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Milestone Systems

MIP plug-in licensing framework

User manual



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Introduction

This manual

This manual describes how to use the MIP plug-in licensing framework. The manual is intended for Milestone Technology Partners that develop MIP plug-ins and want to benefit from the built-in licensing support in XProtect VMS products.

MIP plug-ins and the licensing framework

Milestone provides an integrated licensing framework in the MIP environment. This enables Milestone Technology Partners to issue and manage licenses for MIP plug-in integrations through their My Milestone portal. The MIP licensing framework provides a flexible framework to implement a variety of different licensing models, and provides easy access to license information in all MIP environments.

The MIP licensing framework provides an optimal user experience for the installer or end customer for handling their licenses. End customers don't need to have numerous licenses for various pieces of software because the MIP plug-in license is part of the Milestone SLC (Software License Code). This means that a MIP plug-in can be treated as any other device or add-on, available after online or offline activation in the Milestone XProtect Management Client.

Working with MIP plug-in licenses

These processes are involved in using MIP plug-in licensing:

Process	Role	Organization
Managing user roles on page 5	My Milestone Admin	Technology Partner
Adding licensing to a MIP plug-in on page 7	Plug-in developer	Technology Partner
Registering MIP plug-in integrations on page 10	Application Track user	Technology Partner
Manage MIP plug-in licenses on page 15	License Admin user	Technology Partner
Installing and activating MIP plug-ins on page 19	System administrator	End-user VMS administrator

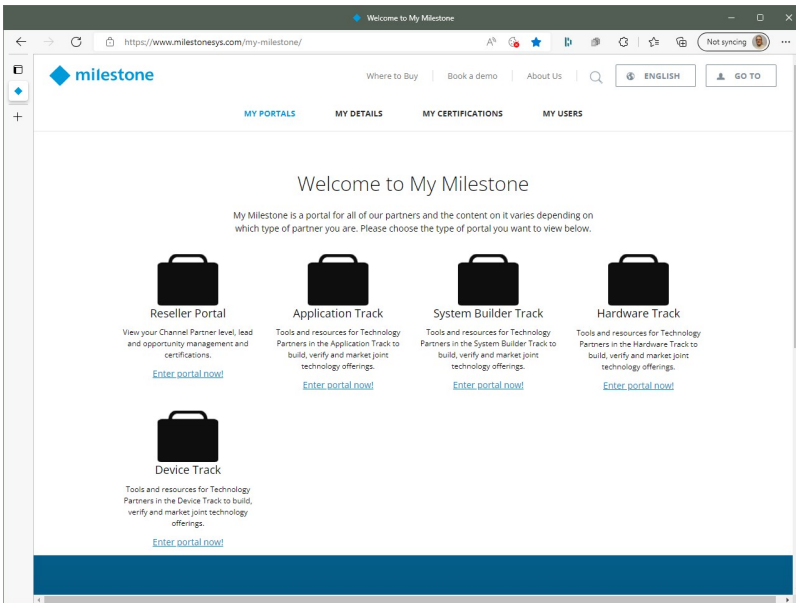
Managing user roles

You need specific user roles (access rights) to register and manage plug-in integrations, to add and manage license registrations, and to assign user roles.

Prerequisites

The Application Track

To register plug-in integrations for MIP license management, a Technology Partner must be enrolled on the Application Track in the Milestone Technology Partner Program.



Required user roles

Task	User role
Assign user roles	MyMilestone Admin
Register and manage plug-in integrations	Any user with a My Milestone account from a Technology Partner on the Application Track
Add and manage license registrations	License Admin

Join the Application Track

If you do not see the **Application Track** portal, here's what to do:

- If you don't see any Technology Partner portals, apply for Milestone Technology Partner Program membership at [Technology Partner Program Application](#)¹ form. Include the **Application Track** in your membership application.
- If you see another Technology Partner portal but cannot find the **Application Track** portal, please contact the Milestone Technology Partner Program team at partner@milestonesys.com.

