



MEDIASEAL

Decryptor Applications Manual

VERSION 6.0.0

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Fortium Technologies Ltd

www.fortiumtech.com

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2 MEDIASEAL

2.1 MEDIASEAL OVERVIEW

MediaSeal



MediaSeal® is a robust, multi-layered content security platform that has been specifically designed for media editing environments.

MediaSeal has been designed to fit smoothly into collaborative workflows with the minimum amount of end user disruption.

Using a combination of sophisticated data encryption techniques and multi-layer access controls, MediaSeal® can protect sensitive content and provide comprehensive security auditing.

3 COMPONENTS

3.1 MEDIASEAL DECRYPTOR CLIENT



MediaSeal Decryptor is a client application that is used to decrypt content that has been protected using MediaSeal encryption.

Access to MediaSeal protected content is determined by the person protecting the content. The factors of authentication may include a combination of a password, iLok and Server Authentication.

Authorising access to protected content is undertaken by the MediaSeal Decryptor Client when you try to access a MediaSeal protected file. The MediaSeal Decryptor Client will ask you to enter a password to access the file, however it may also verify your access with a remote server and that you have the correct iLok License configured.

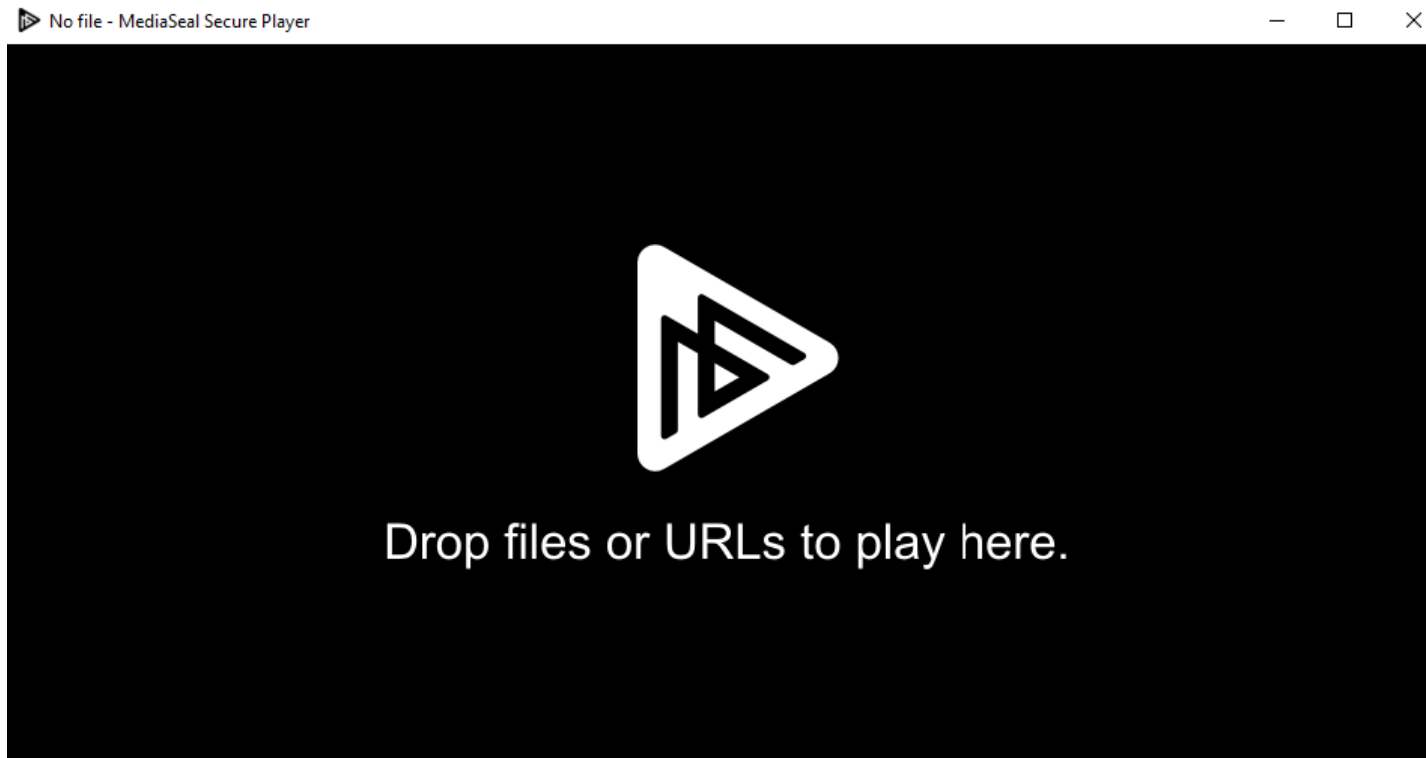
MediaSeal Decryptor client integrates seamlessly by allowing you to utilise your preferred applications to view and edit content whilst the content remains protected.

3.2 MEDIASEAL SECURE PLAYER



MediaSeal Secure Player is a media player that is bundled as part of MediaSeal Decryptor Toolset. MediaSeal Secure Player enables authorised viewing whilst preventing editing, exporting, screen grabbing and screen recording of the protected content.

MediaSeal Secure Player enables viewing both encrypted and unencrypted media content and supports a wide variety of media formats. MediaSeal administrators can choose to encrypt content that can only be viewed with MediaSeal Secure Player.



3.3 MEDIASEAL SECURE VIEWER



MediaSeal Secure Viewer is a document viewer that is bundled as part of MediaSeal Decryptor Toolset. MediaSeal Secure Viewer is designed to enable authorised viewing whilst preventing editing, exporting, screen grabbing and screen recording of the protected content.

MediaSeal Secure Viewer enables viewing of both encrypted and unencrypted documents. It supports PDF, TIFF and XPS file types. MediaSeal administrators can choose to encrypt files that can only be viewed with MediaSeal Secure Player.



4 SYSTEM REQUIREMENTS

4.1 HARDWARE REQUIREMENTS

4.1.1 Minimum Hardware Requirements

Processor: Dual Core Intel / AMD processor (or Above)

Memory: 4Gb RAM (or Above)

Storage: 1 Gb free space (or Above) + additional space as needed for content Files

4.2 SUPPORTED OPERATING SYSTEMS



MediaSeal is supported on a range of operating systems and versions. We regularly update our products to ensure we support the latest operating systems.

For the latest information and list of supported operating systems please visit our support site.

MediaSeal Support Site

5 REQUIREMENTS

5.1 MEDIASEAL ACCOUNT



You will need to register a MediaSeal Account to use the MediaSeal Decryptor Client for content protected with Two-Factor Authentication (2FA).

You do not require a MediaSeal account to access password-only protected content, however we recommend registering for a MediaSeal account for future use.

To begin the registration process, you will receive an email invitation containing an individual registration link from **noreply@mediaseal.com**. Simply click on the link or paste into your browser and then complete the online registration form.

If you have not received an invitation to register for a MediaSeal account, please contact the asset owner, or check your spam folder.




5.2 MEDIASEAL DECRYPTOR CLIENT SOFTWARE





MediaSeal Decryptor Client software can be downloaded from the MediaSeal Registration Portal in the Downloads Section. This section is available once all other registration sections have been completed. Alternatively, if you require access to solely password-only content, links to download the software will be sent to you from MediaSeal support when requested by the asset owner.

Downloads

Decryption Software

-  [Download Decryptor for Windows](#)
-  [Download Decryptor for Mac \(To uninstall, run uninstall script in this installer\)](#)
-  [Download Decryptor for Mac Legacy \(MacOS 10.08 & 10.09\)](#)

Documentation

-  [Download Quick Start Guide](#)
-  [Download Support Guide](#)

It is recommended that you check often for new updates. MediaSeal regularly receives new features, functionality, and updated security.

Download the latest MediaSeal software

<https://gs.cloud.mediaseal.com/signin>

5.3 LICENSING



The MediaSeal Decryptor Client license is managed using iLok and PACE technologies. As part of the MediaSeal registration process you will be asked for your iLok account details. You can use either an existing iLok account or create a new iLok account.

5.3.1 Two-Factor Authentication Protected Content



MediaSeal Decryptor Client requires a MediaSeal Decryptor Client license when working with content requiring Two-Factor Authentication (2FA). To obtain a MediaSeal Decryptor Client license you must register with MediaSeal and specify an iLok account. The license will then be deposited to your account and you can then activate and allocate the license to either a physical iLok or a computer.

5.3.2 Password-Only Protected Content



MediaSeal Decryptor client application can be used to access content that has been encrypted with a password-only. If you are receiving content that does not require Two-Factor authentication, you can install the MediaSeal Decryptor client without the need for registering with MediaSeal and obtaining a MediaSeal license.

However, where possible we would recommend registering with MediaSeal to receive notification of security updates and required software updates.

5.4 ILOK ACCOUNT



An iLok account is a 3rd party license management service that is used to manage MediaSeal licenses. As part of the MediaSeal registration process, you will be asked to enter your existing iLok account details or create a new iLok account.

A MediaSeal Decryptor license will be deposited to your iLok account during the MediaSeal registration process. Once you have registered, you can activate and allocate your license to a physical iLok or to a specific computer (soft license).

More information on iLok and PACE technologies, and where to purchase a physical iLok can be found on the website

<https://www.ilok.com>

5.5 PERMISSIONS TO INSTALL SOFTWARE



You will need administrative permissions on your computer to be able to install the MediaSeal Decryptor Client Software. If you do not have permissions, please contact your System Administrator for further assistance.

6 VERSION COMPATIBILITY

6.1 DECRYPTOR APPLICATION COMPATIBILITY



MediaSeal is regularly updated to include the latest security features and enhancements. On occasion, this requires changes that are incompatible with previous versions.

To ensure compatibility with all MediaSeal components, please install the latest version of the Decryptor Client Toolset.

6.2 SUPPORTED APPLICATIONS



MediaSeal supports the vast majority of media editing software. It is file agnostic by design but uses a database of compatible applications that have been tested and verified.

To open MediaSeal protected content with an application, the application must be an approved application that has been tested by Fortium. If an application fails to open a MediaSeal file, or reports a file is corrupt, it may not be part of our approved compatibility database. New additions can be requested via our support channel.

MediaSeal Decryptor Client is continually tested to ensure latest applications are compatible with MediaSeal.

7 MEDIASeal ACCOUNT REGISTRATION

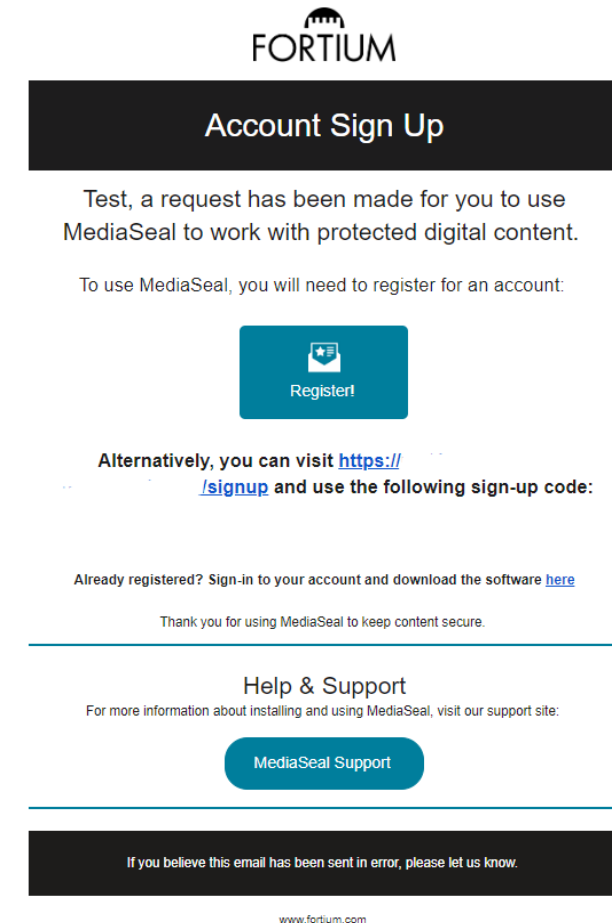
7.1 ACCOUNT SIGN UP INVITATION



Go to the email invitation containing an individual registration link from **noreply@mediaseal.com**. Simply click on the link or paste into your browser to start the registration process.

- Click the link “Register” in the email you received.

If you have not received an invitation to register for a MediaSeal account, please contact the asset owner.



7.2 REGISTRATION DETAILS



To create an account, enter your email address, sign-up code and create a new password. Once you click sign up, you will be asked to enter your details and select an iLok account in which to deposit your Decryptor license. You can also create a new iLok account if required.

7.2.1 Create Account

To create your account:

- Enter email address
- Enter **password**
- Click **sign up**

The screenshot shows the MediaSeal website's registration page. At the top, there is a dark header with the MediaSeal logo on the left and 'Home' and 'Sign in' links on the right. The main content area is light gray and contains a white registration form. The form is titled 'Please Register' with a subtitle 'Invited users with a licence code only'. It has four input fields: 'Email Address' with placeholder text 'Your Email address', 'Password' with placeholder text 'Choose a Password', 'Confirm Password' with placeholder text 'Confirm your chosen Password', and 'Licence Code' with placeholder text 'Invitation Licence Code'. Below these fields is a blue 'Sign up' button. At the bottom of the form, there is a link that says 'Already have an account? Sign In'.

7.2.2 Enter Your Details

Enter your details:

- Enter your Contact Number including international dialling code
- Enter your Company Name
- Enter your Company or Department Location
- Enter City
- Enter State
- Click Continue Registration

The screenshot shows the MediaSeal web application interface. At the top, there is a dark header with the MediaSeal logo and navigation links: Home, Invites, and Logout. Below the header, a green notification bar states: "Great news you have successfully started the MediaSeal sign-up process." The main content area is titled "Getting you registered with MediaSeal....." and contains two sections: "Your Details" and "Your Company Details".

