AUTHORITY_INVALID

💡 To get Chrome's highest level of security, [turn on enhanced protection](#)

Advanced

Back to safety

2. Click **Advanced**, and then **Proceed to 127.0.0.1 (Unsafe)**.

Hide advanced

Back to safety

This server could not prove that it is **127.0.0.1**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

[Proceed to 127.0.0.1 \(unsafe\)](#)



3. You will be asked to enter your username and password.

A sign-in dialog box with a white background and a thin gray border. At the top, it says "Sign in" in bold. Below that is the URL "https://localhost:8558". There are two input fields: "Username" and "Password". The "Username" field has a blue border, while the "Password" field has a gray border. At the bottom right, there are two buttons: "Sign in" (blue with white text) and "Cancel" (white with gray text).

By default, this is admin, admin.

The VIA Licensing Manager web interface will be displayed by default.

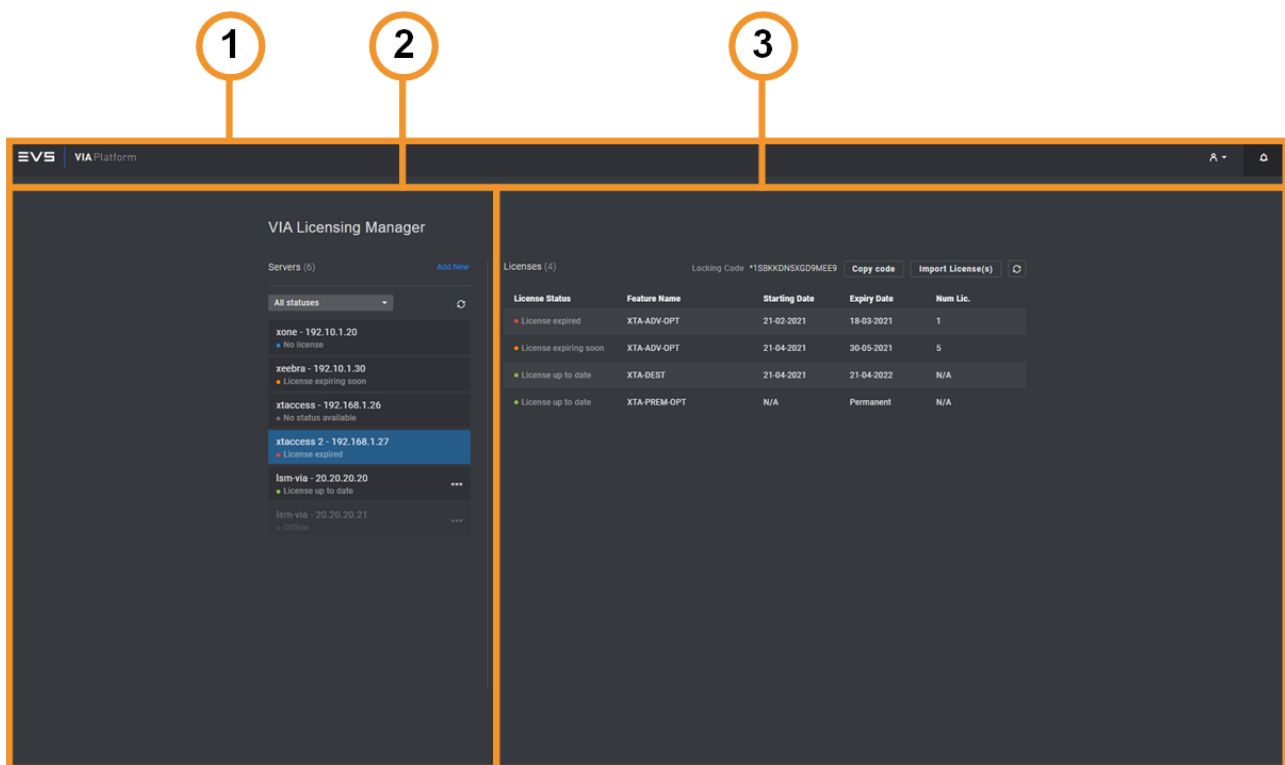
See section "Exploring the VIA Licensing Manager Web Interface" on page 15.

