

# User Guide

# Steamworks DRM

“Using Steamworks for downloadable content DRM with Ultimate DLC Toolkit”

*Trivial Interactive*

*Version 1.2.x*

This short guide will cover the necessary setup for creating, managing and fetching downloadable content intended for a Steam game targeting Windows, Mac or Linux platforms.

## Plugins

Steamwork DRM requires one of the following plugins to be installed in your Unity project for communication with Steam services.

- ☑ Supports the popular **Steamworks.Net** plugin for Unity.
- ☑ Supports the **Facepunch.Steamworks** plugin for Unity.
- ☑ Support for other Steam API plugins can be added manually if required.

## Features

- Listing remote DLC – DLC hosted on Steam can be fetched at any time, even if the base game does not know about it.
- Check DLC ownership – Use Steam user account to verify ownership of DLC before it is ever installed or loaded.
- Retrieving DLC data stream – Get the data stream of installed DLC for loading purposes, without needing to know the install location ahead of time (Assumes that the DLC will be installed under the same root directory as the base game – can be in sub folders of any depth).
- On demand installation – The app can request installation of owned DLC when convenient via the DRM API.
- On demand uninstallation – The app can request that installed DLC be removed from the user's device (not recommended for most cases).
- Track DLC Usage – The app can inform Steam services when a certain DLC is being used by the game (Loaded/unloaded) so that play time and other statistics can be measured by Steam services. This is fully automatic and does not require and extra work to support.

# Project Setup

The following section will cover the necessary setup steps required for the supported Steamworks plugins. You can skip to the section that applies to you and continue reading about Steam DLC once you have completed the setup guide for your chosen plugin.



# STEAM™

**Skip to applicable plugin:**

[Steamworks.Net](#), [Facepunch.Steamworks](#), [Custom/Other Steam plugin](#)

**Or**

[Continue reading about Steam DLC](#)

## Steamworks.Net

*This section is specific to the `Steamworks.Net` plugin for Unity, and if you are using a different plugin you can skip to the appropriate section.*

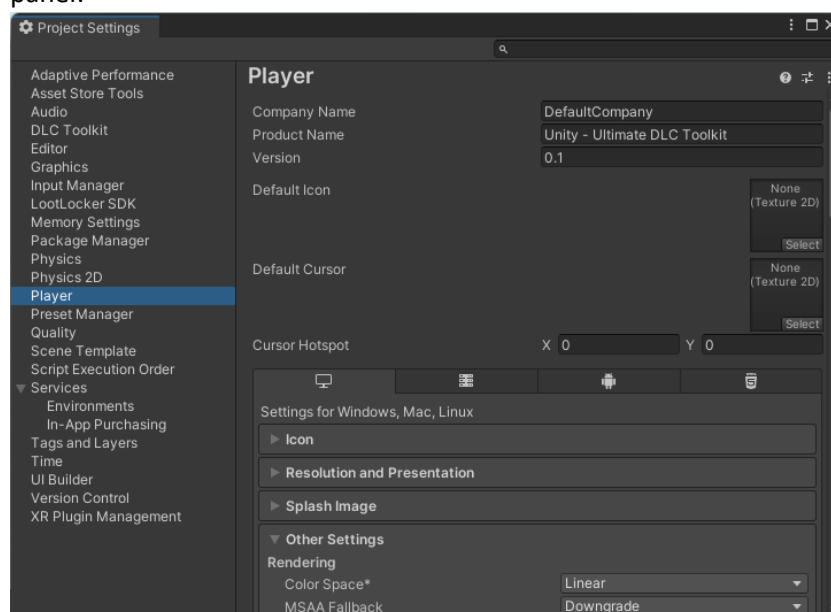
Ultimate DLC Toolkit has fully featured built-in support for Steam using the `Steamworks.Net` API. This means that once setup, Ultimate DLC Toolkit will handle all the Steam API calls and requests automatically when you make a request via the Unified `DLC` API.