Your Details

Email Address

First Name: Test

Last Name: User

Contact Number: Telephone/Cell Number (including country code and extension)

Your Company Details

Company Name: Name of the company in which you currently employed


Location: Location of your company

City: City where your company is based


State: State or County where your company is based

At the bottom of the form is a blue button labeled "Continue Registration".

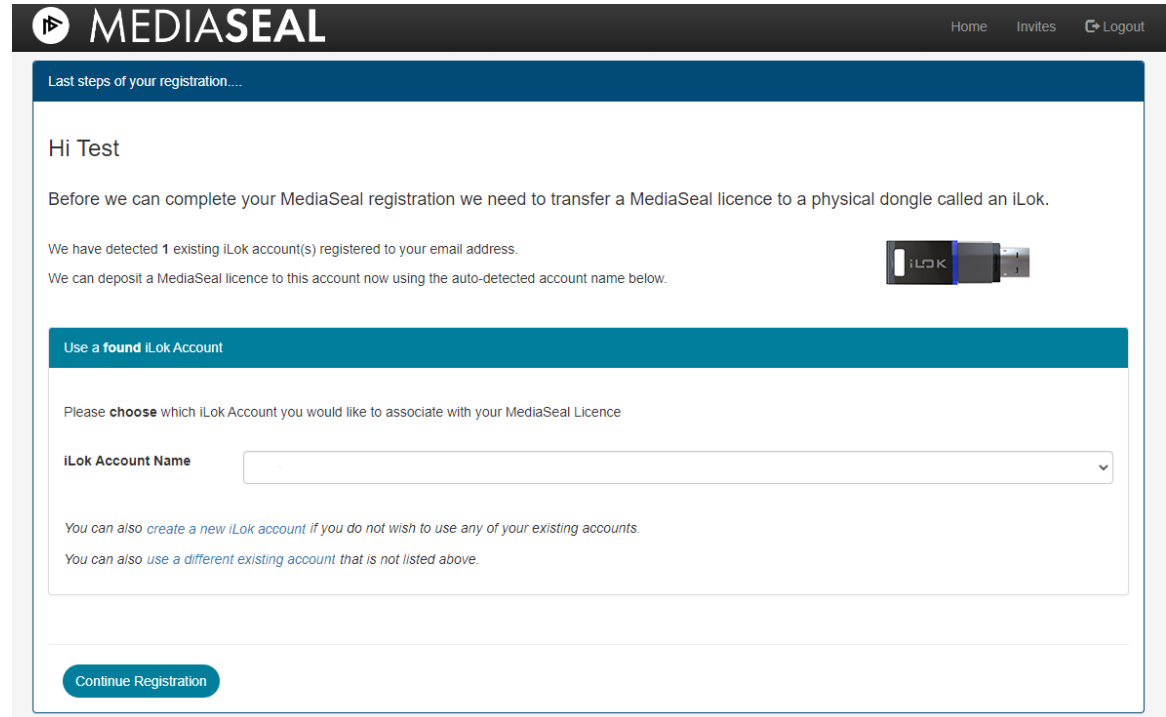
7.3 iLok Account

 When you register with MediaSeal, you will also require an iLok account. You can use an existing iLok account or create a new account. An iLok account is used by MediaSeal to hold the MediaSeal Decryptor Client license.

7.3.1 Use an Existing iLok Account

 To use an existing iLok account:

- Enter your iLok Account Name
- Click Continue Registration



The screenshot shows the MediaSeal website interface. At the top is a dark header with the MediaSeal logo and navigation links: Home, Invites, and Logout. Below the header is a blue banner that reads "Last steps of your registration...". The main content area has a heading "Hi Test" and a message: "Before we can complete your MediaSeal registration we need to transfer a MediaSeal licence to a physical dongle called an iLok." It then states: "We have detected 1 existing iLok account(s) registered to your email address. We can deposit a MediaSeal licence to this account now using the auto-detected account name below." To the right of this text is an image of an iLok USB dongle. Below this is a section titled "Use a found iLok Account" with a sub-header "Please **choose** which iLok Account you would like to associate with your MediaSeal Licence". There is a dropdown menu labeled "iLok Account Name". Below the dropdown, there are two lines of text: "You can also [create a new iLok account](#) if you do not wish to use any of your existing accounts." and "You can also [use a different existing account](#) that is not listed above." At the bottom of the form is a blue button labeled "Continue Registration".

7.3.2 Use a New iLok Account



MediaSeal can help you create a new iLok account and deposit a new MediaSeal Decryptor license to your account.

To create a new iLok account

- Click create a new iLok account
- Choose an iLok Account Name
- Enter a Password
- Enter Password Confirmation
- Click Continue Registration

The screenshot shows the MediaSeal website's registration interface. At the top, the MediaSeal logo and navigation links (Home, Invites, Logout) are visible. Below the header, a blue bar indicates 'Last steps of your registration....'. The main content area greets the user with 'Hi Test' and explains that a MediaSeal license needs to be transferred to a physical iLok dongle. An image of an iLok dongle is shown. The 'Create a new iLok Account' section is highlighted with a blue header. It prompts the user to 'Please choose a name for your iLok account' and provides a text input field for the 'iLok Account Name'. Below this, it states 'To create a new PACE iLok account you will need to specify an account password.' and provides input fields for 'Password' and 'Password Confirm'. At the bottom of this section, there are two lines of smaller text: 'You can also use a different existing account instead of creating a new one.' and 'You can also go back and choose a previously listed account.' A 'Continue Registration' button is located at the bottom of the form.

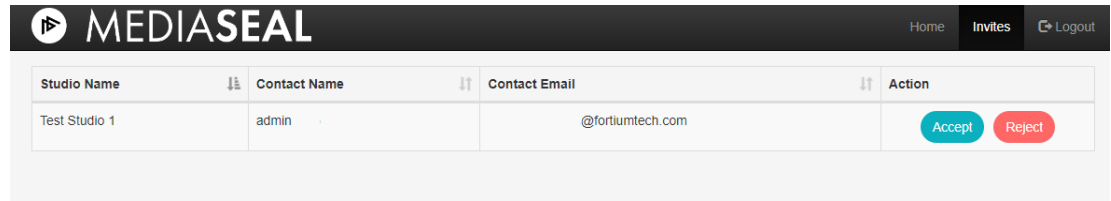
8 STUDIO INVITES



You may be invited to a MediaSeal server, which allows you to receive Two-Factor Authenticated content. To allow them to add your MediaSeal credentials to their studio server and encrypt content for you, you must accept the invitation.

To accept or reject the invite

- Click on the **invites** tab
- Click **Accept** or **Reject**



Studio Name	Contact Name	Contact Email	Action
Test Studio 1	admin	@fortiumtech.com	<button>Accept</button> <button>Reject</button>

9 DOWNLOAD



After successfully registering on the portal you will be able to download the MediaSeal Decryptor Client software.

- **Download** the software from the Software section that corresponds with your Operating System (OS).

- *If the software section is not visible, please contact MediaSeal Support to activate.*

The screenshot displays the MediaSeal user portal for a user named 'Hi Test User'. The interface includes a navigation bar with 'Home', 'Invites', and 'Logout' links. Below the user's name, there is a 'Your Details' section with two buttons: 'Change My Details' and 'Change My Password'. The details are organized into a table with three columns: Email Address, iLok Account Name, Name, Company Name, Contact Telephone, Location, City, and State. The 'Downloads' section is located below the details, featuring two sub-sections: 'Decryption Software' and 'Documentation'. The 'Decryption Software' section lists three download links: 'Download Decryptor for Windows' (with a Windows icon), 'Download Decryptor for Mac (To uninstall, run uninstall script in this installer)' (with a Mac icon), and 'Download Decryptor for Mac Legacy (MacOS 10.08 & 10.09)' (with a Mac icon). The 'Documentation' section lists two download links: 'Download Quick Start Guide' (with a PDF icon) and 'Download Support Guide' (with a PDF icon).

Email Address	iLok Account Name

Name	Company Name	Contact Telephone
Test User	Fortium	0000000000
Location	City	State

Downloads

Decryption Software

- Download Decryptor for Windows
- Download Decryptor for Mac (To uninstall, run uninstall script in this installer)
- Download Decryptor for Mac Legacy (MacOS 10.08 & 10.09)

Documentation

- Download Quick Start Guide
- Download Support Guide

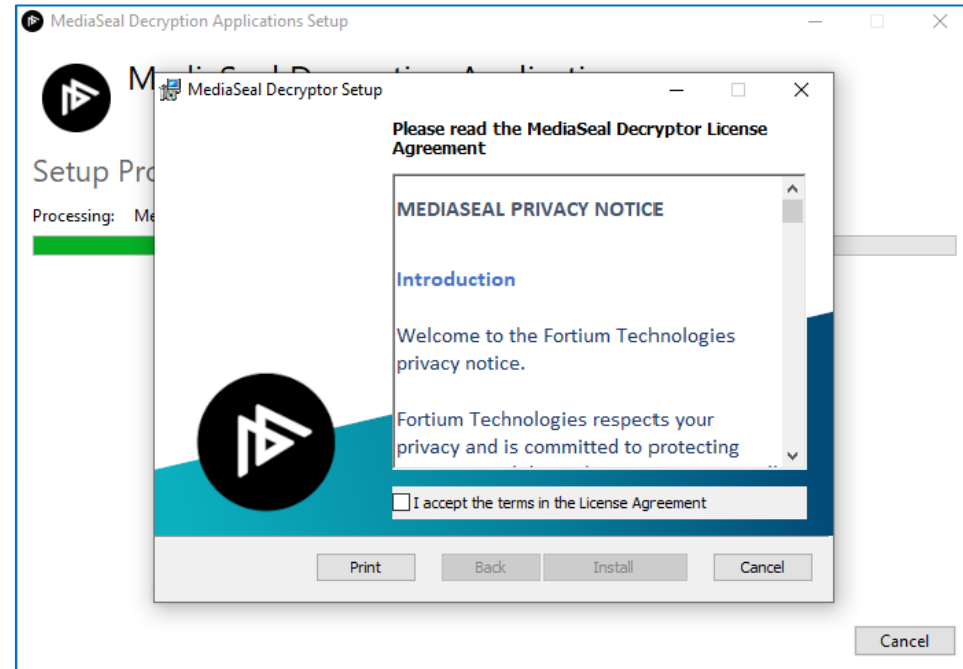
10 INSTALL

10.1 INSTALLATION ON WINDOWS



To install MediaSeal Decryptor Applications for Windows, please ensure that you have closed any open applications and saved all your files. MediaSeal Decryptor Applications will require you to restart your machine once the installation is completed.

- Open or extract the contents of the compressed file **MediaSealDecryptorx.x.xWin.zip**
- Locate and launch **MediaSealDecryptorApplications.exe** and follow the on-screen instructions.



MediaSeal Decryptor Client will require you to restart.

Please save and close any open files before proceeding.

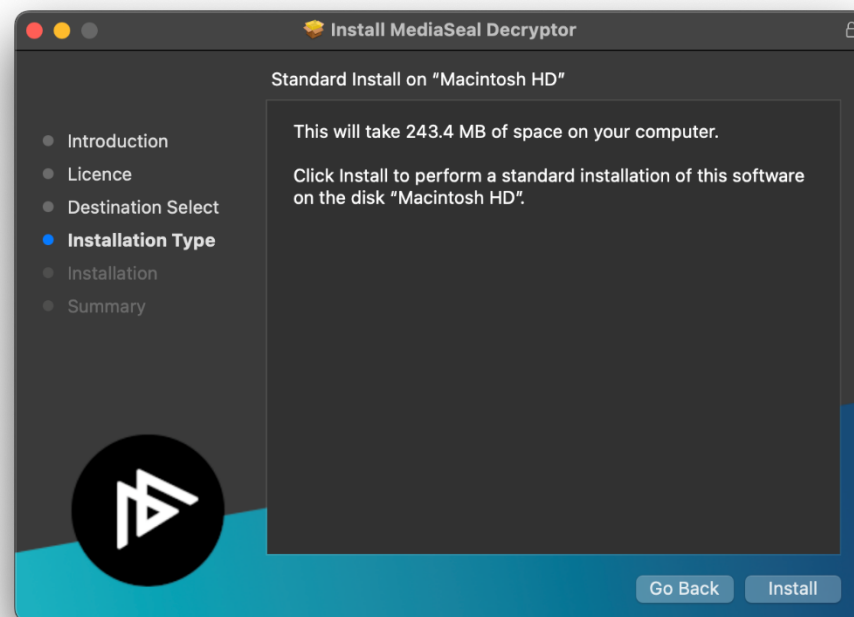
10.2 INSTALLATION ON MACOS



To install MediaSeal Decryptor Client Toolset for macOS, please ensure that you have closed any open applications and saved all your files. MediaSeal Decryptor Client Toolset will require you to restart the machine once the installation is completed.

To install MediaSeal Decryptor toolset:

- Open or extract the contents of the file **MediaSealDecryptorx.x.xOSX.zip**
- Locate and launch **MediaSealDecryptor.dmg** and follow the on-screen instructions.



