ICScolor
world leader in display color management

RemoteDirector™
World Leader in Digital Proofing

DESIGNED FOR
Digital Color Proofing

ICScolor - Remote Director Training Guide v3.x

Technical Services
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760-944-9445

Remote Director Training

Training Index

This guide is divided into modules with all the information needed for successful setup and use of a Remote Director system. Each module is preceded with this index of links for ease of navigation.

- Terminology
- System Architecture
- Lighting – Environment
- Server Installation
- Application Installation
- Server Administration
- Manage Account - Create Projects - Project List
- The Viewer/Calibrator/Tools – Navigation
- Hotfolders
- Support

Remote Director Training

Terms we Use

Server Admin:	User with server administration permissions
Company Admin	User with company administration permissions
Hotfolders Admin	User who can set up hotfolders
Creator:	User with project creation permissions
Color Viewer:	User invited to view a project and forced to calibrate
Content Viewer:	User invited to view a project with no need to calibrate
Role:	Set of permissions that defines your tools for proofing
Workgroup:	Workgroup of users with one role
Proof Server:	Windows machine where the projects are stored and served to clients
Client Application:	Desktop Application used to access the Proof Server
Admin Screen:	Server or Company admins log into to server settings
Splash Screen:	Where the URL of the Proof Server is entered
Home Screen:	Where you Manage Account, Create and View Projects
Viewer:	Where files are rendered for proofing and annotation
Calibration:	Module used to calibrate and profile the display

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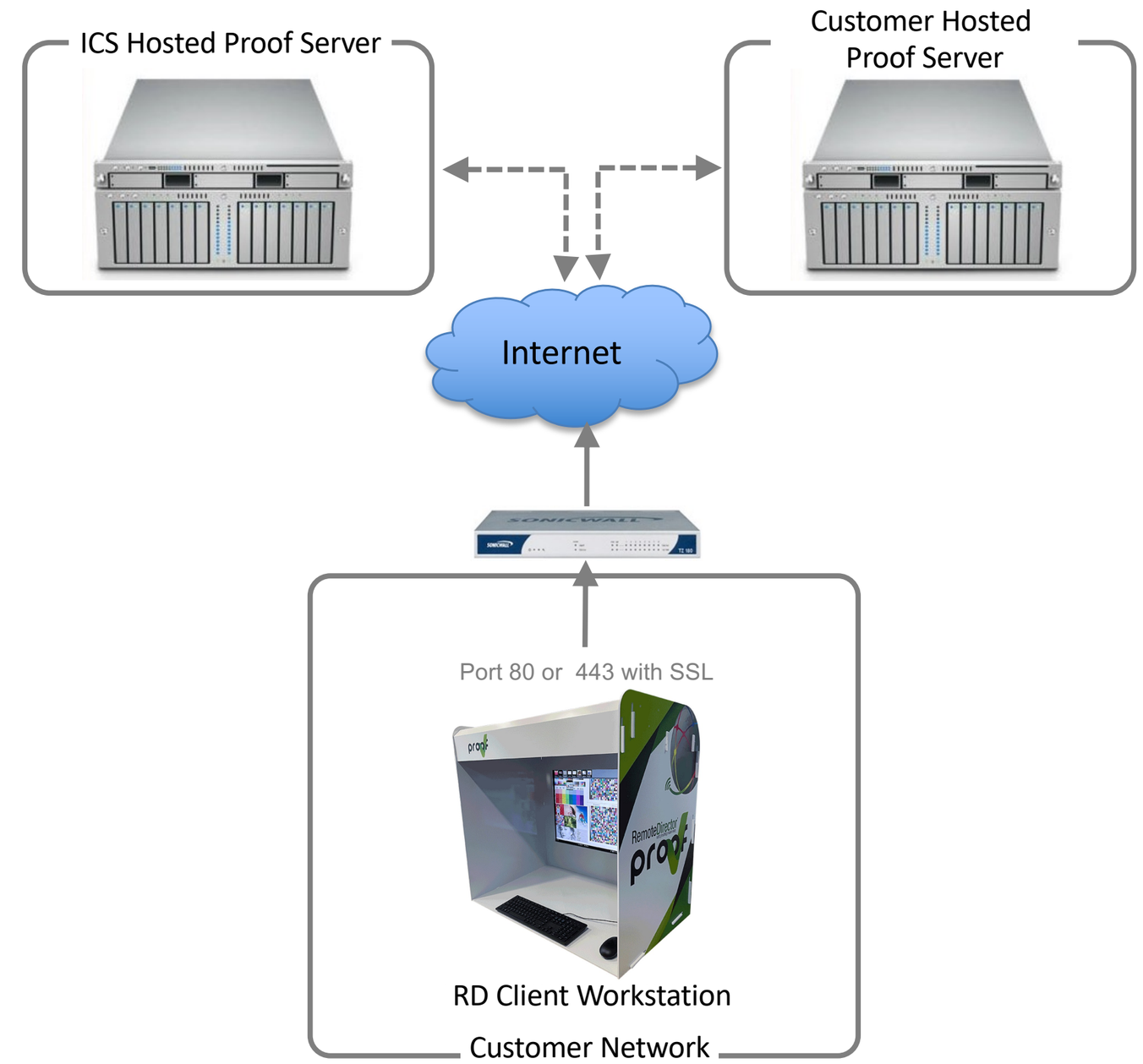
Network Architecture Options



Remote Director Training

Workstation Requirements

Display *

Calibration Device

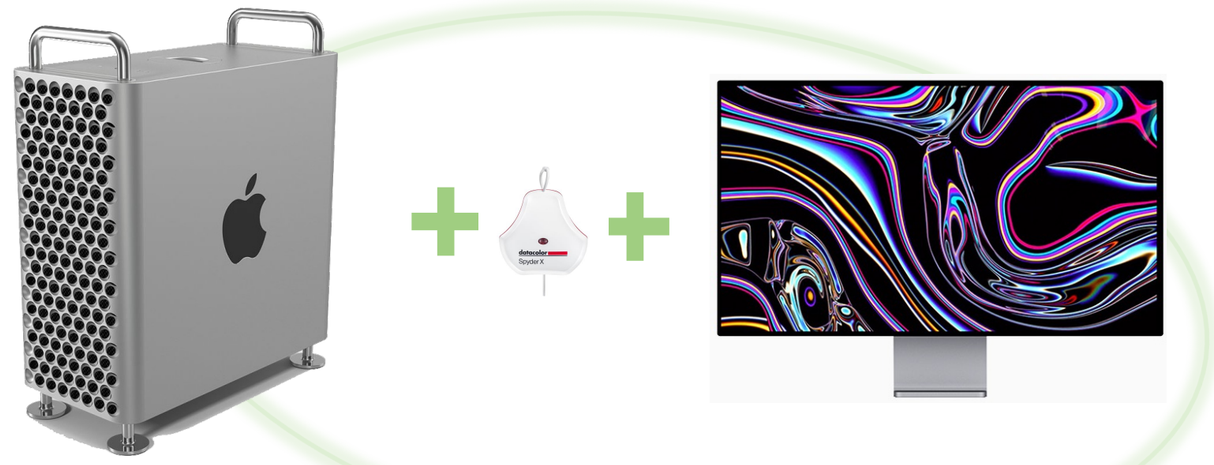
Mac or PC

Internet connection

Remote Director Software

Client Application

Proof Server access



- BenQ, Eizo, NEC are controlled internally through SDK's at full bit depth. Models are listed at:

https://icscolor.com/technical-specs/

Remote Director Training

All in one solution

ProofCheck Turnkey solution.

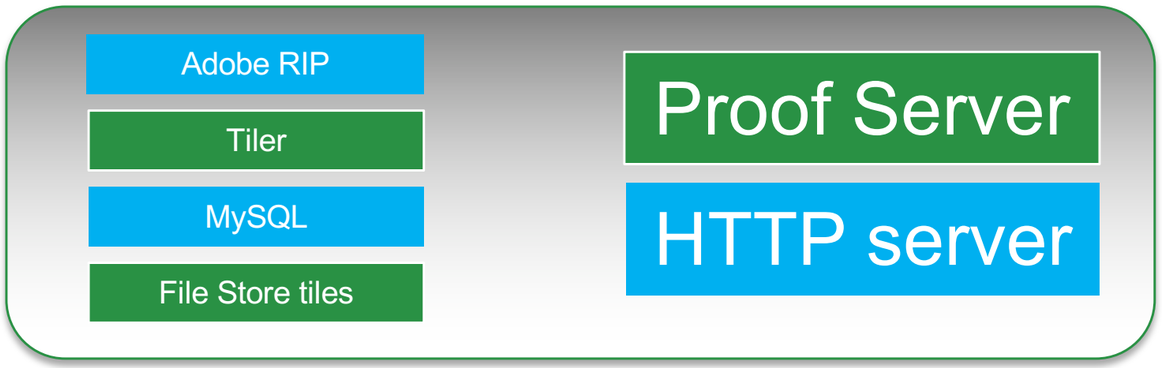
- LED Lighting
- Display
- Calibration Device
- PC
- Remote Director Software

Remote Director Training

Server Technology Stack

Remote Director Proof Server system:

- An HTTP server to drive the ICScolor Proof Server
- Adobe RIP
- ICScolor tiler
- MySQL data base
- File store of image for instant delivery to the viewer for the region of interest at current zoom level.



Legend:

Open Source

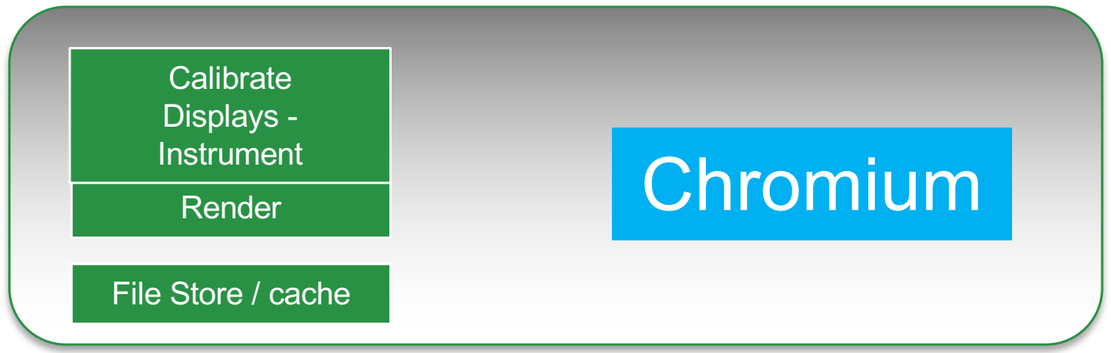
ICScolor

Remote Director Training

Client Technology Stack

Remote Director Client Bundle:

- Custom Chromium browser
- ICScolor's calibration module drives the displays internal LUT at full bit depth, instruments and lighting via manufacturers SDKs
- ICScolor's viewer module renders the color precisely via a unique color path and Spectral Blending Engine
- A file store cache enhances the rendering speeds



Mac OS

Legend:

Open Source

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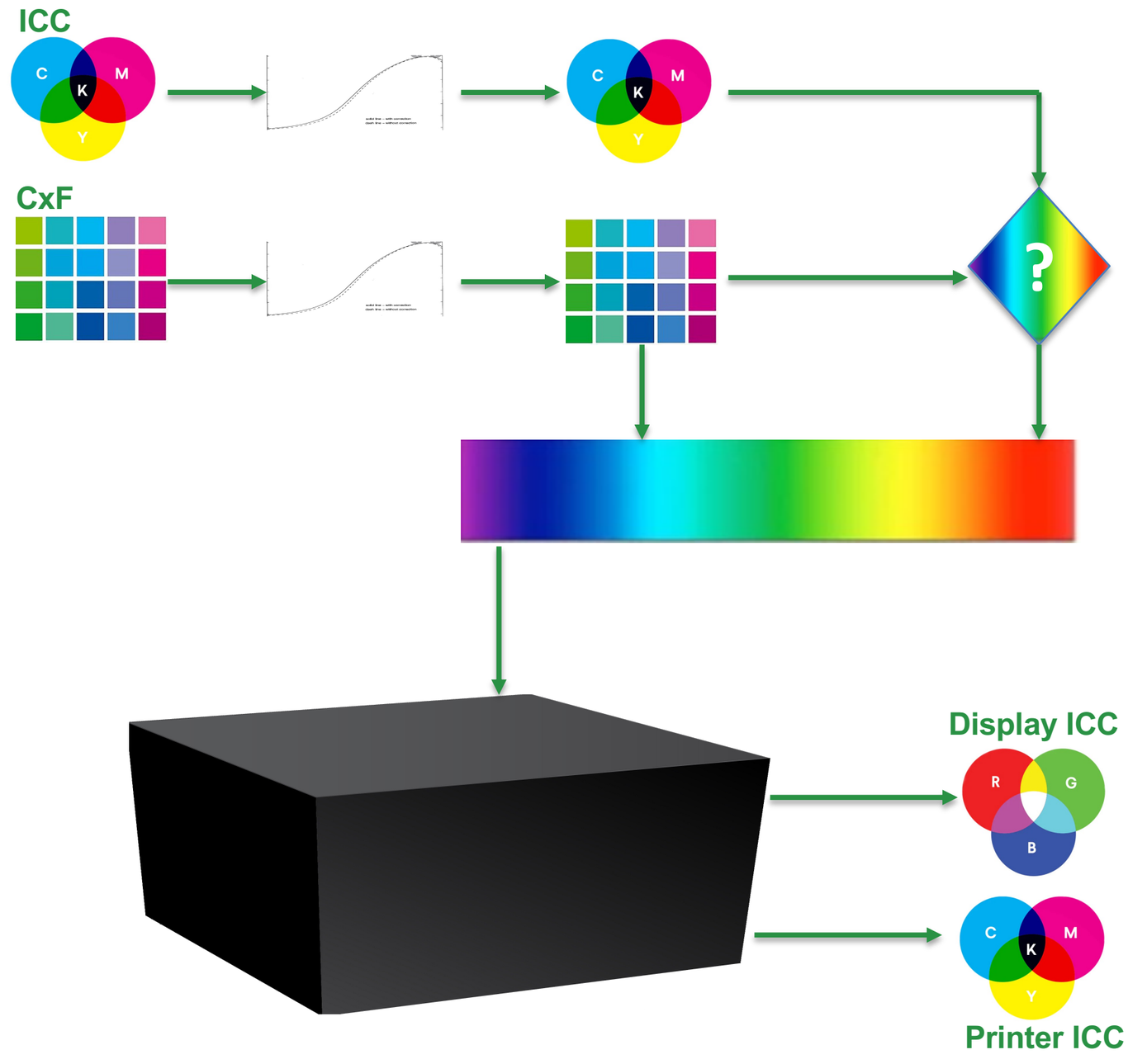
Color Path

- Colors first are transformed by a print condition curve.
- They are then checked for spectral values or converted to spectral values required for blending and rendering.
- Spectral Blending Engine converts spectral values to output color space selection….
  - Display RGB
  - Print RGB
  - Print CMYK



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Environmental Requirements

The Remote Director system creates the same color emitted on every calibrated display, but final appearance of the color is dependent on the viewer's environment that is made up of their hard copy viewing lighting and ambient room lighting. Just as two certified hard copy proofs look different in different lighting conditions, two calibrated monitors in different environments will have some perceived differences.

A Remote Director color viewing station should be in a room with dark shades or blacked out windows and subdued room light that is dimmer than or shielded from the viewing light. Viewing light should be dimmable to match the luminance of the proof. Both GTI and Just Normlitch provide viewing lighting that is made for digital proofing.

The best solution is a ProofCheck workstation - where identical displays and lighting are all controlled by the Remote Director software for all viewers.

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Environmental Requirements

Displays
All displays used in proofing systems must pass the ISO 12646 certification program tolerance for grey balance and white point. These system are capable of accurately displaying graphics used in print production within a wide variety of production environments. The green check that removes the uncalibrated mask in Remote Director assures users that the display passes this requirement.

Luminance Levels
The ISO 12646 guidelines recommend a luminance setting of 160 for systems used in a controlled lighting environment. This is the default in Remote Director. If your ambient lighting is too bright a higher luminance of up to 210 can be used assuming the display is capable.

Room Conditions
Wall Color: Munsell neutral gray paint (N8/P) or equivalent
Room Lightng: D50 color (5000K) with no direct entry of ambient light on the display
Ambient Light (recommended): Should not exceed 10% of the view booth brightness
Ambient Light (maximum): Must not exceed 30% of the view booth brightness

Viewing booth
A variable-intensity monitor-side viewing booth with D50 (5000K) reflective lighting is recommended. Viewing booths specifically designed for monitor proofing applications are available from GTI www.gti-lite.com/soc-proofing.htm, JUST Normlicht www.just-normlicht.de/us/shop/ and ICS's own ProofCheck complete turnkey workstation.

Environmental Requirements

Considerations:

Ambient light in the viewing environment should be controlled to the extent possible so it will not unduly influence perceived color. Overhead lighting should offer dimming to not exceed the recommendations.

A protective hood is recommended to shield the display from ambient light.

The brightness level of the viewing light must be dimmed to match the luminance of the display, as well as the evenness of light distribution within the viewing area itself.

With the wide range of variables, the dimming process is best governed by RD or the lighting manufacturer’s software but can be adjusted by subjective judgment with the eye by comparing a blank sheet of proof paper to the blank white of a calibrated viewer (open a proof and zoom out to show paper white).

All non-soft-proofing viewing booths exhibit some lighting unevenness, usually appearing brighter as it nears the light source. This unevenness is typically worse in smaller booths and can significantly affect the apparent match between a soft proof and a hard-copy. Viewing booths that are made for digital color proofing have lighting baffled or sent from two or more directions to eliminate this problem.

Check the viewing booth for evenness and decide the best position in which to place the reference copy.

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Server Machine Requirements

Windows operating systems on any machine or a properly configured virtual server (VM).
Windows – 7,8,10 Windows Server – 2008, 2008 R2, 2012, 2012 R2, 2016, 2019, 2022

64 Bit Intel® compatible processor
Installation of .NET Framework version 4.5 or higher

32GB RAM with 500GB available hard-disk space (more is better)

1.5 Mb/s or better network connection

The server installs Apache, Tomcat and MySQL which are not compatible with Microsoft Internet Information Services (IIS)

Proof Server requires inbound port 80 or port 443.

If HTTPS is used, a security certificate (SSL cert) is required.

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Requirements

IT REQUIREMENTS
Internet access
Team Viewer installed for ICScolor support access including software installation if requested

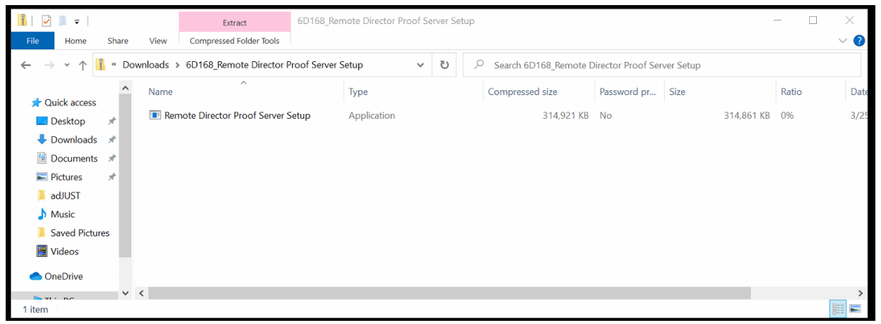
ADMINISTRATOR REQUIREMENTS
Contact name, email and phone number.
Machine administrator's email address and password
The machine's IP or Domain Name address (should be addressable from outside the LAN)
Your SMPT (outgoing) email credentials, username and password

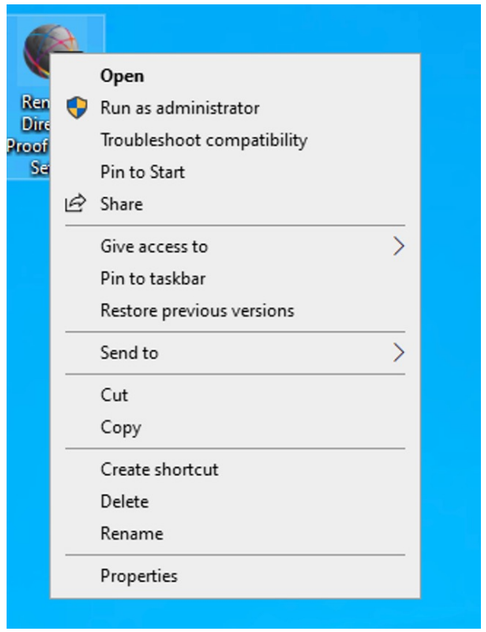
Remote Director Training

Installation

ICScolor will provide you a link to download the installer.