First you will need to setup and enable `Steamworks.Net` support in your project by following these steps:

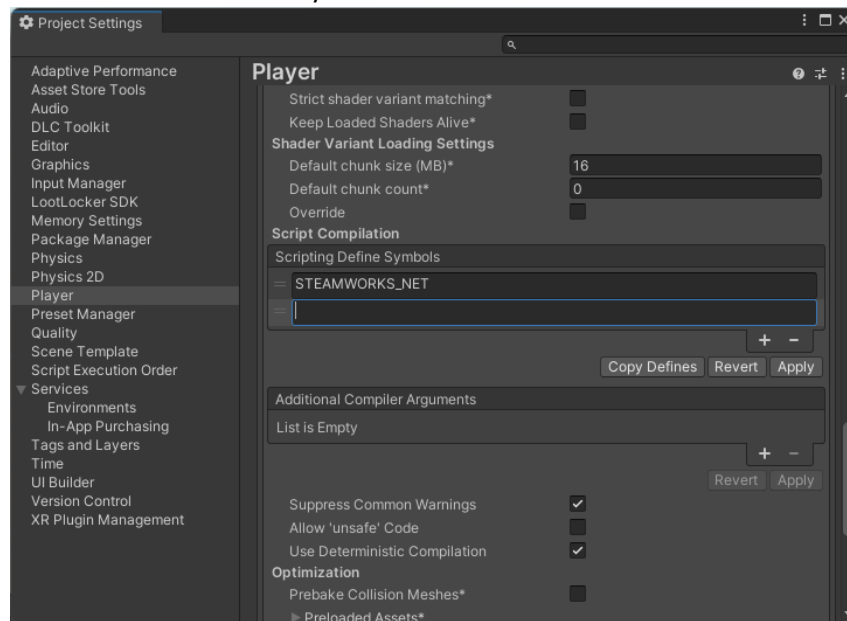
- 1. Install Steamworks.Net:** First you will need to install the plugin if you have not already by following the instructions on the [github page](#), or via the [Steamworks.Net docs](#).
- 2. Initialize Steam:** Next you should ensure that Steam is initialized before making any calls to the unified DLC API, otherwise the requests will fail with an error message that Steam is not running. To initialize Steam via the `Steamworks.Net` API is simply a case of adding the [`SteamManager`](#) script to a game object in one of your first run scenes. It is recommended that you check `SteamManager.Initialized` before making any calls via the DLC unified API.
- 3. Enable Steam DRM:** Finally, you can enable the `Steamworks.Net` built-in DRM support in Ultimate DLC Toolkit by adding a define symbol in the Unity player settings:
  - a. In the Unity editor, select the following menu item to open the project settings for your game:

*`Edit -> Project Settings`*

- b. In the project settings window, select the `Player` section on the left navigation panel:

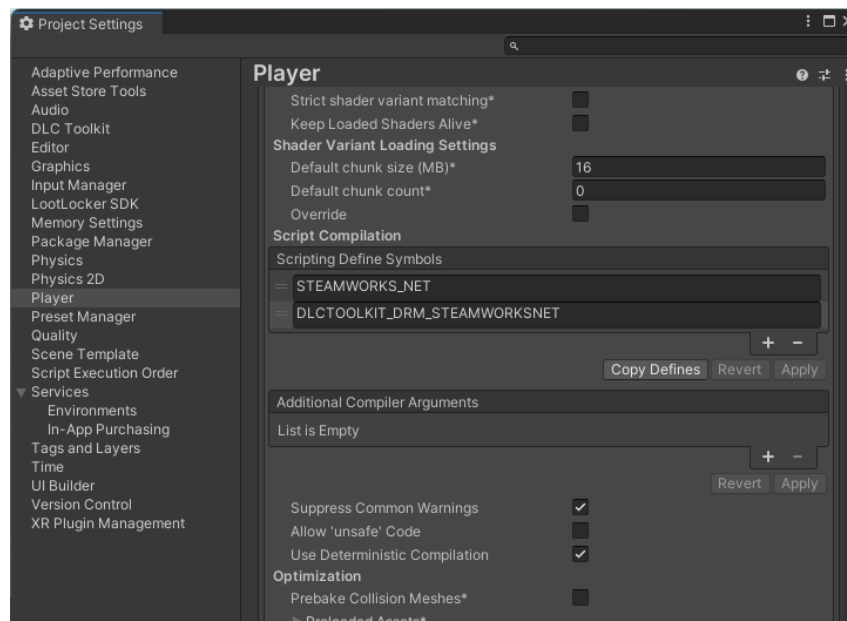


- c. Scroll down and find the list view named 'Scripting Define Symbols'. Hit the '+' button to add a new entry:



- d. Input the following define symbol and click the 'Apply' button once finished:

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- e. Allow Unity to recompile scripts and refresh. 'Steamworks.Net' is now setup and integrated into your Ultimate DLC Toolkit game project!

## Facepunch.Steamworks

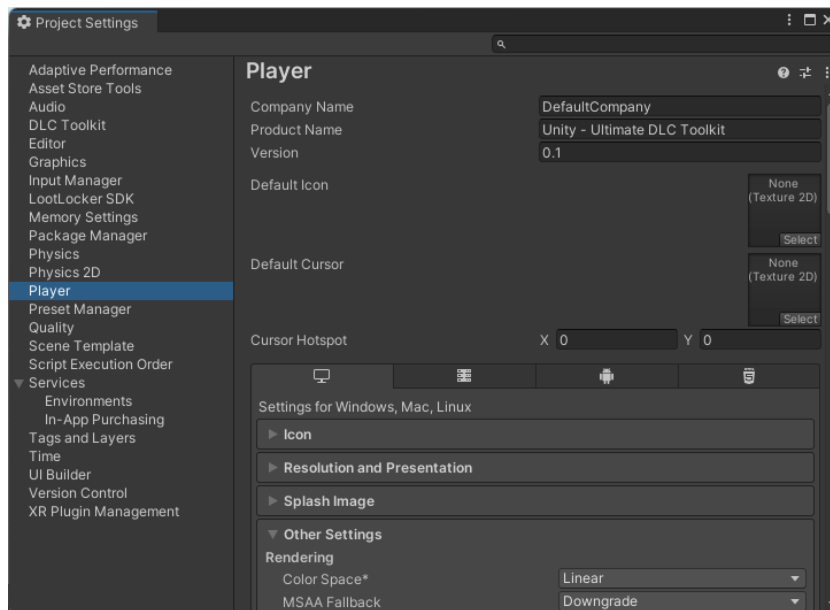
*This section is specific to the `Facepunch.Steamworks` plugin for Unity, and if you are using a different plugin you can skip to the appropriate section.*

Ultimate DLC Toolkit has fully featured built-in support for Steam using the `Facepunch.Steamworks` API. This means that once setup, Ultimate DLC Toolkit will handle all the Steam API calls and requests automatically when you make a request via the Unified `DLC` API.

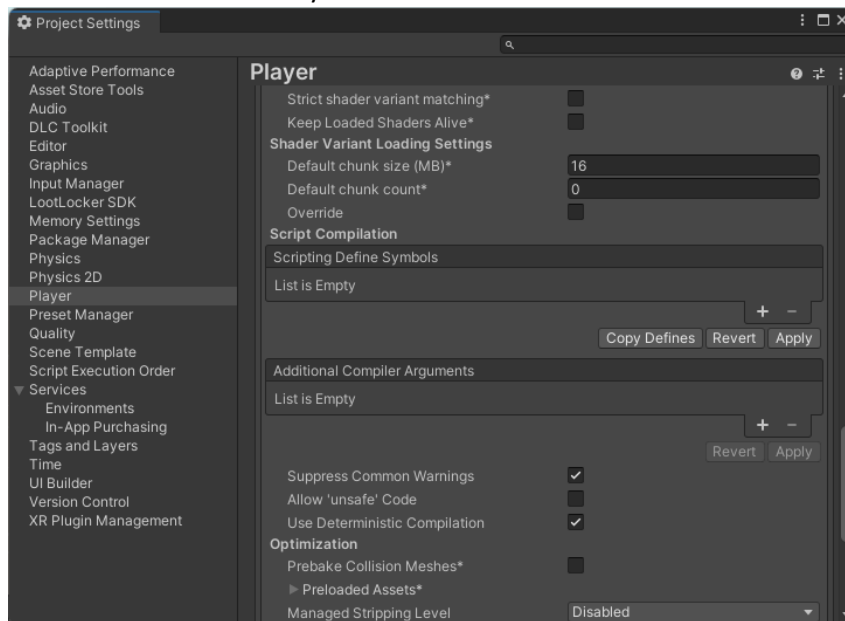
First you will need to setup and enable `Facepunch.Steamworks` support in your project by following these steps:

1. **Install Facepunch.Steamworks:** First you will need to install the plugin if you have not already by following the instructions on the [Installing For Unity](#) docs page.
2. **Initialize Steam:** Next you should ensure that Steam is initialized before making any calls to the unified DLC API, otherwise the requests will fail with an error message that Steam is not running. To initialize Steam via the `Facepunch.Steamworks` API, you will need to call `Steamworks.SteamClient.Init` with your Steam AppId from one of your game scripts as shown in the [setting up docs](#), and then you will also need to run Steam callbacks, also shown in the setting up docs. It is recommended that you check `Steamworks.SteamClient.IsValid` before making any calls via the DLC unified API.
3. **Enable Steam DRM:** Finally, you can enable the `Facepunch.Steamworks` built-in DRM support in Ultimate DLC Toolkit by adding a define symbol in the Unity player settings:
  - a. In the Unity editor, select the following menu item to open the project settings for your game:

```
`Edit -> Project Settings`
```
  - b. In the project settings window, select the `Player` section on the left navigation panel:

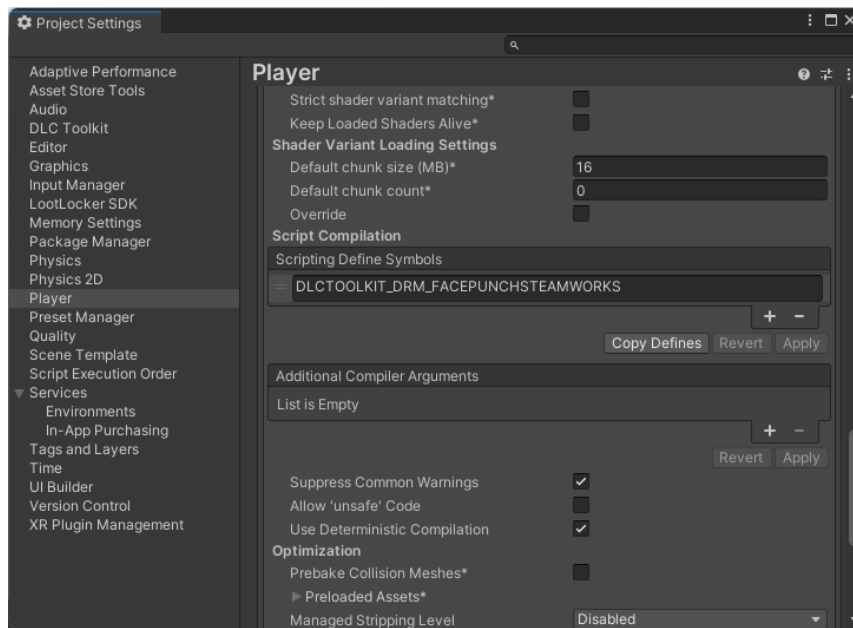


- c. Scroll down and find the list view named 'Scripting Define Symbols'. Hit the '+' button to add a new entry:



- d. Input the following define symbol and click the 'Apply' button once finished:

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- e. Allow Unity to recompile scripts and refresh. `Facepunch.Steamworks` is now setup and integrated into your Ultimate DLC Toolkit game project!