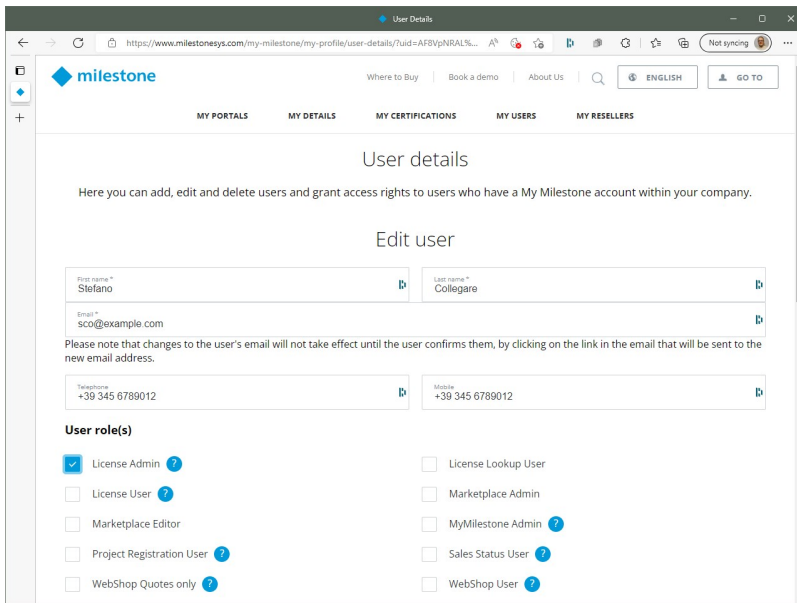
Assign user roles

The **MyMilestone Admin** assign user roles using the [My users](#)² page on their My Milestone portal.



Usually, the **MyMilestone Admin** and the **License Admin** roles are assigned to the primary contact of a Technology Partner. To learn more about user administration, watch this video: [How to add and manage users](#)³

On the **My Users** page, select the user that should add and manage license registrations, and ensure that the user has the **License Admin** role.



¹<https://www.milestonesys.com/community/become-a-partner/technology-partner-program/Technology-Partner-application-form/>

²<https://www.milestonesys.com/my-milestone/my-profile/my-users/>

³

<https://mswebappcdn.azureedge.net/episerverprod/878558006e8e4a9dbc327d53c38a8e53/b3dd17d0378e43f09faef1104ece4c0e.mp4>

Adding licensing to a MIP plug-in

The MIP License Management service does not impose a specific licensing model. The Technology Partner must implement the business logic in the MIP plug-in, using the API provided by `VideoOS.Platform` libraries.



Even if a MIP plug-in is primarily designed for the Smart Client (Client environment) or the Event Server (Service environment), the plug-in must be able to load in the Management Client (Administration environment) to enable license activation.

Licensing business logic

It is up to the plug-in developer to implement the licensing business logic, for example:

- Trial mode (grace period).
- Whether to activate license site-wide or for specific number of items (similar to hardware device licenses).
- License types. You can have more than one license type for a plug-in, for example to enable different sets of plug-in features, or different licensing models.

MIP license information

The MIP License Management service identifies a MIP plug-in as an integration product with a license using the combination of these properties:

- Technology Partner ID
- Plugin ID
- License Type

You use a `MIPLicenseInformation` XML document to register a plug-in integration and its license types.

MIPLicenseInformation XML document

A MIPLicenseInformation XML document looks similar to this:

```
<?xml version="1.0" encoding="utf-16"?>
<MIPLicenseInformation>
  <PluginId>1ab27bcf-cd1d-4fc4-90fb-86ed62efc84b</PluginId>
  <Name>Plugin Sample</Name>
  <Licenses>
    <License>
      <Name>Plugin Sample License</Name>
      <Type>MIPSDK-PluginSample</Type>
    </License>
  </Licenses>
</MIPLicenseInformation>
```

You can use the Milestone XProtect License Registration plug-in to retrieve license information from installed MIP plug-ins. For more information, see [Install the License Registration plug-in on page 10](#).