Drag the installer from the “Downloads/ Remote Director….” folder to the desktop and right click to “run as Adminstrator”

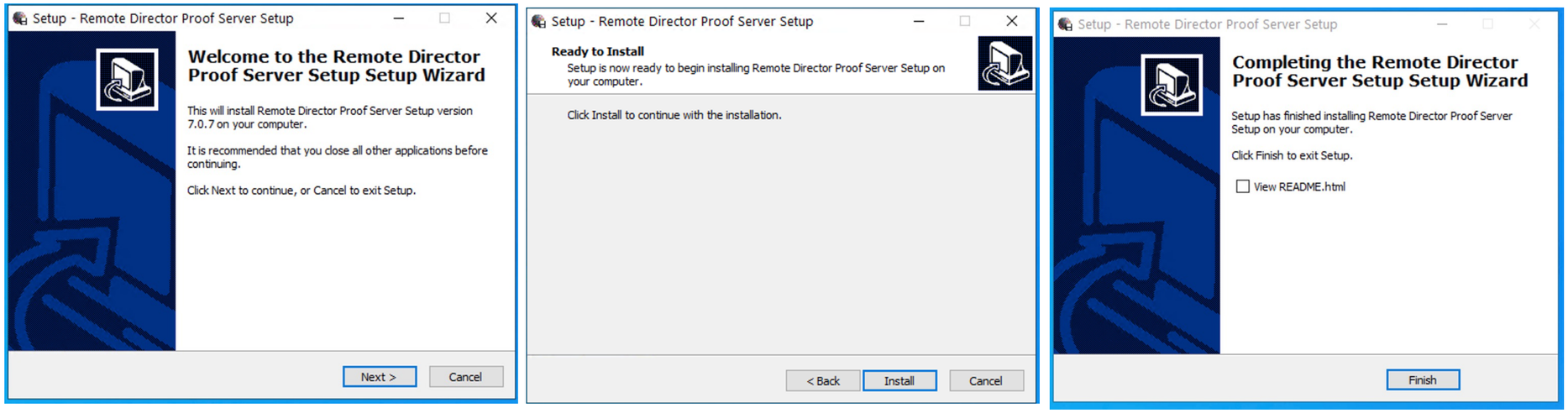




Remote Director Training

Installation

Follow the installer's prompts to install the server software. *Note! Some steps seem to take some time. Please be patient.*

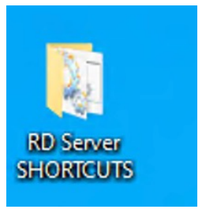


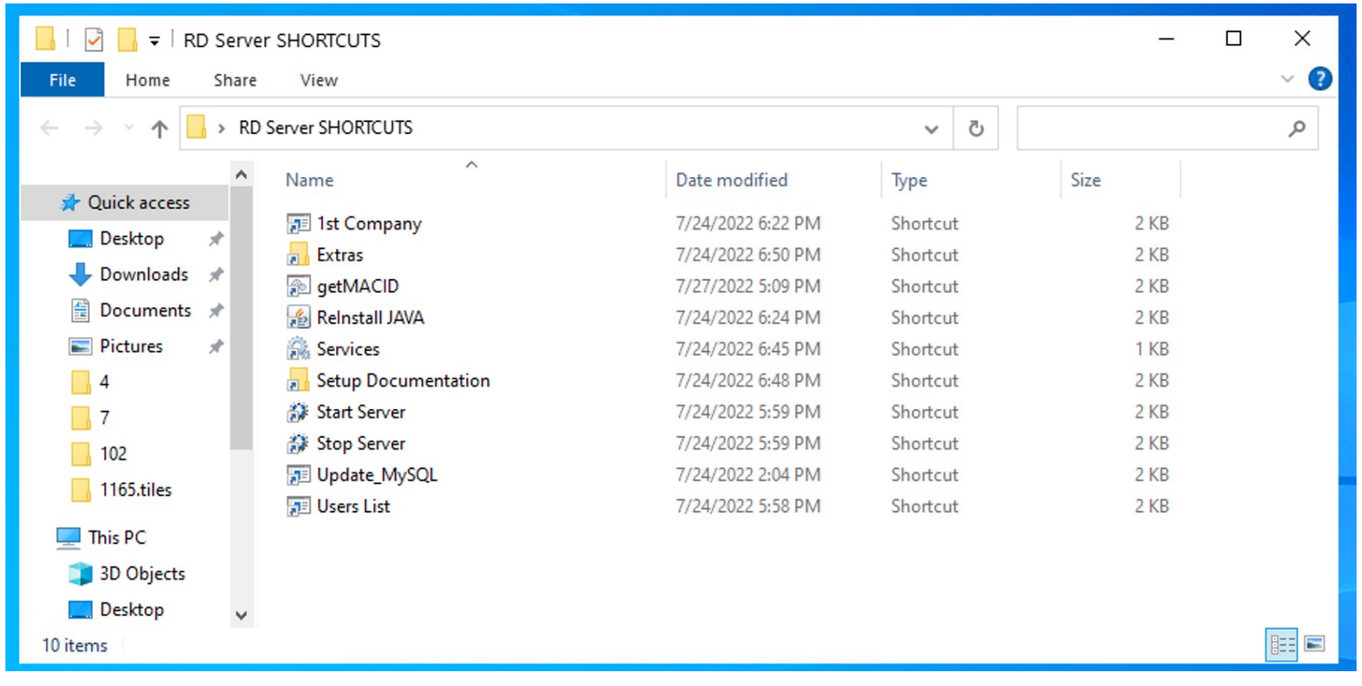
- You will be asked to enter your companies name as the default company.
- If prompted on your machine, there is no need to restart the server.
- When complete you will find the "RD Server SHORTCUTS" folder on the desktop. This is for supporting the server if required.

Remote Director Training

Installation

RD Server SHORTCUTS provides access to tools and utility applications used to service the server. It should only be used by or in conjunction with ICScolor support. This completes the server installation, licensing and administration of the server is done from a Remote Director client application that can access this server.





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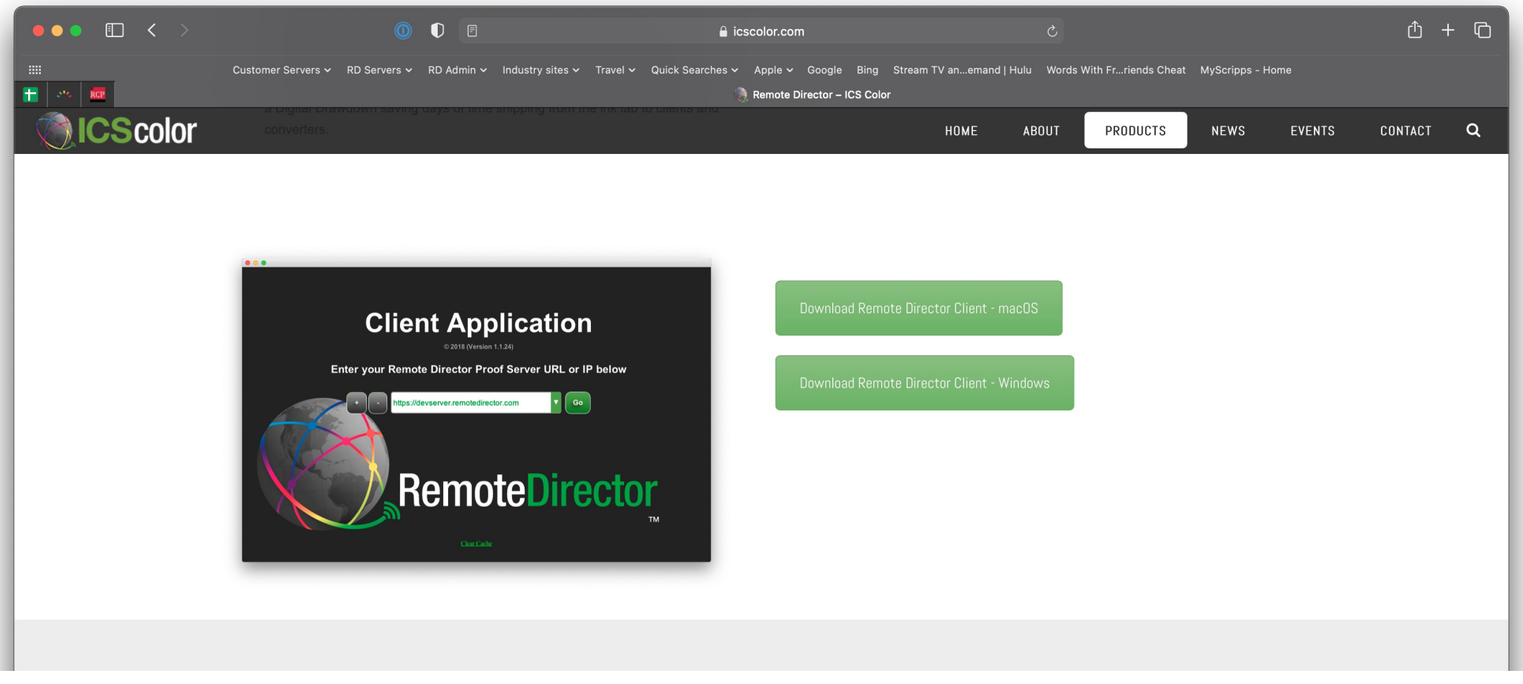
Application Installation

The installers can be found on our web site at: https://icscolor.com/remote-director/ Scroll down to select the installer for your platform.



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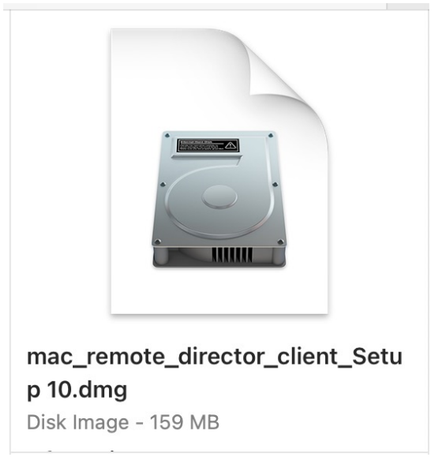
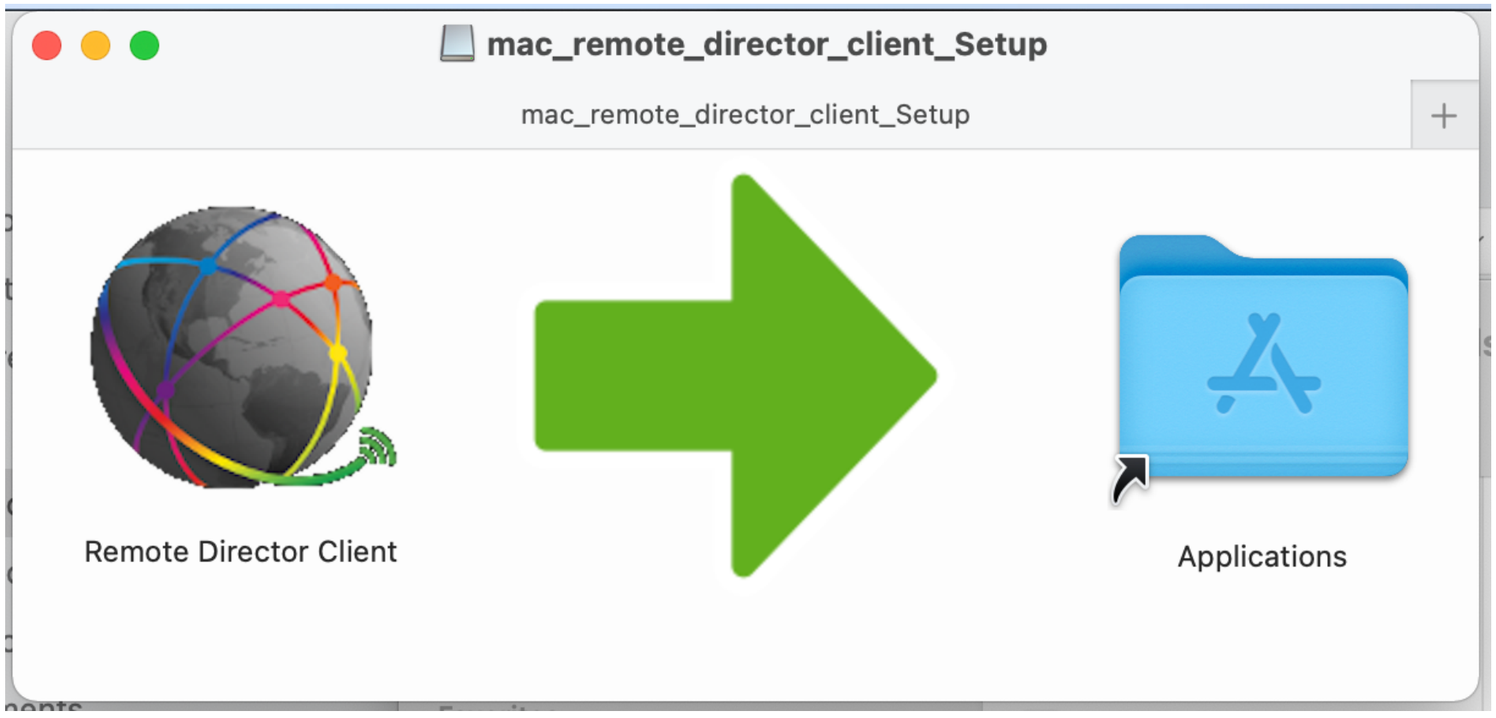
Application Installation Macintosh

The download is a DMG (Disk Image). Double click to launch and drag the Application Icon to your Applications Folder Icon inside the window. Then eject the DMG.





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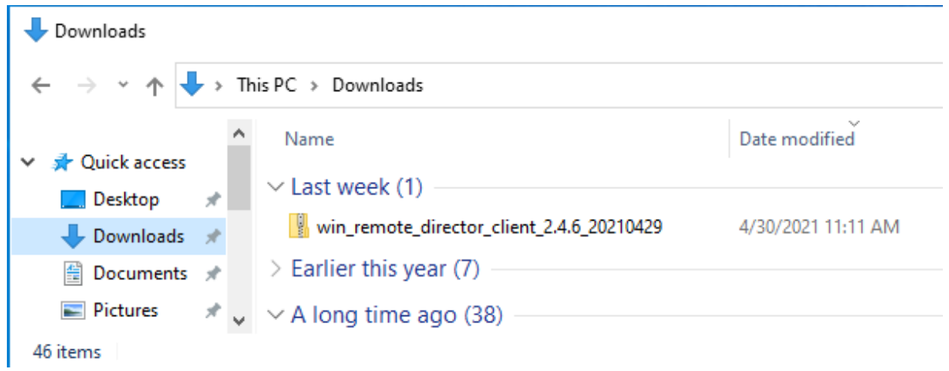
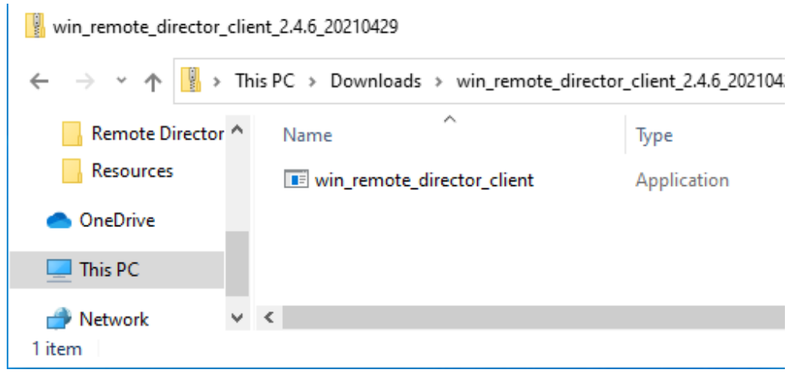
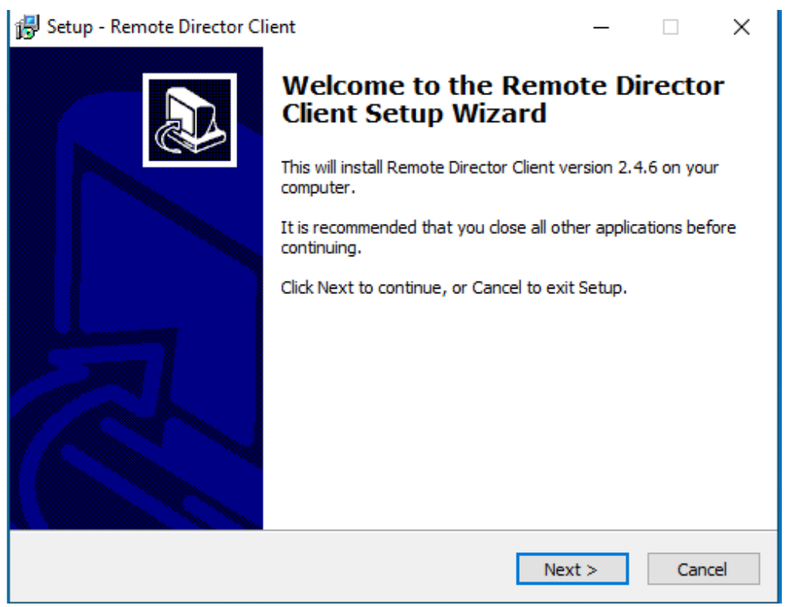
Application Installation Windows

The download is a zipped installer. Open, then double click and allow the installer to run.







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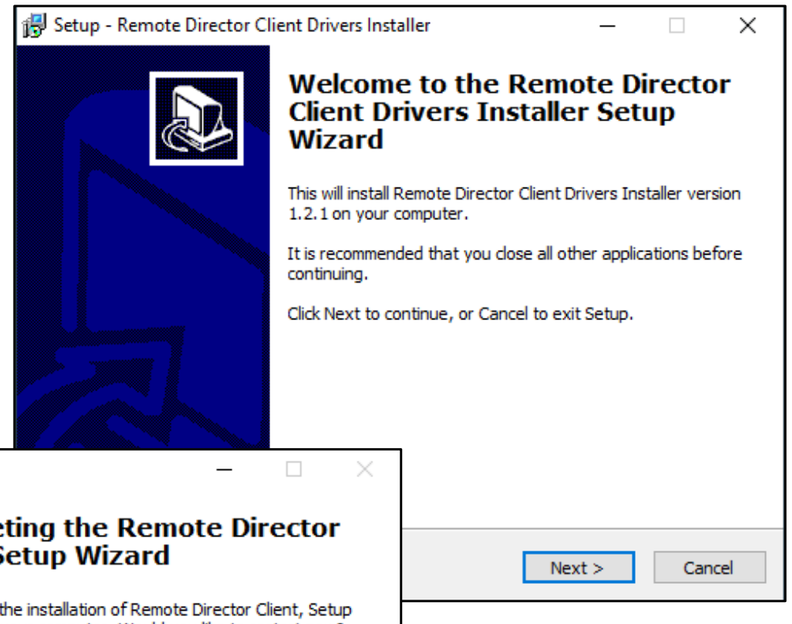
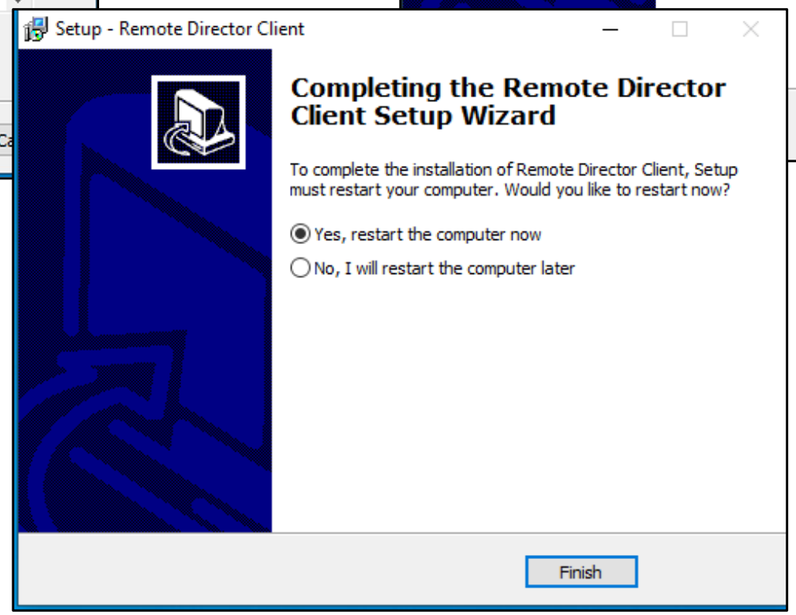
Application Installation Windows

Agree to the terms and run the installer. Be sure to agree to the additional questions in order to install the instrument drivers. Then finish and reboot.