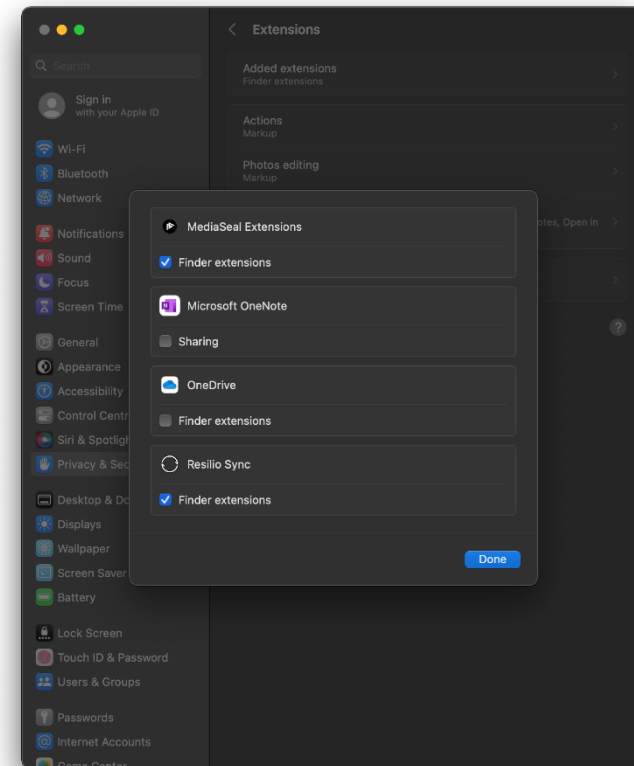
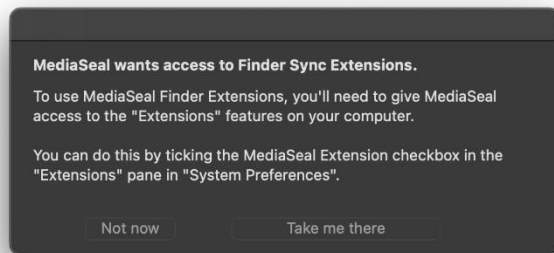
MediaSeal Decryptor Client will require you to restart.

Please save and close any open files before proceeding.

10.2.1 MediaSeal Finder Extensions



The MediaSeal Finder Extensions feature used by MediaSeal includes graphical overlays for certain MediaSeal file types. During the installation process, the installer will provide the opportunity to provide MediaSeal access to the “Extensions” feature on your computer.



To configure the extensions:

- Click **Take me there**
- Tick **Finder Extensions** under MediaSeal Extensions

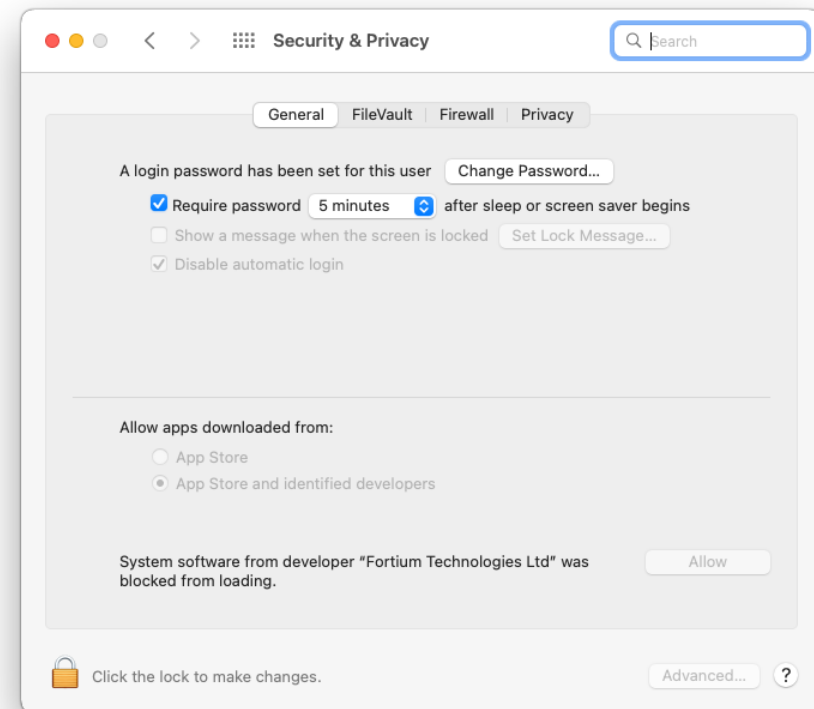
10.2.2 Installation Helper



As part of macOS additional security and safeguard measures, your system may require you to approve the MediaSeal software installation. MediaSeal provides an Installation Helper for this process.

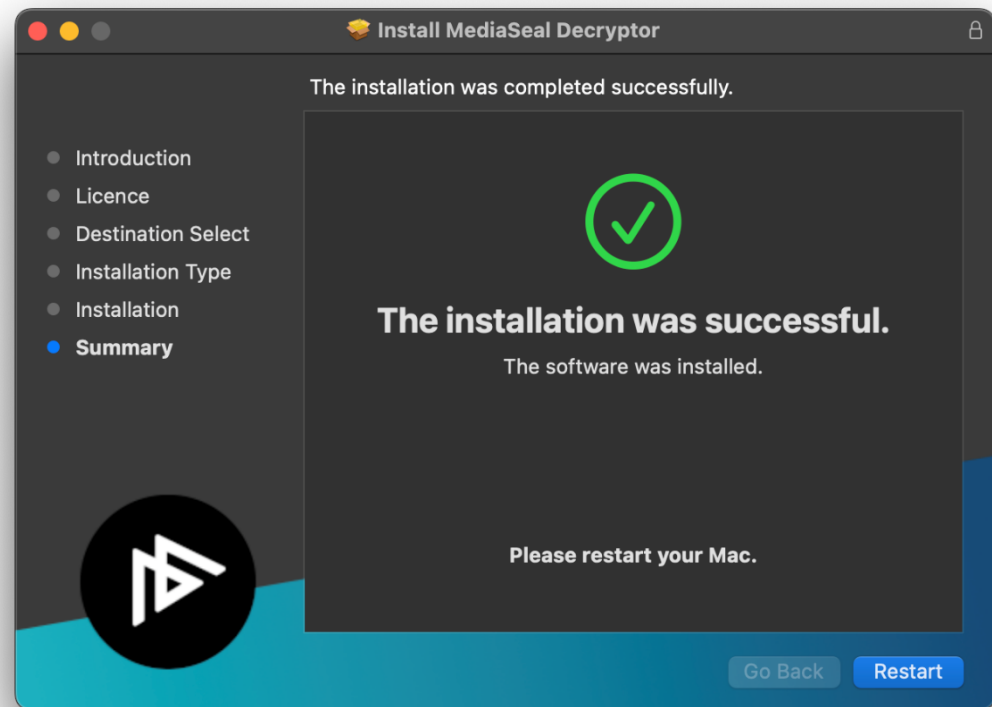
To approve the installation:

- Enter your credentials when prompted
- Click on the Padlock to make changes
- Click Allow
- Then close Security & Privacy window to complete installation



Once the software has been installed, you will need to restart to complete the installation process.

- Click restart to restart your computer.



Please note you will have to enable System Kernel Extensions if this has not been executed previously. For information relating to Kernel Extension set up please see section below “10.3 Installation on Apple Silicon Processor”

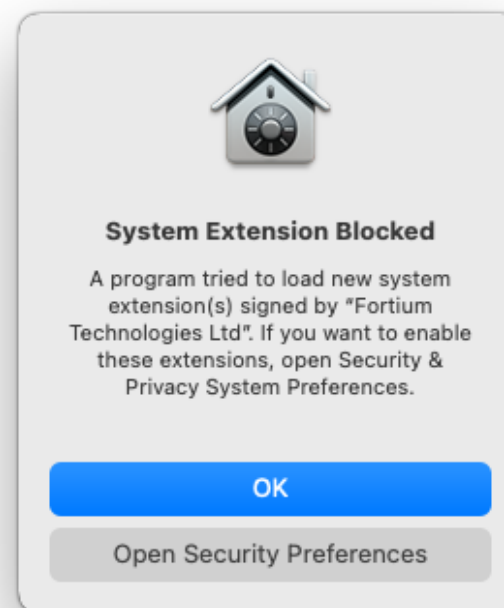
10.3 INSTALLATION ON APPLE SILICON PROCESSOR



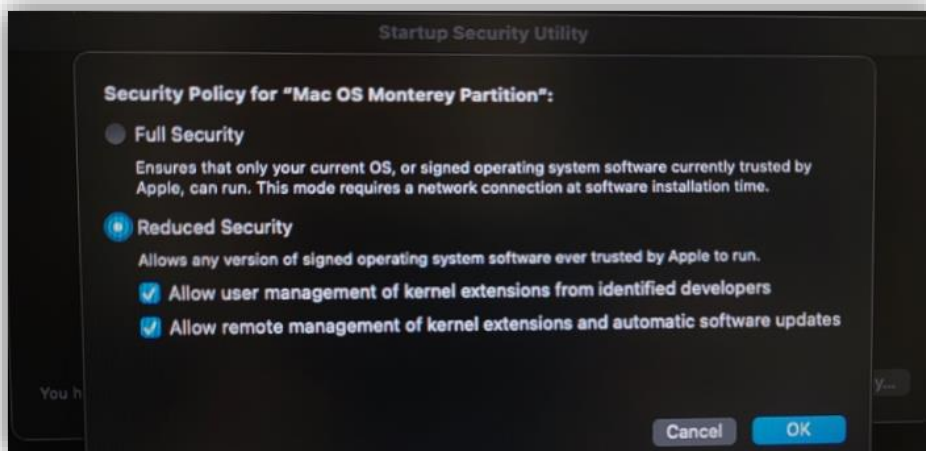
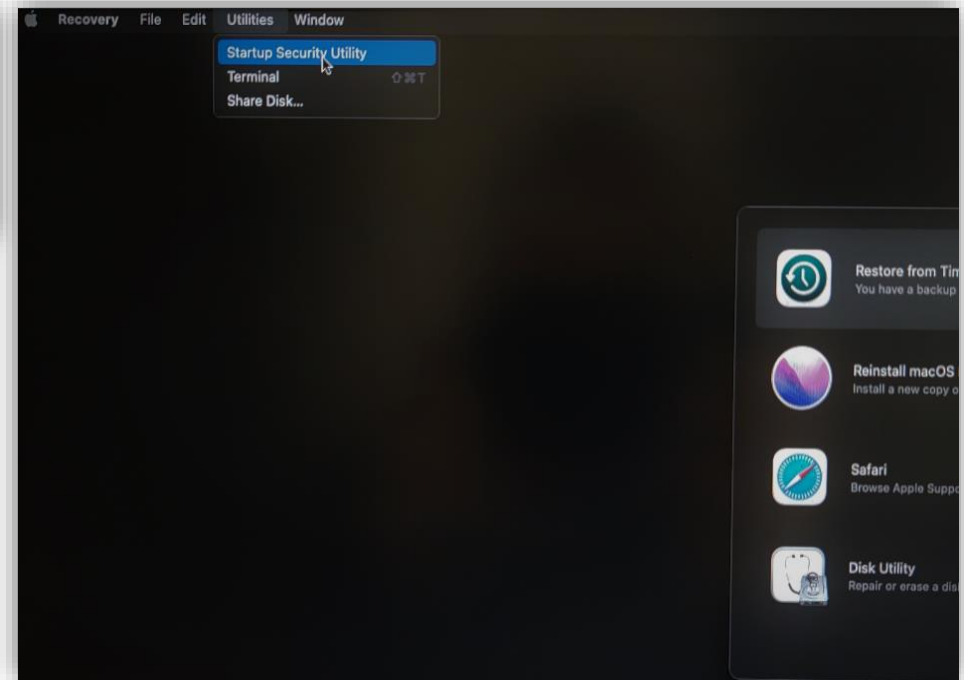
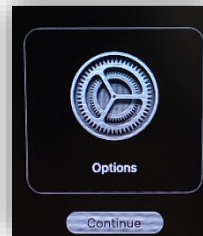
After installation of MediaSeal Decryptor you may have to enable system kernel extensions on M1 Mac.

To approve the installation:

- Click Open Security Preferences
- Click on the Padlock to make changes
- Click Enable System Extensions - Allow
- If this option is not available, you will be required to enable system kernel extensions.



- Shut down your Mac device.
- Press and hold the touch ID button for 5 seconds.
- Mac will boot up showing "Loading up startup options"
- Click Options then click continue
- Select Startup Security Utility from menu.
- Click startup disk and click Security Policy
- Choose Reduced Security, check Allow user management of kernel extensions...



- Restart the computer and finish installation.