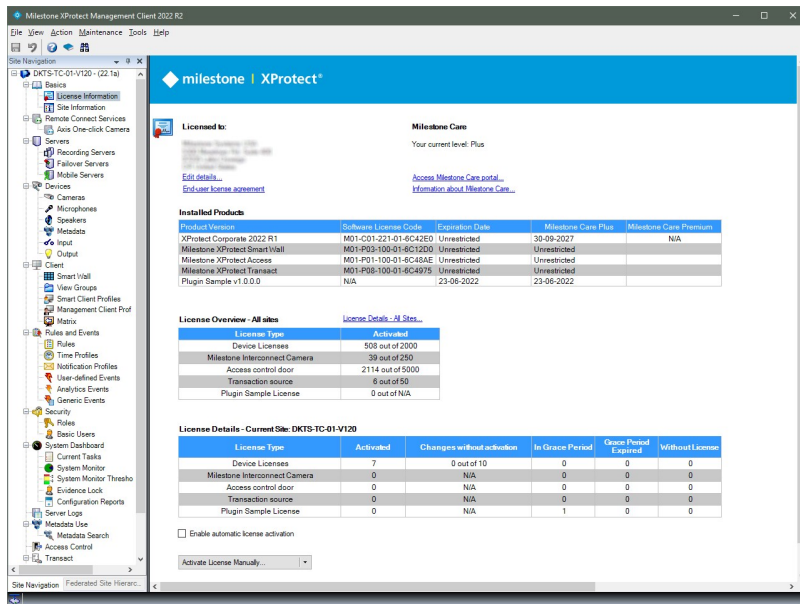
VideoOS.Platform.PluginDefinition and VideoOS.Platform.LicenseInformation

The IDs and names are defined in plug-in source code using the MIP classes `VideoOS.Platform.PluginDefinition` and `VideoOS.Platform.LicenseInformation`.

This table describes the relation between IDs and names in plug-in source code and the corresponding MIPLicenseInformation XML document.

VideoOS.Platform class		LicenseRegistration		Description
PluginDefinition	LicenseInformation	MIPLicenseInformation		
Id	PluginId	PluginId		GUID, integration ID
Name		Name		Integration name
		Licenses		
			License	
			Name	License type name
			Type	Unique within integration

Management Client License Information window



The plug-in Integration name will be displayed in the **Installed Products** list.

The plug-in License type name will be displayed in the **License Overview** and **License Details** lists.

Related resources

Learn more about how to implement MIP plug-in licensing:

- [Introduction to Licenses¹](#)

Code samples:

- [Site License Sample²](#)
- [Server Connection License Sample³](#)

Management Client:

- [License Information window⁴](#)

1

https://doc.developer.milestonesys.com/html/index.html?base=reference/architecture/miplicenseintroduction.html&tree=tree_4.html

2 <https://github.com/milestonesys/mipsdk-samples-plugin/tree/main/ServerConnectionLicense>

3 <https://github.com/milestonesys/mipsdk-samples-plugin/tree/main/SiteLicense>

4 https://doc.milestonesys.com/latest/en-US/standard_features/sf_mc/sf_licensing/mc_licenseinformationpageui.htm

Registering MIP plug-in integrations

Before you can issue licenses for a MIP plug-in integration, you must register the plug-in at the MIP License Management site. You must install both a license registration plug-in and your MIP plug-in on a computer with the Management Client installed to get the licensing information that you need to register a MIP plug-in.

Prerequisites

- To register a MIP plug-in at the MIP License Management site, your company must be enrolled on the Application Track in the Milestone Technology Partner Program. See [Managing user roles on page 5](#).

