



MEDIASEAL

App Guide

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 an advanced security solution that has been specifically designed to protect sensitive information.

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

MediaSeal® keeps sensitive files encrypted whilst they are being used. It has been designed to fit smoothly into collaborative workflows with the minimum amount of effort.

3 REQUIREMENTS

3.1 WINDOWS REQUIREMENTS

- Requires x64 compatible Windows Operating System.
- Requires Window 7 or above

3.2 MACOS REQUIREMENTS

- Requires OSX 10.10 Yosemite or above

3.3 CREDENTIALS

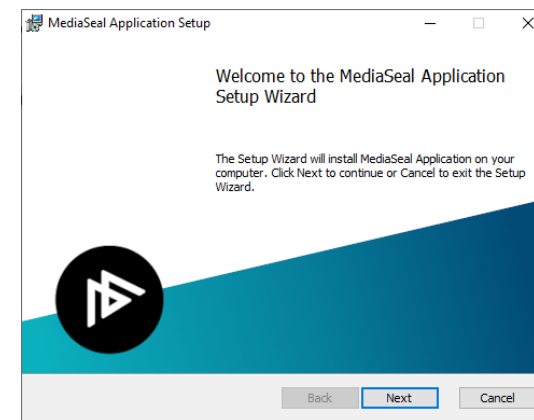
- You will require your studio license and your studio account credentials.

4 INSTALLATION

4.1 INSTALL ON WINDOWS



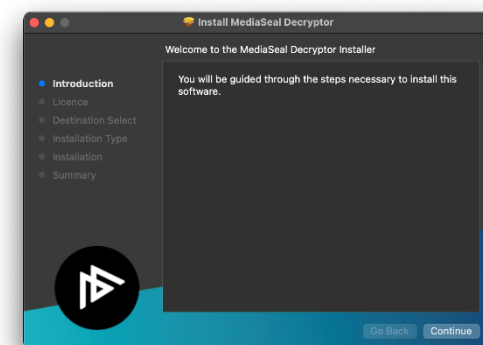
Download and extract the *MediaSealAppInstaller.msi* file. Run the *MediaSealAppInstaller.msi* and follow the on-screen instructions.



4.2 INSTALL ON MAC



Download and extract the *MediaSeal App Install.pkg* file. Run the *MediaSeal App Install.pkg* and follow the on-screen instructions.



You will require administrative permissions to install the software.

5 GETTING STARTED

5.1 ACCESSING THE MEDIASEAL APP VIA THE WEB



You can access the App via the web to manage your studio and configure jobs.

Simply navigate to your <https://gs.cloud.mediaseal.com/studio/connect>

Then enter your studio licence and credentials

Encrypting files, will require the App software to be installed on your local machine.

5.2 CONNECTING TO A STUDIO



You can connect to a studio by clicking on the “Connect to a studio” button on the main entry screen or clicking the “+” on the left-hand side menu bar.

Simply enter your studio license and click connect.

MediaSeal
Seamless content security

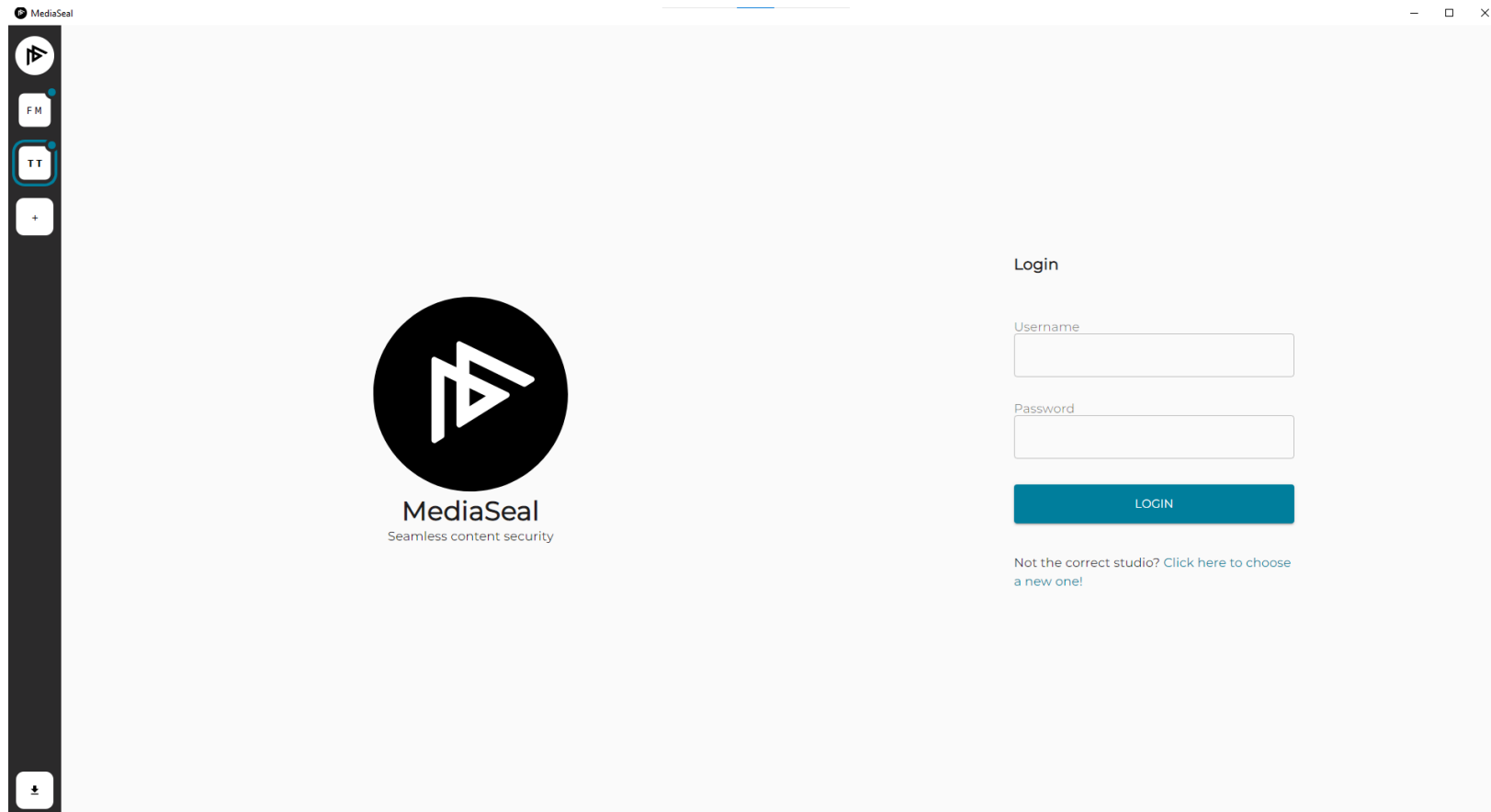
Connect to your studio
Please enter your studio license.

Your Studio License Code

Connect →

Registration is by invitation only at this time.
To obtain an invitation, please contact your content owner or studio administrator.
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Then enter your studio username and password and click the login button.



The image shows the MediaSeal login interface. On the left is a dark vertical sidebar with icons for a play button, 'FM', 'TT' (highlighted with a red box), a plus sign, and a download icon. The main area features the MediaSeal logo (a black circle with a white stylized 'M' and 'S') and the text 'MediaSeal Seamless content security'. To the right is a 'Login' section with 'Username' and 'Password' input fields, a blue 'LOGIN' button, and a link: 'Not the correct studio? Click here to choose a new one!'.

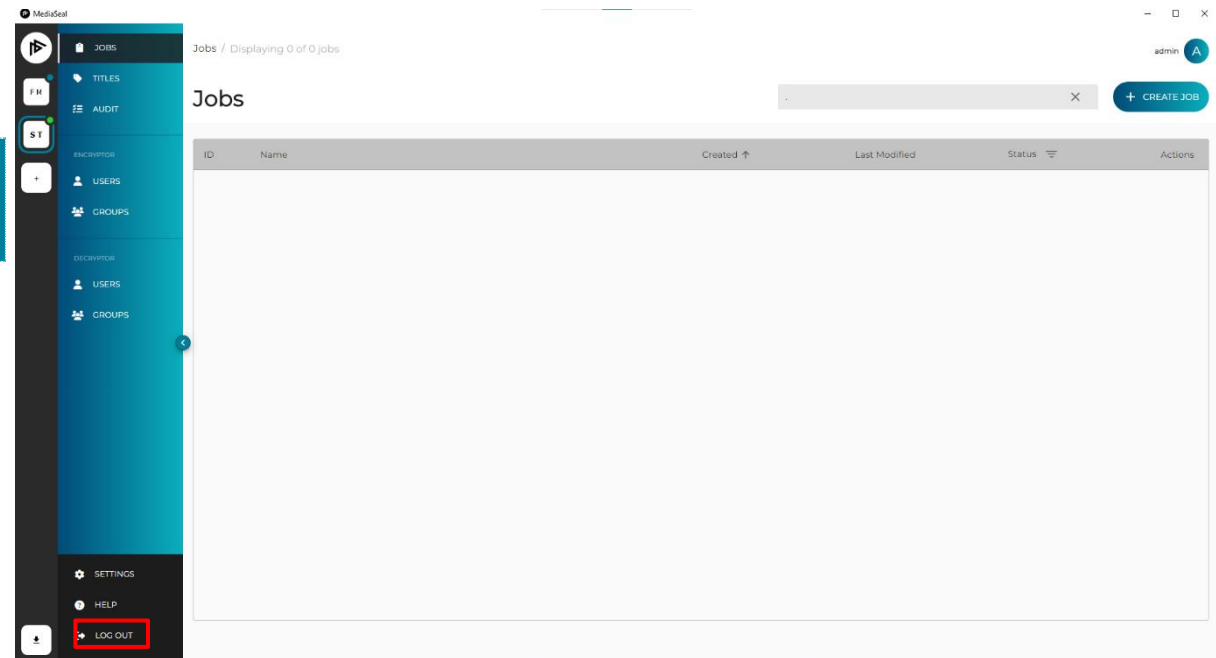
5.3 LOGOUT / QUIT



You can either logout of the MediaSeal App, which keeps the application open and enables you to connect to another studio, or you can quit the application completely.