11 ACTIVATE

11.1 ACTIVATE iLOK LICENSE



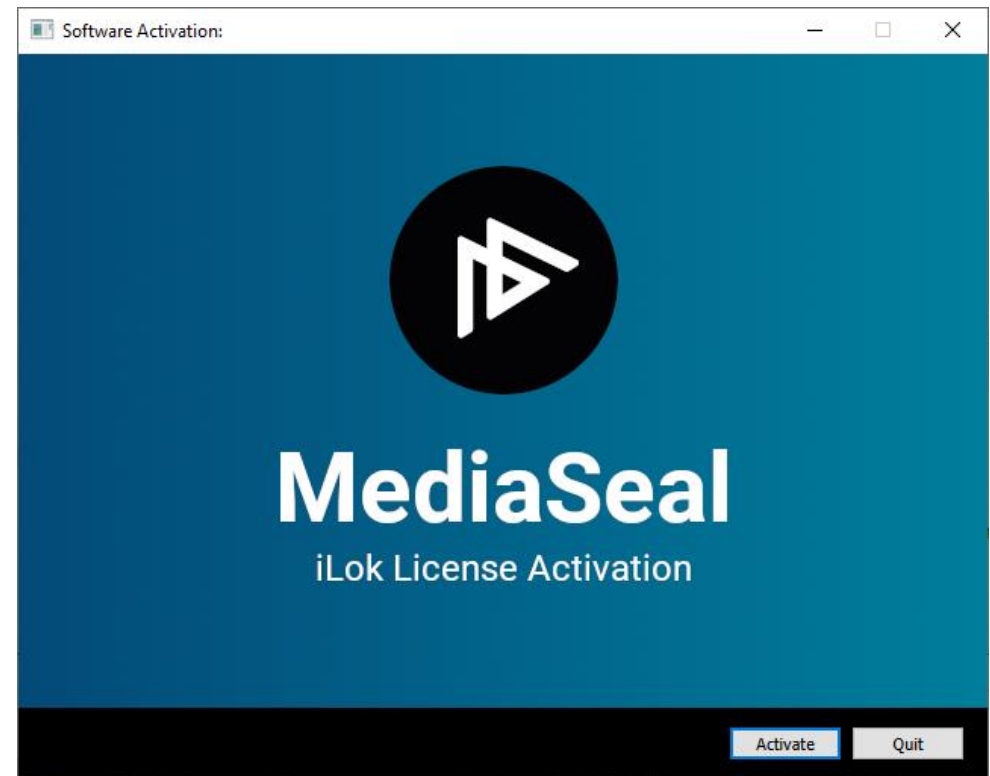
On first reboot, MediaSeal Decryptor Client will request you to activate your iLok license.

To activate your iLok License:

- Click **Activate**

If the window does not appear, please follow the instructions below.

- Click the **Decryptor Client Tray icon**
- Click **Accounts**
- Click **Activate iLok license**



11.1.1 Login to your iLok account



To activate your Decryptor license located in your iLok account, please enter your iLok account credentials.

To enter your iLok account details:

- Enter your **User ID**
- Enter your **Password**
- Click **Next**

Software Activation:

MediaSeal iLok ENABLED

License Account Login

Please enter your ilok.com account credentials.

User ID:

Password:

☐ Remember Me

[Forgot Password or User ID?](#)

[Create new account](#)

Next Back

*If you have forgotten your iLok account credentials, Click **Forgot Password or User ID?** Or navigate to*

<https://www.ilok.com/#!recover>

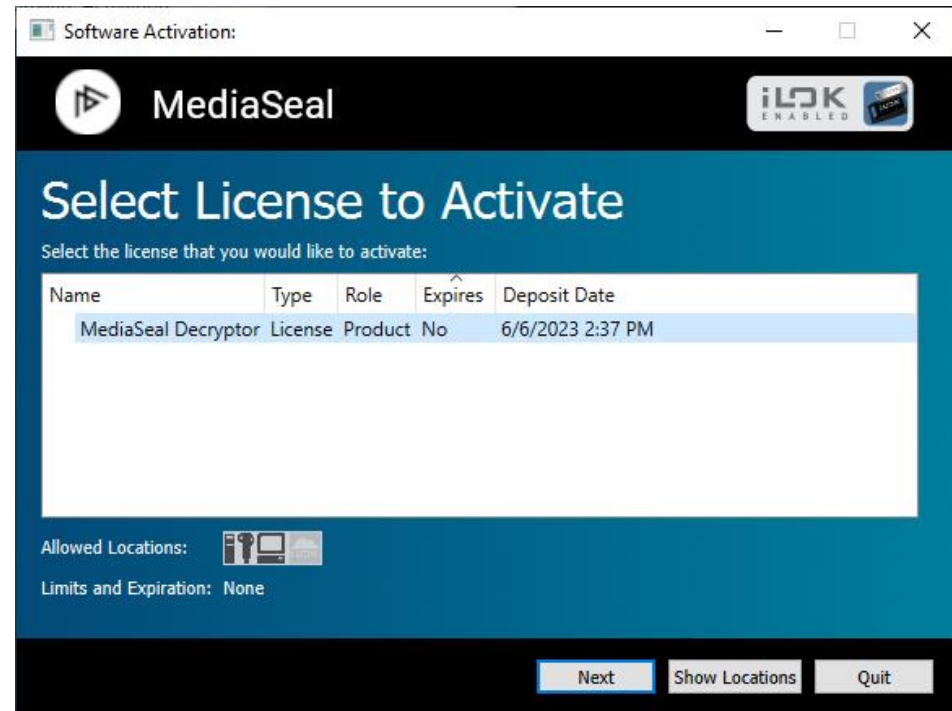
11.1.2 Select License to Activate



Once you have successfully entered your iLok credentials, a screen will display the licenses available to activate.

To select the Decryptor license:

- Click on **MediaSeal Decryptor License**
- Click **Next**



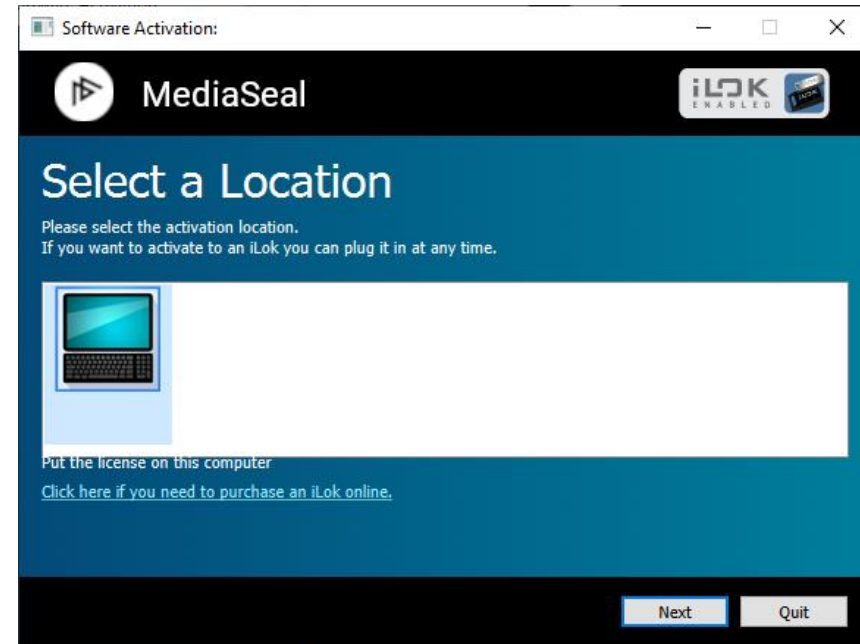
11.1.3 Activation Location



You can allocate your MediaSeal Decryptor Client license to either a physical iLok or a computer.

To select a location:

- Select Your **Computer** or your **iLok**
- Click **Next**



11.1.3.1 Allocate License to Physical iLok



Allocating the MediaSeal Decryptor Client license to a physical iLok enables you to access protected content on multiple computers where MediaSeal Decryptor Client is installed.

11.1.3.2 Allocate License to Computer



Allocating the MediaSeal Decryptor Client license to a specific computer restricts accessing content to that specific computer. It should be used only if you do not have a physical iLok. This is sometimes referred to as a “soft license”.

12 iLok ACTIVATION – UNREGISTERED MEDIASEAL ACCOUNTS

12.1 UNREGISTERED MEDIASEAL ACCOUNTS



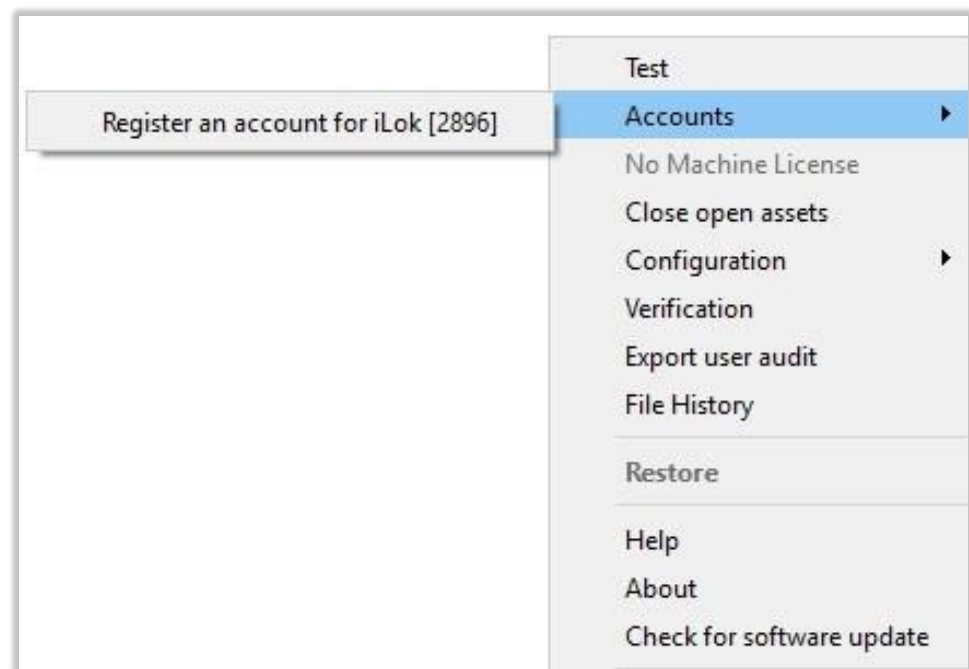
MediaSeal can issue a MediaSeal Decryptor license to an iLok account without the need to register a MediaSeal account. This allows an administrator to allocate a corporate allocated MediaSeal license to a user, enabling the user to register with MediaSeal using the corporate managed license.

12.1.1 MediaSeal Account Registration (Unregistered User)



If you have received an iLok containing a MediaSeal license as part of a bulk license transfer and do not have a MediaSeal account, follow the instructions below to register.

- Ensure the **iLok** is inserted into the computer
- Click the **Decryptor Client Tray** icon
- Click **Accounts**
- Click **Register an account for iLok [NNNN]**
- Complete the Register Account form



13 INSTALLATION COMPLETE



Congratulations - The installation of MediaSeal Decryptor Toolset is now complete!

The MediaSeal Decryptor Client icon will turn from **grey** to **black** to indicate the MediaSeal Decryptor Client has found a MediaSeal license. You should now be able open MediaSeal protected files.



14 MEDIASEAL TEST FILES



As part of the MediaSeal setup process you may have received a MediaSeal Test File. These are useful to verify that your MediaSeal Decryptor Client Toolset is setup and configured correctly.

To open the test file, you will need the following:

- A computer with MediaSeal Decryptor Client installed
- Your physical iLok allocated with your MediaSeal license, alternatively a machine-based or soft license which has been allocated to the computer with your MediaSeal license.
- The Test File received from support@mediaseal.com.
- The password for the test file (included on the email).
- An approved MediaSeal application installed on your computer (VLC or QuickTime are recommended for testing).
- The approved application will require the codecs installed to decode H264 MPEG 4 AVC encoded media.

Before opening the file please ensure:

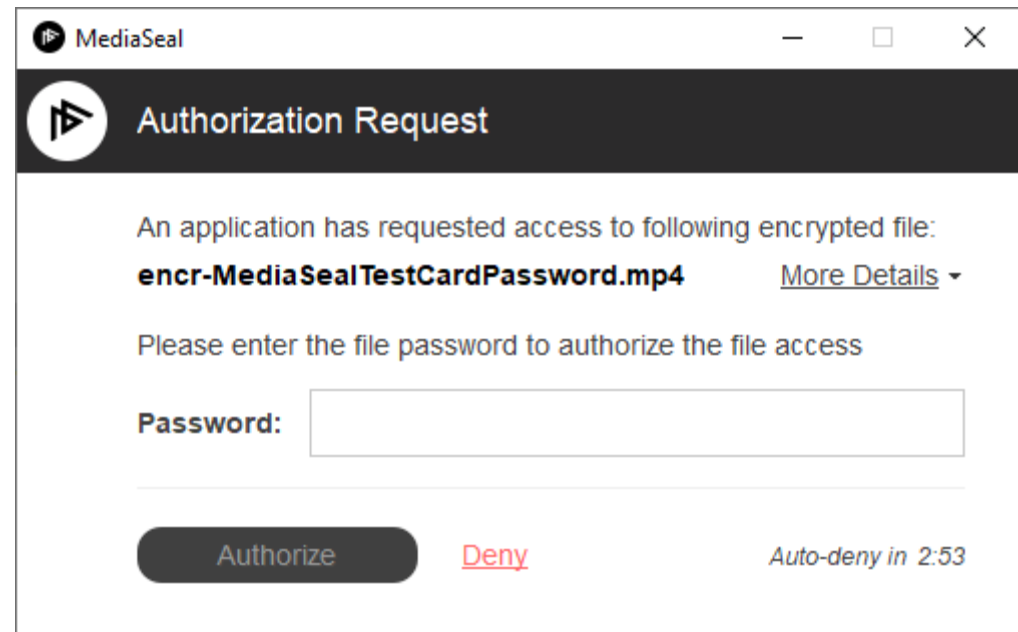
- MediaSeal Decryptor Client is running.
- You have plugged in your physical iLok or you have a machine-based or soft license installed.

14.1 OPENING MEDIASEAL PROTECTED FILES



To open a MediaSeal protected file:

- **Open** the file in a MediaSeal approved application
- Enter the **Password**
- Click **Authorize**



15 CONFIGURATION

15.1 DEFAULT CONFIGURATION



By default, MediaSeal Decryptor Toolset has been optimised and is ready to use. However, MediaSeal Decryptor Client software can be configured to connect to different endpoints, change the detection mode as well as activate or deactivate decryption requests.

15.2 APPLICATION WHITELIST



By default, MediaSeal Decryptor Client includes a default application compatibility database.

You will be able to open MediaSeal protected files with the default MediaSeal approved applications. MediaSeal Decryptor Client includes a utility to periodically update the database with the latest application compatibility database; a list that contains all MediaSeal approved applications.