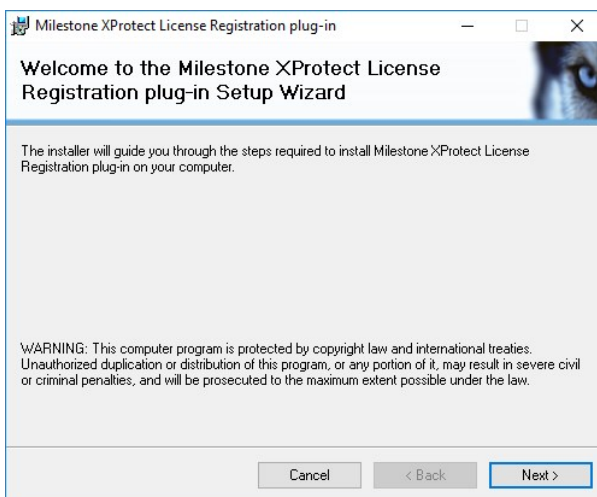
Install the License Registration plug-in

Milestone provides a license registration plug-in that generates a small XML document that can be used for registering an integration at the MIP License Management site. The license registration plug-in allows you to select any MIP plug-in, loaded by the Management Client, that supports licensing. The license registration plug-in will then display an XML document containing the license information for the MIP plug-in.

1. Download the XProtect License Registration plug-in installation file [LicenseRegistrationInstaller.msi](#)¹.

You must install this plug-in on a computer with the Management Client installed.

2. Double-click the `LicenseRegistrationInstaller.msi` installer file to begin the installation.
3. Select **Next** to start the installation.



4. When the installation is complete, select **Close**.

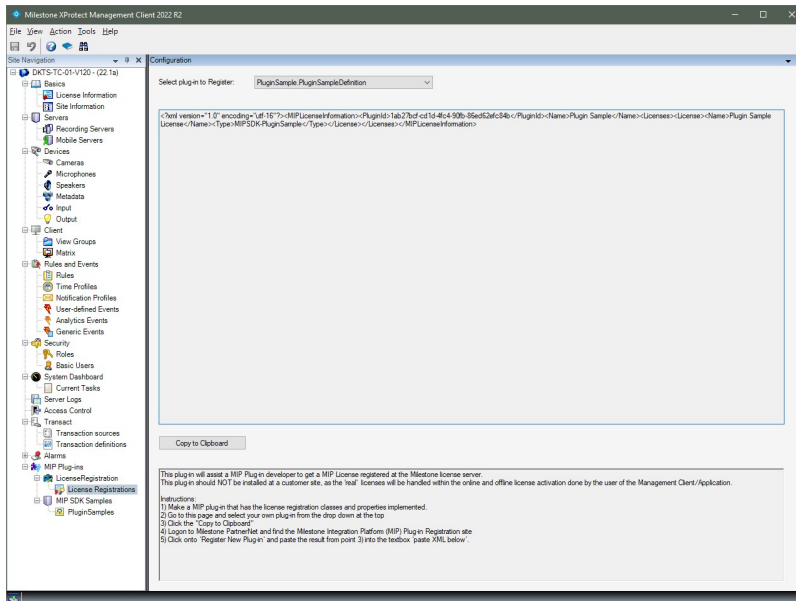
¹<http://download.milestonesys.com/MIPSDK/LicenseRegistrationInstaller.msi>

Register a MIP plug-in

1. Install your MIP plug-in on a computer with the Management Client and the License Registration plug-in installed.
2. In the Management Client, select the **License Registration** MIP Plug-in.

The **Select plug-in to Register** drop-down list contains all available MIP plug-ins that has the license registration class and properties implemented.