To logout:

- Click the **Logout** link in the bottom left

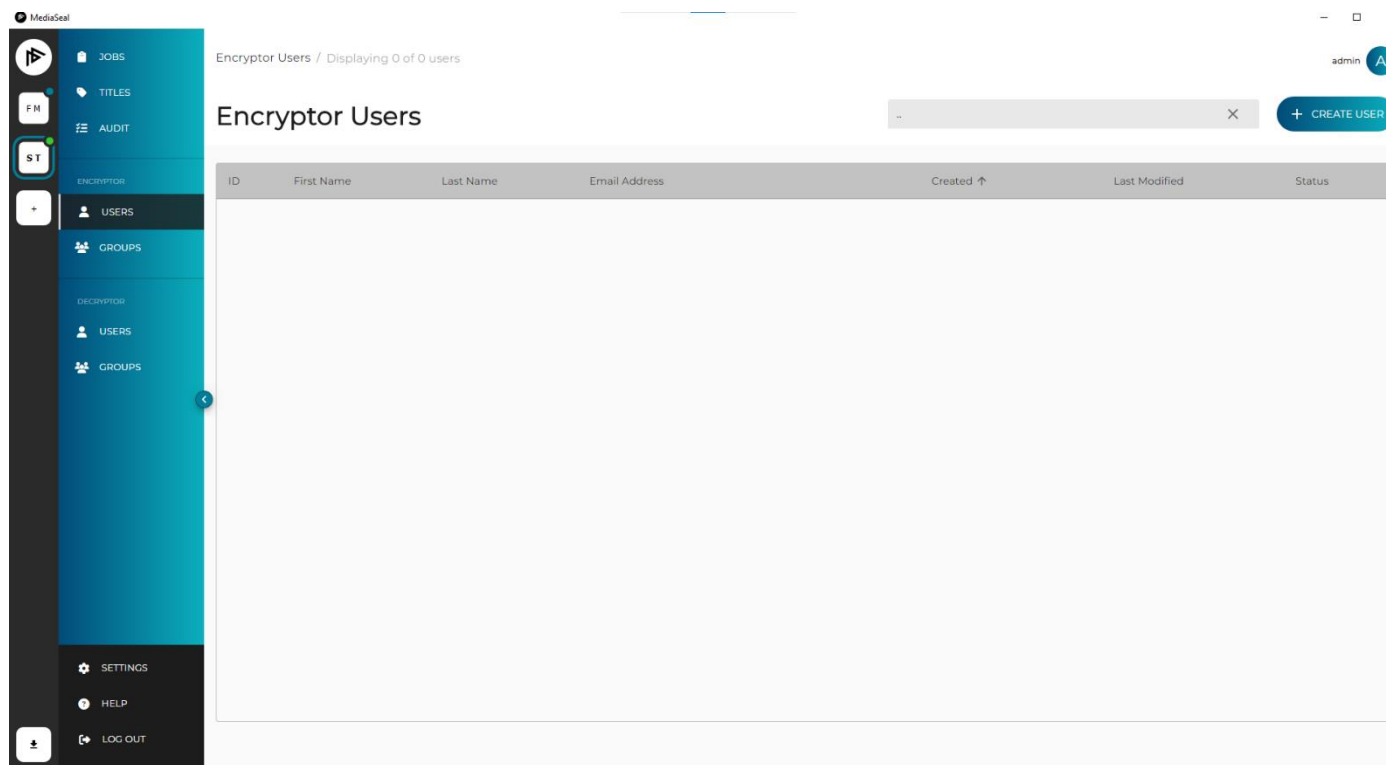


6 ENCRYPTOR USERS

6.1 MANAGING ENCRYPTOR USERS



Encryptor Users are users allowed to login to the Studio Server using the MediaSeal App. You can manage these users via the Encryptor Users tab.



6.1.1 Create Encryptor User



To create a new Encryptor User:

- Click on **Create User**
- Enter the **required details**.
- Select **Groups** this account is a member of
- Click **Save User**

MediaSeal

Encryptor Users / Create

Create an Encryptor User

Tuesday, May 2nd, 2023

admin

SAVE USER

User Details

Enter a login name, first and last names for the new user

Login Name

First Name

Last Name

Password

Enter a password for the user

Contact Details

Enter the contact details of the new user

Email Address

No users or groups assigned.

6.1.2 Edit Encryptor User



To edit an Encryptor User:

- Click the **user** in the list
- Modify the **required fields (Email, First Name, Last Name)**
- *Select or remove **Groups** this account is a member of*

Encryptor Users / test user

test user

Tuesday, January 19th, 2020

deactivate active

Login Name: test-user

Email: test-user@test.com

First Name: test

Last Name: user

Groups

ID	Name	Created	Last Modified	Status	Actions
175	Cypress-encryptor-group-07ed71b2-47be-4194-9d6f-bb9ef4136...	18 days ago	18 days ago	Active	X
254	Cypress-encryptor-group-f23d0c2a-7832-4df9-895f-f6bf43dbc...	15 days ago	15 days ago	Active	X
41	Cypress-encryptor-group-ec559769-aca7-4ea0-81fa-3dc924c43...	19 days ago	19 days ago	Active	X
51	Cypress-encryptor-group-67a4dd48-066a-4cdd-b248-35d8f3a...	19 days ago	19 days ago	Active	X
138	Cypress-encryptor-group-9e98fc56-2677-4a84-ae97-821c561ae...	18 days ago	18 days ago	Active	X
297	Cypress-encryptor-group-9c016376-6ea6-451d-b39e-8f59cb2e2...	15 days ago	15 days ago	Active	X
327	Cypress-encryptor-group-cc454860-8859-49e5-9624-0c5ef7a0...	15 days ago	15 days ago	Active	X
328	Cypress-encryptor-group-2b15ba6d-870b-4aa7-beef-93e6945f7...	15 days ago	15 days ago	Active	X
461	Cypress-encryptor-group-3ddd8dda-5895-4f00-ad8d-49538ec...	6 days ago	6 days ago	Active	X
543	Cypress-encryptor-group-57aa204d-0336-498f-a08a-9204a182...	5 days ago	5 days ago	Active	X
105	Cypress-encryptor-group-219d1ede-afe0-4461-a0a0-c88c513c3...	19 days ago	19 days ago	Active	X

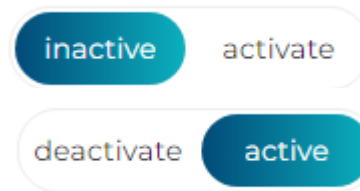
Successfully updated user: test user

6.1.3 Activate Encryptor User



To activate an Encryptor User:

- Click **Activate** in the upper right of the screen to change the user to **active**

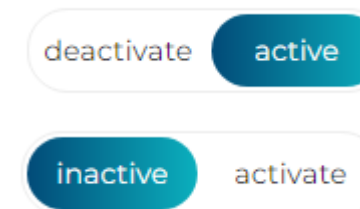


6.1.4 Deactivate Encryptor User



To deactivate an Encryptor User:

- Click **Deactivate** in the upper right of the screen to change the user to **inactive**