3.2. License Management

3.2.1. Exploring the VIA Licensing Manager Web Interface

Main Areas

The VIA Licensing Manager web interface has the following main areas highlighted on the screenshot below:



1. VIA Platform Title Bar

The title bar contains a menu that allows to change your administrator password. See section "Managing the Administrator Password" on page 11.

It also has a button to open the Notifications pane. See section "Monitoring Notifications" on page 27.



2. Servers Pane

This pane displays all the EVS servers in your setup with protected EVS software.

You can quickly view the status of all the servers, and select a specific server to get more details about the EVS licenses it contains. You can manually add new servers, and edit or remove existing ones. See section "Managing Servers" on page 17.

3. Licenses Pane

This pane displays the status and details of the EVS licenses present on a specific EVS server.

You can easily import new licenses and remove expired ones. See section "Managing Licenses" on page 22.

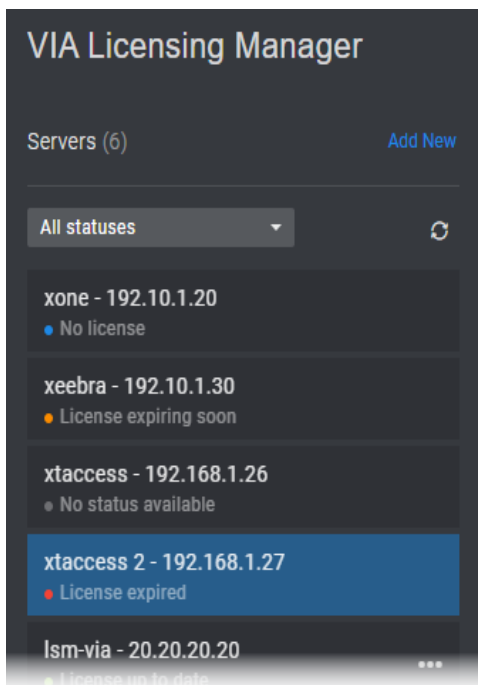
3.2.2. Managing Servers

About the Servers

The servers in the Servers pane are servers in your setup that have on it:

- a protected EVS software;
- a VIA Licensing Service;
- zero or more EVS licenses.

The servers appear in the Servers pane with their (host)name, IP address and status.



Servers that are in the same local network as the VIA Licensing Manager appear automatically in the list. Servers that are in a different local network have to be manually added. See section "Adding Servers" on page 19.



Viewing Servers

Refreshing the List of Servers

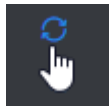
The list of servers in the Servers pane is not automatically refreshed.

You have to manually refresh to see if:

- any new servers have been added and discovered in your setup;
- the status of the existing servers has changed.

To refresh:

- the entire list, use the **Refresh** button.

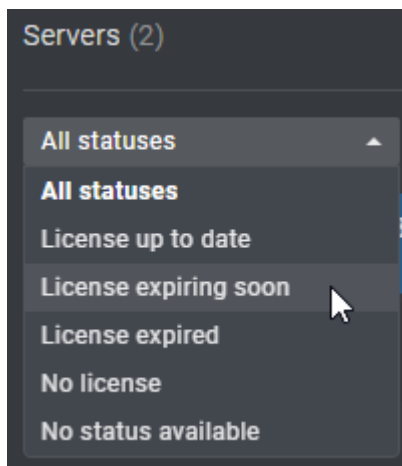


- a specific server, simply select the server in the list.

Filtering Servers

By default, the list of servers is not filtered. All servers are displayed regardless of their status.

If you only want to see the servers with a particular status, for example all servers with one or more expired licenses, you can make use of the server status filter that is provided.