15.2.1 Online Compatibility Database Updates



Each time you start MediaSeal Decryptor Client, the Decryptor software will attempt to contact MediaSeal Global Services <http://gs.cloud.mediaseal.com> and update the application compatibility database with the latest approved applications.

15.2.2 Offline Compatibility Database Updates



If you are in an environment with no connection to MediaSeal Global Services <http://gs.cloud.mediaseal.com>, you will not be able to automatically update the application compatibility database when new applications are tested and approved.

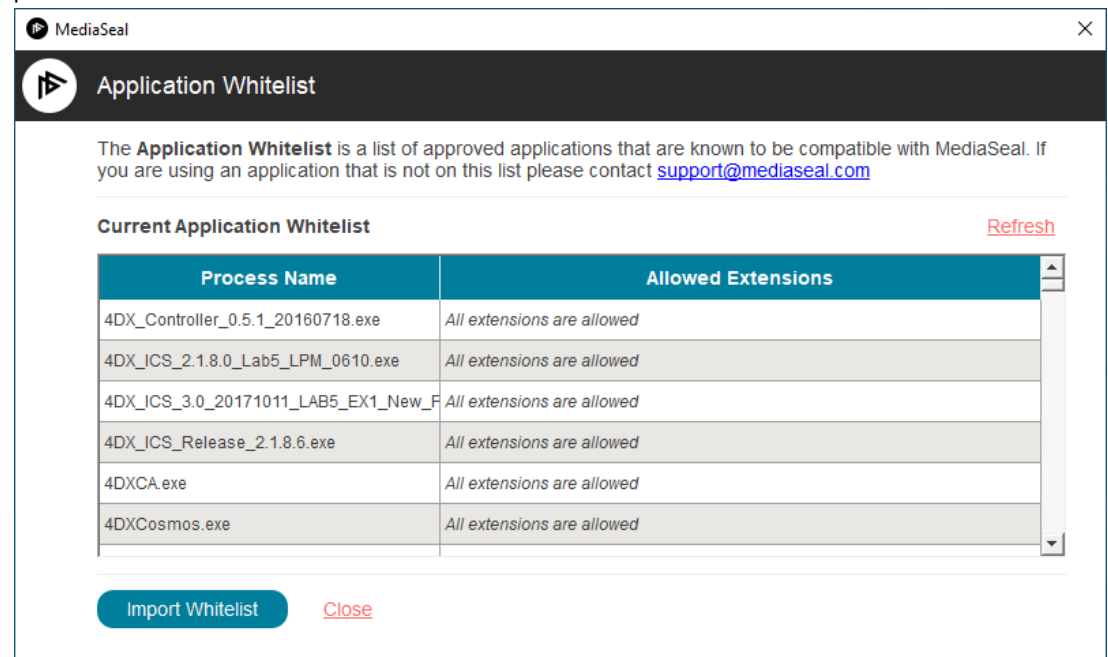
15.2.2.1 Updating Versions 3.10.1 and Above



If possible, enable connection to MediaSeal Global Service <https://gs.cloud.mediaseal.com> to download the latest compatibility database. If that is not possible, the application compatibility database can be updated manually using an update file available by contacting MediaSeal support.

To update the database:

- Click the **Decryptor Client Tray** icon
- Click on **Configuration Tab**
- Click **Application whitelist**
- Click **Import Whitelist**
- Select the file **whitelist-active.json**



15.2.2.2 Updating Versions Prior to 3.10.1



If possible, enable connection to MediaSeal Global Service <https://gs.cloud.mediaseal.com> to update the compatibility database. In older versions, the application compatibility database cannot be updated manually. Please contact support for an updated MediaSeal Decryptor Client or download the latest version from the MediaSeal Support Portal.

15.2.3 Request Application Added to Compatibility Database



To request an application is tested so that it can be approved and added to the MediaSeal Compatibility Database, please contact MediaSeal support and provide the following information.

VENDOR NAME,
APPLICATION NAME,
APPLICATION VERSION,
PROCESS NAME

15.3 ZONE ENDPOINTS

15.3.1 Zone Endpoints Overview



Zone Endpoints are used by the MediaSeal Decryptor Client to communicate with Studio Key Servers. By default, MediaSeal Decryptor client is set to communicate with the MediaSeal Global Services <https://gs.cloud.mediaseal.com> which acts as a proxy and redirects communication to the correct Studio Key Server automatically.

However, you may wish to configure a connection directly to a Studio Key Server, in which case it is necessary to set the Zone Endpoint. You can configure multiple Zone Endpoints if connecting to multiple studios.

15.3.2 Local Endpoints



Endpoints can be marked as Local and should only be set when communicating directly with a studio server. Only one of the zones can be marked local. The Default Zone (MediaSeal Global Services) cannot be marked Local.

15.3.3 Testing Zone Endpoints



You can check a Zone Endpoint status of one, multiple or all endpoints. The Decryptor will check that it can communicate correctly with endpoint.

- Tick the **checkbox** of the Zone you wish to check
- Click **Check**

MediaSeal

Manage Zone Endpoints

You can add, edit, remove zones and their corresponding endpoints.
Only one of the zones can be marked as "Local" and Default Zone cannot be one of them.

Zone	Endpoint Address	Local	Status
<input type="checkbox"/> MediaSeal Global ...	https://gs.cloud.mediaseal.com	<input type="checkbox"/>	Unchecked

Default Zones New Edit Remove Remove All Check Check All

Endpoint Communication

☒ No Proxy
☐ My Endpoint Configuration Requires Proxy

Proxy URL

Proxy Port (Note: If left blank defaults to 8080)

Proxy User

Proxy Password

Save Apply to Service Cancel

When connection is successful, the Zone Status will be **Online**

15.3.4 Add New Zone Endpoint



You can add a new zone endpoint by setting a zone name and then the endpoint address by either specifying a hostname, a fully qualified domain name or an IP address.

To add a new Zone Endpoint:

- Click the **Decryptor Client Tray** icon
- Click on **Configuration** Tab
- Click **Manage zone endpoints**
- Click **New**
- Enter **Zone Name** in Zone
- Enter **Endpoint Address**
- Tick **Local** if required.
- Click **Add**
- Click **Save**

15.3.5 Edit Zone Endpoint



You can edit any endpoint and modify the zone name, the hostname or fully qualified domain name or IP address as well as checking or unchecking the Local checkbox.

- Click on the **Zone** required
- Click **Edit**
- Amend Zone details as required
- Click **Change**

The screenshot shows a 'Modify Existing Zone' dialog box. It has a title bar with the MediaSeal logo and a close button. The main area contains three fields: 'Zone' with the text 'MediaSeal Global Services', 'Endpoint' with the text 'https:// gs.cloud.mediaseal.com', and 'Local' with an unchecked checkbox. At the bottom, there are two buttons: 'Change' and 'Cancel'.

15.3.6 Restore Default Zone



You can quickly reset the zone endpoints back to default. Restoring the default zone endpoint will set the endpoint to MediaSeal Global Services <https://gs.cloud.mediaseal.com>. To set the default zone endpoint:

To restore the default zones:

- Click **Default Zones**

The screenshot shows the 'Manage Zone Endpoints' window in the MediaSeal application. The window has a title bar with the MediaSeal logo and standard window controls. Below the title bar, there's a header section with the title 'Manage Zone Endpoints' and a brief instruction: 'You can add, edit, remove zones and their corresponding endpoints. Only one of the zones can be marked as "Local" and Default Zone cannot be one of them.'

The main content area features a table with the following columns: 'Zone', 'Endpoint Address', 'Local', and 'Status'. There is one row in the table with the following data: 'MediaSeal Global ...' (with a checkbox), 'https://gs.cloud.mediaseal.com', 'Unchecked' (with a checkbox), and 'Unchecked'. Below the table, there are several buttons: 'Default Zones', 'New', 'Edit', 'Remove', 'Remove All', 'Check', and 'Check All'.

Below the buttons, there's a section titled 'Endpoint Communication'. It contains two radio buttons: 'No Proxy' (which is selected) and 'My Endpoint Configuration Requires Proxy'. Below these, there are input fields for 'Proxy URL', 'Proxy Port' (with a value of 8080 and a note: '(Note: If left blank defaults to 8080)'), 'Proxy User', and 'Proxy Password'.

At the bottom of the window, there are three buttons: 'Save', 'Apply to Service', and 'Cancel'.

15.3.7 Remove Zone



You can remove zone endpoints. To remove a zone endpoint:

To remove a zone:

- Tick the **Zone Endpoint** to be removed
- Click **Remove Zone**

15.4 PROXY SERVER



You can configure MediaSeal Decryptor Client to use a proxy server for communication with MediaSeal Global services or your custom Zone Endpoint Address.

To configure the MediaSeal Decryptor Client to use a proxy server:

- Click the **Decryptor Client Tray** icon
- Click **Configuration**
- Click **Manage zone endpoints**
- Set **Proxy URL**
- Set **Proxy Port** (optional)
- Set **Proxy User** (optional)
- Set **Proxy Password** (optional)
- Click **Save**

The screenshot shows the 'Manage Zone Endpoints' window in the MediaSeal application. The window title is 'MediaSeal' and the subtitle is 'Manage Zone Endpoints'. Below the subtitle, there is a message: 'You can add, edit, remove zones and their corresponding endpoints. Only one of the zones can be marked as "Local" and Default Zone cannot be one of them.'

Zone	Endpoint Address	Local	Status
<input type="checkbox"/> MediaSeal Global ...	https://gs.cloud.mediaseal.com	<input type="checkbox"/>	Unchecked

Below the table, there are buttons: 'Default Zones', 'New', 'Edit', 'Remove', 'Remove All', 'Check', and 'Check All'.

The 'Endpoint Communication' section is expanded, showing two radio buttons: 'No Proxy' (unselected) and 'My Endpoint Configuration Requires Proxy' (selected). Below the radio buttons, there are input fields for 'Proxy URL' (127.0.0.1), 'Proxy Port' (8080), 'Proxy User' (mediaseal), and 'Proxy Password' (masked with dots). A note next to the Proxy Port field says '(Note: If left blank defaults to 8080)'. At the bottom of the window, there are buttons: 'Save', 'Apply to Service', and 'Cancel'.

15.5 CHANGE DETECTION MODE

15.5.1 Detection Mode Overview



MediaSeal Decryptor Client automatically checks files that you access to see if they are MediaSeal protected files. If it detects you are trying to access a MediaSeal protected file, it will begin the authentication process to verify you have permission to access the content.

MediaSeal uses two methods to detect if the file is a MediaSeal protected file.

1. Fast-Detect Mode (recommended)
2. Compatibility Mode.

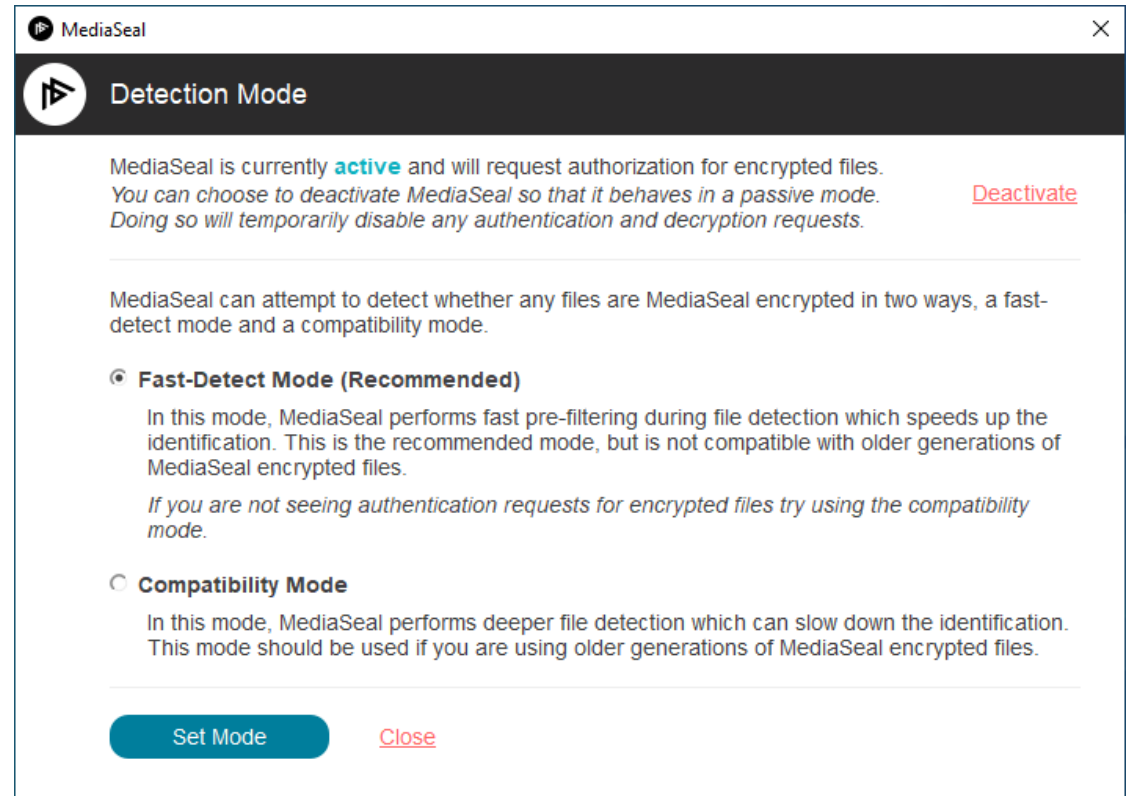
If you are opening an older generation MediaSeal protected file, or experiencing issues with Decryptor Client prompting for password authentication when accessing MediaSeal protected files, you can change to Compatibility mode.