Remote Director Training

Launching the Application

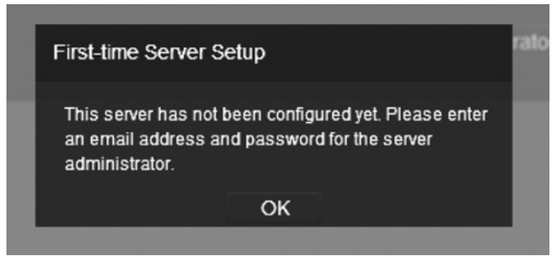
The splash screen will allow you to enter the IP address or the domain name of the server. The green right arrow will open the server.

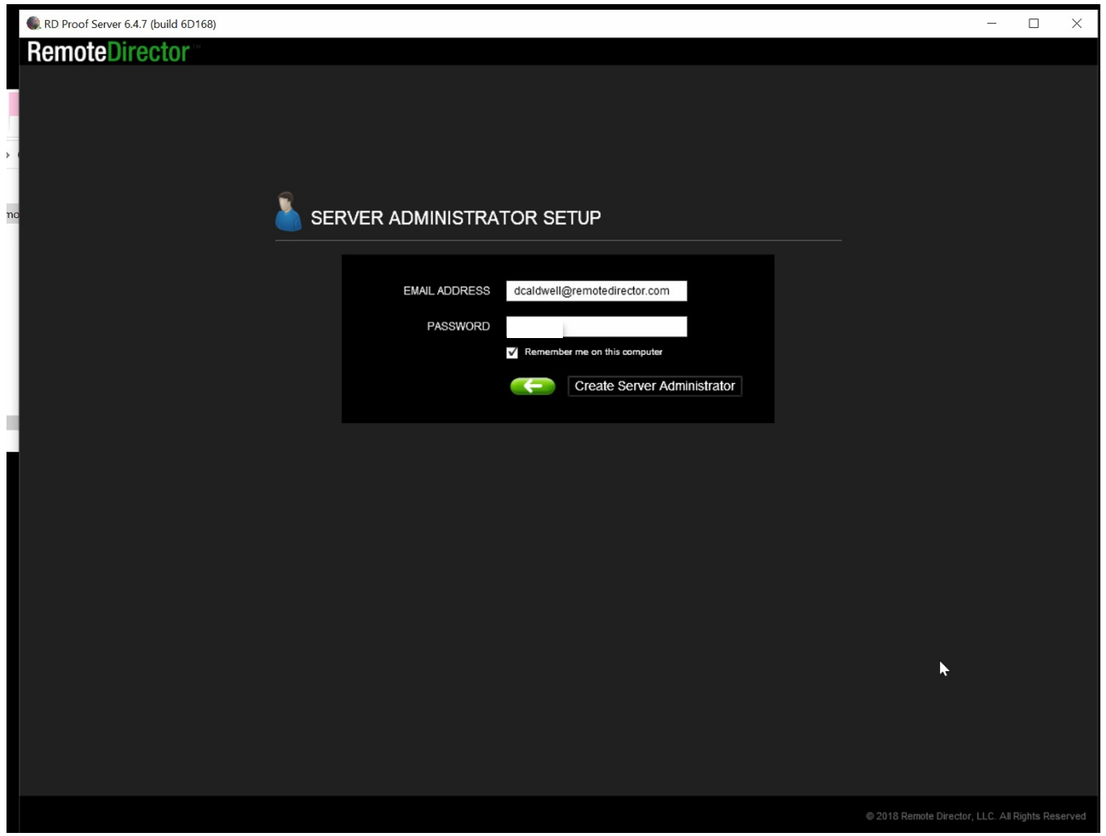
Note, if you need to access additional proof servers, the + button will allow you to enter other server's URLs that will remain in the drop-down list until deleted. The branding logo on the splash screen may change for each proof server's address. To enter to the home screen of the server, click the arrow to the right of the URL.

Remote Director Training

Installation

First-time Server Setup. “OK” will prompt you to enter the server administrator’s email address and set their password (case sensitive). The “Create Server Adminstrator” will register the administrator and open the server admin page.

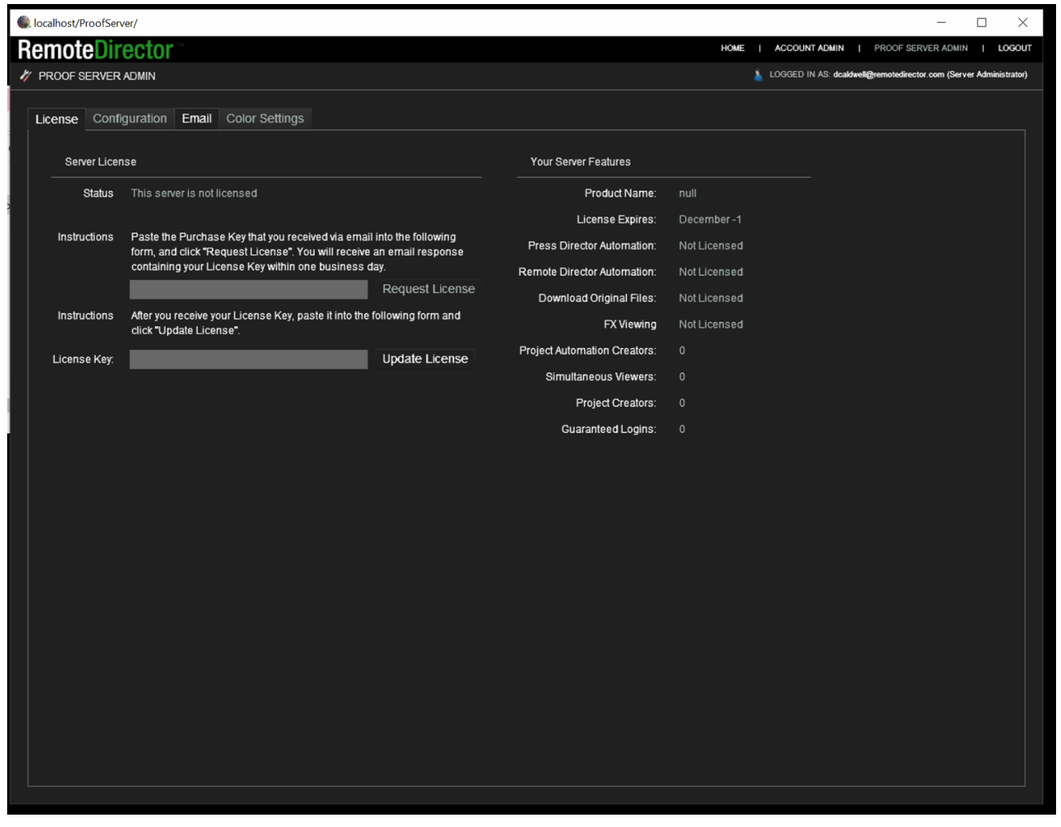




Remote Director Training

Configuration of URL, Email and license

The only two tabs available are license and email configuration. Select the Email tab first.



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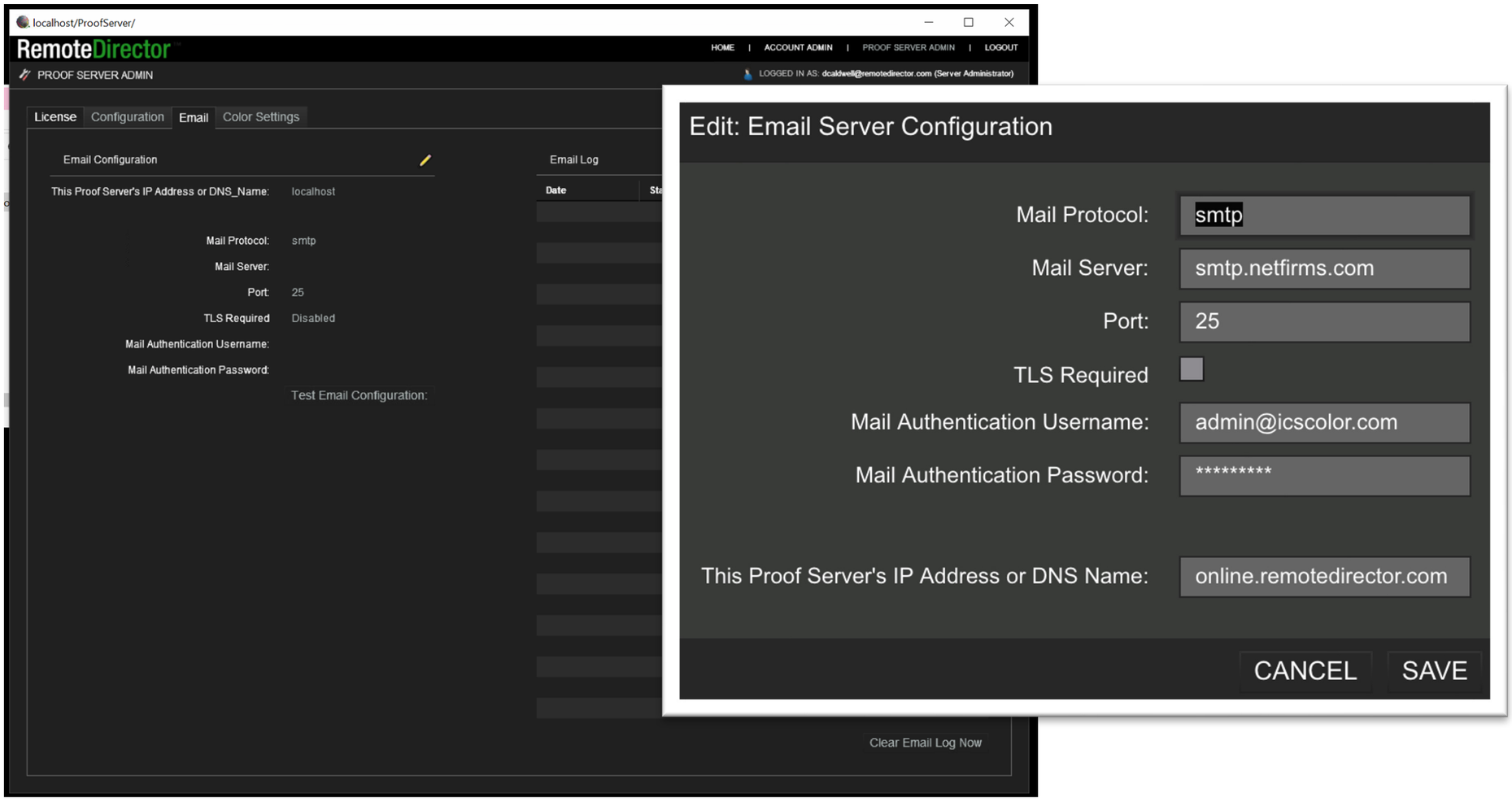
Configuration of URL, Email

Select the Pencil icon to add your settings. Your company's email SMTP settings need to be entered here along with the IP address (Machine URL) so the server can send a licensing request to ICScolor. MS Exchange example on following page.



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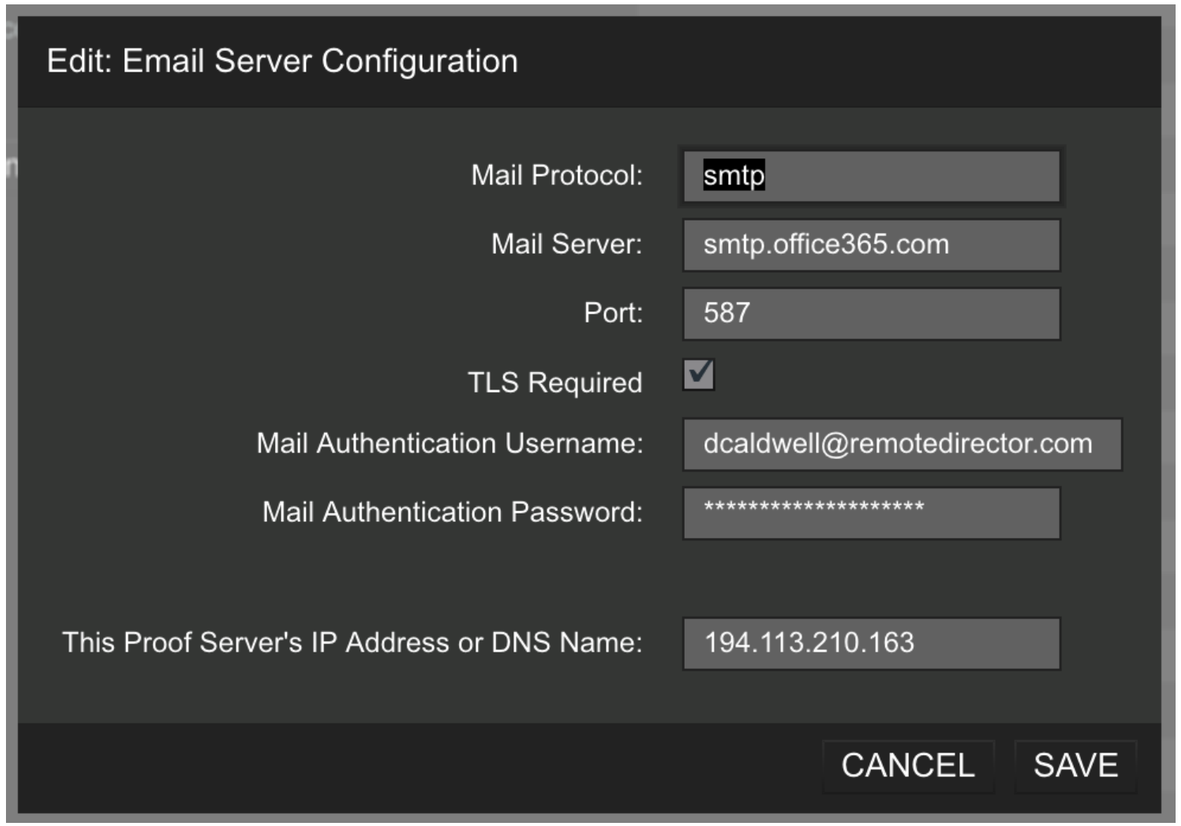
Configuration of URL, Email

MS Exchange settings:



Gmail users may find this link useful for getting the proper SMTP settings:
https://clean.email/blog/email-settings/gmail-email-settings

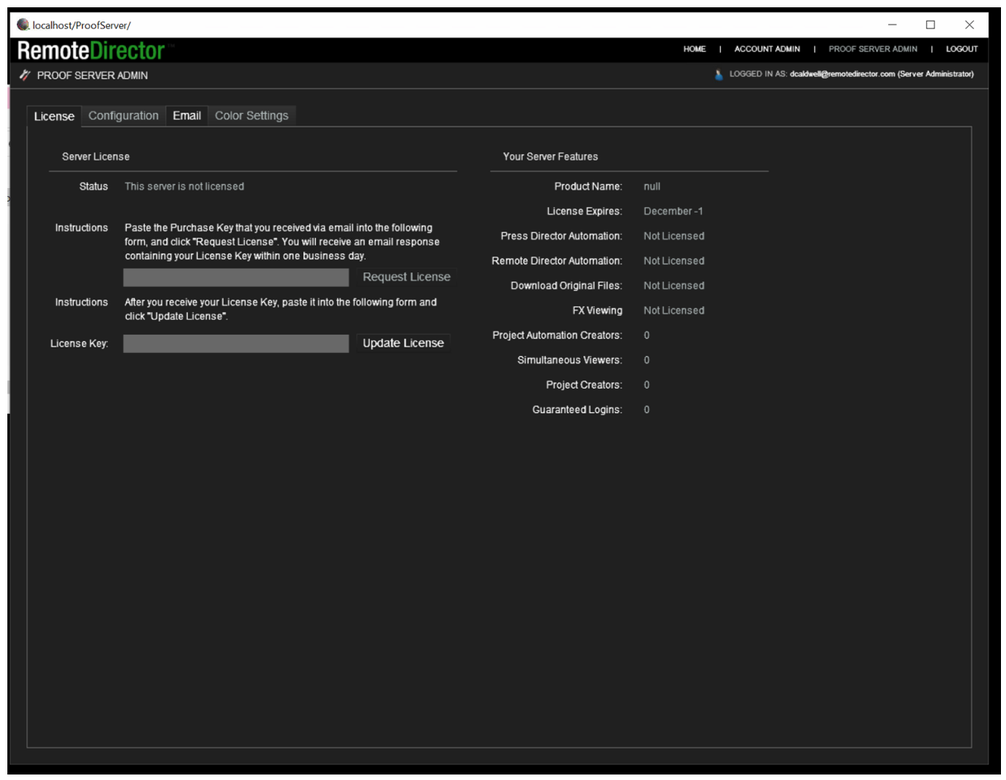
Remote Director Training

Licensing the server

Select the license tab. Email **must** be configured before license request so the server can send the licensing request to ICScolor. Enter your company to identify who is sending the request.

Note: Manual licensing without email can be done by contacting ICS support and providing Team Viewer access to the server.

A license key to paste in will be sent back by ICScolor.



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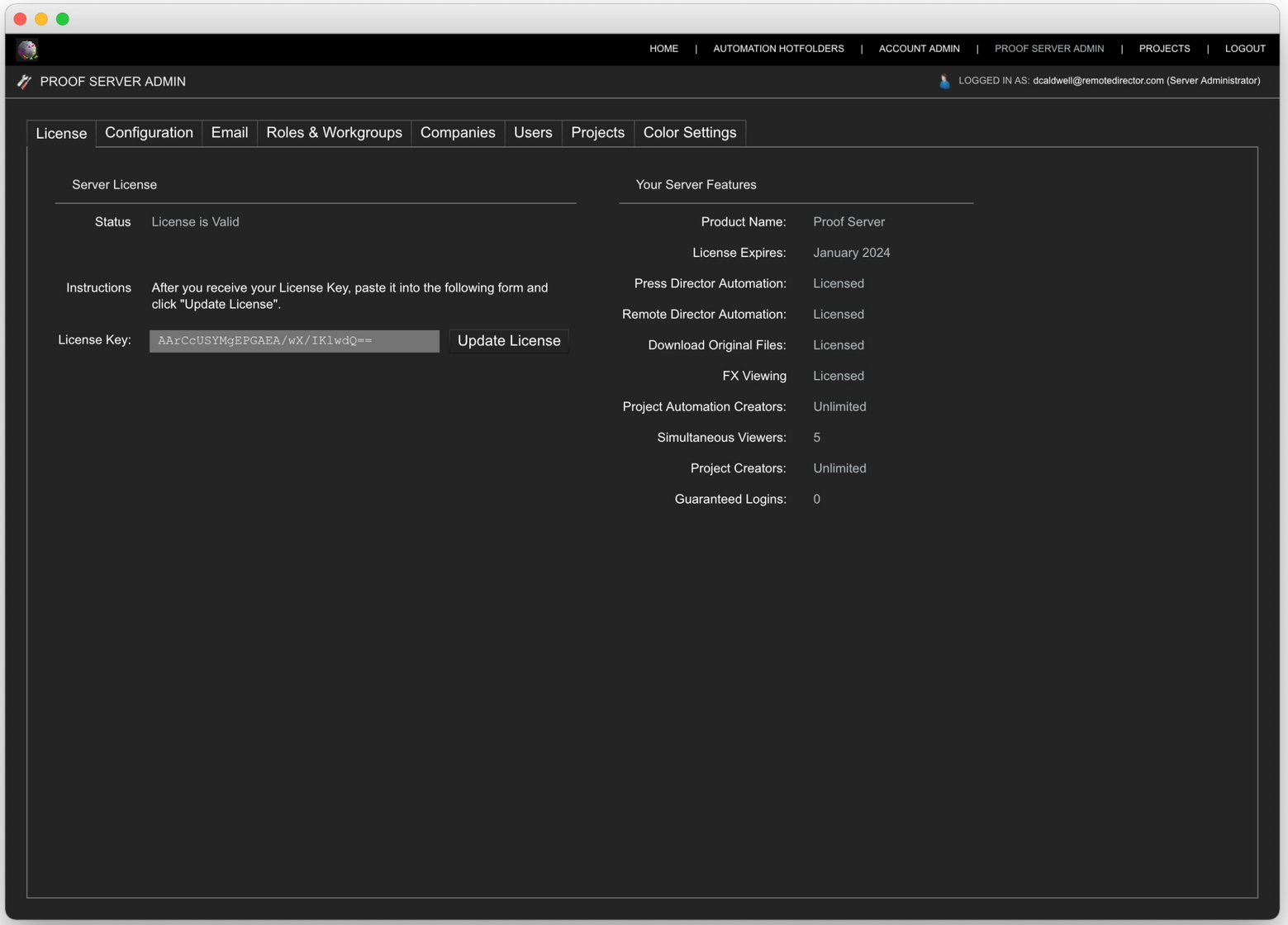
▶ Server Administration

The license tab is used to check the status of your license and configuration features purchased.