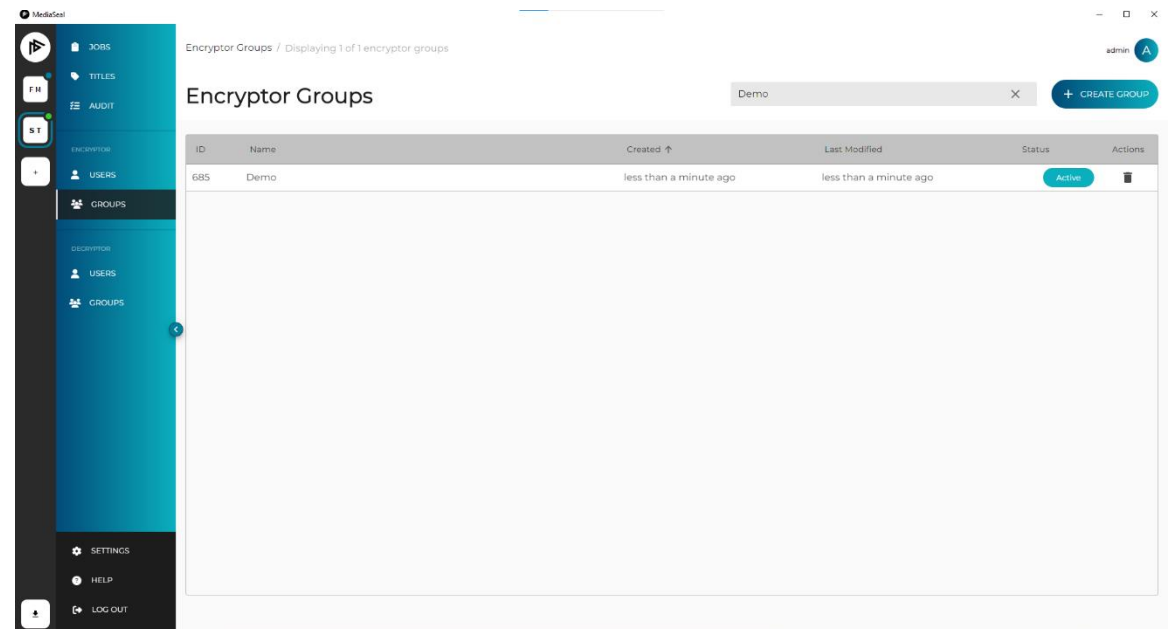
7 ENCRYPTOR GROUPS

7.1 MANAGING ENCRYPTOR GROUPS



Encryptor groups allow you to group together Encryptor User Accounts.

Within each group you can set application permissions and recipient permissions.



7.1.1 Create Encryptor Group



To create an Encryptor Group:

- Click on **Create Group**
- Enter **Name**
- Enter **Description**.
- **Assign permissions** to the group
- **Assign users, recipients and recipient groups** to the group
- Click **Save Group**

MediaSeal

Encryptor Groups / Create

Create Encryptor Group

Tuesday, May 2nd, 2023

admin

SAVE GROUP

Name and Description

Create a name and description for the group

Name

Description

Group Permissions

Assign permissions to the group.

JOBS/TITLES ENCRYPTOR DECRYPTOR SETTINGS REPORTING

☐ Select All

View*	Create*	Edit*	Archive*	Copy*
<input type="checkbox"/> canViewJobs	<input type="checkbox"/> canCreateJobs	<input type="checkbox"/> canEditJobs	<input type="checkbox"/> canArchiveJobs	<input type="checkbox"/> canCopyOnJobs
<input type="checkbox"/> canViewTitles	<input type="checkbox"/> canCreateTitles	<input type="checkbox"/> canEditTitles	<input type="checkbox"/> canArchiveTitles	

Modify*

☐ canTranscodeOnJobs

Users and Groups

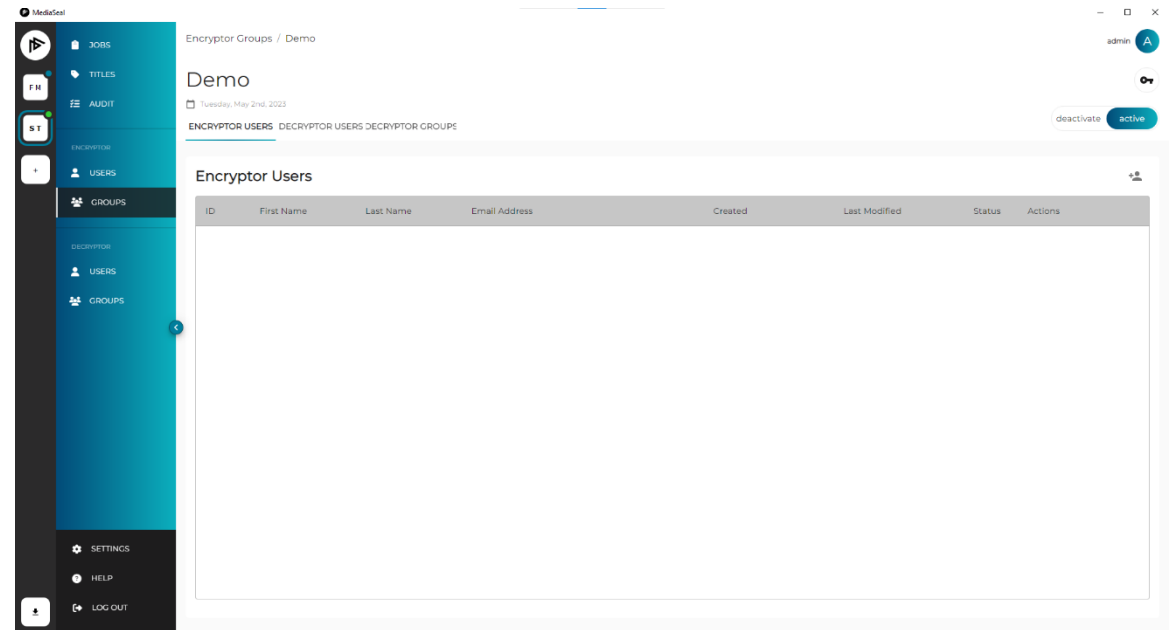
No users or groups assigned.

7.1.2 Edit Encryptor Group



To edit an Encryptor Group:

- Click the **group** in the list
- *Modify the **required** fields*
- *Add/remove **Encryptor Users***
- *Add/remove **Decryptor Users***
- *Add/remove **Decryptor Groups***
- *Change **Group** permissions*

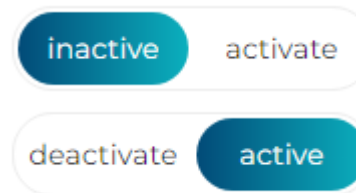


7.1.3 Activate Encryptor Group



To activate an Encryptor Group:

- Click **Activate** in the upper right of the screen to change the group to **active**

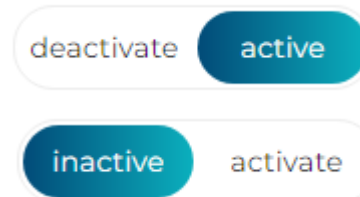


7.1.4 Deactivate Encryptor Group



To deactivate an Encryptor Group:

- Click **Deactivate** in the upper right of the screen to change the group to **inactive**



8 DECRYPTOR USERS



In order that you can begin encrypting content that requires user authentication, you need to first invite the user to join your studio.

You must invite the user and the user is required to accept the invitation to join the studio before you can begin encrypting content for them.

8.1 MANAGE DECRYPTOR USERS



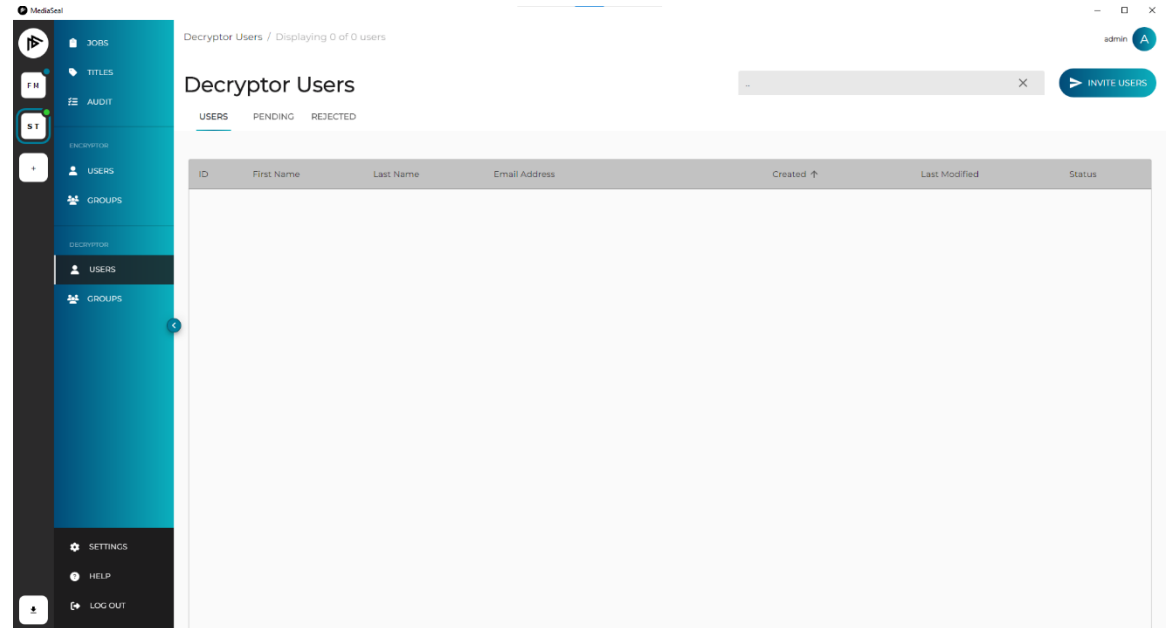
A MediaSeal Account is needed for users that require access to Multi-Factor Authenticated files. In order protect content for a specific user with MFA, it is necessary to import that person into your Studio Server via MediaSeal Encryptor Client.