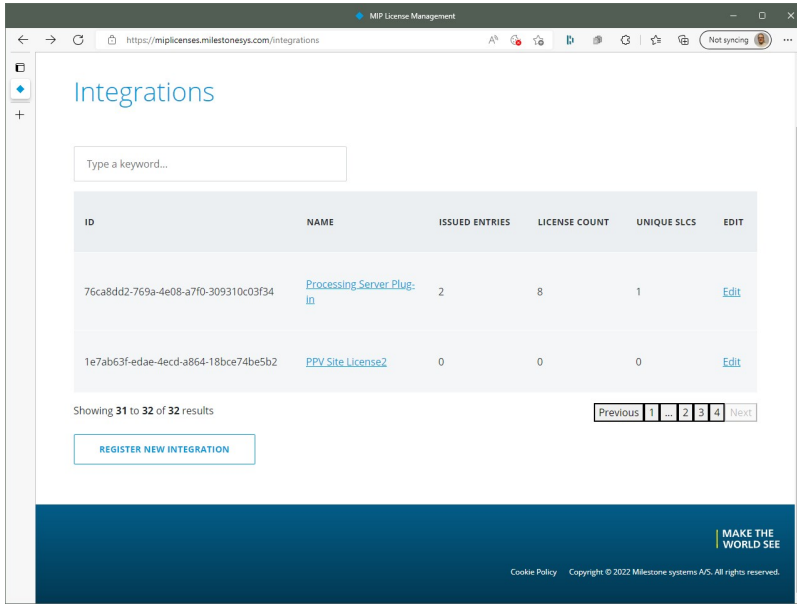
3. Select your MIP plug-in from the **Select plug-in to Register** drop-down list.



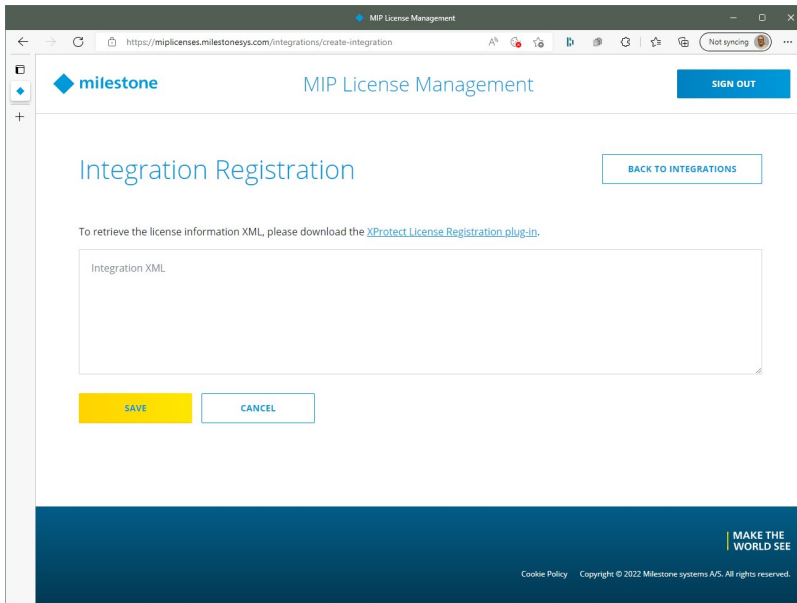
The text box below displays an XML document with the license registration information for the MIP plug-in.

Select **Copy to Clipboard** to copy the license registration information.

4. Sign in to the [MIP License Management¹](https://miplicenses.milestoneys.com/integrations) site.

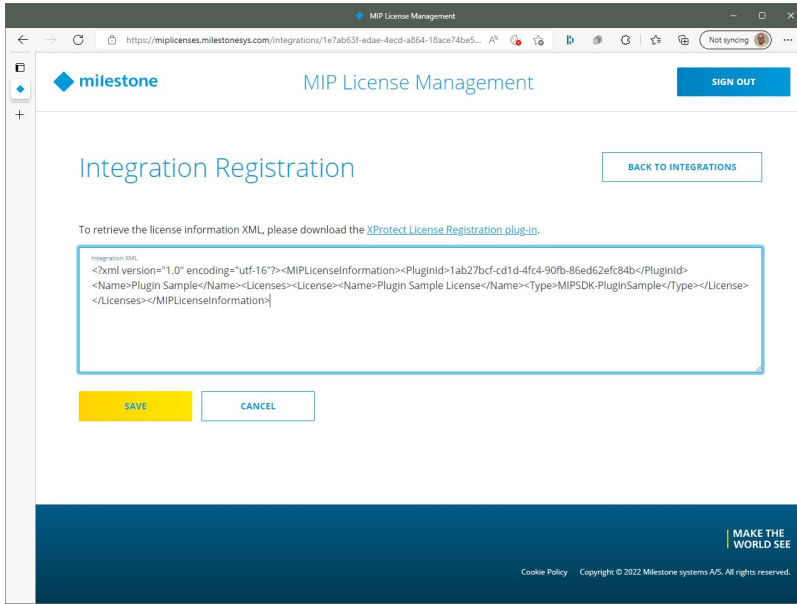


5. To register a new MIP plug-in integration, select the **REGISTER NEW INTEGRATION** button. The **Integration Registration** page is displayed.