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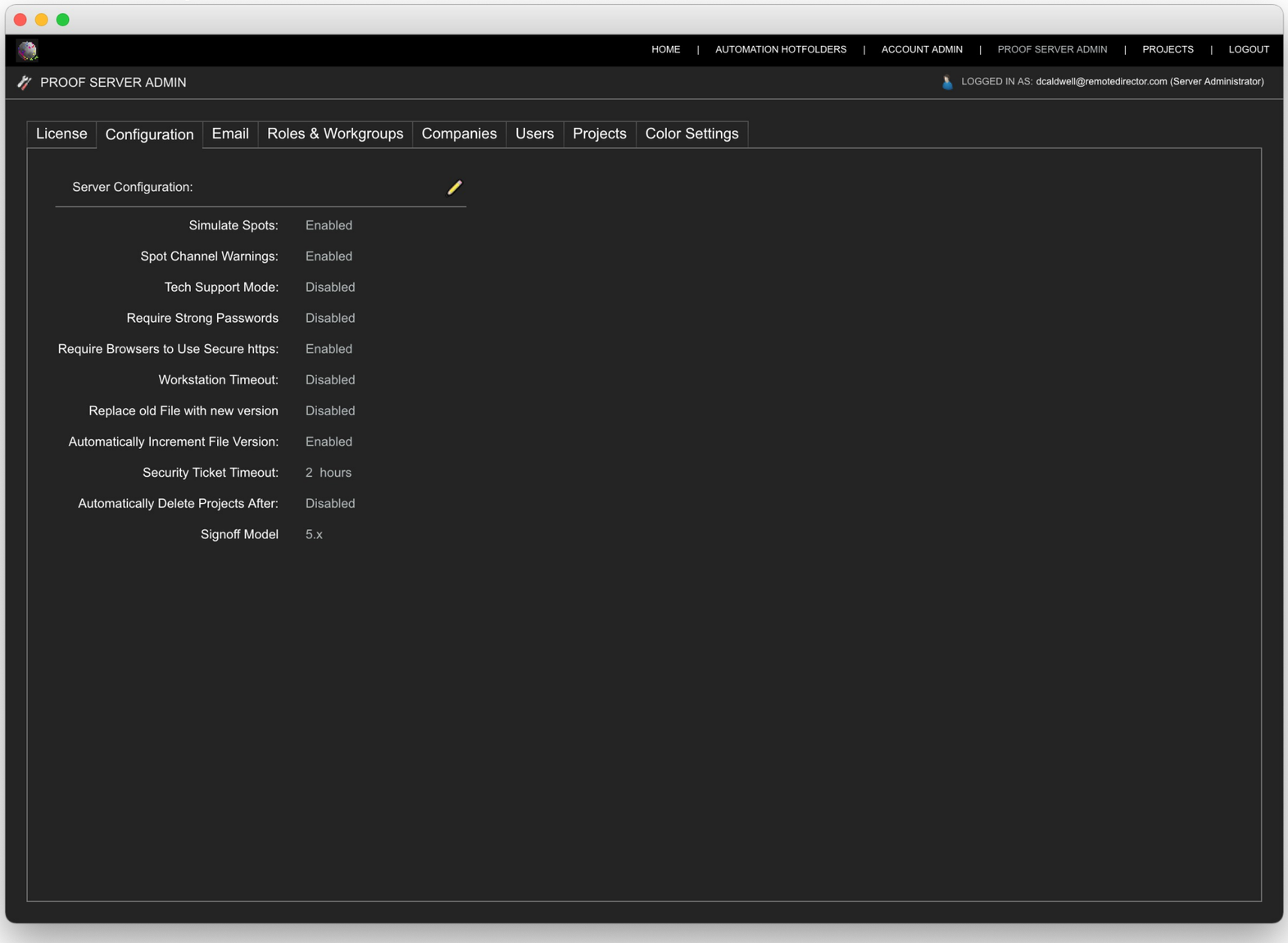
▶ Server Administration

The configuration tab is used set the general configurations of your Proof Server. The pencil icon opens the edit option list.



Remote Director Training

▶ Server Administration

The configuration tab is used to set the general configurations of your Proof Server. The pencil icon opens the edit option list and a checkmark enables the function.

From top to bottom:

Simulate Spots: Allows RD to simulate spot colors based on the LAB values from within a PDF. With this deselected, the spot channel will be blank until a spectral value is assigned.

Spot Channel Warnings: Flags any channel that is simulated and not rendered with a spectral value.

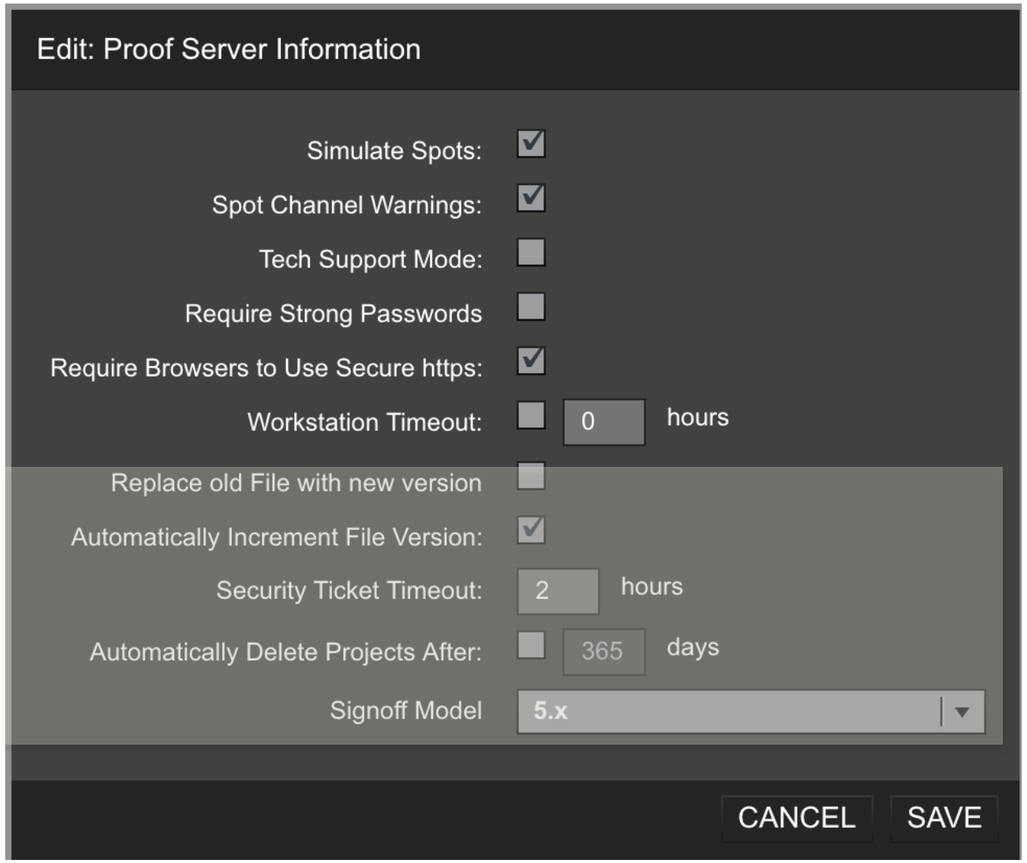
Tech Support Mode: Creates logs on on server activity. RD Support may ask for this to be enabled to collect logs for troubleshooting.

Require Strong Passwords: Requires a number and a symbol in the password.

Require Secure https: Honors a servers SSL certificate and requires https:// in the URL address of the server.

Workstation Timeout: Defines the time a user login will remain connected without mouse or keyboard input.

…..



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▶ Server Administration

The configuration tab is used to set the general configurations of your Proof Server. The pencil icon opens the edit option list and a checkmark enables the function.

....

Replace old file with new version: When adding a file with the same name, this selection will overwrite the existing file.

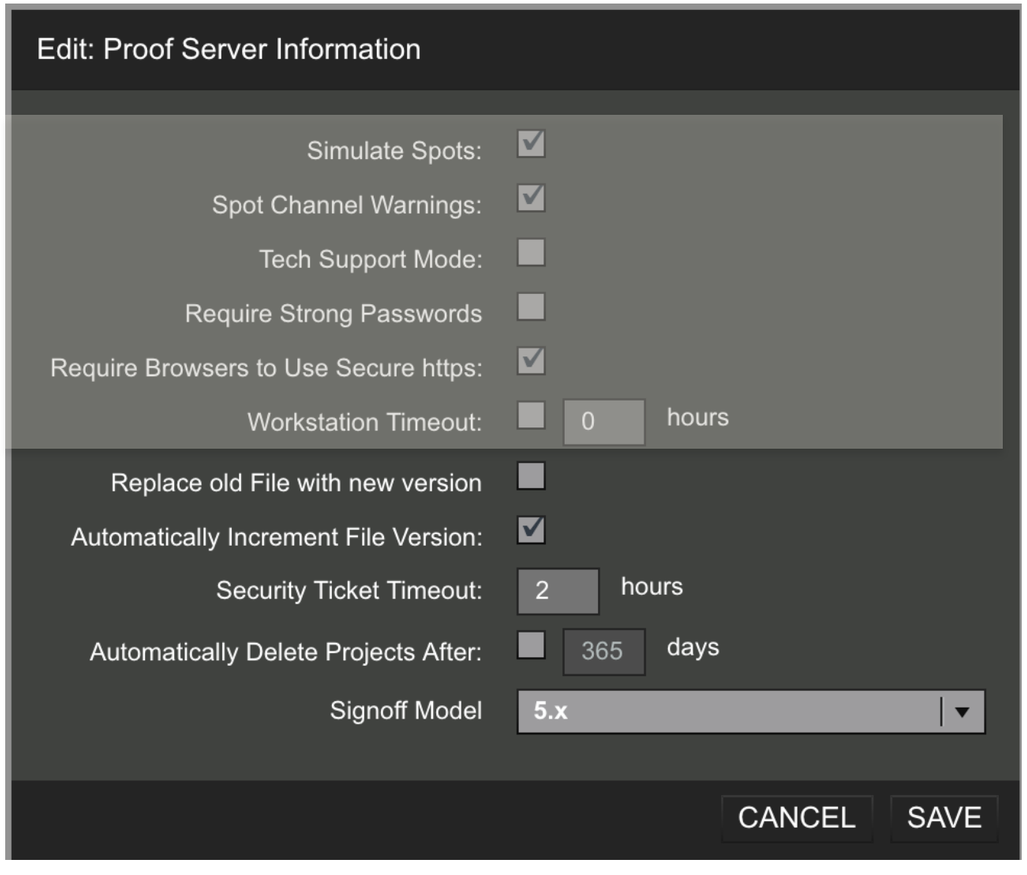
Automatically Increment file version: Appends a version number to a file added with the same name.

Security ticket time out: Defines the time a user can be connected before needing to logout and reconnect.

Automatically delete Projects: Sets number of days before projects (folders) will be deleted automatically.

Signoff Model: 6.2 = Approve, Reject and the yellow icon to show file activity is not changed till annotation or signoff is submitted by a user.

5.x = Adds “Ok with changes” to sign off options and shows activity icon change when a file opened by any user.



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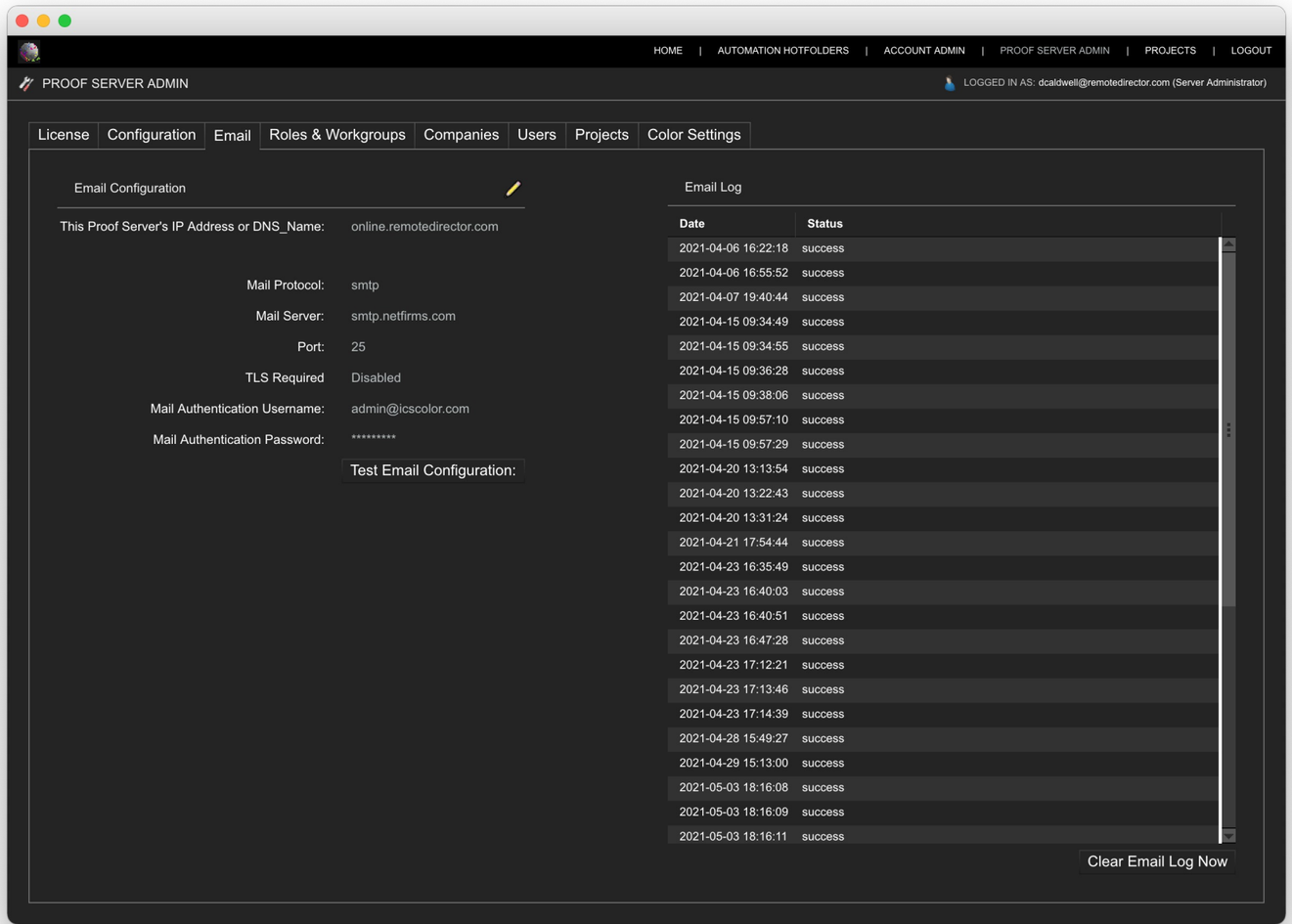
Server Administration Email

The email tab (previously set up) also provides a log to alert you if a mail fails.



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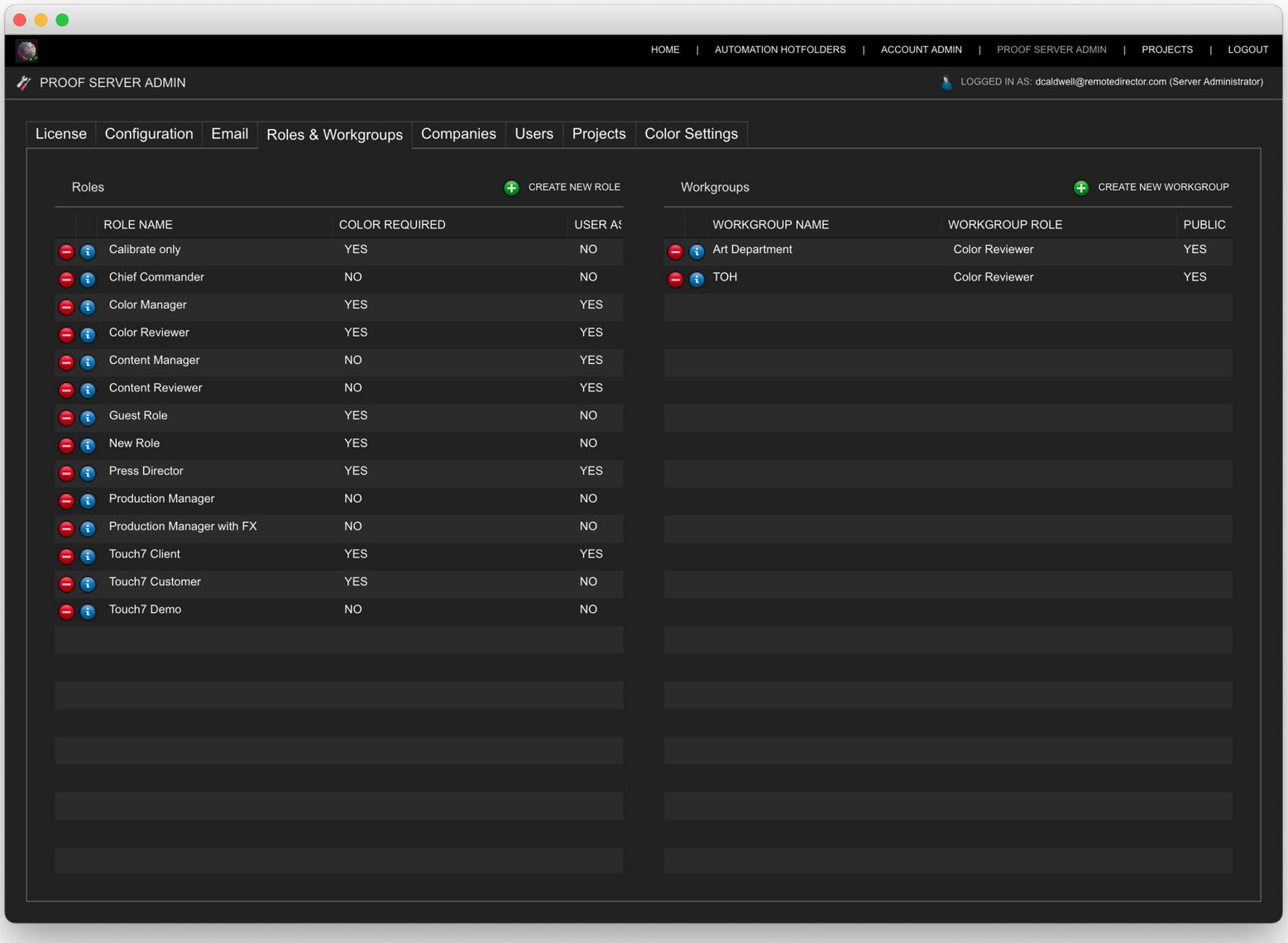
▶ Server Administration Roles and Workgroups

The roles and workgroup tab is used to add custom roles, permissions and workgroups as needed.