## Custom Steam API

*This section is specific to the using a custom or unsupported Steam plugin for Unity, and if you are using a different plugin you can skip to the appropriate section.*

If you are using a different or custom API for integrating with Steam services, then you will need to create a custom DRM provider so that you can integrate with Ultimate DLC Toolkit.

Creating a custom DRM provider requires implementing a C# interface, and then registering it for use by the unified DLC API. You can find a complete code sample here, and it is just a case of using your intended alternate Steam API in place of the example API:

[Custom DRM Provider Code Sample](#)



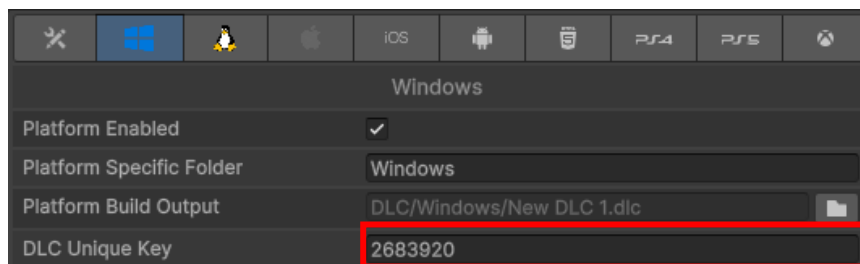
# Creating Steam DLC

*The information listed from this section onwards applies to Steam DLC regardless of the integration plugin used.*

Creating DLC content for Steam has one minor difference from the standard workflow outlined in the main user guide. That difference being that the DLC unique key **MUST** be set to the Steam AppID for the associated DLC created via the Steam partner dashboard.

To do this you must first create a DLC app for your game in the Steam partner dashboard, which will generate a unique app id for that DLC. Creating the DLC listing via the Steam dashboard is outside the scope of this document, but you can check the [Steam docs for DLC](#) which contains a helpful video for creating new DLC for your game, and once completed you will have generated a unique numeric value (usually more than 6 digits) which is your Steam AppID for the DLC.

Once you have the DLC AppID, it is simply a case of selecting the associated DLC profile asset in your Unity project (See the main user guide for more info) and assigning the AppID as the DLC unique key for the platforms you intend to target (Windows, Mac and Linux are supported on Steam).



With that setup, you can now create your DLC assets and content using the normal workflow as outlined in the main user guide.

# Building Steam DLC

Building DLC content for Steam does not require any additional steps and is simply a case of using the Ultimate DLC Toolkit build menu, or the inspector window of your selected DLC Profile to build the content.

The only consideration is the build output location of the DLC in order to make it easy to setup in SteamPipe for uploading. It is recommended that any DLC with the `Ship With Game` option disabled should be built in a separate location as the game:

Name	Date modified	Type	Size
.vs	18/09/2024 09:30	File folder	
Assets	20/09/2024 11:04	File folder	
Build	18/09/2024 15:31	File folder	
DLC	18/09/2024 16:30	File folder	
Library	20/09/2024 10:23	File folder	
Logs	19/09/2024 15:49	File folder	
obj	21/11/2023 09:58	File folder	

For example, in the above image you can see that the built DLC is placed in the `DLC` folder, and the game standalone is placed in the `Build` folder, which will make it easier to manage later.