15.5.2 Changing Detection Mode



Changing the detection mode

- Click the **Decryptor Client Tray** icon
- Click **Configuration**
- Click **Detection Mode**
- Set the **required mode**
- Click **Set Mode**



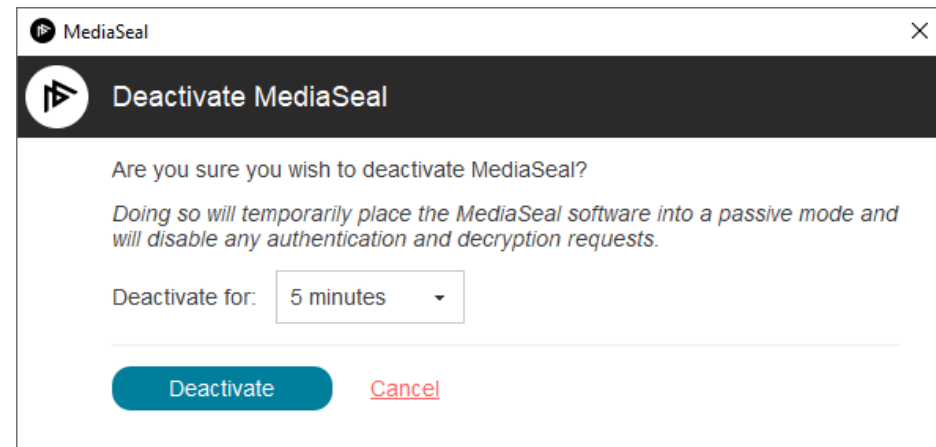
15.6 DEACTIVATE MEDIASEAL



You can temporarily deactivate MediaSeal. This will turn off detection of MediaSeal protected files and you will not be able to access any MediaSeal protected files. MediaSeal can be deactivated for either 5 minutes, 15 minutes, 30 minutes or 1 hour.

To deactivate MediaSeal:

- Click **Deactivate**
- Select **Time**
- Click **Deactivate**



Accessing any MediaSeal protected file whilst MediaSeal is deactivated will not prompt for the password.

You will not be able to access any MediaSeal protected content.

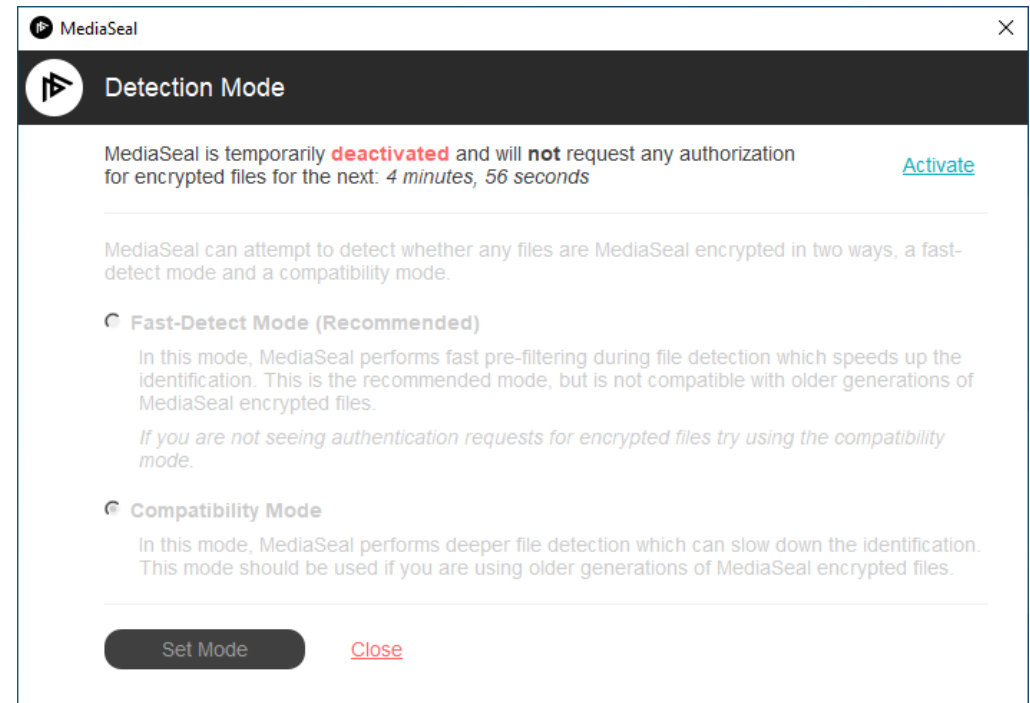
15.7 ACTIVATE MEDIASEAL



MediaSeal is activated by default. If MediaSeal has been de-activated, you can re-activate and turn on detection of MediaSeal protected files.

To activate MediaSeal:

- Click **Activate**



MediaSeal will automatically re-activate after the allotted deactivation time frame has expired.

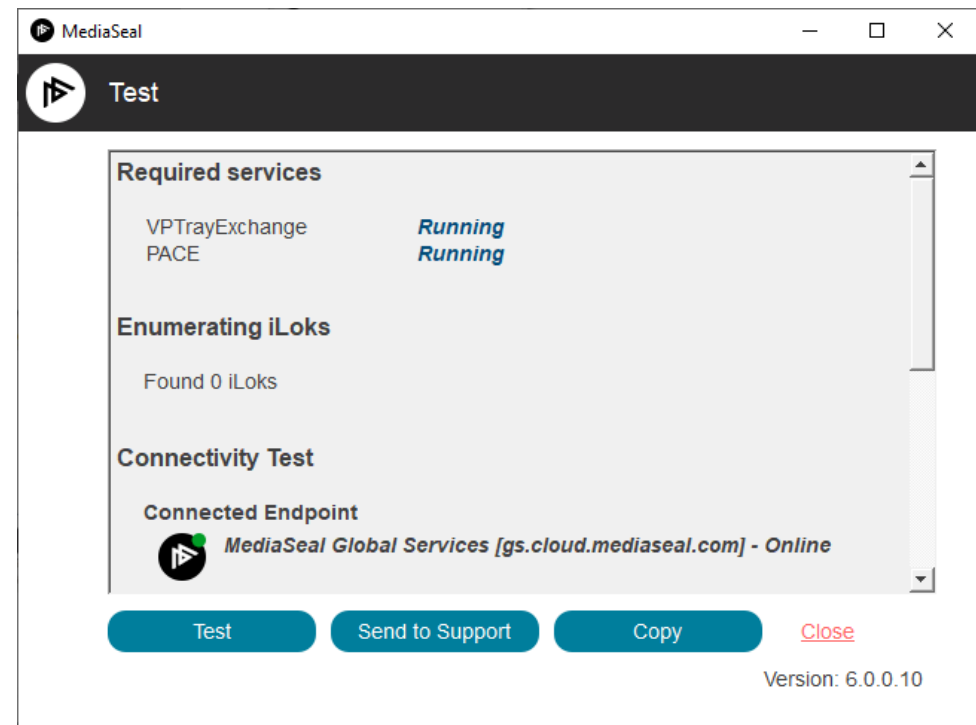
16 TESTING

16.1 CONFIGURATION TESTING



You can test your MediaSeal Decryptor Client is configured correctly by using the in-built test function. This will run tests to check and verify if any iLoks are installed. It will also check essential services are running and if you are connected to zone endpoints.

- To run the tests
- Click the **Decryptor Client Tray** icon
- Click **Test**



16.1.1.1 Required Services



This displays the operating status of all the required services.

16.1.1.2 Enumerating iLoks



This displays all the valid iLok licenses and MediaSeal account user identification containing a MediaSeal Decryptor License.

16.1.1.3 Connectivity Test



This test is to verify which zone endpoints you can successfully connect to. By default, this is MediaSeal Global Services at gs.cloud.mediaseal.com.

16.1.1.4 Application Details

16.1.1.4.1 Current Version



Displays the application version.

16.1.1.4.2 Last Application Whitelist update



Displays the last time the application compatibility database was updated.

16.1.1.4.3 Log file location



Displays the location of the Decryptor log file.

16.1.1.4.4 Detection mode



Displays the current detection mode.

16.1.1.5 System Details

16.1.1.5.1 Platform



Displays the current operating system platform.

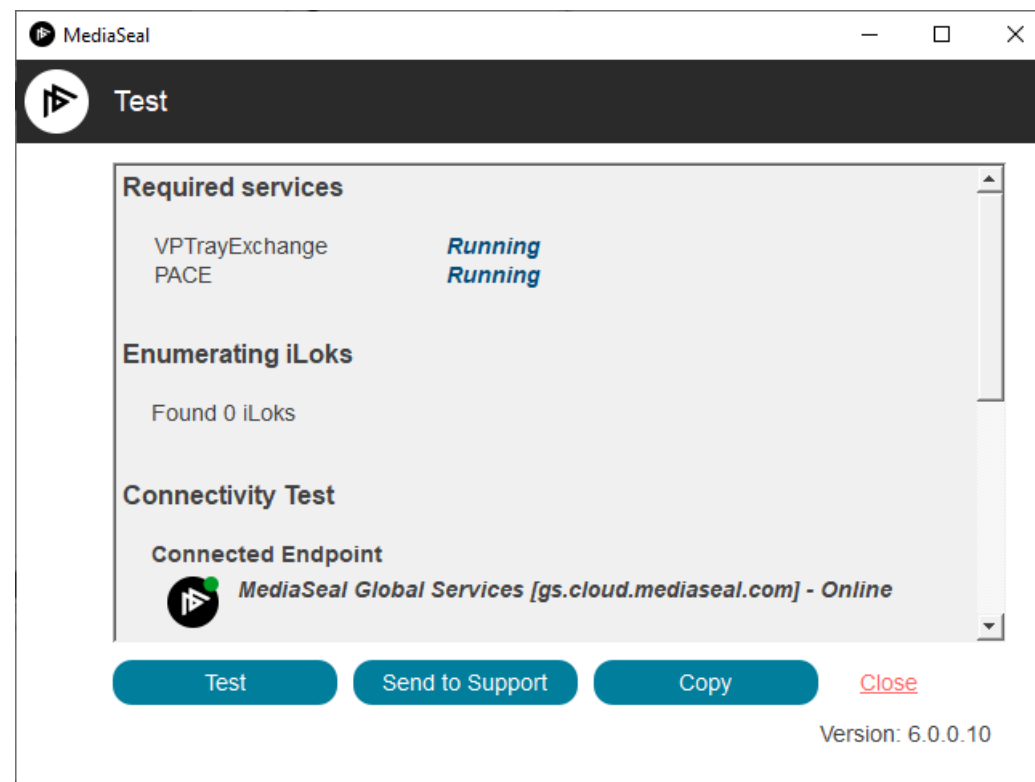
16.2 SENDING TEST INFORMATION TO MEDIASEAL SUPPORT



Sends test information to the MediaSeal Support Team to assist with diagnosing issues.

To send to the MediaSeal Support Team:

- Click **Send to Support**



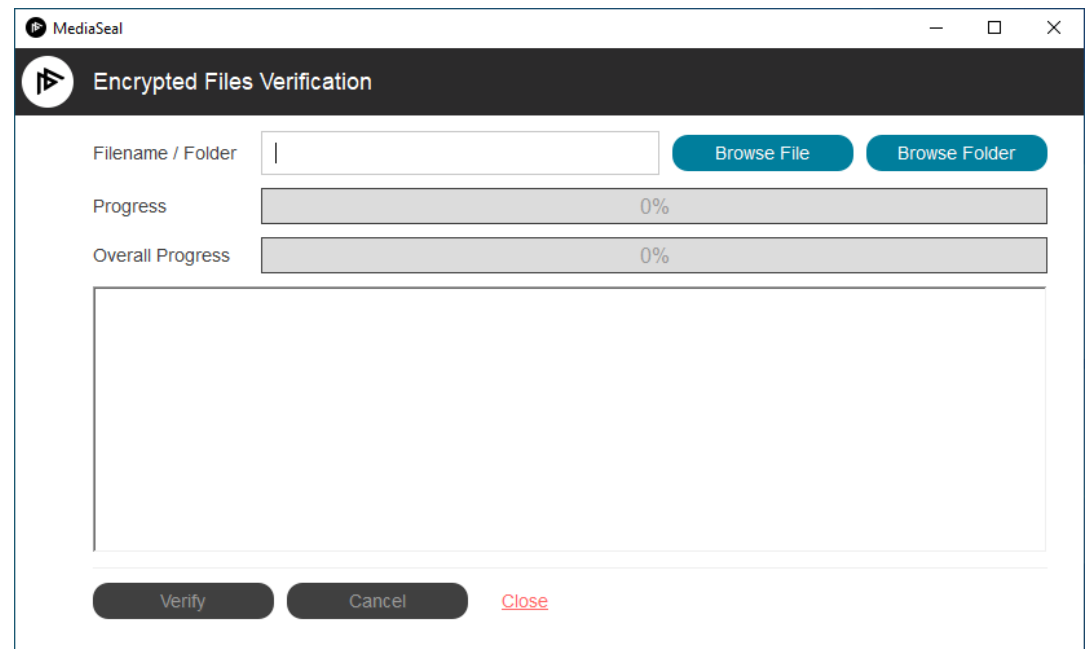
16.3 FILE VERIFICATION



MediaSeal Decryptor Client can verify if files are valid. It is often useful to verify files after receiving them from an external source. In addition, when troubleshooting, you can verify that you are attempting to access a valid MediaSeal protected file.