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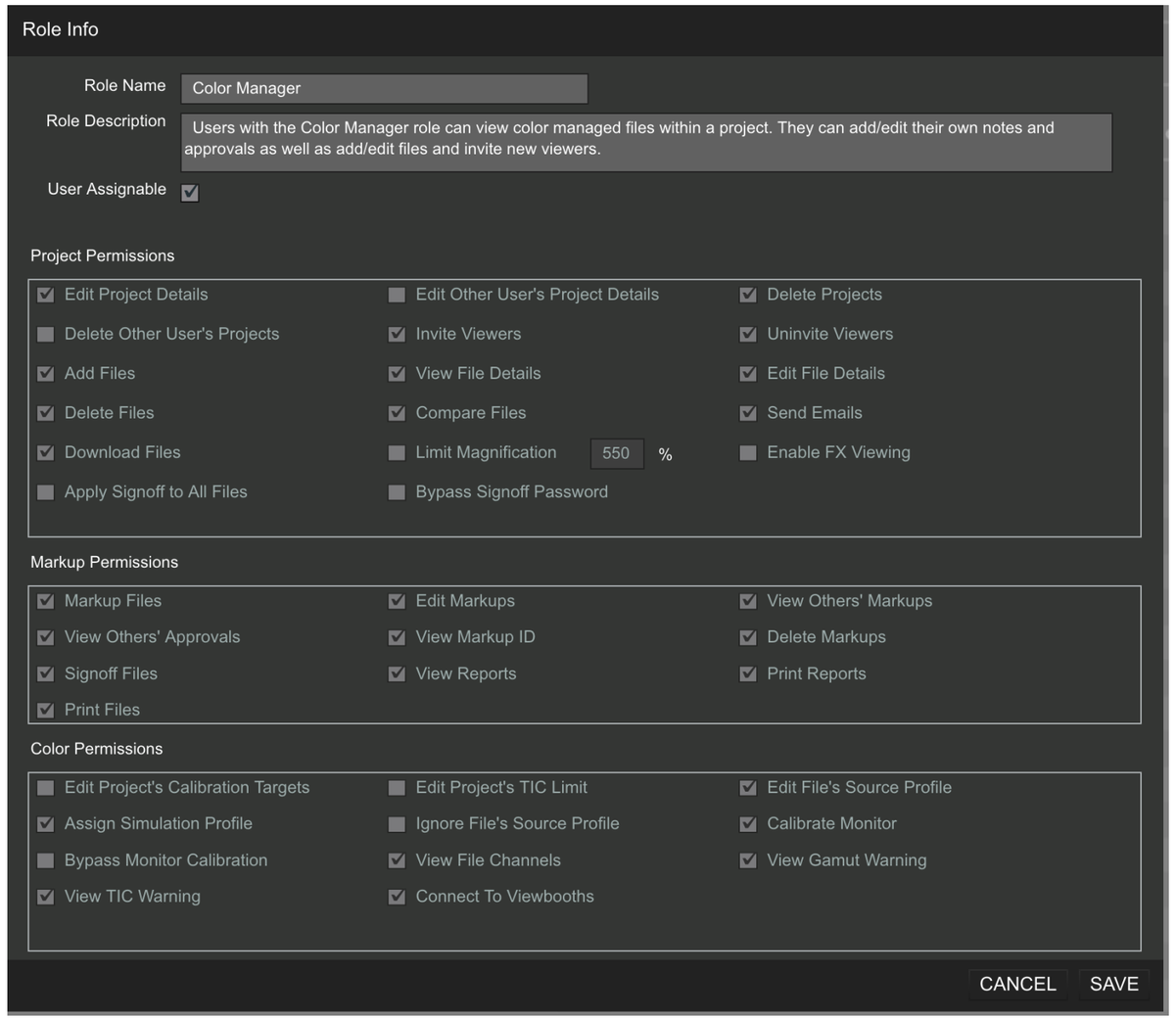
▶ Server Administration Default Roles

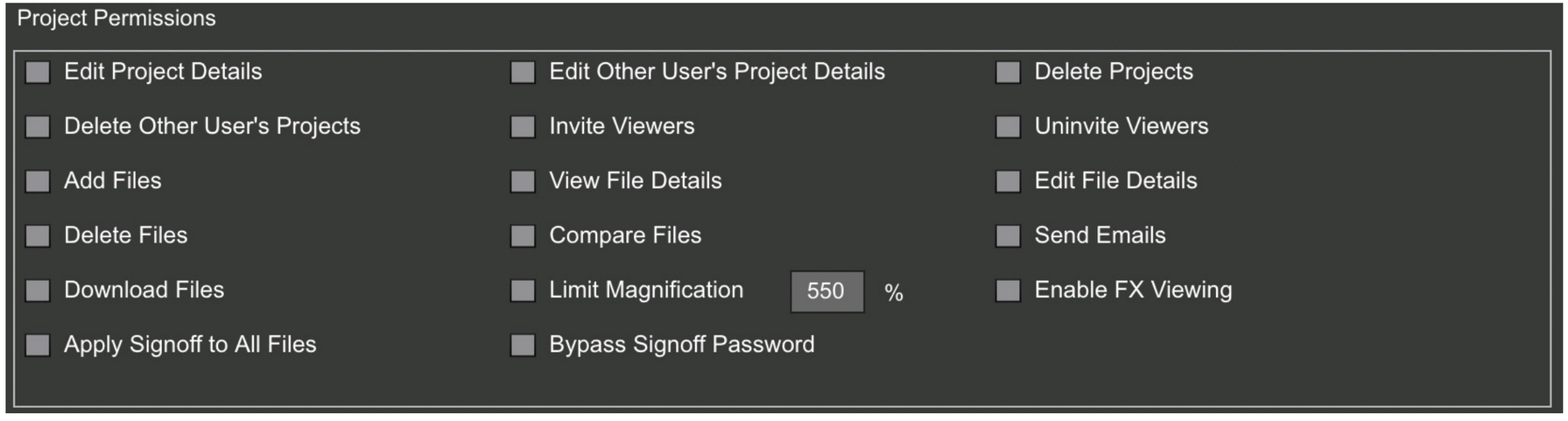
A default role cannot be deleted. Selecting the blue ”i” next to a default role exposes the settings/permissions ICScolor used to create that role. This screen shot can be handy when setting up a variation of the role that can be done by clicking the green “+” and entering the values.



Remote Director Training

▶ Project Permissions

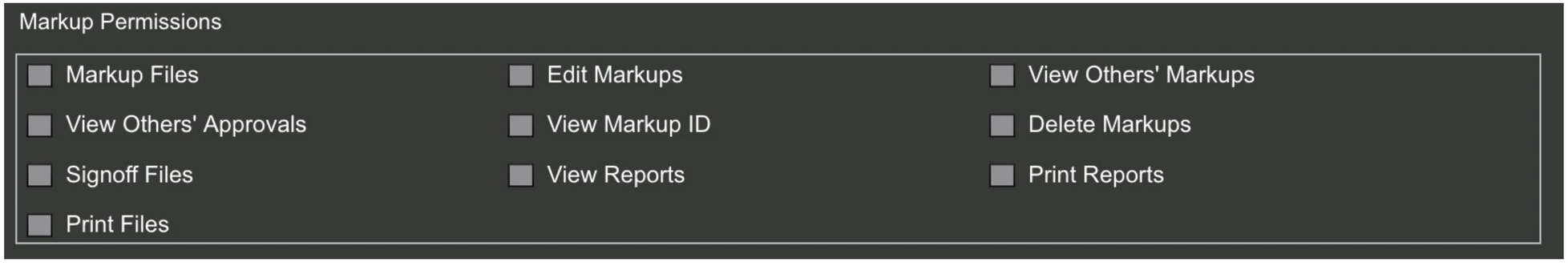
- ❑ Edit Project Details: Reset your project settings after it's created
- ❑ Delete other User's Project: Can delete projects created by other users
- ❑ Add Files: Can upload files to any project
- ❑ Delete Files: Can Delete files from any project
- ❑ Download Files: Can download and print
- ❑ Apply sign off to all files: Signing any file will sign all files in the project
- ❑ Edit Other Users Project Details: Reset others project settings after they are created
- ❑ Invite viewers: Can invite others
- ❑ View File Details: greys out (hides) the get-info "I" on the file in the proof list
- ❑ Compare Files: Allows users access to the comparison tool
- ❑ Limit Magnification : Limits (or increases) the default range of the zoom tool
- ❑ Bypass Signoff password: Eliminates the need to enter password when signing off status
- ❑ Delete Projects: Can delete your projects
- ❑ Uninvite viewers: Remove viewers who were invited.
- ❑ Edit file details: Reassign profiles.
- ❑ Send Emails: Allows user to send emails
- ❑ Enable FX Viewing: Adds FX tool to the tool bar



Remote Director Training

Markup Permissions

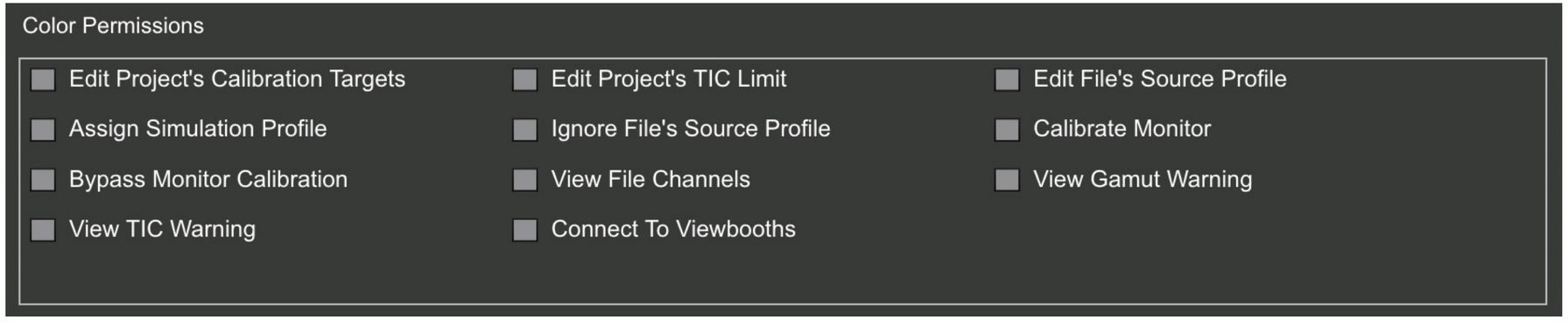
- Markup Files: Add annotations
- View Others' Approvals: Can see all signoffs
- Sign Off Files: Can signoff file
- Print Files: Can print
- Edit Markups: Can edit markup
- View Markup ID: Can see unique ID associated with an annotation
- View Reports: Can see annotation report
- View Others' Markup: Can view others' markups
- Delete Markups: Can delete markups
- Print Reports: Can print reports



Remote Director Training

Color Permissions

- ❑ Edit Projects Calibration Targets: Resets the calibration settings for a project
- ❑ Assign Simulation Profile: Can assign a simulation profile
- ❑ Bypass Monitor Calibration: Eliminates the uncalibrated mask over the image when the display is not calibrated
- ❑ View TIC Warning: Enables the user to see areas of the image that exceed the projects Total Ink Coverage setting
- ❑ Edit Projects TIC Limits: Enables resetting of the projects Total Ink Coverage setting
- ❑ Ignore Files Source Profile: Forces default profile to be used
- ❑ View File Channels: Allows the user to switch channels on and off
- ❑ Connect to Viewbooths: Enables connectivity to lighting so RD can set proper luminance
- ❑ Edit Files Source Profile: Allows editing of source profile
- ❑ Calibrate Monitor: Allows user to calibrate monitor
- ❑ View Gamut Warning: Enables user to see areas of the image that are out of gamut on the monitor

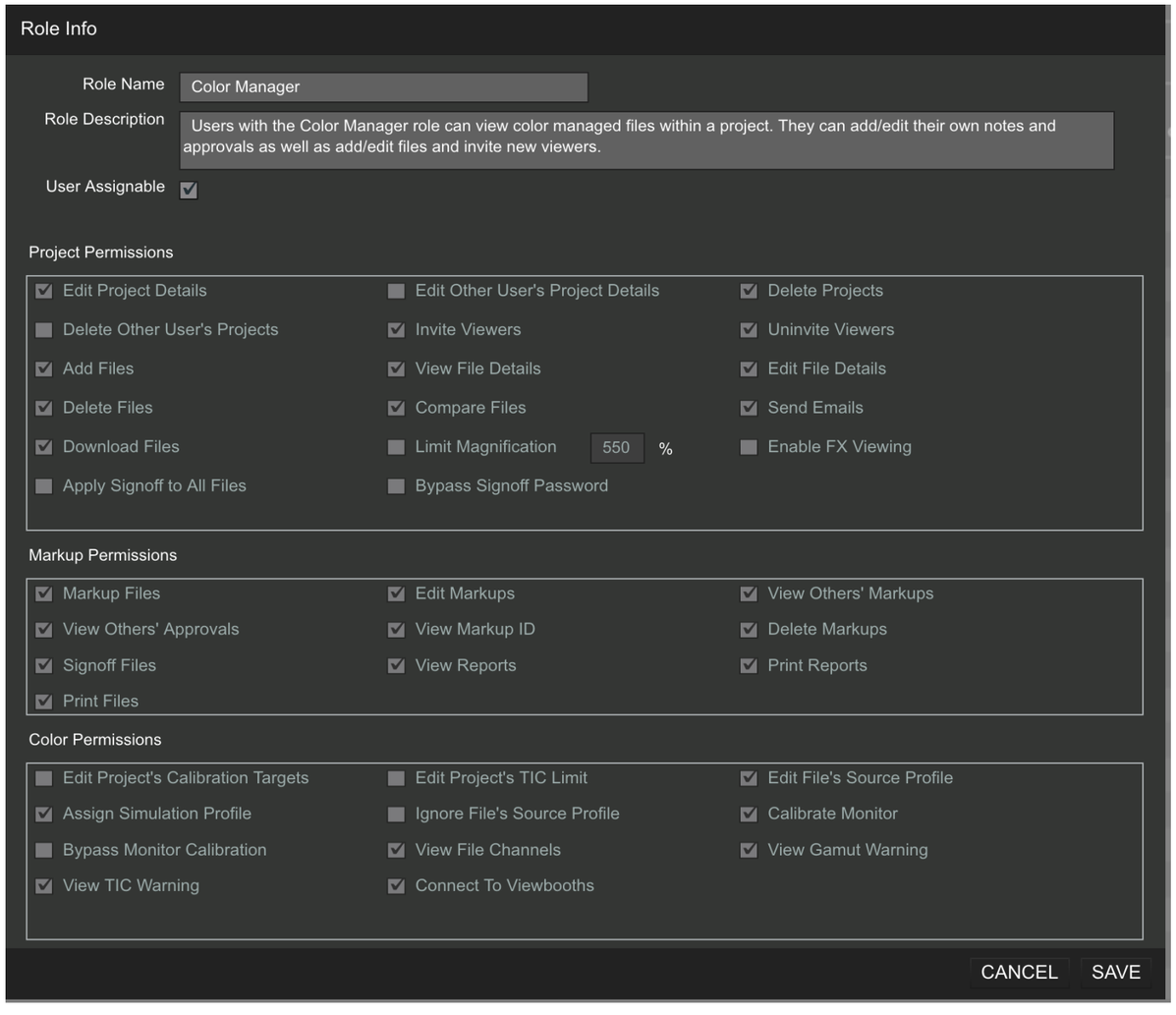


Remote Director Training

Server Administration Custom Roles

After your selections for Project, Markup, and Color permissions, name your role and save it to add it as a custom role. User assignable, will enable all users to assign this role.

Note: you have to log out and back in to see a new role to assign it.

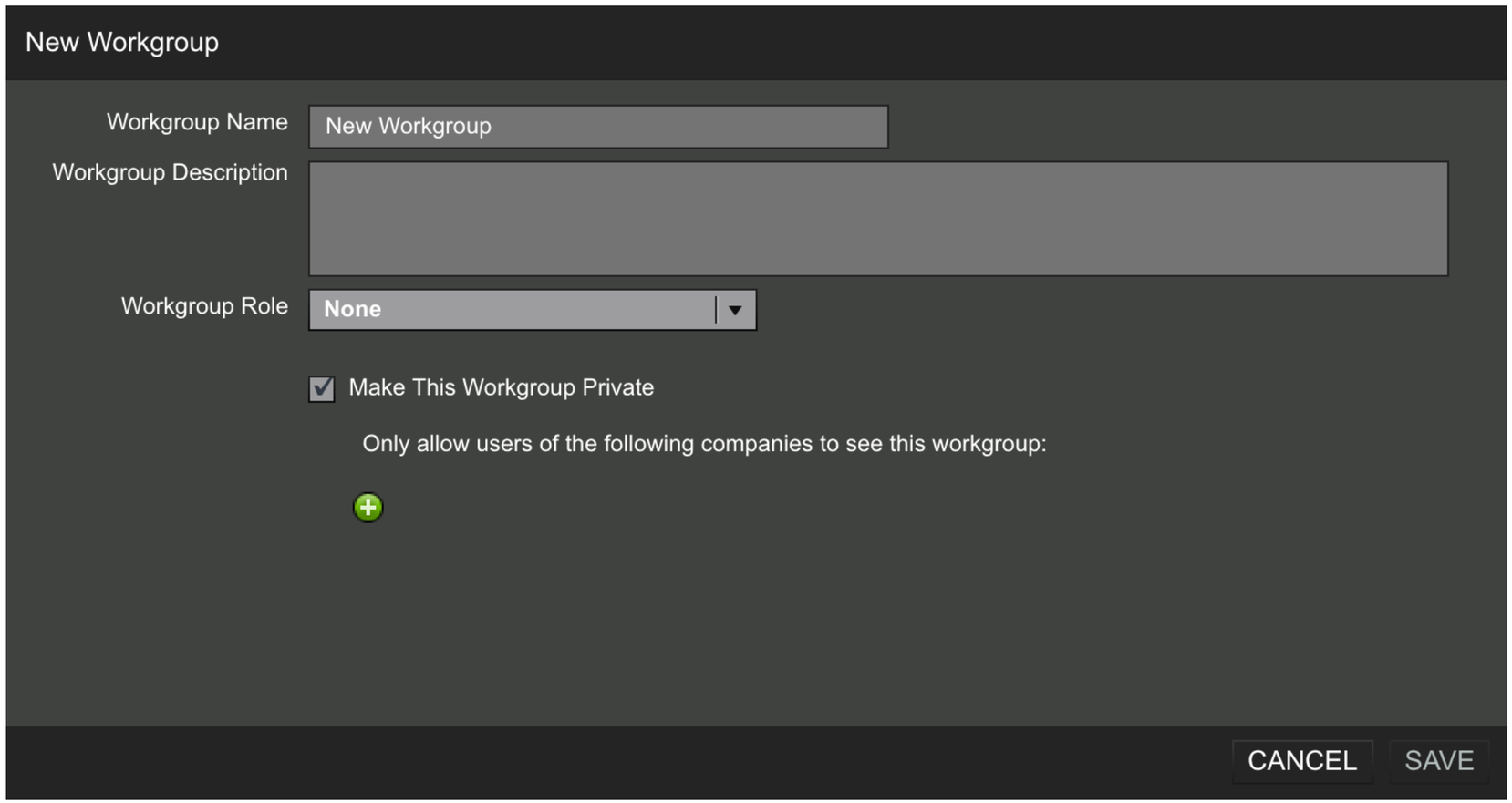


Remote Director Training

Server Administration Workgroups

The green ”+” will allow you to create a new workgroup that can be assigned to a user. The workgroup role will supersede a user’s personal role when they open a project as a member of the workgroup. All users of the group are equal and can sign off for the entire group.