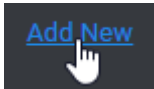


Adding Servers

The VIA Licensing Manager automatically discovers the EVS servers in the same local network and lists them. If the automatic discovery fails, or if certain servers are outside the local network, you can still manually add those servers.

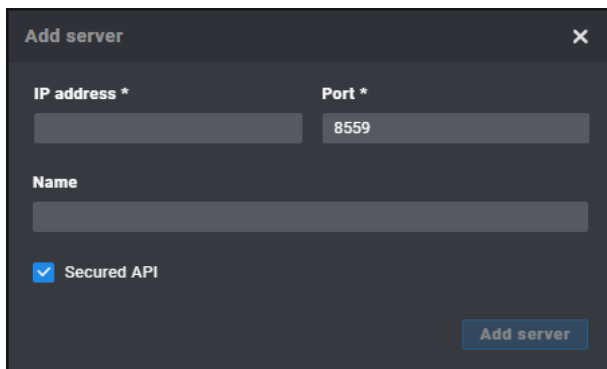
To do this, proceed as follows:

1. Click the **Add New** button.



2. Enter the following information:

- (Required) **IP Address:** IP address of the server.
- (Required) **Port:** Listening port number of the VIA Licensing Service. This is by default 8559.
- (Optional) **Hostname:** Name to identify the server in the Servers pane.
- **Secured API:** Check box that indicates whether the VIA Licensing Manager can communicate with the VIA Licensing Service through a secured (https) or non-secured (http) connection. By default, the check box is selected.



3. Click **Add Server**.

The server appears in the list of servers. See section "Monitoring the Status of the Servers" on page 25 for more information about its status.

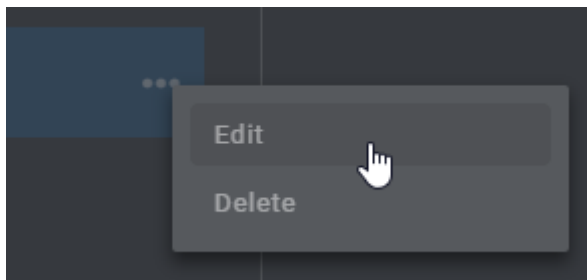


Editing Servers

You can still change the name and listening port number of a server after you have added it. This can be useful, for example, in case you typed the wrong listening port number and want to correct it.

To edit a server, proceed as follows:

1. Click the ... button of the server you want to edit.
2. Select **Edit** from the context menu.



3. If needed, change the port number and add a (more meaningful) name.

Edit server [X]

IP address * 10.129.88.33 **Port *** 8559

Name VIA Xsquare

☒ Secured API

Edit server

4. Click **Update Server**.



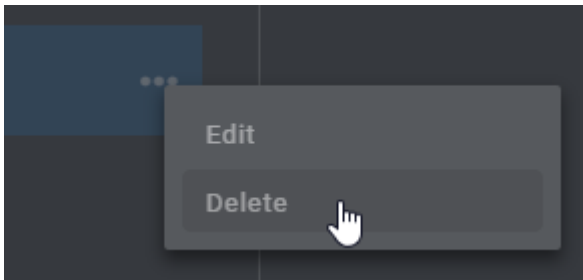
You can only edit manually added servers. The IP address cannot be changed anymore.

Deleting Servers

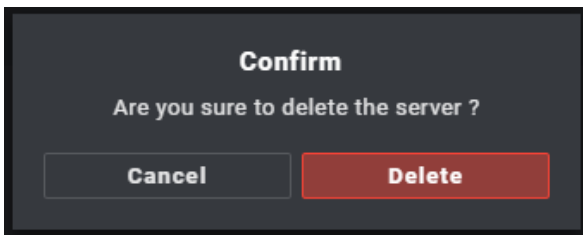
It can happen that in the course of time servers get removed from your setup. As such, it makes no sense to keep them in the VIA Licensing interface. You can manually remove them from the list.

To manually remove a server, proceed as follows:

1. Click the ... button of the server you want to remove.
2. Select **Delete** from the context menu.



3. Click **Delete** once again to confirm your action.



The server will no longer appears in the list.