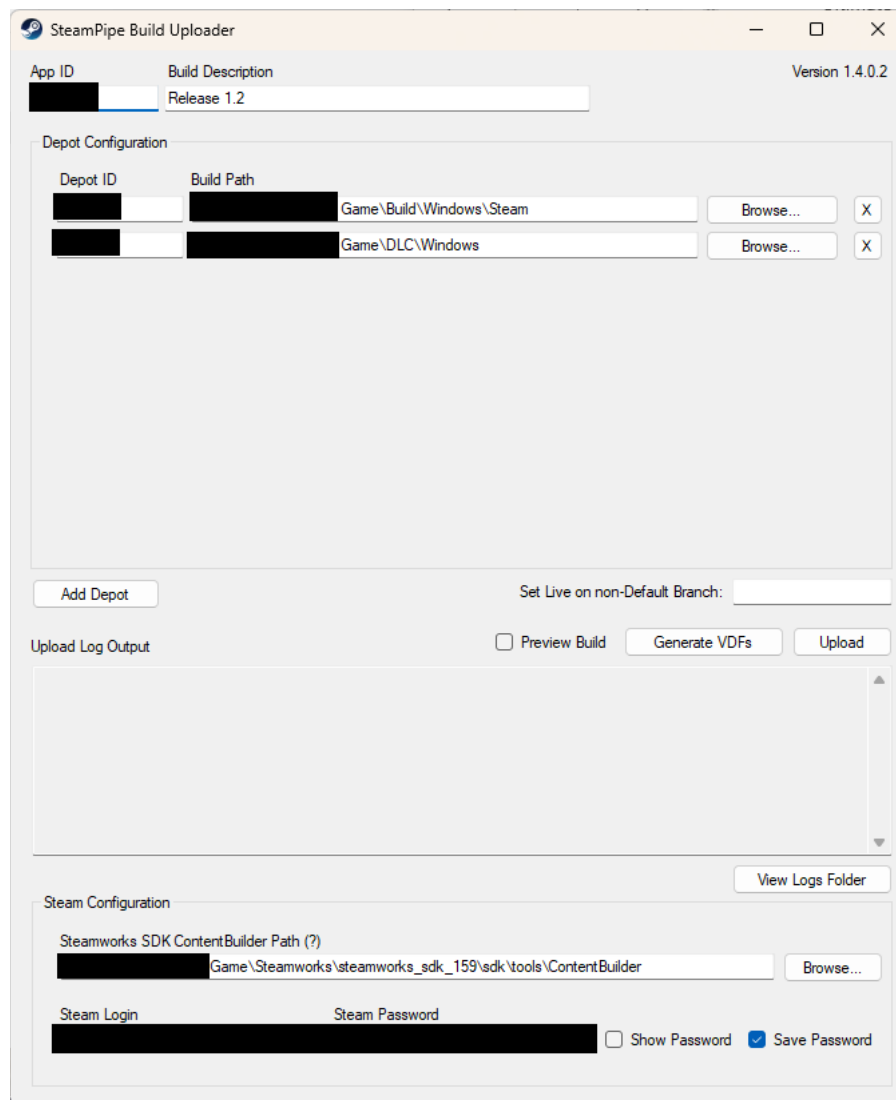
Of course, inside that folder you can also build the DLC into a platform specific folder if you are building for multiple platforms:

Name	Date modified	Type	Size
Android	12/08/2024 11:26	File folder	
Linux	16/08/2024 16:42	File folder	
WebGL	18/09/2024 16:30	File folder	
Windows	22/08/2024 16:15	File folder	

# Uploading DLC to Steam

Once you have created your DLC and built it, you can then test it in the editor using the Ultimate DLC Toolkit test mode (More info in the main user guide), or you can upload to Steam so that you can test how the DLC would work as a standalone.

The whole process of uploading to Steam is outside the scope of this document and there is detailed documentation available from Steam, but as a brief example using the SteamPipe GUI tool, you will want to add any DLC that you have built so that it can be uploaded:



Private information has been omitted, but you can see that there is a depot added for the windows build of the game, and also a windows version of the DLC, pointing to the folders mentioned in the previous section. You should repeat this for any other platforms you need to support, and then simply hit the 'Upload' button.

After that and assuming there were no problems, you can then go to the 'SteamPipe -> Builds' section of the Steam partner dashboard where you will be able to see the build you just uploaded and make it live.

At that point, any time you launch the game via the Steam client, the DLC content will be installed automatically (Since you will be a developer and have access by default), and you can then use the main unified DLC Api outlined in the main user guide for accessing and loading the available DLC content.