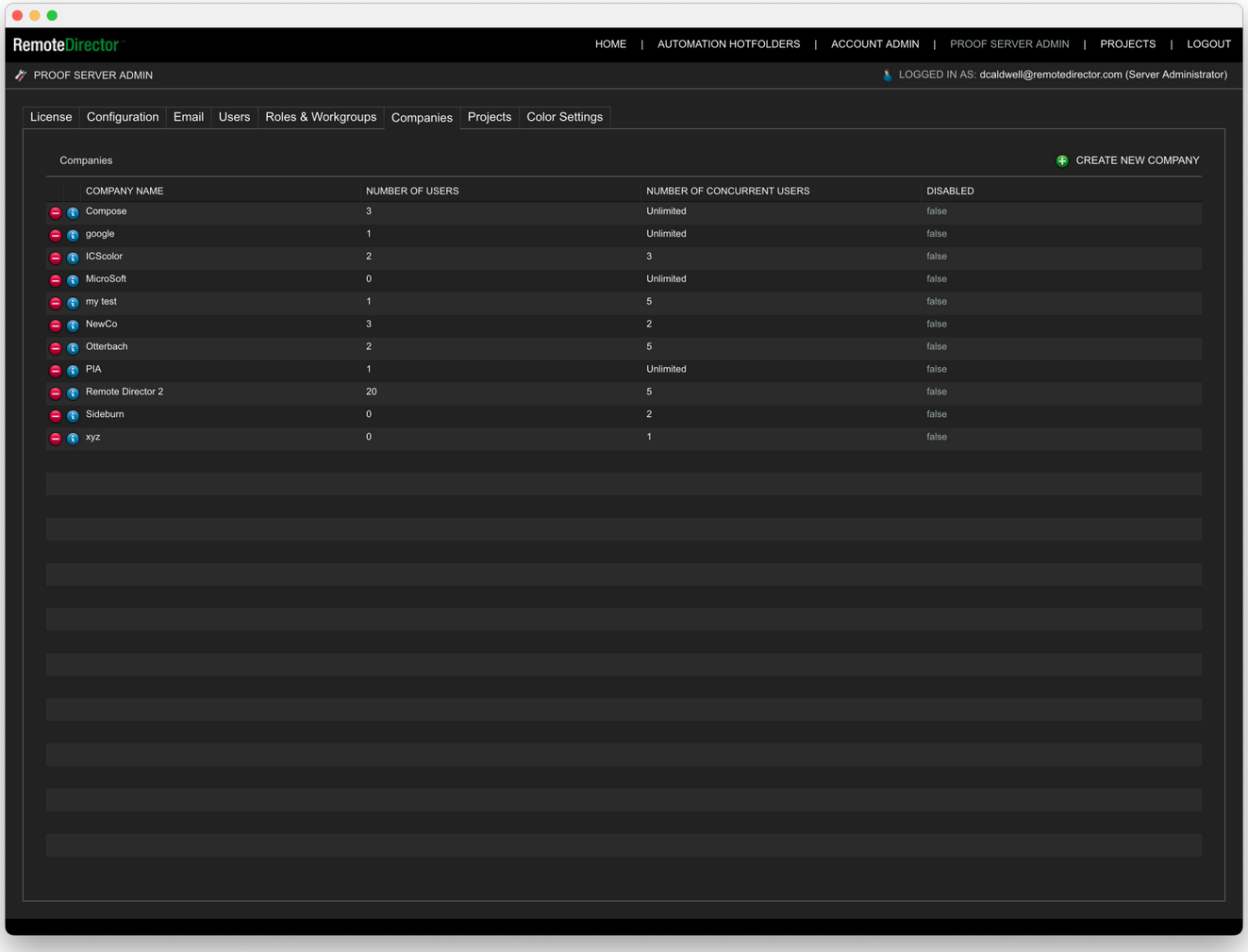
If you make the group private, it will only be used with your company and other companies you add with the “+”



Remote Director Training

Server Administration Companies

Companies are a silo that can be used to isolate projects, users, profiles and Custom colors from others on the server. You must create at least one default company. The green ”+” will allow you to create a new company in the server.



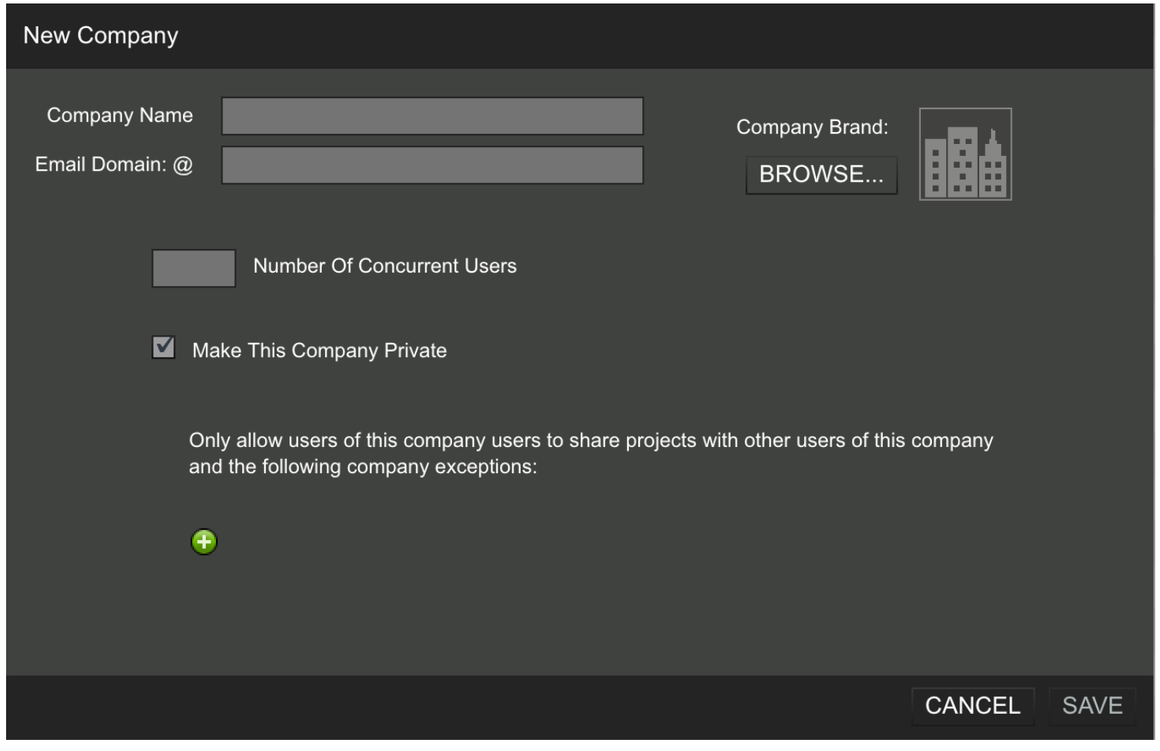
Remote Director Training

Server Administration Companies

Add the company name as you want to see it in RD's pop-up selection pane. Enter the domain used after the @ sign in the company's email address. If you want to see the company logo in RD's UI you can add it here.

You can select the number of concurrent users you wish to assign to this company.

If you select "Make This Company Private", no one outside the company can see any projects. You can add exceptions by selecting the "+" to add other companies to be granted access.



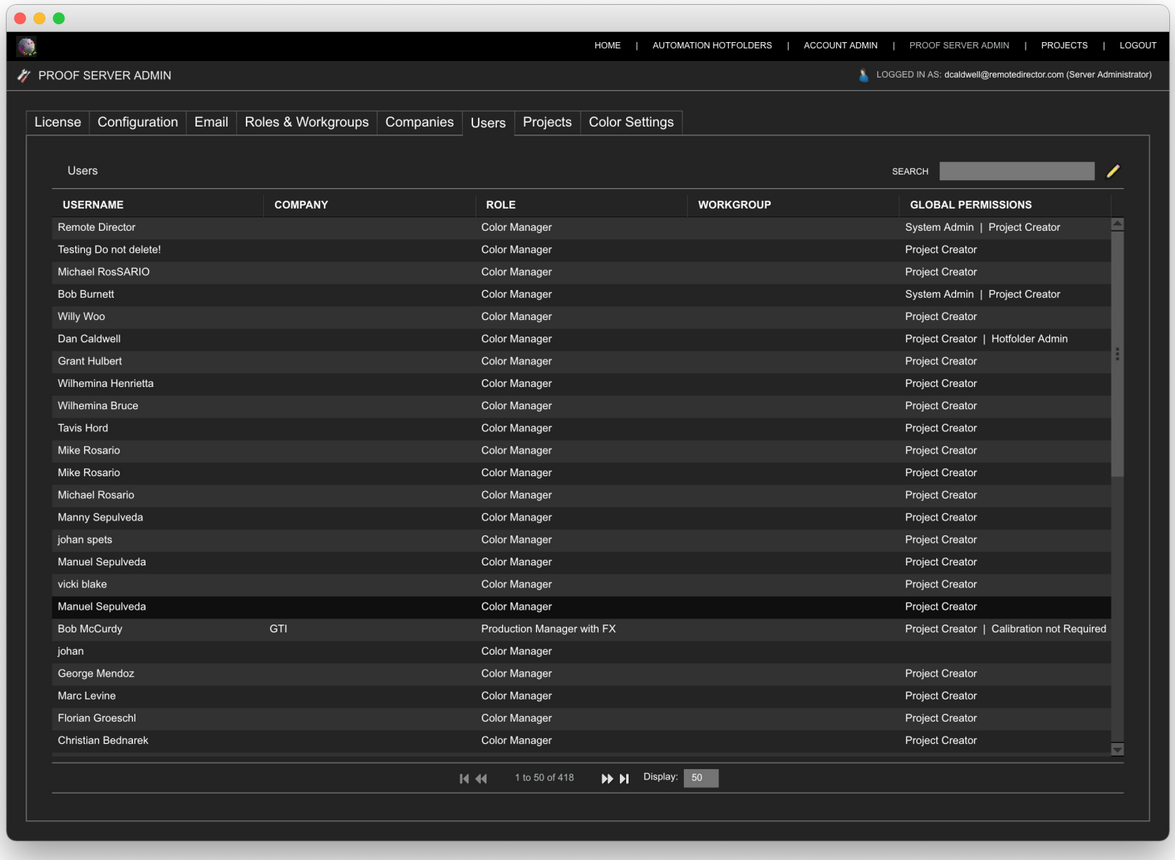
Remote Director Training

Server and Company Administration Users

Users can be added in two ways.

1. Dynamically when they are invited to a proof for the first time. The invitation will prompt you for a role to be assigned to the new user.
2. Added by the Server Administrator.

In both cases roles and permissions and company assignments can be added or edited here by selecting the pencil icon.

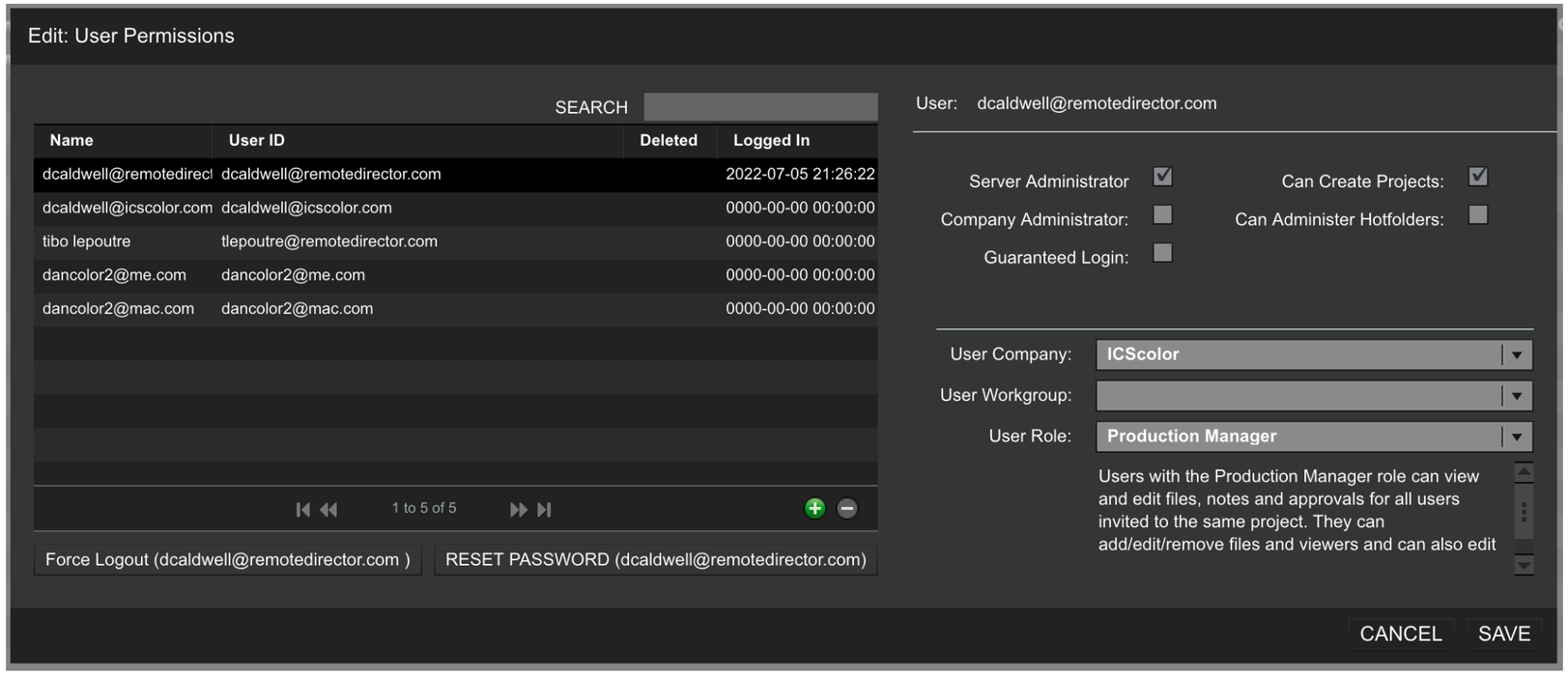


Remote Director Training

Server Administration Users Functionality

The search field can be used to find an existing user to select and to set or edit their user functionality.

- Server Administrator - allows the user access to these server admin pages
- Can Create Projects - allows the user to create new projects
- Company Administrator – allows access to add users, colors, and profiles for their company
- Guaranteed Login – allows user to gain access after the maximum concurrent users has been reached
- Can Administrate Hotfolders - allows the user to create and edit hot-folder automation
- User Company, Workgroup, Role - assigns company, adds to workgroup, sets or edits role
- Reset password - allows you to change a user's password
- Force logout - will kick a user out of the server to open up another user's availability



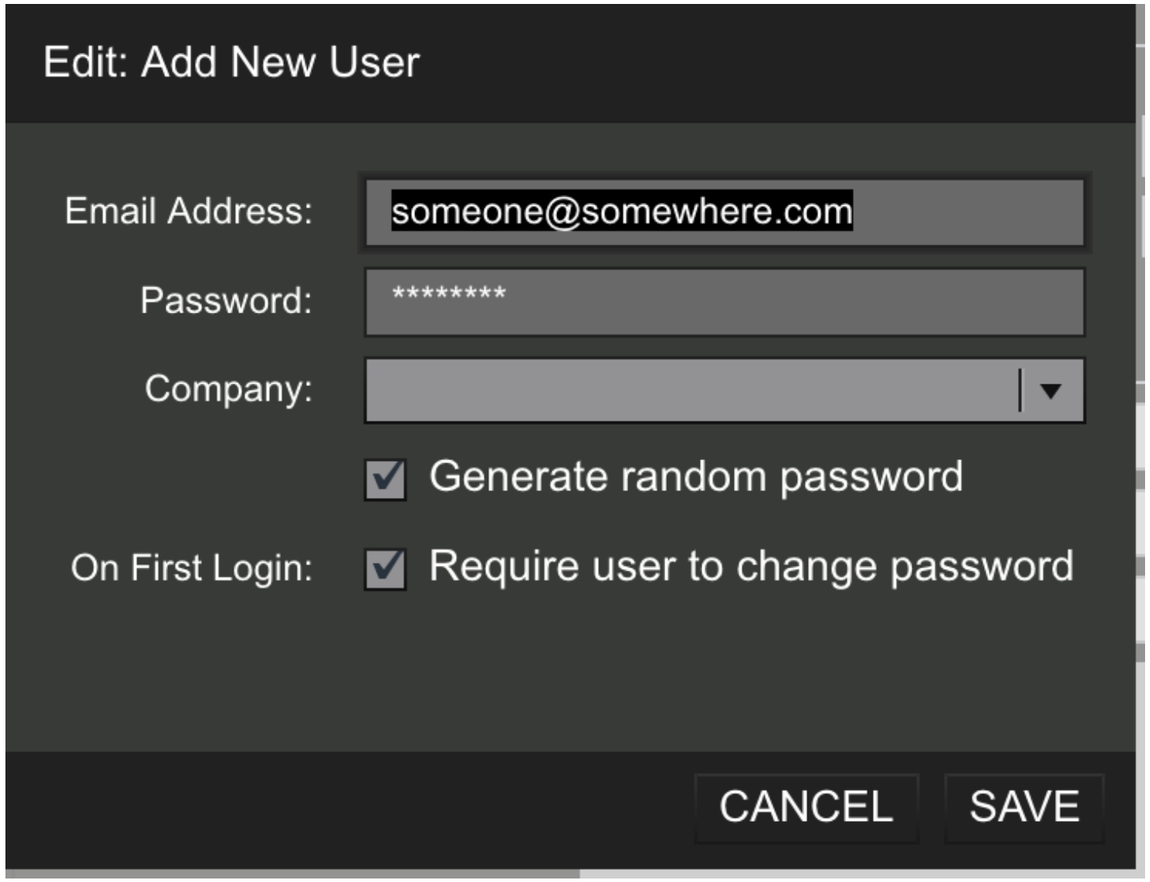
Remote Director Training

Server Administration Add New Users

To create a new user, select the “+” button.

Enter their email address and assign them to their company. If you deselect “Generate random password”, you can set their password for them and then require them to change it when they log in.

Save will add the new user to the list so that you can set up their functionality.

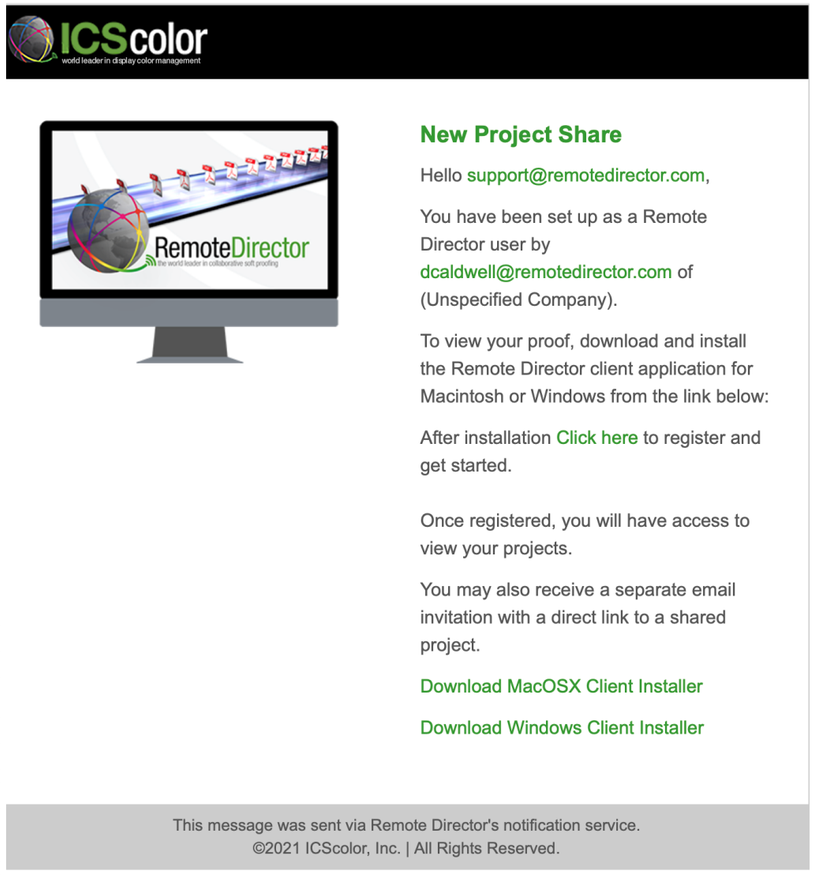


Remote Director Training

Server Administration Add New Users

The new user will receive this email.

The download link will download the Client software for installation. After installation the Click here link will launch the application and direct them to set their password..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RemoteDirector

New Project Share

Hello support@remotedirector.com,

You have been set up as a Remote Director user by dcaldwell@remotedirector.com of (Unspecified Company).

To view your proof, download and install the Remote Director client application for Macintosh or Windows from the link below:

After installation Click here to register and get started.

Once registered, you will have access to view your projects.

You may also receive a separate email invitation with a direct link to a shared project.