You can only delete manually added servers.



3.2.3. Managing Licenses

About the Licenses

License Properties

An EVS license has one or more attributes or properties.

The main properties are:

- **Feature Name:** The name of the feature that needs to be protected. A feature identifies a suite of applications, an application, a file, or a functionality of the software.
- **Starting Date:** The license start date. If a beginning date is chosen for the license, the application(s) or functionality will not run or be available before that date (day, month, and year).
- **Expiry Date:** The license expiry date. If an end date is chosen for the license, the license will become invalid after that date (day, month, and year).
- **Number of Licenses:** Total hard limit for this feature. For example, the maximum number of allowed concurrent transfers or transcoding jobs.

License Status

The status of a license reflects its validity. A license can be valid, about to expire or expired. You can check the status of a license in the Licenses pane.

See section "Monitoring the Status of the VIA Licenses" on page 1.

License File

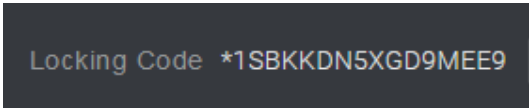
Licenses are distributed via a license file. The license file contains the codes of the different licenses. The default name of a license file is `lservrc`.

You can use the VIA Licensing Manager web interface to import one or more new license files into a selected server. See section "Importing License Files" on page 24.

Locking Code

Licenses and license files are generated by EVS Support. When you request new licenses for a particular server, you need to provide the server's locking code.

This is a unique identifier of the server. The locking code is visible in the Licenses pane and you can easily copy it.



Locking Code *1SBKKDN5XGD9MEE9

See section "Requesting New Licenses" on page 23.

Viewing Licenses

To reveal the Licenses present on a particular server, select that server in the Servers pane.

You get an up-to-date view on the status and properties of each license.

You can sort the licenses by one of these properties in ascending or descending order. By default, there is no sorting.

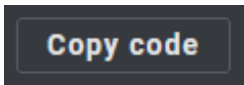
Requesting New Licenses

Licenses and license files are generated and installed initially by EVS Support. When you request new licenses for a particular server, you need to provide the server's locking code.

This is a unique identifier of the server.

To request new license codes for a particular server, proceed as follow:

1. In the Servers pane, select the proper server.
2. Click the **Copy Code** button to copy the server's locking code.



Copy code

3. Paste the locking code into the body of an email.
4. Specify the licenses that need to be renewed.
5. Send the mail to EVS Support.

EVS Support will generate new license codes and license files and provide them to you.

6. Import the new license files. See section "Importing License Files" on page 24.

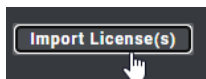


Importing License Files

To replace expired licenses, or to add additional ones to a server, you can import one or more license files.

To import a new license file into a server, proceed as follows:

1. In the Servers pane, select the proper server.
2. In the Licenses pane, click the **Import License(s)** button.



3. Browse for the license file you want to import, select it, and then click **Open** to import it.

The following can happen:

- If the license file and all the licenses are valid, a notification will inform you that the import was successful and that x licenses were imported.

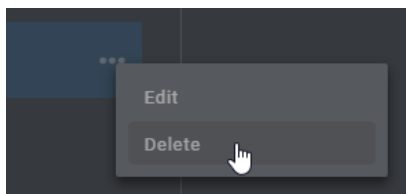
The licenses will appear in the Licenses pane.

- If the license file contains one or more invalid licenses, an warning will appear and only the valid licenses will be imported.
- If the license file contains a license that was already imported, a warning will appear and the duplicate license will not be imported.
- If an error occurs during the import, an error message will inform you that none of the licenses could be imported.

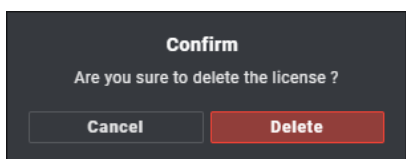
Deleting Licenses

Licenses that have expired can be easily removed from a server again. Proceed as follows:

1. In the Servers pane, select the proper server.
2. Click the ... button of the license you want to remove, and select **Delete** from the context menu.