8.1.1 Invite User

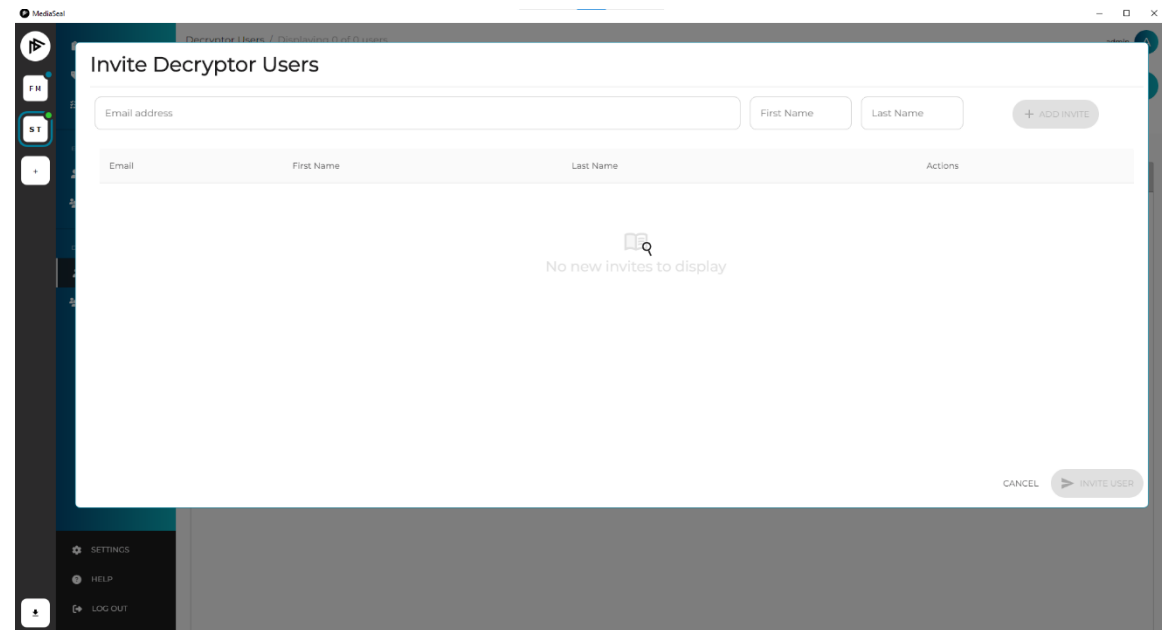


To invite a Decryptor user:

- Click on the **Decryptor user icon** on the left-hand menu.
- Then click **Invite Decryptor User**




- In the dialog screen, type the **email address**, **first name** and **last name** of the user to invite.
- Then click the **+** symbol
- Repeat to add more users.
- Once finished, click the **invite** button



8.1.2 Decryptor User Acceptance




After you invite the user, the end user will receive an email. The link on the email directs them to the MediaSeal registration portal, where the user is required to log in and accept the invitation.

 **MEDIASEAL**

Invitation Alert

Great news, **Test Studio 1** has just invited you to join their MediaSeal server

Please accept or decline this invitation using the link below:


Your Invites!

Please note: Once you have accepted this invitation, **Test Studio 1** can start protecting content for you.

Thank you for using MediaSeal to keep content secure.

Help & Support

For more information about installing and using MediaSeal, visit our support site:

MediaSeal Support

You are receiving this email notification because a MediaSeal enabled studio would like to use your MediaSeal details to encrypt content for you. If you believe this email has been sent in error, please let us know.

www.fortium.com

8.1.3 Activate/Deactivate Decryptor User



Select a User from the Decryptor Users list

- Click Activate or Deactivate



8.2 DECRYPTOR GROUPS

8.2.1 Manage Decryptor Groups



You can group Decryptor users into a Decryptor Group. This allows you to protect content using a group rather than managing content on a per user basis. It also enables for easier management, like granting file access or revoking permissions when using Server authentication.

8.2.2 Create Decryptor Group



To create a new Decryptor Group:

- Click on the **Decryptor Groups** section
- Click **Create Group**
- Enter a **Name** and **Description**
- Assign recipients to the group
- Click **Save Group**

MediaSeal

Decryptor Groups / Create

Create Decryptor Group

Tuesday, May 2nd, 2023

Name and Description
Create a name and description for the group

Name

Description

Users
Assign recipients to the group

ID	First Name	Last Name	Status
----	------------	-----------	--------

No users or groups assigned.

admin A

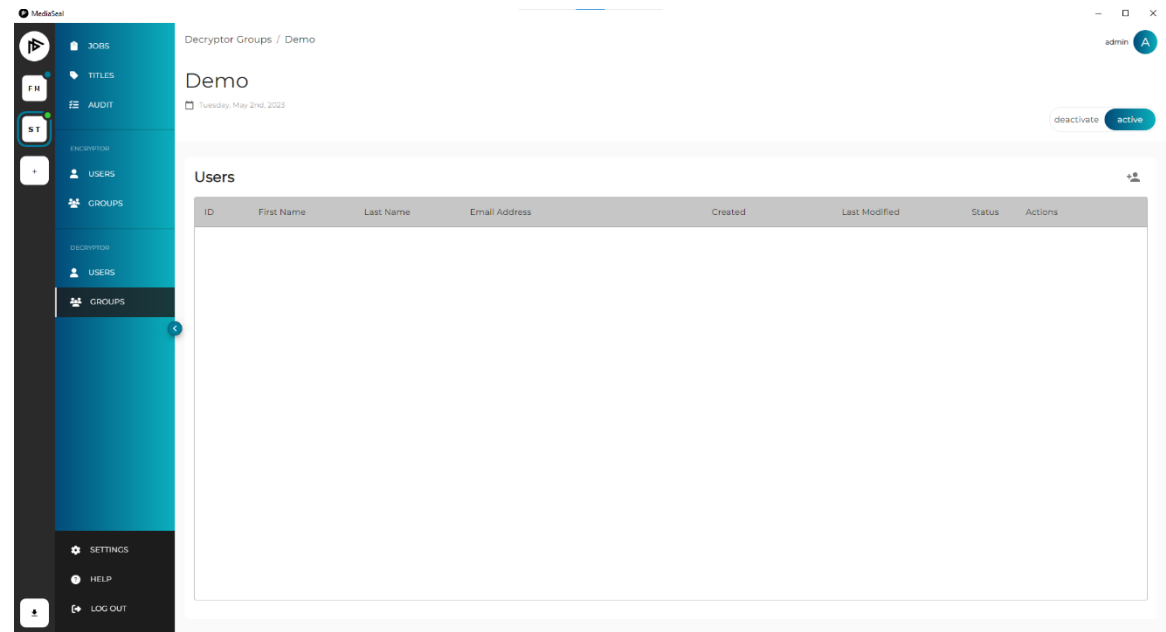
SAVE GROUP

8.2.3 Edit Decryptor Group



To edit a Decryptor Group:

- Click the **group** in the list
- Modify name, **deactivate** or **activate**, **Add user** to group or **remove a user** from the group

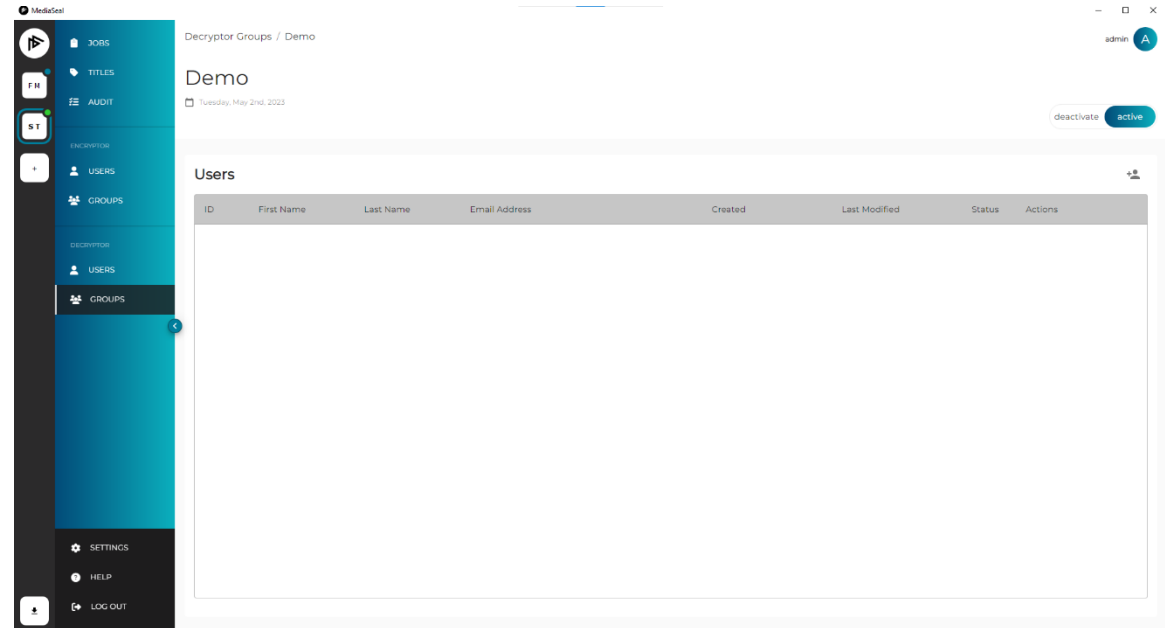


8.2.4 Manage Members of a Decryptor Group



To add members to a Decryptor Group:

- Click the **group** in the list
- Click the **Add Decryptor Users** button
- Tick the **Decryptor Users** you wish to add
- Click the **Checkmark** to confirm changes



9 CREATE A TITLE



Before creating an encryption job, you need to create a title.