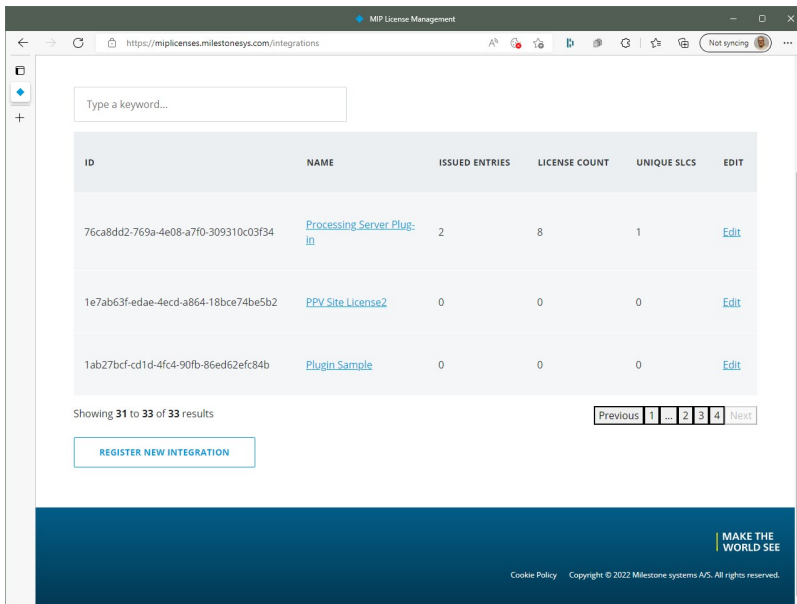


¹<https://miplicenses.milestoneys.com/integrations>

- 6. Move focus to the **Integration XML** text box and paste the XML document into it.



- 7. Select **Save**. The MIP plug-in integration is added to the list.



Edit an already registered MIP plug-in



As soon as a license for a MIP plug-in have been issued, you can no longer edit the registration.

After a MIP plug-in has been registered, you can edit the following properties:

- Plug-in name
- Licenses:
 - Change existing plug-in license types
 - Add more license types

To edit an already registered MIP plug-in, on the MIP License Management page, select **Edit** for the registered MIP plug-in that you want to edit.

Manage MIP plug-in licenses

The following steps show how to associate a customer's SLC (Software License Code) with your MIP plug-in. This enables the MIP plug-in license for activation at the customer site.