Download MacOSX Client Installer

Download Windows Client Installer

This message was sent via Remote Director's notification service.
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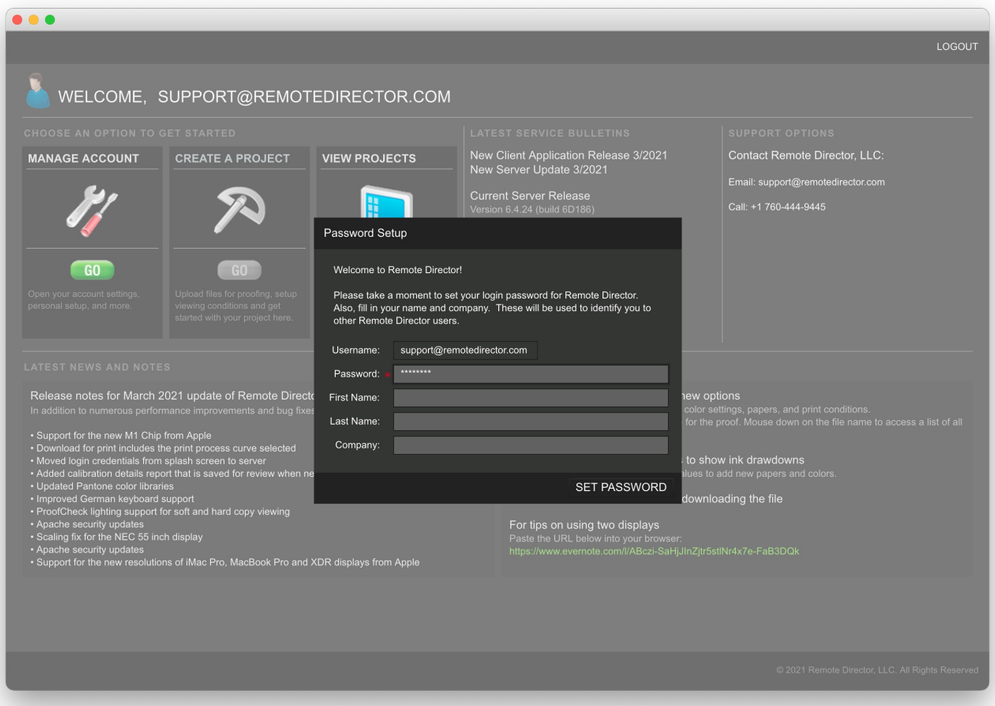
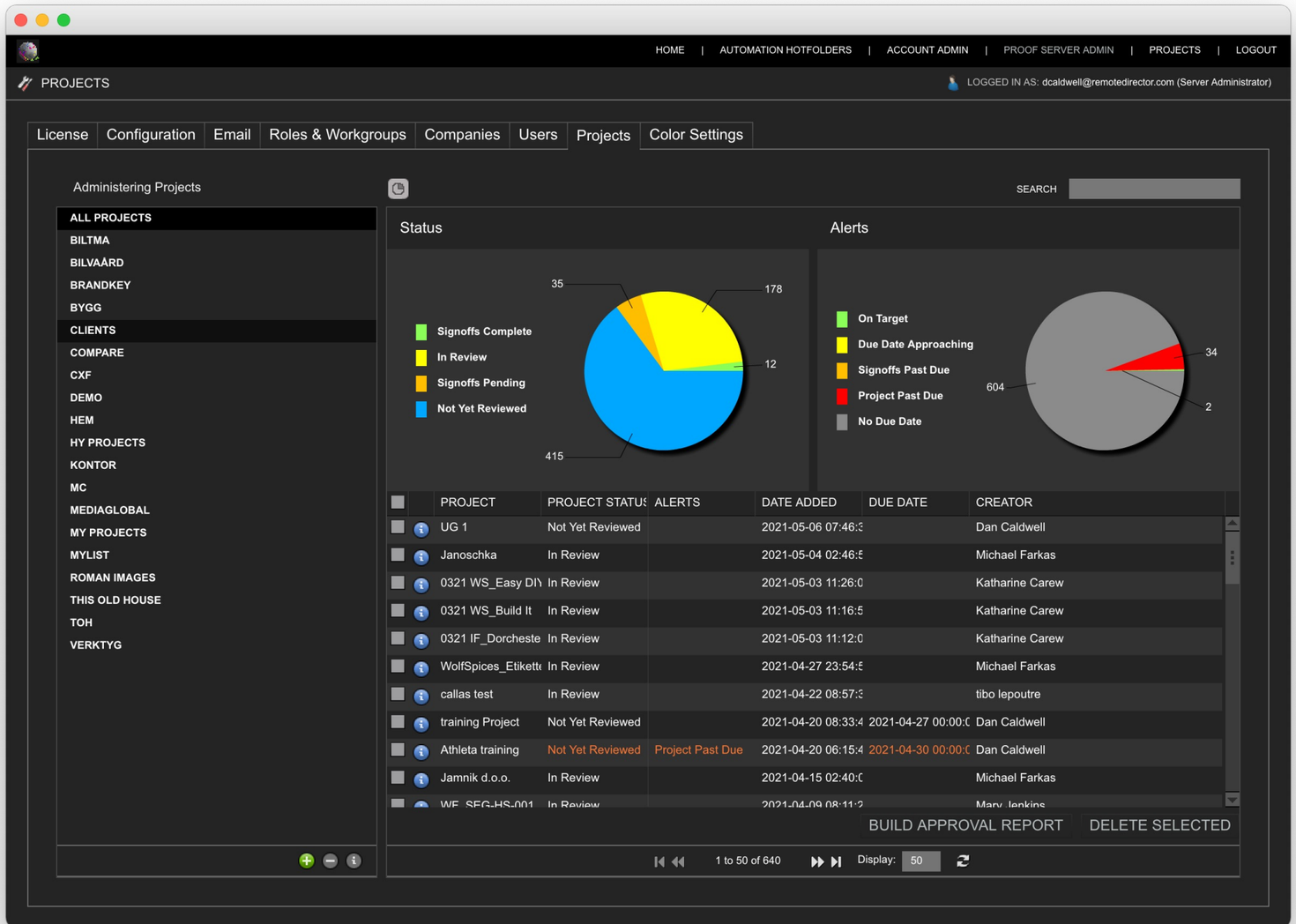


Remote Director Training

Server Administration Project Management

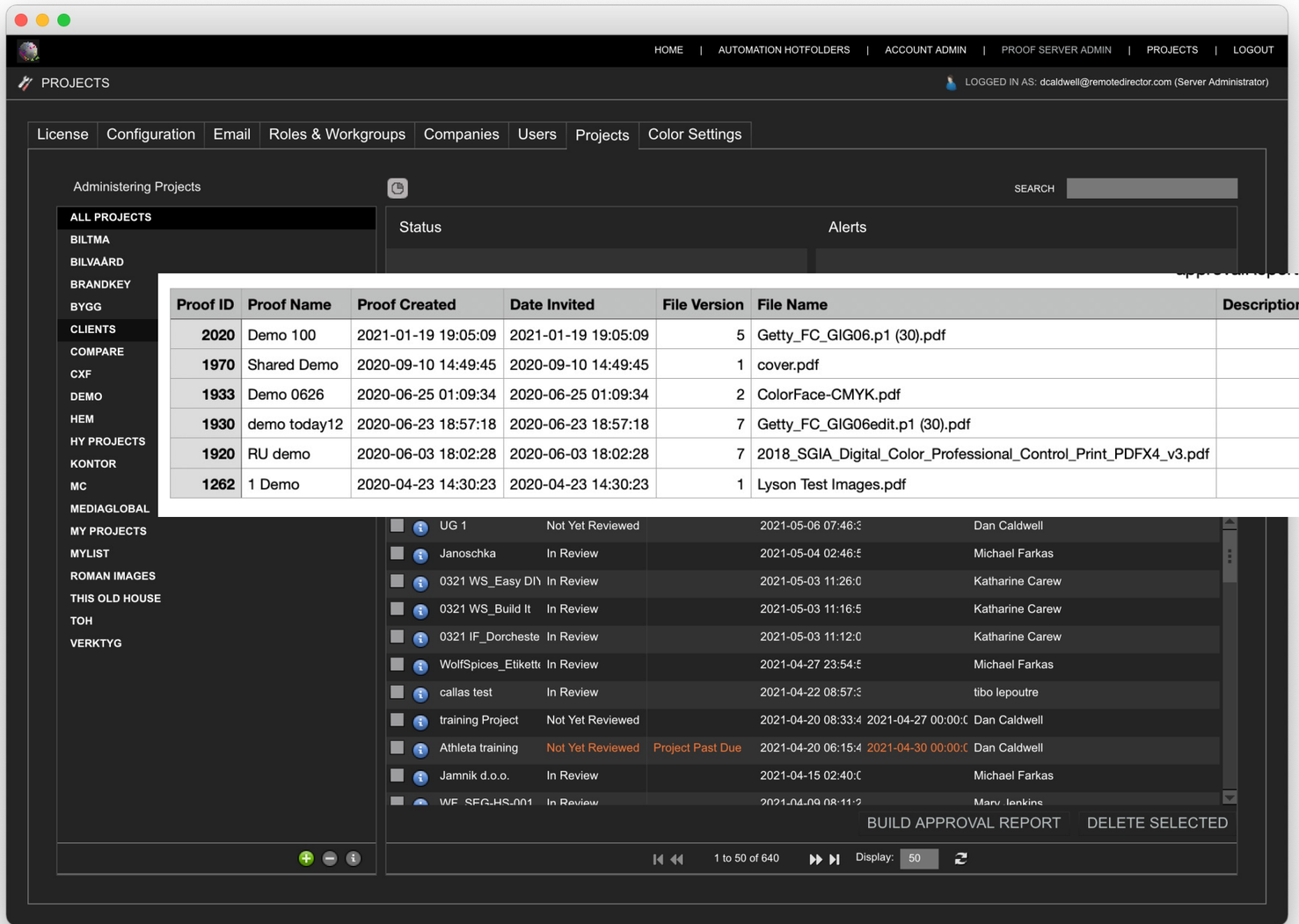
This tab is here as a global way to see all projects in the server. This mirrors the view projects function from the home page for sorting and filtering. A server admin can see all projects, not just the ones they are invited to. If you select projects, you can delete them from the server to free up disk space as needed.



Remote Director Training

Server Administration Project Management

Select Build Approval Report to export a .csv file that shows signoff on selected projects.



Proof ID	Proof Name	Proof Created	Date Invited	File Version	File Name	Description	Page Number	Status	User Name	Date
2020	Demo 100	2021-01-19 19:05:09	2021-01-19 19:05:09	5	Getty_FC_GIG06.p1 (30).pdf		1	Rejected	Dan Caldwell	2021-
1970	Shared Demo	2020-09-10 14:49:45	2020-09-10 14:49:45	1	cover.pdf		1	Rejected	Dan Caldwell	2020-
1933	Demo 0626	2020-06-25 01:09:34	2020-06-25 01:09:34	2	ColorFace-CMYK.pdf		1	Rejected	eric.wong@compose.com.hk	2020-
1930	demo today12	2020-06-23 18:57:18	2020-06-23 18:57:18	7	Getty_FC_GIG06edit.p1 (30).pdf		1	Rejected	Dan Caldwell	2020-
1920	RU demo	2020-06-03 18:02:28	2020-06-03 18:02:28	7	2018_SGIA_Digital_Color_Professional_Control_Print_PDFX4_v3.pdf		1	Rejected	Dan Caldwell	2020-
1262	1 Demo	2020-04-23 14:30:23	2020-04-23 14:30:23	1	Lyson Test Images.pdf		1	Rejected	Dan Caldwell	2020-

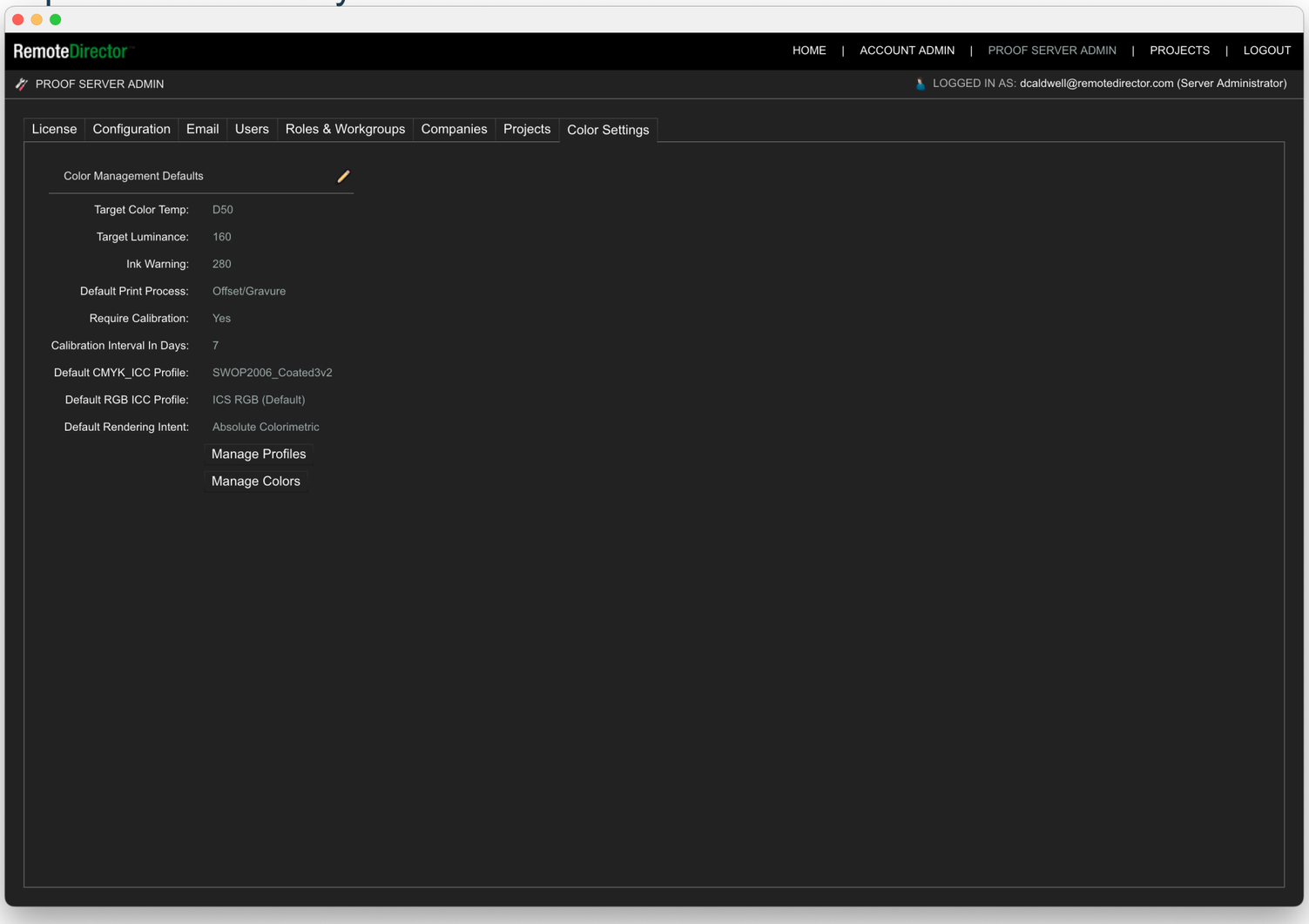
Report File

Remote Director Training

Server and Company Administration Color settings

This tab is where you set the server and companies color setting defaults and add or edit color and paper libraries.

Click the pencil icon to set your defaults.



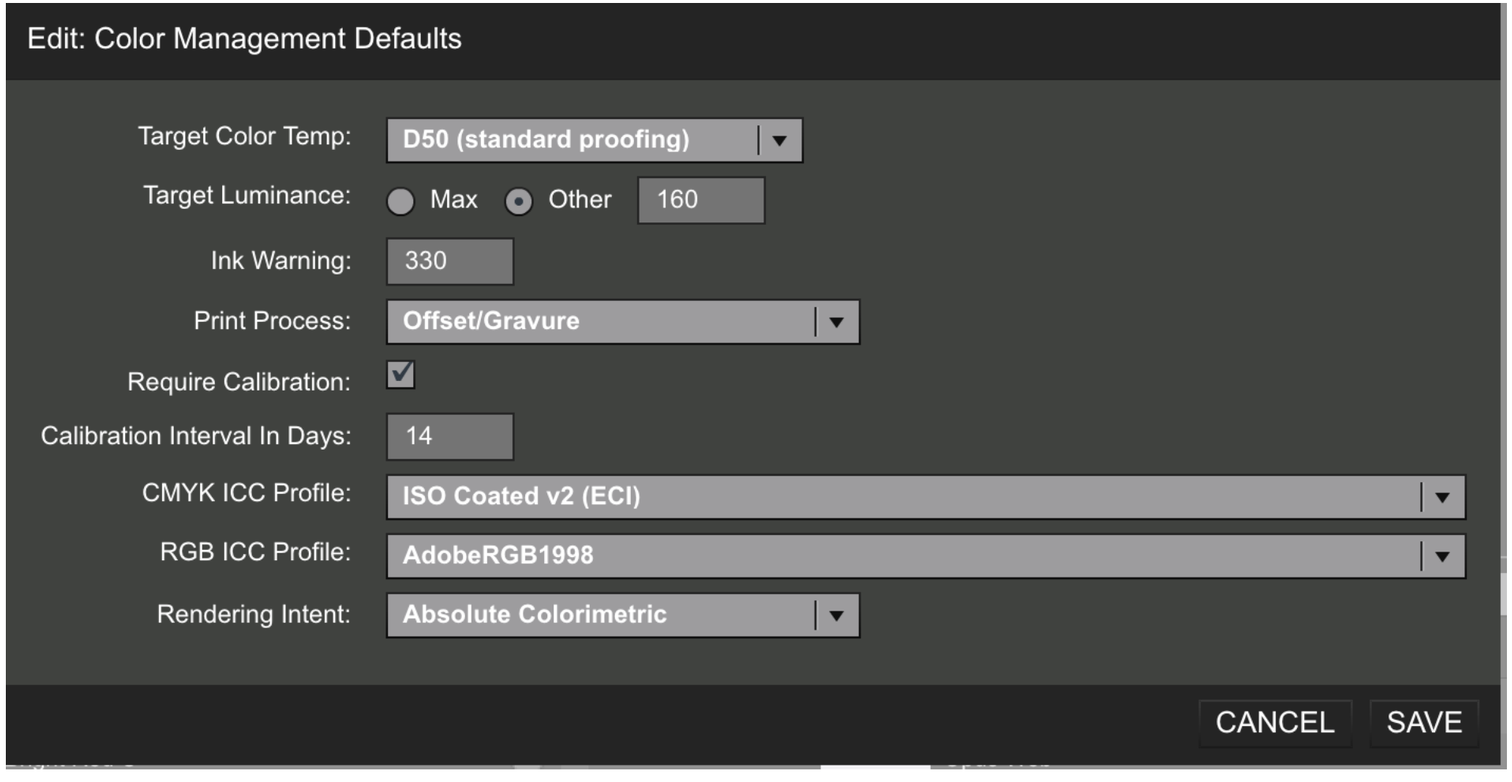
Remote Director Training

▶ Server and Company Administration Color settings

Set the default settings to be used when creating projects.

Calibration interval is how many days a valid calibration for a user's monitor can be used before forcing a new calibration.

Offset/Gravure is a linear print process curve option, but you can select edit from the dropdown to build and name your own curves with numeric values. After version 2.7 of the client application, you can also build, edit and manage curves in the viewer if you are a color manager. This allows you to evaluate the settings with an image.



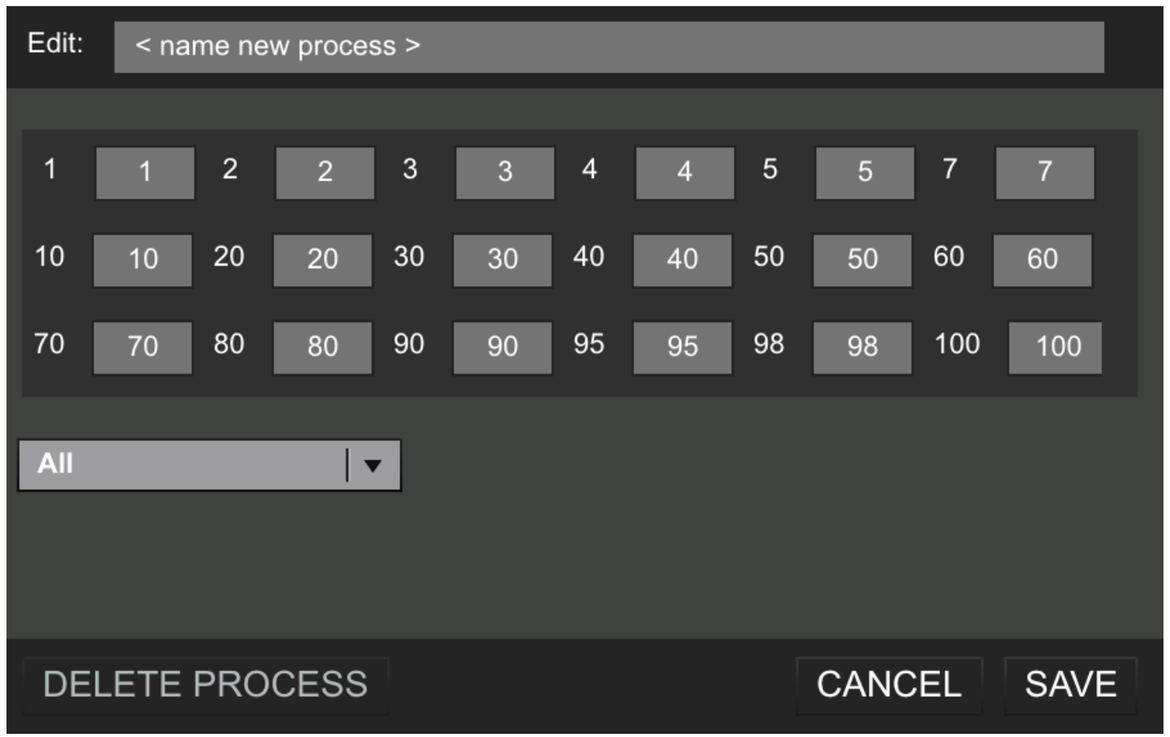
Remote Director Training

▶ Server and Company Administration Color settings

This window allows you to build print curves numerically to show non-linear print conditions that are not built into a profile.