- Click on the **Title icon** on the left-hand menu
- Click **Create Title**
- Enter a **Name** for the title
- Enter a **Description** for the title
- Click on the **Users** and **Groups** to set permissions
- Once finished click **Save Title**

MediaSeal

Titles / Create

Create a Title

Tuesday, May 2nd, 2023

Name

Description

Enter description for the title.

USERS

ID	First Name	Last Name	Status
----	------------	-----------	--------

GROUPS

No users or groups assigned.

SETTINGS

HELP

LOG OUT

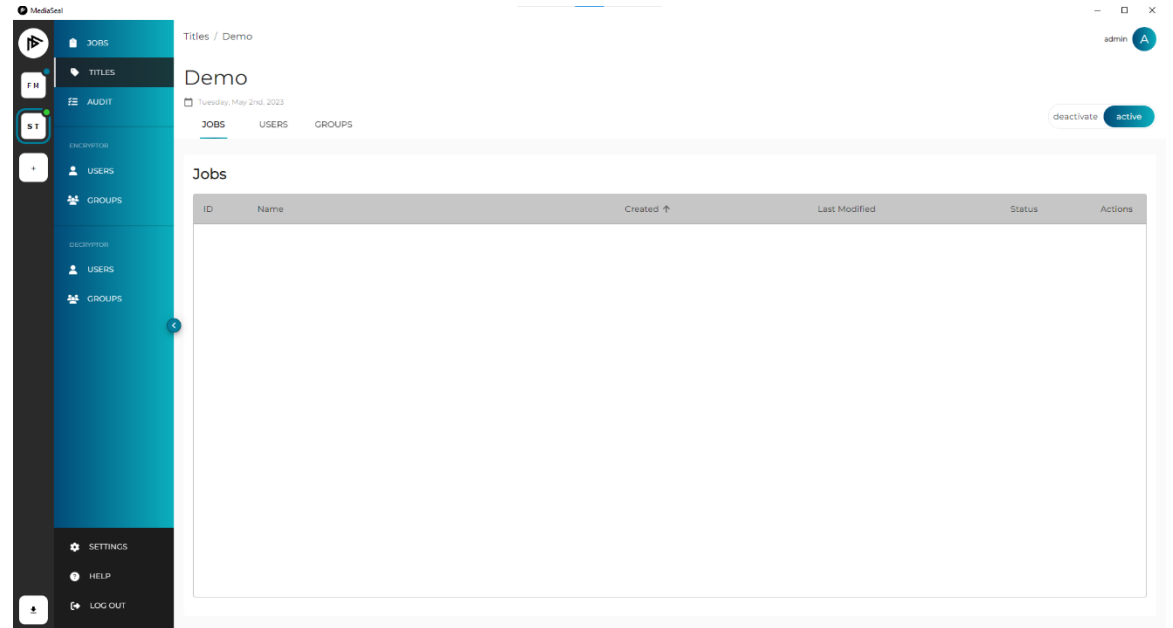
SAVE TITLE

9.1.1 Edit Title



To edit a Title:

- Click the **Title** in the list
- Modify **name**, **deactivate/activate title**, **Add/remove user** from title or **Add/remove a group** from the title



10 ENCRYPTING FILES

10.1 ENCRYPTING FILES (STUDIO)

10.1.1 Create a Job



To create (Password), (Password+ iLok) and (Password + iLok + Server) protected files:

- Click on **Jobs** on the left-hand menu bar
- Click **Create Job**
- Enter **Name** for the job
- Select the **Title**
- Select **Security**
- Enter **password** for the job
- Select the **Users** and **Groups** you wish to add
- Set any advanced options (optional)
- Click **Create Job**

The screenshot displays the 'Create a Job' form in the MediaSeal application. The sidebar on the left has 'JOBS' highlighted. The main content area includes the following sections:

- Name:** A text input field with the placeholder 'Enter a descriptive name that describes the current job'.
- Title:** A dropdown menu with the placeholder 'Search for a relevant title that this job will be associated to'.
- Security:** A section with three selectable options: 'Password', 'Password + User', and 'Password + User + Server'. Each option is represented by a card with a lock icon and a plus sign.
- Advanced Options:** A section titled 'ADVANCED OPTIONS' with a dropdown arrow, currently showing 'No users or groups assigned.'
- Password:** A text input field with the placeholder 'Please enter the password for the job'.

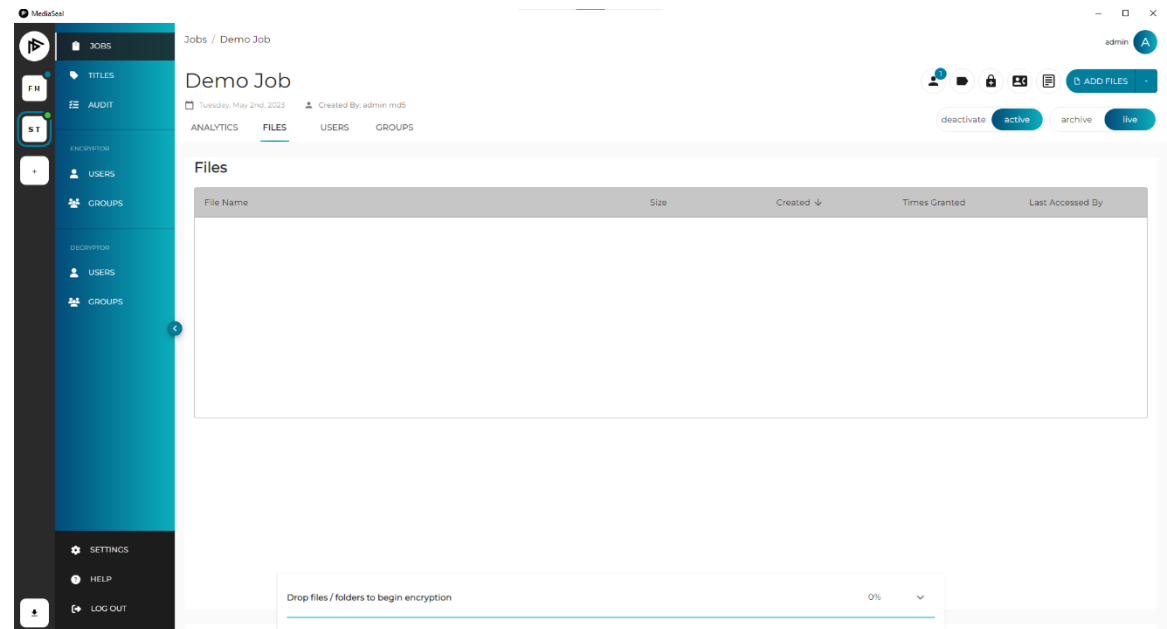
At the top right of the main area, there is a 'SAVE JOB' button. The bottom of the sidebar contains links for 'SETTINGS', 'HELP', and 'LOG OUT'.

10.1.2 Encrypt Files



To encrypt files, simply open the job that has been created from the main jobs screen, or by going to the titles tab, select your title and select the relevant job.

- Click on the relevant **job**
- **Drag and drop** the files you want to be encrypted.
- Select the **output folder**
- Wait while your files are encrypted



10.1.3 Advanced Options



To select from several advanced options please click the dropdown to the right of Advanced Options.

10.1.3.1 Batch Encoding



Batch encoding provides the ability to set authenticate all files within a batch after the first file in the batch is successfully authenticated. If you do not set batch encoding, then each file will require independent authentication.

To encode files in a batch

- Click **Batching +**

If you batch encode files, the Audit information will only report that the job was accessed. It will not report which specific file was accessed.

10.1.3.2 Secure Playback



Content can be protected so that it may only be accessed using MediaSeal Secure Player or MediaSeal Secure Viewer. This option provides additional security by restricting playback to MediaSeal Secure Player or MediaSeal Secure Viewer which is bundled as part of MediaSeal Decryptor Client software.