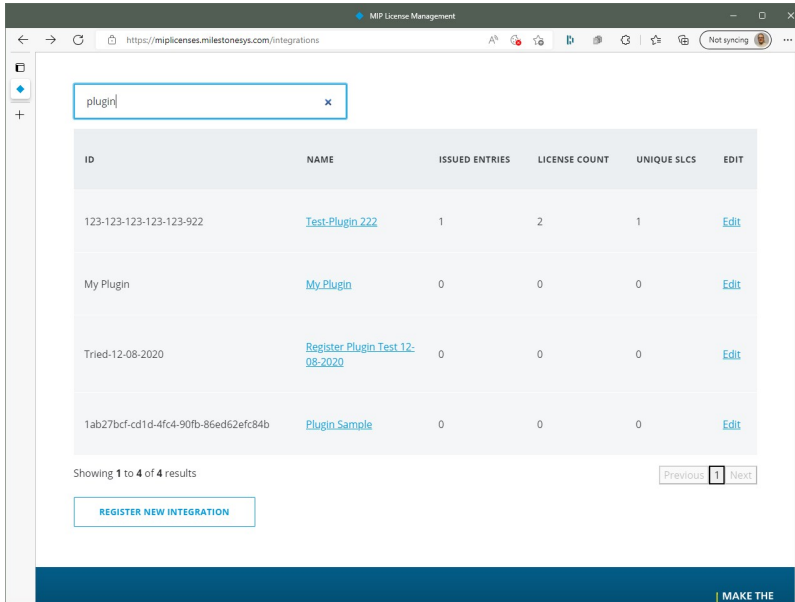
Prerequisites

- You need the License Admin role. Refer to [Managing user roles on page 5](#).
- The MIP plug-in integration is registered. Refer to [Registering MIP plug-in integrations on page 10](#).
- You have the information needed to create a MIP plug-in license:
 - The customer's SLC.
Refer your customer to [License Information window](#)¹ if they need help finding the SLC.
 - The license type, if more than one is implemented by the MIP plug-in.
 - Count, if implemented by MIP plug-in.
 - Expire date, if any.
 - Custom data in addition to SLC and plug-in ID that help you manage the license.

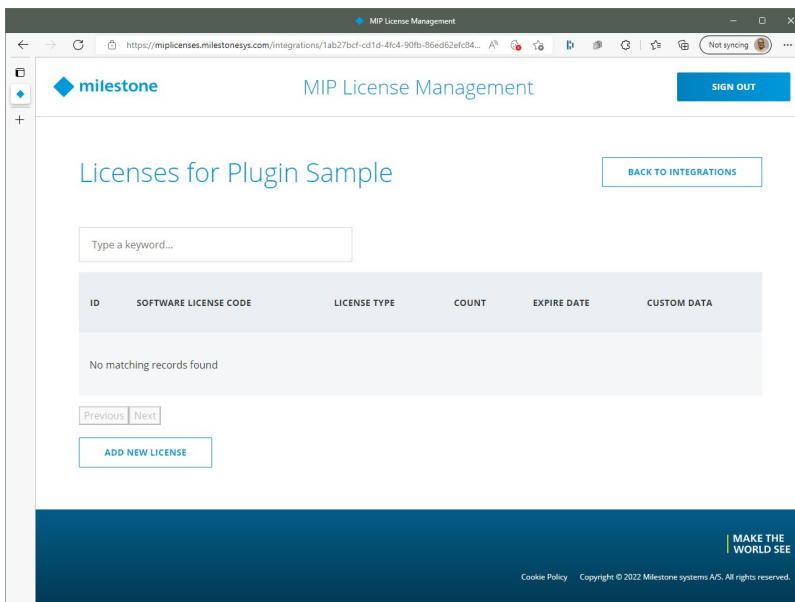
¹https://doc.milestonesys.com/latest/en-US/standard_features/sf_mc/sf_licensing/mc_licenseinformationpageui.htm

Add new MIP plug-in license

1. Sign in to the [MIP License Management¹](https://miplicenses.milestonesys.com/integrations) site. All plug-in integrations registered by your company are listed.
2. To find a plug-in integration, you can enter part of the integration ID or plug-in name in the search field.