3. Click **Delete** once again to confirm your action.



The license no longer appears in the list.

4. Monitoring

4.1. Monitoring the Status of the Servers

The status of a Server is displayed below its (host)name and IP address.

xone - 192.10.1.20
● No license

The status depends on:

- the accessibility of the server;
- the availability of the VIA Licensing Service;
- the status of the EVS licenses.

If a server contains multiple EVS licenses, it will adopt the status of the license with the most critical status. The status 'License expired' is more critical than the status 'License expires soon'. In turn, the status 'License expires soon' is more critical than the status 'License up to date'.

A server can have one of the following statuses:

Status	Description
● License up to date	All licenses on the server are still valid. There is no urgency to renew them. The corresponding features are still available.
● License expires soon	At least one of the licenses on the server will expire in less than 2 weeks. If you do not renew it, the corresponding feature will soon be unavailable.
● License expired	At least one of the license has reached its expiration date. The corresponding feature is no longer available. You will have to import a new license file to make the feature available again.
● No license	There are no licenses on the server.
● No status available	The server is up and running and accessible. The VIA Licensing Service is not sending any license statuses. It might be down.
● Offline	The server is inaccessible.



4.2. Monitoring the Status of the Licenses

The Licenses pane reveals the status of each license using a specific color and message.

A license can have one of the following statuses:

Status	Description
● License up to date	The license is still valid. There is no urgency to renew it. The corresponding feature is still available.
● License expires soon	The license will expire in less than 2 weeks. If you do not renew it, the corresponding feature will soon be unavailable.
● License expired	The license has reached its expiration date. The corresponding feature is no longer available. You will have to import a new license file to make the feature available again.

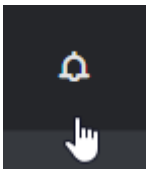
4.3. Monitoring Notifications

About Notifications

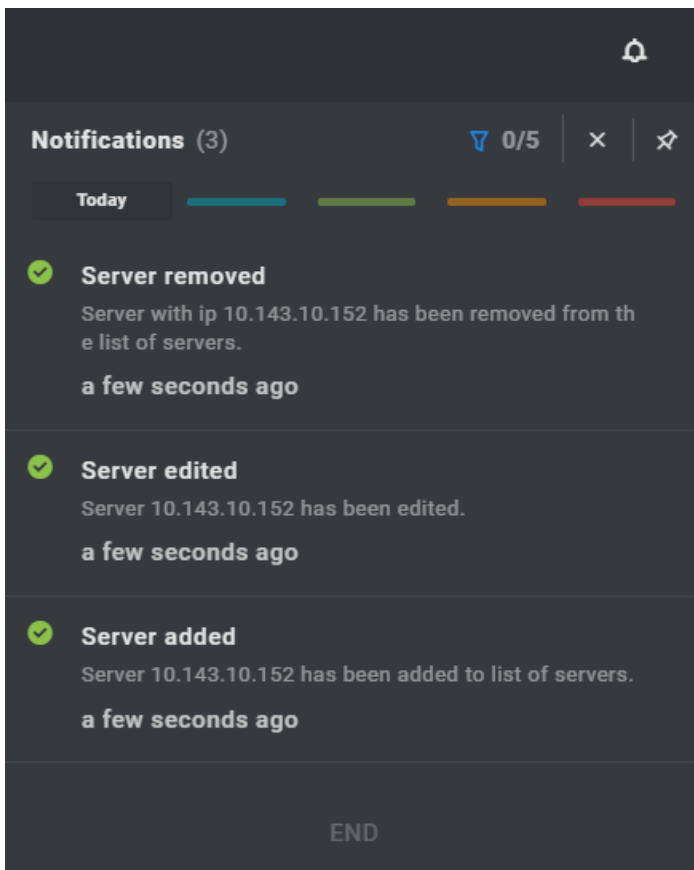
Notifications are automatically generated messages. Their main use is to inform you about actions performed successfully, or to warn you about errors and actions gone wrong. They appear for a brief moment in the top right corner of the VIA Platform interface. A dedicated Notifications pane groups and lists all notifications.