MediaSeal Secure Player and MediaSeal Secure Viewer are compatible with Microsoft Windows and Mac OSX 10.10 and above.

10.1.3.3 QR Watermark Protection



Content that is restricted to Secure Playback via MediaSeal Secure Player can have a QR code overlay containing information about the authorised viewer during content playback.

10.1.3.4 Re-Authenticate Every [x] Hours



This allows the asset owner to enforce re-authentication every x number of hours. After the timeout is reached, access to the content will be re-authenticated. Re-authentication triggers creation of an audit record, thus decreasing the time between re-authentication requests will increase the number of audit records for file access.

10.1.3.4.1 Disable Automatic Background Authentication



This disables automatic background authentication and will require the end user to re-input the content password after the file cache timeout setting has been reached.

By default, once a file is successfully authenticated, seamless automatic background reauthentication occurs if the file is still in use for longer than 8 hours and every subsequent 8 hours. This does not require user interaction.

10.1.3.5 Sunset / Sunrise Time



This determines the times in which MediaSeal Users may access encrypted files. Select the time zone from the drop down menu. Select Sunrise date and time from when the file can be accessed. Set Sunset date and time when the file should have restricted access.

10.2 AUTHENTICATION TYPES



The content can be protected using different authentication levels. These levels define the requirements that must be met by the MediaSeal Decryptor Client user to authenticate and access the protected content.

Authentication Type	Factor Level	MediaSeal Authentication	Requirements
	1 Factor Authentication	Password Only	MediaSeal Decryptor Client
	Multi Factor Authentication	Password and iLok(User)	MediaSeal Decryptor Client MediaSeal Portal Account iLok Account / License
	Server + Multi Factor Authentication	Password, iLok(User) and Server	MediaSeal Decryptor Client MediaSeal Portal Account iLok Account / License Connection to Zone Endpoint

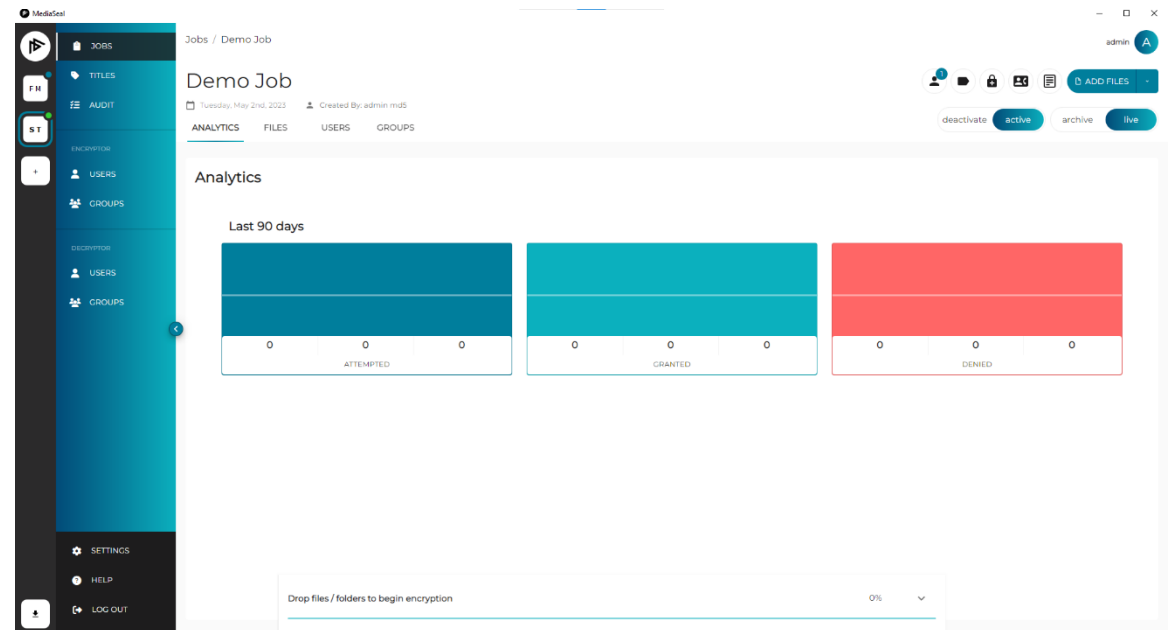
10.3 EDIT JOB



You can edit an existing job, this allows you to make selective changes to the job including changing passwords or assigning or revoking permissions when using server authentication and modify content controls.

10.3.1.1 To edit a job:

- Click the **Job** in the list
- Amend **details as Required**
- Modify **Password, Contact info, Add notes** as necessary
- **Add/remove** users from the Users Tab
- **Add/remove** groups from the Groups Tab



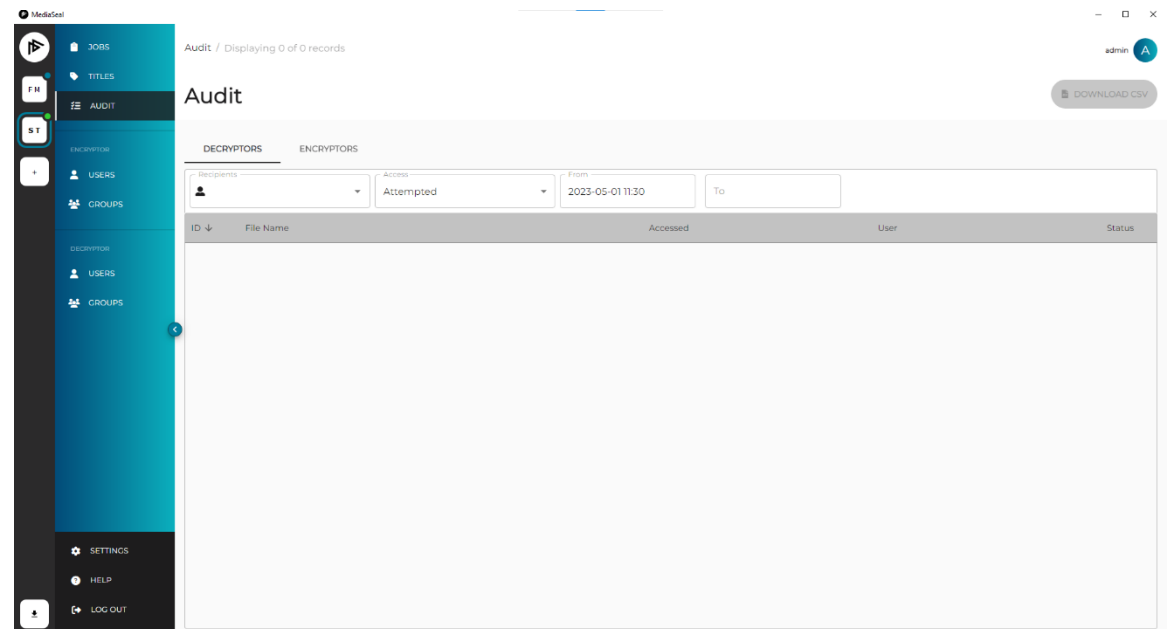
11 VIEWING AUDIT DATA



You can view audit data for both types of users.

11.1.1.1 To view audit data:

- Click the Audit tab to **display audit data**
- Change the **filters as required**



11.1.2 Audit Types:

<i>Decryptor User Audit Types</i>	Audit Type:	Description:
	Attempted	An attempt was made to access a file
	Denied	Access to a file was denied
	Granted	Access to a file was granted
	Saved file with open assets	A file was saved whilst protected content was open

11.1.3 Filter Date / Time:



You can also filter the results by date of the audit types.

To change the date selection:

- Click on the drop down labeled **from**
- Select the **required date & time**
- Click on the drop down labeled **To**
- Select the **required date & time**

From: 2022-02-16 16:15 To: 2022-02-16 16:54

February 2022

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
30	31	6	7	8	9	10
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	1	2	3	4	5

time

- 15:45
- 16:00
- 16:15
- 16:30
- 16:45

Today

Further Audit data is also available upon clicking on a filename from the Audit list.

11.2 EXPORTING AUDIT DATA



You can specify to export the entire report, alternatively you can select between a certain date and time.

To export audit data:

- Click **Download CSV**

DOWNLOAD CSV

The saved file will be exported in Comma Separated Values (CSV) format.