To verify a file or folder:

- To verify a file is a valid MediaSeal protected file
- Click the **Decryptor Client Tray** icon
- Click **Verification**
- Click **Browse File** or **Browse Folder**
- Select the file/s you wish to verify
- Click **Verify**

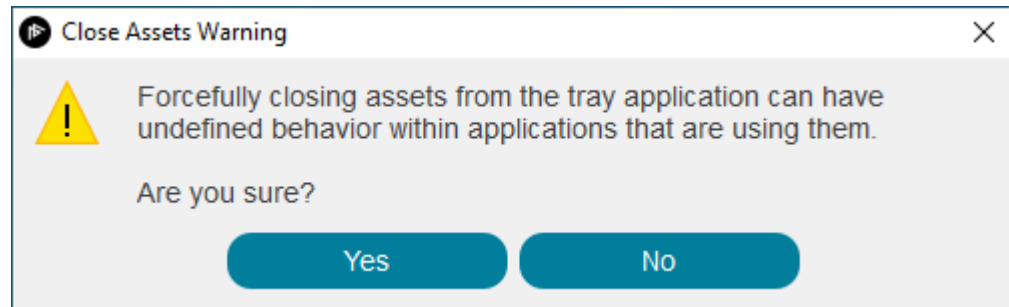


17 CLOSE OPEN ASSETS



It is important for the security of protected content to be able to de-authenticate any open MediaSeal protected files at any given time.

- To close open assets
- Click the **Decryptor Client Tray** icon
- Click **Close open assets**
- Click **Yes** to close open assets



Closing Open Assets ensures that the file is closed and that all authorisations are reset. When re-opening MediaSeal protected content, you need to re-authenticate before opening for viewing or editing.

18 FILE HISTORY AND AUDIT

18.1 VIEW MEDIASEAL PROTECTED FILE HISTORY



View the recent history of MediaSeal protected files where file access has been attempted by completing the following:

- Click the **Decryptor Client Tray** icon
- Click **File History**

This information may be helpful in identifying the cause of why a file cannot be accessed, or for keeping track of files that have been opened.



18.2 EXPORT USER AUDIT



Export user audit data allows for exporting MediaSeal Decryptor Client audit data to a file. The file contains encrypted audit data detailing access to protected content. The audit data can then be sent to the asset owner who can import the audit data into their central database.

To Export user audit data, please complete the following.

***Please note you must select an empty folder**

- Click the **Decryptor Client Tray** icon
- Click on **Export user audit**
- Select the empty directory you would like to save the user audit information.
- Click on **Choose**

The exported file contains audit information about MediaSeal protected file activity. This file is encrypted to prevent tampering.

19 AGENT MODE



Agent Mode enables the MediaSeal Decryptor Client to be configured with a pre-cached password, which removes the need to enter a password each time a MediaSeal protected file is opened.

This is achieved by generating a daemon password token using the command line and then adding the daemon password token into the start-up parameter for the Decryptor Client.

The next time the machine is restarted or the Decryptor Client re-loaded, the new pre-cached password will be applied.

Please Note: You cannot use Agent Mode if working on multiple files encoded with different passwords.

19.1 GENERATE PASSWORD TOKEN



To generate a password token, you will need administrative access to your system.

19.1.1 Generate Agent Password Token (Windows)

- Quit the **MediaSeal Decryptor Client**
- Run **Command Prompt** (Run as Administrator)
- Type **cd "Program Files (x86)\MediaSeal\Decryptor"**, hit **Enter**
- Type **DecryptorTray.exe -c password** and hit **Enter**,
- **Copy** the password token that is generated

19.1.2 Generate Agent Password Token (MacOS)

- Click the **Decryptor Client Tray** icon
- Open **Terminal** application
- Type **cd**
/Applications/MediaSeal/DecryptorTray.app/Contents/MacOS, hit **Enter**
- Type **./DecryptorTray -c password** and hit **Enter**.
- **Copy** the password token that is generated

19.2 MANUALLY START MEDIASEAL DECRYPTOR CLIENT IN AGENT MODE

19.2.1 Manually Start Decryptor Client in Agent Mode (Windows)



Navigate to the Decryptor installation directory and launch the Decryptor Client with the password token that was previously generated. This will start the MediaSeal Decryptor Client in agent mode with a pre-cached password.

- Open command prompt
- Type "**C:\Program Files (x86)\MediaSeal\Decryptor DecryptorTray.exe**" -d token

You can test this working by first closing open assets and then by opening a protected file. You should be able to view the content without MediaSeal Decryptor Client prompting you for a password.

19.2.2 Manually Start Decryptor Client in Agent Mode (MacOS)



Navigate to the Decryptor installation directory and launch the Decryptor Client with the password token that was previously generated. This will start the MediaSeal Decryptor Client in agent mode with a pre-cached password.

- Open the **Terminal** Application
- Type **./DecryptorTray -d token**

You can test this working by first closing open assets and then by opening a protected file. You should be able to view the content without MediaSeal Decryptor Client prompting you for a password.

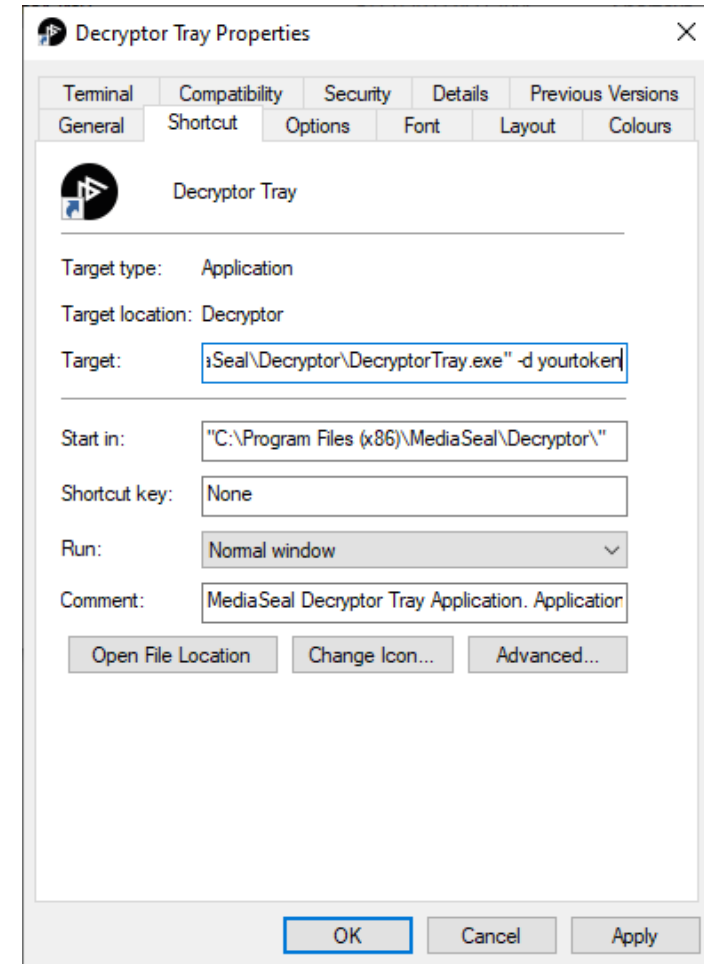
19.3 AUTOMATICALLY START MEDIASEAL DECRYPTOR CLIENT IN AGENT MODE

19.3.1 Configure Agent Mode – (Windows)



MediaSeal Decryptor Client can be configured to start in Agent Mode automatically by modifying the shortcuts used by Windows to start MediaSeal Decryptor Client at start-up.

- Open **File Explorer** (explorer.exe)
- **C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Startup**
- Right Click on the **Decryptor Tray** shortcut
- Click **Properties**
- Click on the **Shortcut** tab
- Locate the **Target** input box
- Append **-d token**
- Click **Apply**, then Click **OK**



19.3.2 Configure Agent Mode – (MacOS)



MediaSeal Decryptor Client can be configured in Agent Mode by modifying the **com.MediaSeal.EVSDecryptorTray.plist** to start MediaSeal Decryptor Client at start-up.

- Open **Terminal** application
- Type **sudo vi /Library/LaunchAgents/com.MediaSeal.EVSDecryptorTray.plist** and hit **Enter**
- Enter your **credentials**
- Enter insert mode by pressing **I**,
- Append **<string>-d</string>**
- Append **<string>token</string>**
- Save the file by pressing **Escape** then type **:wq** and hit **Enter**



```
LaunchAgents — vim • sudo — 107x22
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple/DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
  <dict>
    <key>RunAtLoad</key>
    <true/>
    <key>KeepAlive</key>
    <dict>
      <key>SuccessfulExit</key>
      <false/>
    </dict>
    <key>Label</key>
    <string>com.MediaSeal.EVSDecryptorTray</string>
    <key>ProgramArguments</key>
    <array>
      <string>/Applications/MediaSeal/DecryptorTray.app/Contents/MacOS/DecryptorTray</string>
      <string>-d</string>
      <string>PasswordToken</string>
    </array>
  </dict>
</plist>
```

The settings will not take effect until you restart.

20 COMMAND LINE SWITCHES



The MediaSeal Decryptor Client Command line switches offer the ability to customise the MediaSeal Decryptor Client using the command line. It provides the ability to undertake more advanced tasks that are not offered as part of the MediaSeal Decryptor Client graphical user interface.

You must have administrative permissions to run Decryptor from the Command Line

- Type **DecryptorTray --help**

```
Administrator: Command Prompt

Options:
-?, -h, --help           Displays this help.
-d, --daemon <password> Starts in daemon mode.
-s, --service <password> Starts in service mode.
-l, --level <info>       Logging level.
-e, --encode <password>  Encode password.
-c, --encodetoconsole <password> Encode password to console.
-a, --appender <debug mask> Console appender.
-x, --export <exported database file> Export encrypted database.
-u, --exportaudit <exported database file> Export encrypted audit database.
-m, --maximumthreads <total threads> Maximum threads allowed for parallel decryption. Must be greater than 0 and no more than 64.

-t, --thresholdsize <size> Minimum size of the data before parallel decryption is triggered. Must be greater than 0 and a multiple of 512 bytes.

-b, --blocksize <size> Minimum data that each thread will use. Must be greater than 0 and be a multiple of 512 bytes.

--appendTestIlok         Append ilok test id.
--detectionMode <mode>   EVS files detection mode [normal, fast, disabled]
--enable-webdriver        Enable QtWebDriver for Selenium testing

c:\Program Files (x86)\MediaSeal\Decryptor>
```

Options:	Description:
-?, -h, --help	Displays this help.
-d, --daemon <password>	Starts in daemon mode.
-s, --service <password>	Starts in service mode.
-l, --level <info>	Logging level.
-e, --encode <password>	Encode password.
-c, --encodetoconsole <password>	Encode password to console.
-a, --appender <debug mask>	Console appender.
-x, --export <exported database file>	Export encrypted database.
-u, --exportaudit <exported database file>	Export encrypted audit database.
-m, --maximumthreads <total threads>	Maximum threads allowed for parallel decryption. Must be greater than 0 and no more than 64.
-t, --thresholdsize <size>	Minimum size of the data before parallel decryption is triggered. Must be greater than 0 and a multiple of 512 bytes.
-b, --blocksize <size>	Minimum data that each thread will use. Must be greater than 0 and be a multiple of 512 bytes.
--appendTestILok	Append iLok test id.
--detectionMode <mode>	EVS files detection mode [normal,fast, disabled]
--enable-webdriver	Enable QtWebDriver for Selenium testing

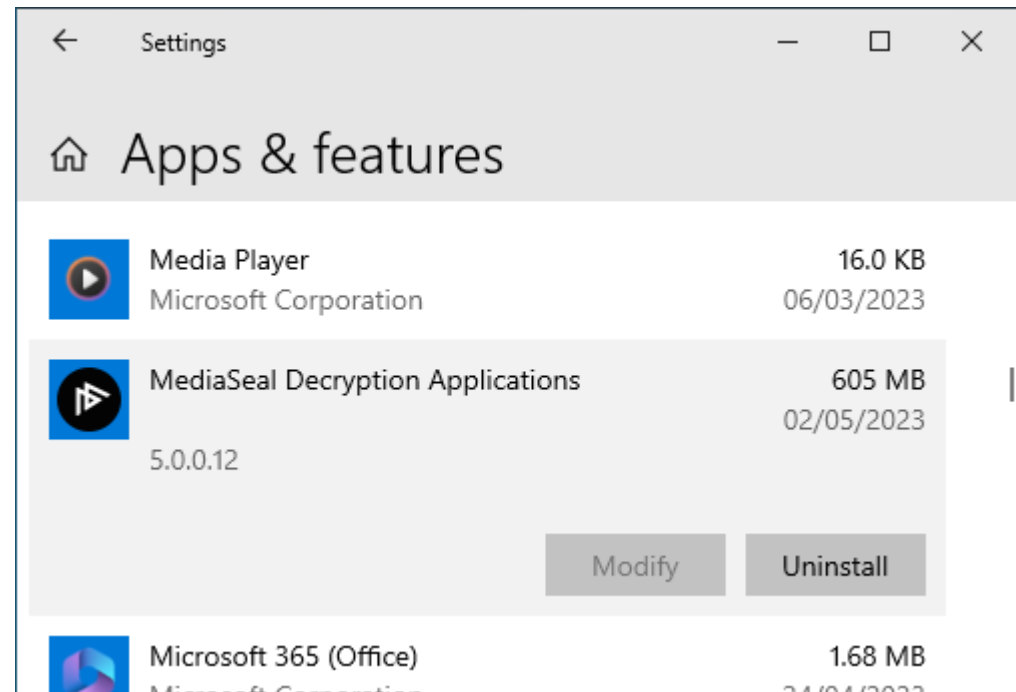
21 UNINSTALL

21.1 UNINSTALL (WINDOWS)



To uninstall Decryptor Client on Windows, first close the Decryptor Client and then either uninstall from Programs and Features in the Control panel or from the Apps & Features system settings.