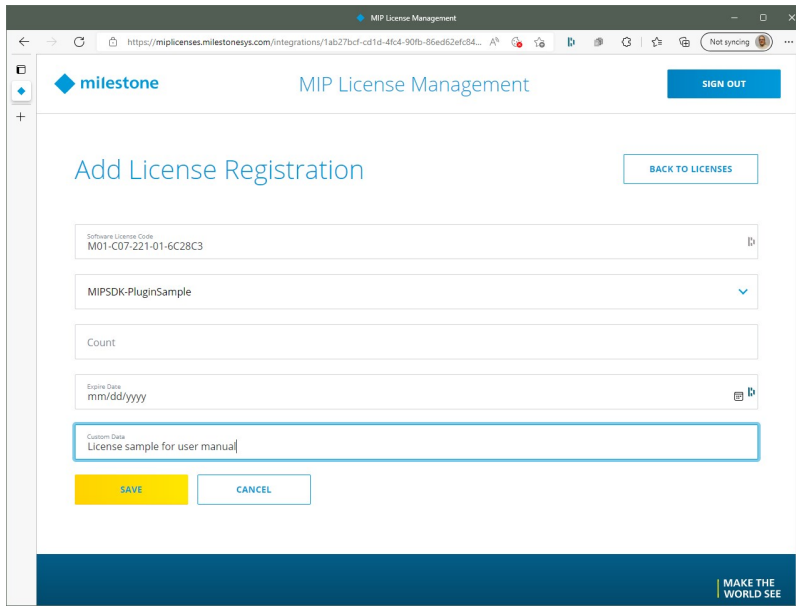


3. Select the plug-in integration name in the **NAME** column. The licenses page for the selected plug-in integration is displayed. In this case, no licenses have been issued yet.



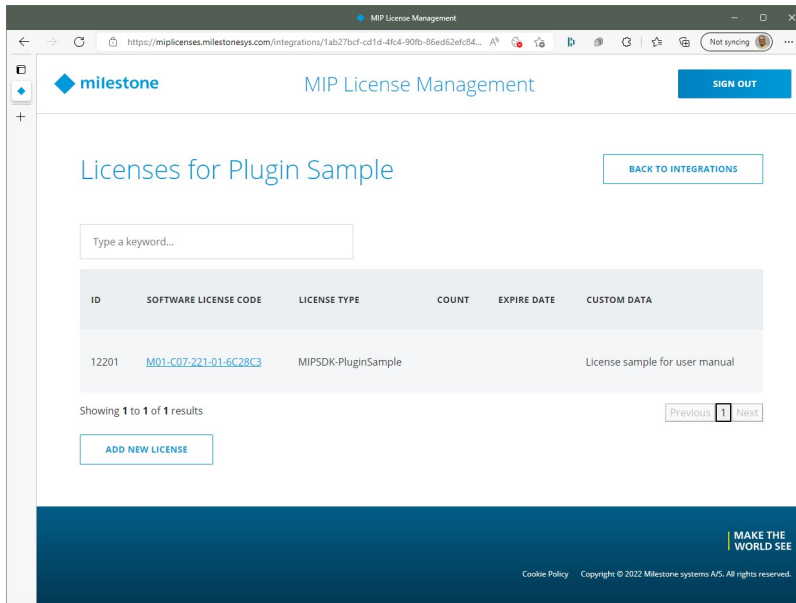
¹<https://miplicenses.milestonesys.com/integrations>

4. Select the **ADD NEW LICENSE** button. The **Add License Registration** page is displayed.



5. In the **Software License Code** field, enter the SLC for the customer XProtect VMS installation.
6. In the **Type** drop-down list, select the license type if more than one is implemented by the MIP plug-in.
7. Optionally, in the **Count** field, enter the number of licensed items. Leave this field blank if the MIP plug-in does not supports this.
8. Optionally, in the **Expire Date** field, enter the date the license expires. Leave this field blank if there is no expiration for the license.
9. Optionally, in the **Custom Data** field, enter a text string that will help identify the license.

10. Select **SAVE**. The new license is added to the list of licenses for this MIP plug-in.



Edit an existing MIP plug-in license

After a MIP plug-in license has been added, you can edit the optional properties:

- Count. This has no effect unless supported by the MIP plug-in.
- Expire Date
- Custom Data

To edit an existing MIP plug-in license, on the licenses page, select the SLC (Software License Code) for the license you want to edit.

Installing and activating MIP plug-ins

The customer activates a MIP plug-in license in exactly the same way that add-on product or hardware device licenses are activated, using the Management Client.

Prerequisites

The customer must be able to install the MIP plug-in on a computer with the Management Client installed.

Related resources

- [Activate your licenses](#)¹
- [License Information window](#)²

¹https://doc.milestonesys.com/latest/en-US/standard_features/sf_mc/sf_licensing/mc_activatelicenses.htm

²https://doc.milestonesys.com/latest/en-US/standard_features/sf_mc/sf_licensing/mc_licenseinformationpageui.htm



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