How to Open the Notifications Pane

To open the Notifications pane, click the notification icon in the top right corner of the title bar.



The Notifications pane opens on the right side of the screen.





Filtering the Notifications

About Filters

By default, filters are hidden and no filter is applied. You can filter the notifications based on the current date, their status or on a combination of criteria.

How to Enable the Filter Mode

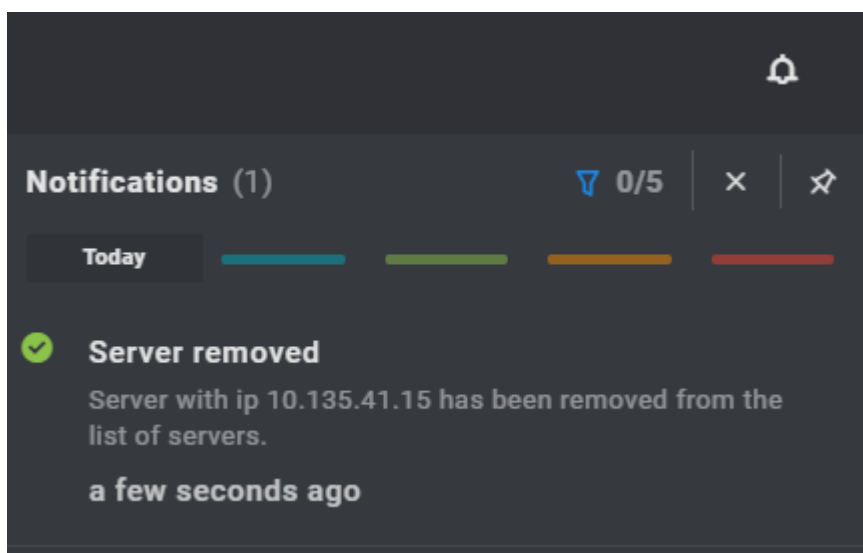
Filter buttons can be displayed (or hidden) at the top of the Notifications pane.

Click the **Show Filters** button.




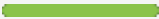

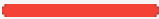
Five **Filter** buttons are visible at the top of the pane.

By default, no filter is applied and all the notifications are displayed.



Status Color Code

A color code is used for the status of each notification.

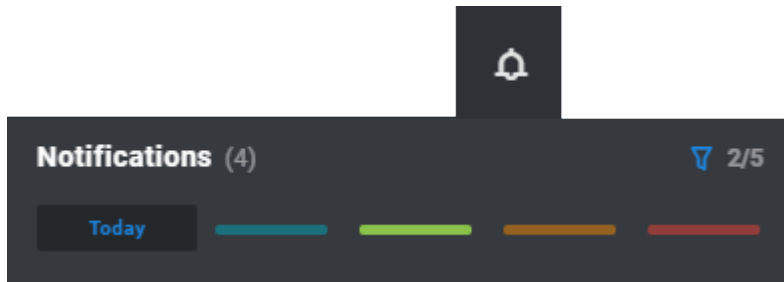
Status Color Code	Status
	Information
	Successful operation
	Warning
	Error

How to Filter Notifications

You can filter the notifications based on the current date, their status or on a combination of criteria.




Click one or several **Filter** buttons to see the corresponding notifications.

The **Filter** buttons are highlighted and the **Show Filters** button shows the number of applied filters.



How to Clear an Applied Filter

You can easily see that a filter is applied:

- The **Show Filters** button is blue and shows the number of applied filters , even when the **Filter** buttons are hidden.
- The **Filter** button is highlighted (e.g.  / )

To clear an applied filter, click its highlighted **Filter** button.

Clearing the Notifications

To clean up the Notifications pane and remove all notifications, click **x** in the top right corner of the pane.





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