- Click on **Windows Settings**
- Click **Apps**
- Click **MediaSeal Decryptor Toolset**
- Click **Uninstall**



Uninstalling MediaSeal Decryptor Client will require you to restart.

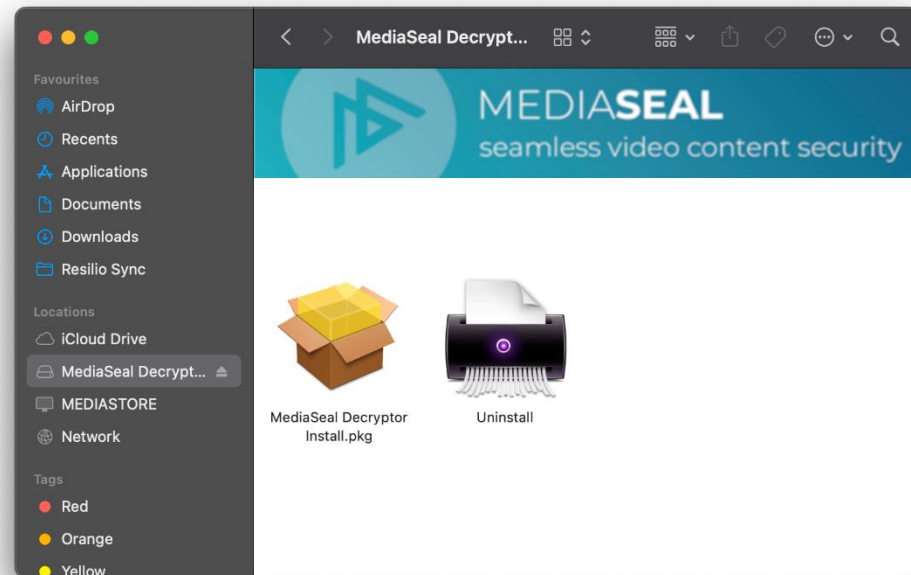
Please save and close any open files before proceeding.

21.2 UNINSTALL (MACOS)



The MediaSeal Decryptor Toolset installation media contains the Uninstall program. If you do not have the original installation media, please sign-in to <https://gs.cloud.mediaseal.com/signin> to download.

- Locate the original installation files and click on **MediaSealDecryptor.dmg**
- Click on **Uninstall**.



Moving the application to the trash will not completely remove all components that were installed with the MediaSeal Decryptor toolset. Please use the uninstall program included with the installation package.

22 DIAGNOSTIC LOGGING



By default, only basic logging is enabled, and diagnostic logging is turned off. However, to assist the MediaSeal Support Team diagnose issues you can enable diagnostic logging.

22.1 ENABLE DIAGNOSTIC LOGGING ON WINDOWS



The default diagnostic log file location on Microsoft Windows is **%Appdata%\MediaSeal\Storage\Decryptor.log**

To start Decryptor in diagnostic mode:

- **Quit** the Decryptor
- Open **command prompt**
- Type **C:\Program Files (x86)\MediaSeal\Decryptor\DecryptorTray.exe --level trace**
- Press Enter

22.2 ENABLE DIAGNOSTIC LOGGING ON MACOS



The default locations for Decryptor.log file on macOS and Linux is `~/.config/MediaSeal/Storage/Decryptor.log`

To start the Decryptor in diagnostic mode:

- **Quit** the Decryptor
- Open **Terminal**
- Type
`/Applications/MediaSeal/DecryptorTray.app/
Contents/MacOS/DecryptorTray --level trace`
- Press **Enter**

22.3 ENABLE SECURE PLAYER DIAGNOSTIC LOGGING ON WINDOWS



You can specify the diagnostic log output file. The default file is **%USERPROFILE%\Desktop\SecurePlayer.log**

- Open **command prompt**
- Type "**c:\Program Files (x86)\MediaSeal\Secure Player\MSSecurePlayer.exe**" **--log-file %USERPROFILE%\Desktop\SecurePlayer.log --msg-level=all=trace**
- Press **Enter**

```
Command Prompt
C:\Users>"c:\Program Files (x86)\MediaSeal\Secure Player\MSSecurePlayer.exe" --log-file
%USERPROFILE%\Desktop\SecurePlayer.log --msg-level=all=trace
```

22.4 ENABLE SECURE PLAYER DIAGNOSTIC LOGGING ON MACOS



You can specify the diagnostic log output file. The default file is **%USERPROFILE%\Desktop\SecurePlayer.log**

- Open **Terminal**
- Type **/Applications/MediaSeal/Secure Player.app/Contents/MacOS/MSSecurePlayer --log-file ~/Desktop/SecurePlayer.log --msg-level=all=trace**
- Press **Enter**

23 TROUBLESHOOTING

23.1 MEDIASEAL SUPPORT



For MediaSeal support, the latest information, tutorials, and solutions, please visit the MediaSeal Support Portal. If you still require further information or assistance, please email the MediaSeal Support Team.

23.1.1 MediaSeal Support Portal

MediaSeal Support Portal

<https://mediaseal.fortiumtech.com>

23.1.2 MediaSeal Email Support

MediaSeal Support Email

support@mediaseal.com

24 APPENDIX A

24.1 MEDIASEAL DECRYPTOR CLIENT MESSAGE ALERTS

24.1.1 Authentication process timed out.

ISSUE

You receive the message "Authentication process timed out."

CAUSE

You attempted to access a MediaSeal protected file and you have not authenticated the file in the allowed time.

SOLUTION

Re-open the file and authenticate immediately.

24.1.2 Authentication cancelled by user.

ISSUE

You receive the message "Authentication cancelled by user."

CAUSE

You cancelled an authentication request to gain access to encrypted content.

24.1.3 Could not connect to the server to complete the file authentication.

ISSUE

You receive the message "Could not connect to the server to complete the file authentication."

CAUSE

The Decryptor Client cannot connect to <https://gs.cloud.mediaseal.com> or your custom Zone Endpoint Address to authenticate access to the Encrypted content.

SOLUTION

Make sure you have connectivity to your Zone Endpoint Address. You may need to configure Decryptor Client proxy settings. You may need to contact your System Administrator for further assistance.

24.1.4 Authentication requires an iLok, and no iLoks were found.

ISSUE

You receive the message "Authentication requires an iLok, and no iLoks were found."

CAUSE

MediaSeal Decryptor Client cannot find an iLok, either a physical iLok is not plugged in to the computer, or the Machine iLok license is not installed.

SOLUTION

Insert your physical iLok into the computer, alternatively install Machine license.

24.1.5 Your account is disabled.

ISSUE

You receive the message “Your account is disabled”

CAUSE

Your account has been disabled on the content owner's authentication server. This may happen if the content owner disables your account or you have too many incorrect authentication attempts.

SOLUTION

Please contact the content owner to enable your account.

24.1.6 Your iLok is not permitted to view this content.

ISSUE

You receive the message “Your iLok is not permitted to view this content”

CAUSE

You inserted an incorrect physical iLok, or the incorrect Machine iLok license is installed.

SOLUTION

Insert the correct physical iLok or use the correct Machine iLok license.

24.1.7 The file access time is closed

ISSUE

You receive the message “The file access time is closed”

CAUSE

The time limit on accessing the file has expired. The file was protected with an access end date that has now passed.

SOLUTION

Please contact the content owner, they can change the access end date of the protected content.

24.1.8 The server does not know about that file

ISSUE

You receive the message “The server does not know about that file”

CAUSE

You are trying to open a file that required server authentication, and MediaSeal Decryptor Client cannot authenticate the file with the server.

SOLUTION

Please check that you are connected to the correct Zone Endpoint. If you are connected to the correct Zone Endpoint and you still receive the message, the authentication server may be offline. Please contact the content owner to verify the server status.

24.1.9 Password is Incorrect

ISSUE

You receive the message “Password is Incorrect”

CAUSE

You have entered the incorrect password

SOLUTION

Please check the password you are using is the correct password for the file you are trying to access. If the problem persists, please verify the password with the asset owner. Re-enter the correct password.

24.1.10 The file authorization type is not supported

ISSUE

You receive the message “The file authorization type is not supported”

CAUSE

You are trying to access content with a non-compatible version of the MediaSeal Decryptor Client.

SOLUTION

Please contact your content owner to provide content compatible with your MediaSeal Decryptor Client version. Alternately, install a compatible version of the MediaSeal Decryptor Client software.

24.1.11 Unknown reason

ISSUE

You receive the message “Unknown reason”

CAUSE

When authenticating access to content, the MediaSeal Decryptor Client validates each aspect of your authentication credentials. MediaSeal Decryptor Client will display this message when no authentication errors are found.

SOLUTION

Please ensure you have installed the latest version of **MediaSeal Decryptor Client** then change the **detection mode**.

25 APPENDIX B

25.1 MEDIASEAL SECURE PLAYER INTERACTIVE CONTROLS

25.1.1 Keyboard Control

LEFT and RIGHT

Seek backward/forward 5 seconds. Shift+arrow does a 1 second exact seek (see --hr-seek).

UP and DOWN

Seek forward/backward 1 minute. Shift+arrow does a 5 second exact seek (see --hr-seek).

Ctrl+LEFT and Ctrl+RIGHT

Seek to the previous/next subtitle. Subject to some restrictions and might not always work; see sub-seek command.

Ctrl+Shift+Left and Ctrl+Shift+Right

Adjust subtitle delay so that the next or previous subtitle is displayed now. This is especially useful to sync subtitles to audio.

[and]

Decrease/increase current playback speed by 10%.

{ and }

Halve/double current playback speed.

BACKSPACE

Reset playback speed to normal.

Shift+BACKSPACE

Undo the last seek. This works only if the playlist entry was not changed. Hitting it a second time will go back to the original position. See revert-seek command for details.

Shift+Ctrl+BACKSPACE

Mark the current position. This will then be used by **Shift+BACKSPACE** as revert position (once you seek back, the marker will be reset). You can use this to seek around in the file and then return to the exact position where you left off.

< and >

Go backward/forward in the playlist.

ENTER

Go forward in the playlist.

p / SPACE

Pause (pressing again unpauses).

.

Step forward. Pressing once will pause, every consecutive press will play one frame and then go into pause mode again.

,

Step backward. Pressing once will pause, every consecutive press will play one frame in reverse and then go into pause mode again.

q

Stop playing and quit.

Q

Like q, but store the current playback position. Playing the same file later will resume at the old playback position if possible.

/ and *

Decrease/increase volume.

9 and 0

Decrease/increase volume.

b

Balance audio to left

n

Balance audio to right

?

Reset audio balance

m

Mute sound.

-

Cycle through the available video tracks.

#

Cycle through the available audio tracks.

f

Toggle Fullscreen (see also --fs).

ESC

Exit Fullscreen mode.

T

Toggle stay-on-top (see also --ontop).

w and W

Decrease/increase pan-and-scan range. The e key does the same as W currently, but use is discouraged.

o (also P)

Show progression bar, elapsed time, and total duration on the OSD.

O

Toggle OSD states between normal and playback time/duration.

v

Toggle subtitle visibility.

j and J

Cycle through the available subtitles.

z and Z

Adjust subtitle delay by +/- 0.1 seconds. The x key does the same as Z currently, but use is discouraged.

I

Set/clear A-B loop points. See ab-loop command for details.

L

Toggle infinite looping.

Ctrl + and Ctrl -

Adjust audio delay (A/V sync) by +/- 0.1 seconds.

u

Switch between applying no style overrides to SSA/ASS subtitles and overriding them almost completely with the normal subtitle style. See --sub-ass-override for more info.

V

Toggle subtitle VSFilter aspect compatibility mode. See --sub-ass-vsfilter-aspect-compat for more info.

r and R

Move subtitles up/down. The t key does the same as R currently, but use is discouraged.

PGUP and PGDWN

Seek to the beginning of the previous/next chapter. In most cases, "previous" will go to the beginning of the current chapter; see --chapter-seek-threshold.

Shift+PGUP and Shift+PGDWN

Seek backward or forward by 10 minutes. (This used to be mapped to PGUP/PGDWN without Shift.)

d

Activate/deactivate deinterlacer.

A

Cycle aspect ratio override.

Ctrl h

Toggle hardware video decoding on/off.

Alt+LEFT, Alt+RIGHT, Alt+UP, Alt+DOWN

Move the video rectangle (panning).

Alt + and Alt -

Combining Alt with the + or - keys changes video zoom.

Alt+BACKSPACE

Reset the pan/zoom settings.

F8

Show the playlist and the current position in it (useful only if a UI window is used, broken on the terminal).

F9

Show the list of audio and subtitle streams (useful only if a UI window is used, broken on the terminal).

i and I

Show/toggle an overlay displaying statistics about the currently playing file such as codec, framerate, number of dropped frames and so on. See STATS for more information.

(The following keys are valid only when using a video output that supports the corresponding adjustment.)

1 and 2

Adjust contrast.

3 and 4

Adjust brightness.

5 and 6

Adjust gamma.

7 and 8

Adjust saturation.

Alt+0 (and command+0 on OSX)

Resize video window to half its original size.

Alt+1 (and command+1 on OSX)

Resize video window to its original size.

Alt+2 (and command+2 on OSX)

Resize video window to double its original size.

command + f (OSX only)

Toggle Fullscreen (see also --fs).

(The following keys are valid if you have a keyboard with multimedia keys.)

PAUSE

Pause.

STOP

Stop playing and quit.

PREVIOUS and NEXT

Seek backward/forward 1 minute.

25.1.2 Mouse Control

button 3 and button 4

Seek backward/forward 1 minute.

button 5 and button 6

Decrease/increase volume.