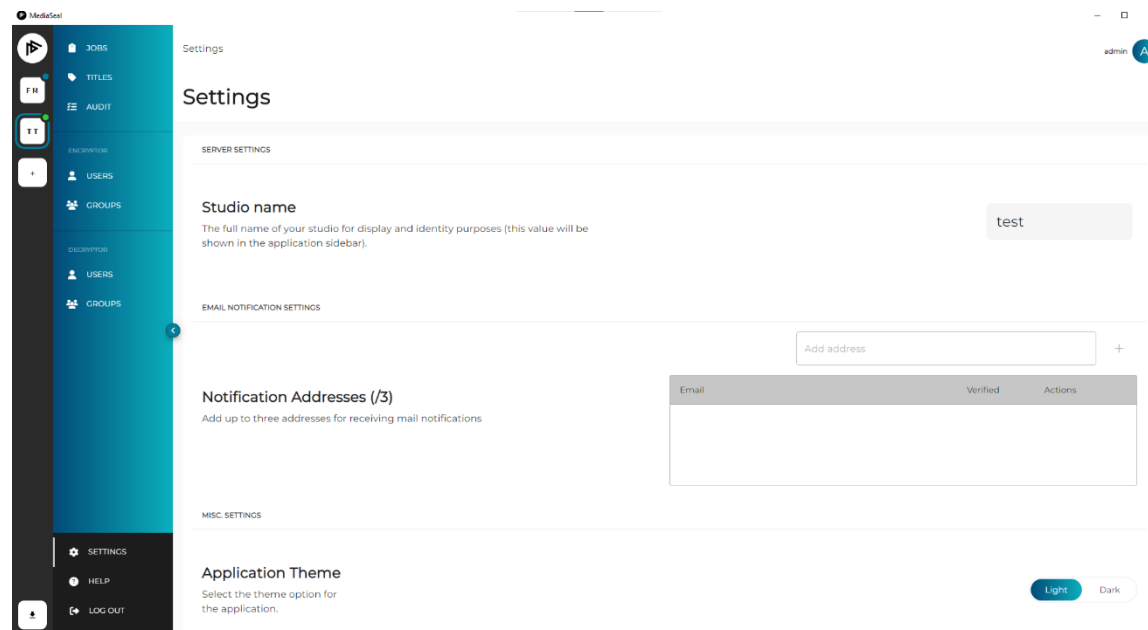
The screenshot shows the MediaSeal Audit interface. On the left is a sidebar with navigation options: HOME, TITLES, AUDIT, ENCRYPTORS, DECRYPTORS, USERS, and GROUPS. The main area is titled 'Audit / Displaying 3 of 3 records'. Below the title are tabs for 'DECRYPTORS' and 'ENCRYPTORS'. There are filters for 'Users' (a dropdown menu), 'Access' (a dropdown menu set to 'Created'), 'From' (a date field set to '2023-05-02 12:00'), and 'To' (a date field set to '2023-06-01 12:00'). A 'DOWNLOAD CSV' button is in the top right corner. The table below has columns: User, Action, Type, Date, and IP. It contains three rows of data for the 'admin' user.

User	Action	Type	Date	IP
admin	create	Job	5 minutes ago	192.168.10.98
admin	create	Title	8 minutes ago	192.168.10.98
admin	create	StationGroup	10 minutes ago	192.168.10.98


12 SETTINGS

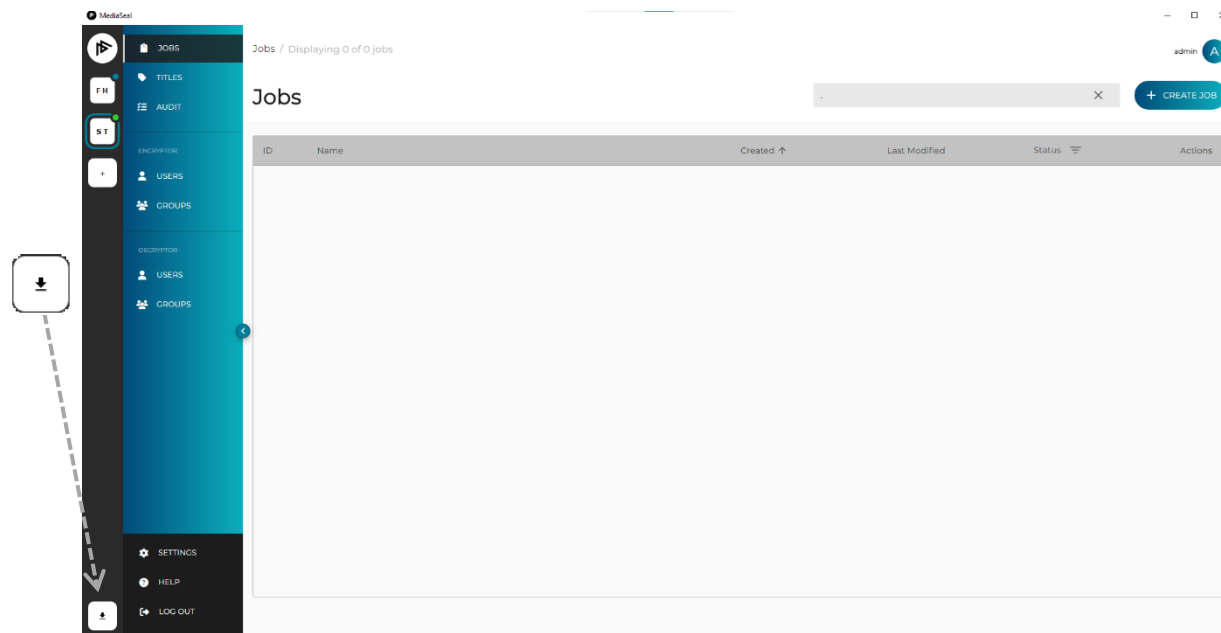


The MediaSeal App settings section enables you to configure your studio name, your Encrypted file prefix, the Application theme and the encryption engine performance.



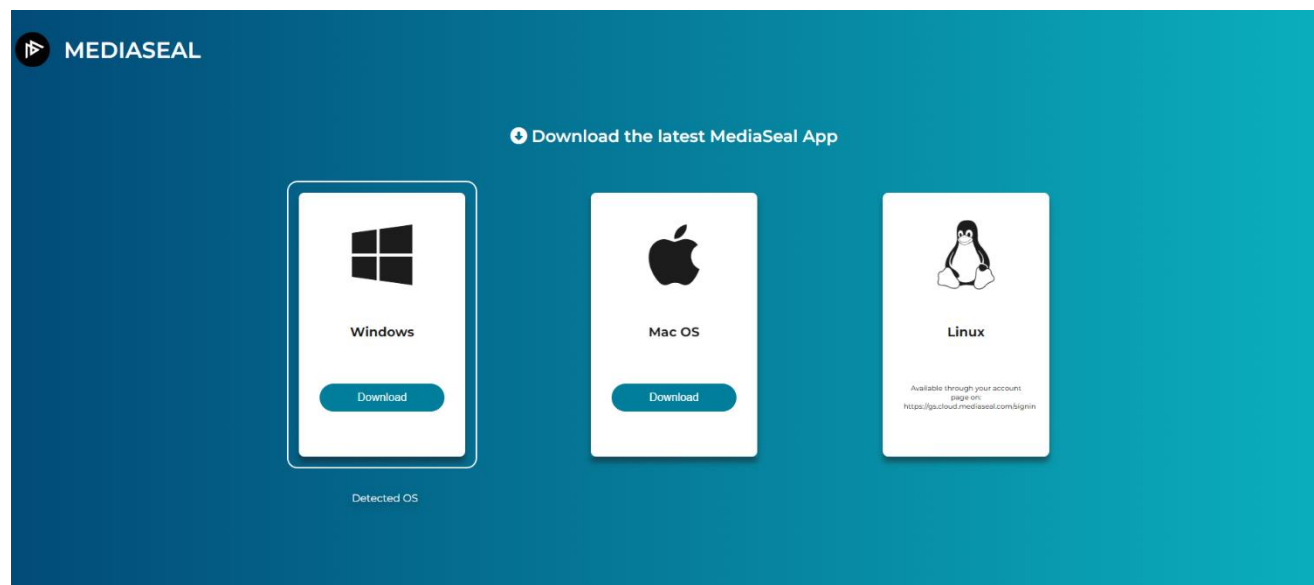
13 DOWNLOAD CENTER

 The MediaSeal App will always keep you up to date with the latest version. If the version you are running on is out of date the Download Center will inform you.





Upon clicking the Download Center button you will be greeted with a clickable link to the latest version of the MediaSeal App. Once downloaded the latest version of the MediaSeal App will overwrite the existing one.

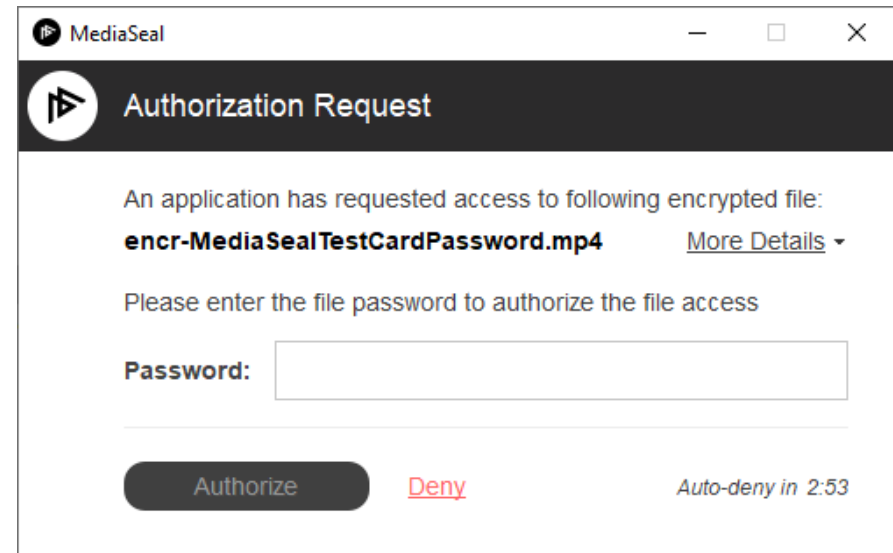


14 OPENING MEDIASEAL PROTECTED FILES



Ensure you have MediaSeal Decryptor installed and running. To open a MediaSeal protected file:

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



15 COMMAND LINE TOOL

You will require your MediaSeal App login credentials, or a valid token generated.

You will require your server to be enabled to allow encryption using the MediaSeal CLI.



The MediaSeal App can be executed from the command line which can enable MediaSeal protection to be implemented easily into existing workflows.

Options	
-? -h --help	Show help information
-v --version	Displays version
--localendpoint <LocalEndpoint>	Specify a Local endpoint override
--globalendpoint<Globalendpoint>	Specify a Global endpoint override
--license <License>	Specify License key to use with the global endpoint override
--jobid <JobId>	Specify the ID of the job you wish to target
--outputpath <OutputPath>	Specify the output directory for encrypted files
--username <Username>	Username
--password <Password>	Password
--token <Token>	Token
--level <debug error fatal info off trace warn>	Log Level
--progress <any>	Toggles command line output to true if not 0

Example MediaSeal Command Line (Windows)



An example of running MediaSeal Command Line:

```
"C:\Program Files (x86)\MediaSeal\MediaSeal\MediaSealCli.exe" --localendpoint  
https://mylocalendpoint.com --jobid 1226 --outputpath c:\some\output\folder\ --username myusername --  
password mypassword c:\some\file\to\encrypt.mp4 c:\some\folder\to\encrypt
```

Example MediaSeal Command Line (MacOS)



An example of running MediaSeal Command Line:

```
/Applications/MediaSeal/MediaSeal.app/Contents/Resources/bin/MediaSealCli --localendpoint  
https://mylocalendpoint.com --jobid 1226 --outputpath /some/output/folder --username  
myusername --password mypassword \some\file\to\encrypt.mp4 \some\folder\to\encrypt
```

When initially opening the MediaSeal CLI on Linux OS you will need to run the command:

In -s MediaSeal-x86_64.AppImage MediaSealCli whilst inside the MediaSeal App directory.

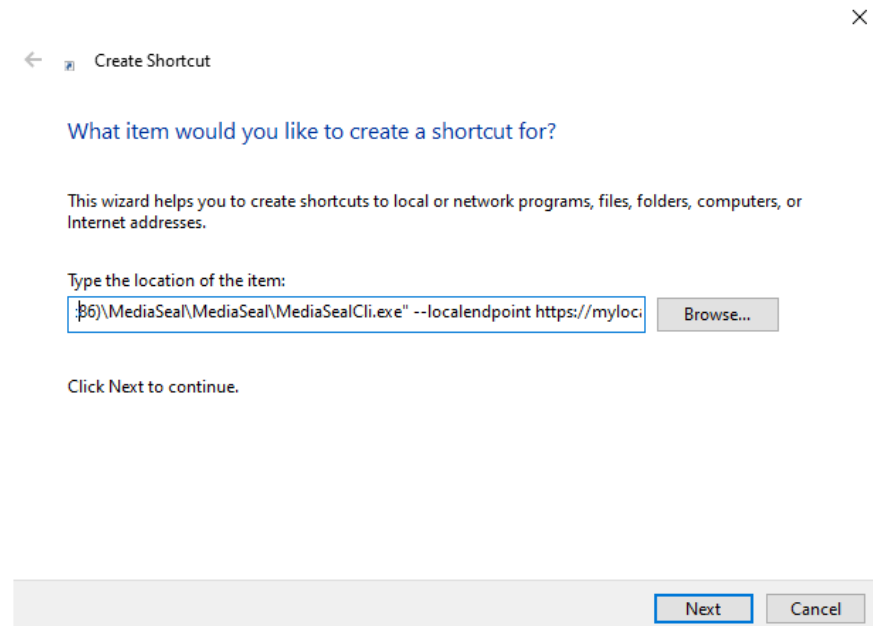
15.1 DRAG AND DROP FILE PROTECTION



You can use the command line feature of the MediaSeal App to automate the protection of files. MediaSeal App User Interface is used to create a job id that can then be used in the command line. A shortcut or an Automator task can also be created to enable drag and drop protection of files and folders.

15.1.1 Drag and Drop File Protection (Windows)

- On the Desktop *right click* and Select ***New Shortcut***
- Click ***Browse*** and select ***MediaSealCli.exe*** from the *MediaSeal App* installation directory
- Append any **required commands**.
- Click ***Next***, type a ***Name*** for the shortcut, then click ***Finish***



15.1.1.1 Windows Example shortcut with appended commands:



If you drag and drop files onto this shortcut, it will run a job to protect the files.

```
"C:\Program Files (x86)\MediaSeal\MediaSeal\MediaSealCli.exe" --localendpoint  
https://mylocalendpoint.com --username myusername --password mypassword --jobid 34 --progress 1 --output  
c:\Users\User1\
```


15.1.2 Drag and Drop File Protection (MacOS)



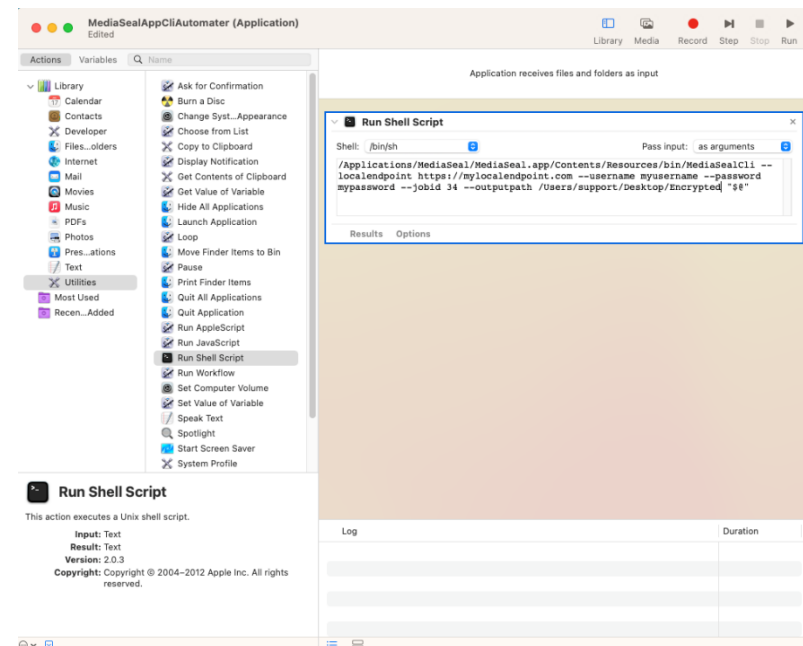
Drag and drop file protection can be configured on macOS by creating an Automator Task.

15.1.2.1 To create an Automator script:

- Launch **Automator**.
- Select **Application** as the type of document and click **Choose**
- From actions list select **Utilities**, and then double click **Run Shell Script**

- In the “Run Shell Script” change the Pass input to **as arguments** and change shell to **/bin/sh**

- Enter the *required commands*
- Select **File, Save**



15.1.2.2 MacOS Example shortcut with appended commands:



If you drag and drop files onto this Automator, it will run a job to protect the files.

```
/Applications/MediaSeal/MediaSeal.app/Contents/Resources/bin/MediaSealCli --localendpoint  
https://mylocalendpoint.com --username myusername --password mypassword --jobid 34 --outputpath  
/Users/support/Desktop/Encrypted "$@"
```

15.1.3 Editing existing shortcuts



For shortcuts that have previously been created using the MediaSeal Encryptor Client there are a small number of steps to follow to ensure compatibility with the MediaSeal App.

15.1.3.1 Windows Example shortcut with MediaSeal App commands:



You will need to modify the shortcut commands of existing Encryptor Client shortcuts to match those commands of the MediaSeal App. Please see the following examples of an Encryptor shortcut when compared alongside the MediaSeal App shortcut.

```
"C:\Program Files (x86)\MediaSeal\Encryptor\Encryptor.exe" -u myusername -p mypassword -templateid 34 -  
templatejobname Test1 -output c:\Users\User1\
```

```
"C:\Program Files (x86)\MediaSeal\MediaSeal\MediaSealCli.exe" --username myusername --password  
mypassword --jobid 34 --output c:\Users\User1\
```

16 HELP AND SUPPORT



For the latest MediaSeal information, tutorials and solutions, please visit the MediaSeal Support Portal.

To visit our support portal, please click on the link below:

MediaSeal Support Portal

<https://mediaseal.fortiumtech.com>

If you still require further information or assistance, please email the MediaSeal Support Team.

MediaSeal Support Email

support@mediaseal.com