Curves can be built for CMYK, Spot, or all channels. Once saved, they can be selected from the dropdown menus in server defaults and or project settings.

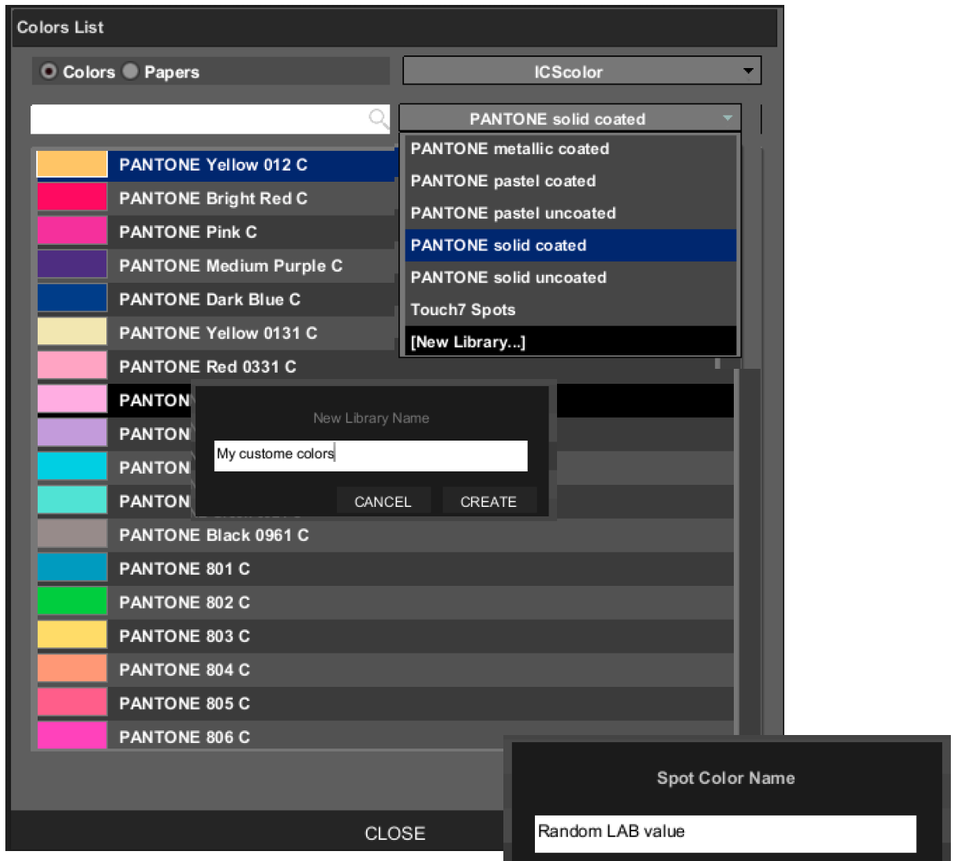
After version 2.7 of the client application, you can also build, edit and manage curves in the viewer if you are a color manager.

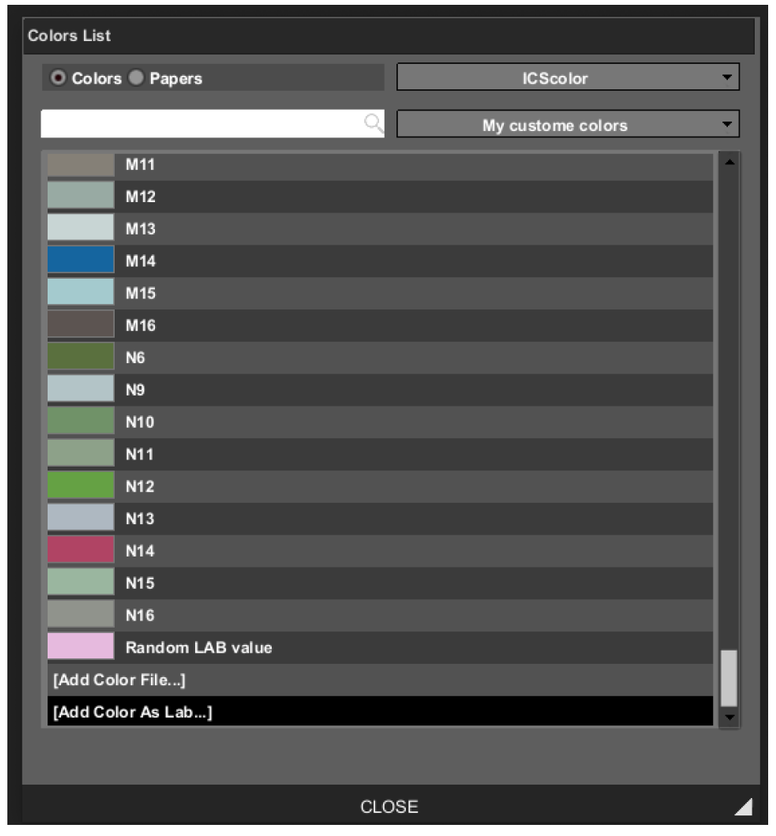


Remote Director Training

▶ Server and Company Administration Color settings

The pantone color libraries are assigned to every company by default. You can add a custom or paper library for your company by selecting manage colors button and selecting colors or papers. Select “New Library” from the pop-up library selection and name your library. Add files will open finder to select your CxF values and add as LAB opens a UI to name the new color and enter the LAB values for that color.

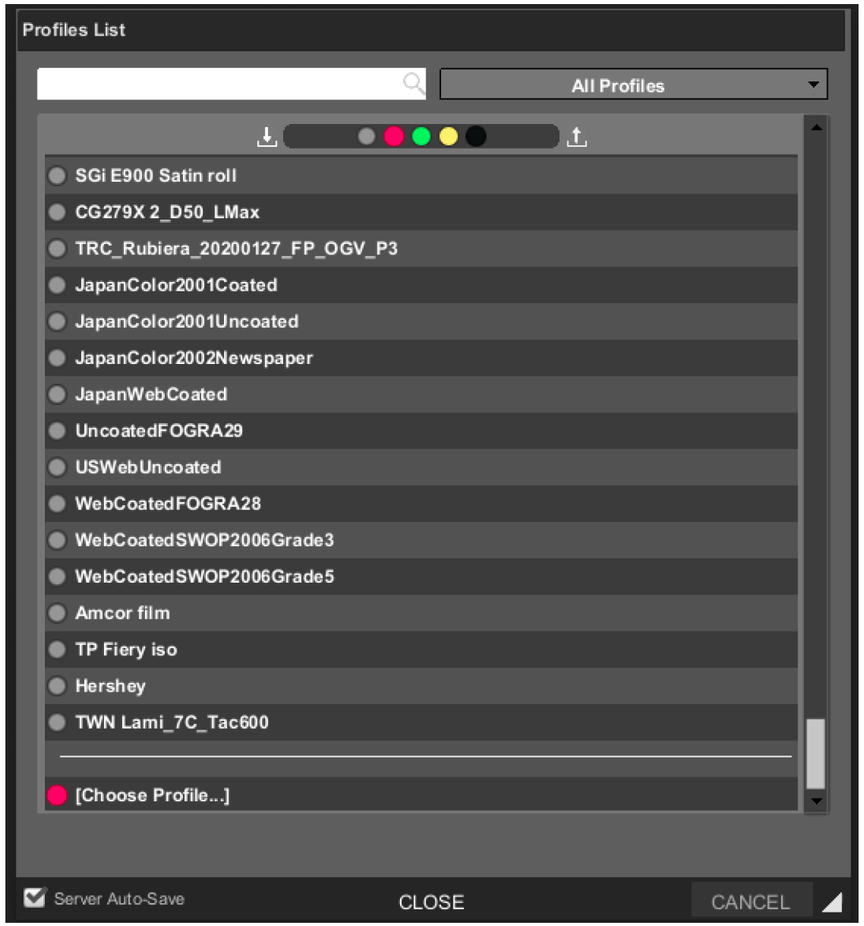


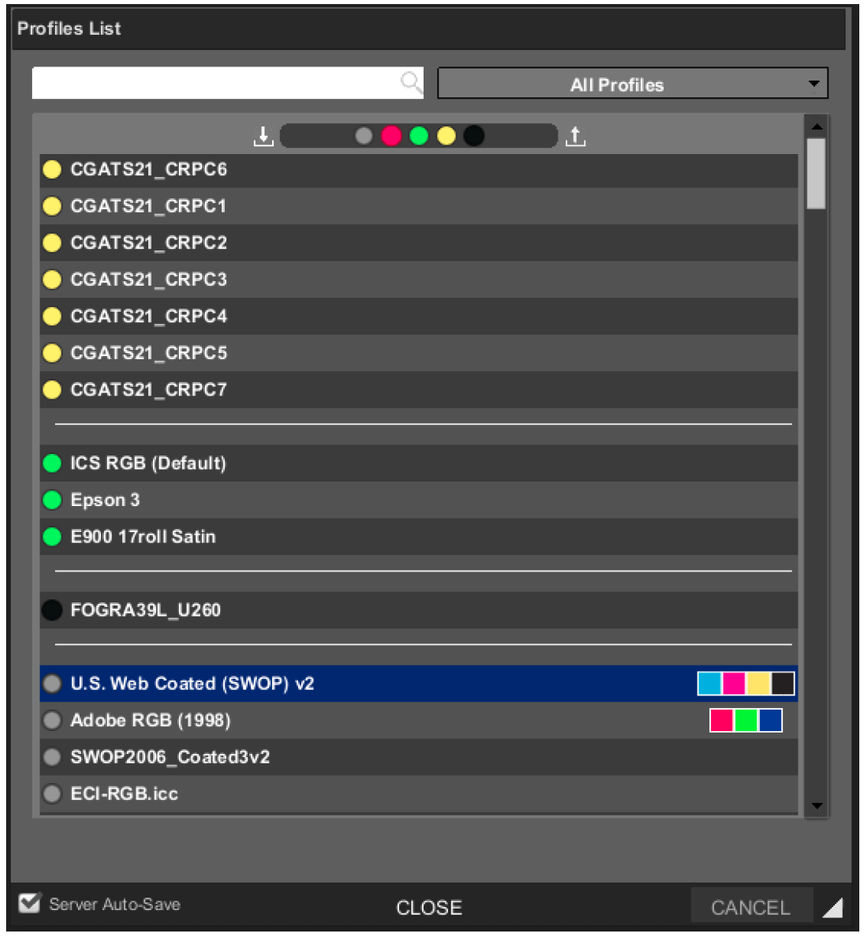


Remote Director Training

▶ Server and Company Administration Manage Profiles

Users with many profiles may wish to add them in bulk for their company. At the bottom of the list select “Choose Profile…” This opens a finder that will allow you to select one or more profiles. The dot on the left will be the flag color of all the profiles you select. All profiles can be flagged for faster selections. The down arrow will pull down the company default flags the up arrow will set the current flags as company default. The RGB/CMYK icons indicate the default profiles.





Remote Director Training

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Training Modules

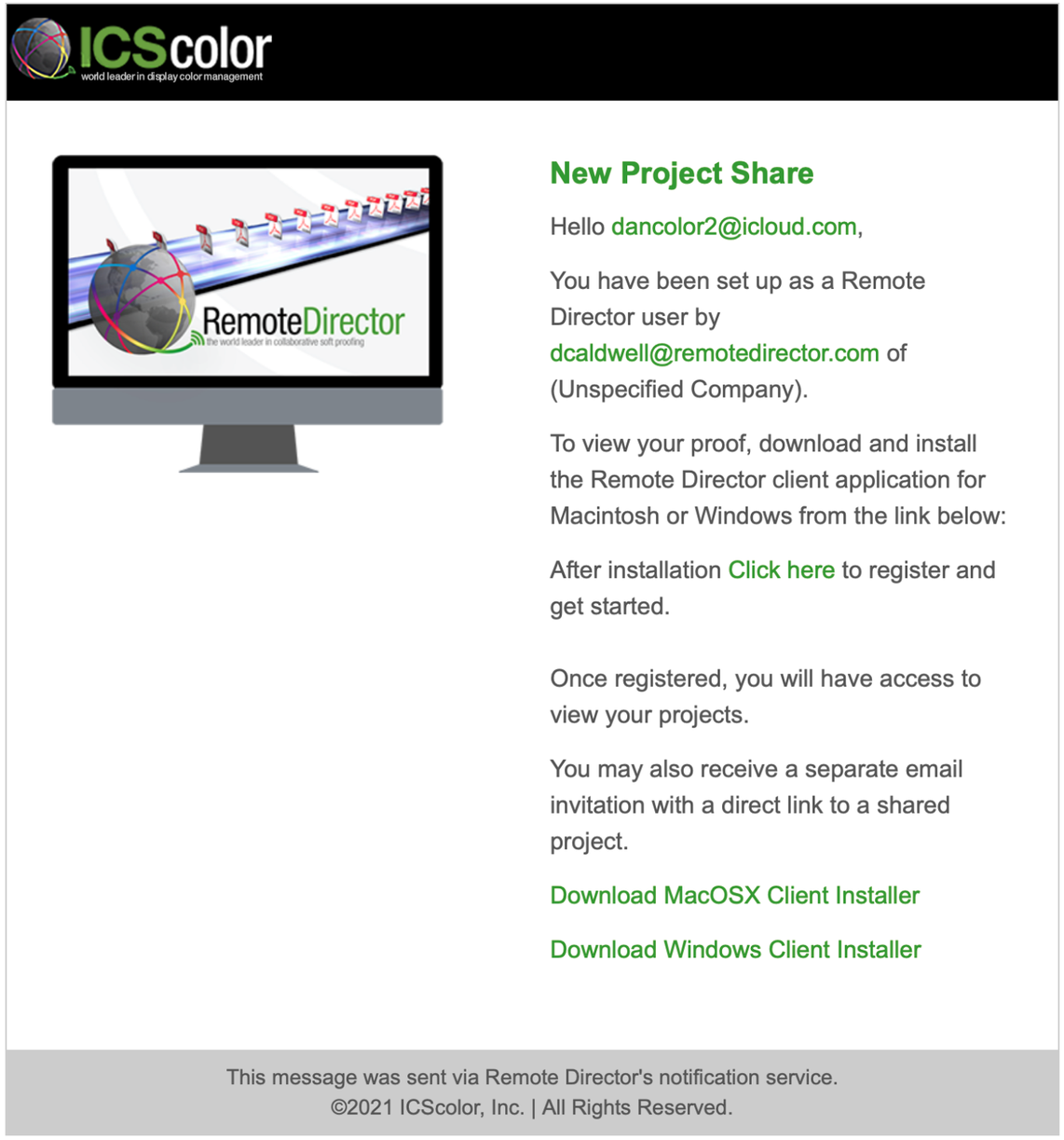
- Terminology
- System Architecture
- Lighting – Environment
- Server Installation
- Application Installation
- Server Administration
- Manage Account - Create Projects - Project List
- The Viewer/Calibrator/Tools – Navigation
- Hotfolders
- Support

Remote Director Training

Application Installation

You will receive an email invitation to join a Remote Director Proof Server.

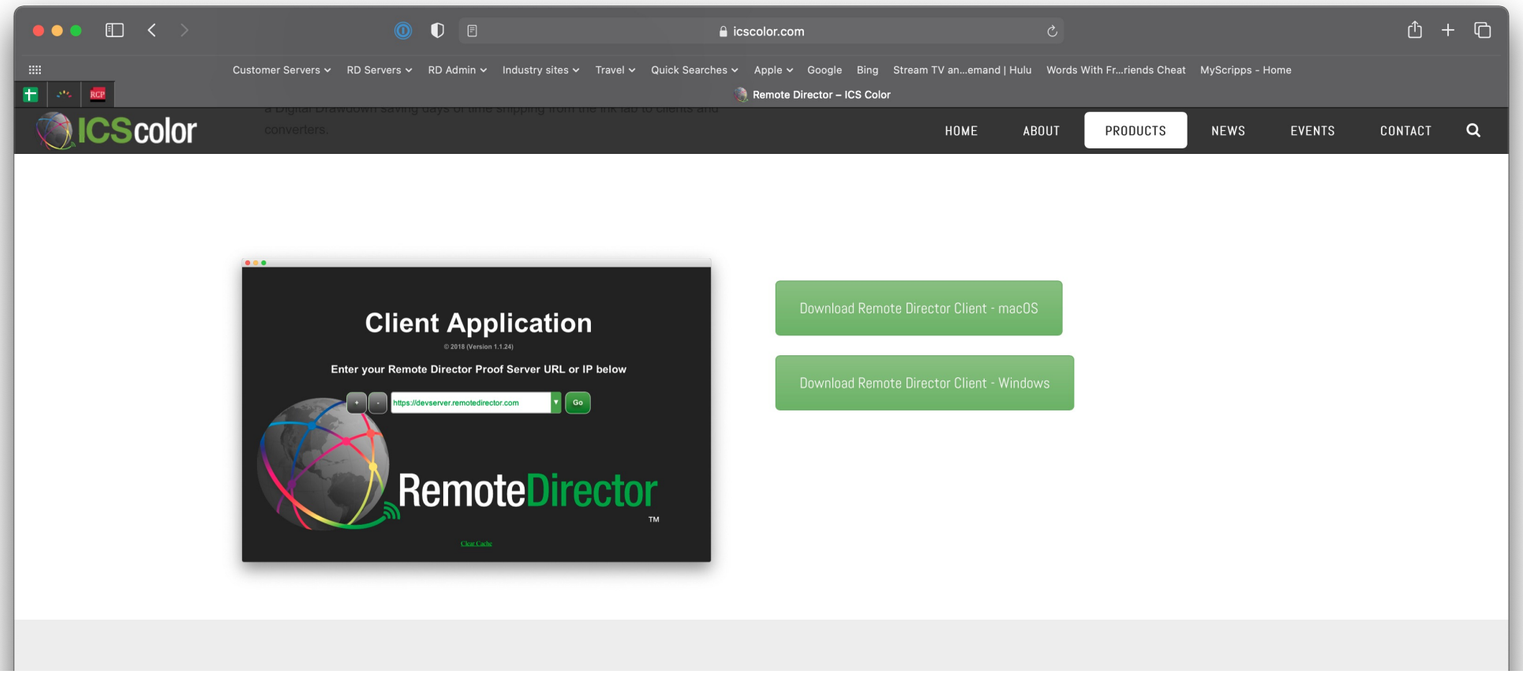
Make sure the Remote Director Client Application is installed but NOT launched before you select the “Click here” link in the email to complete your registration.



Remote Director Training

Application Installation

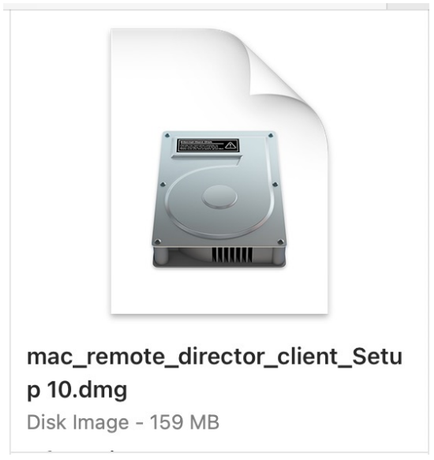
The installers can also be found on our web site at: https://icscolor.com/remote-director/
Scroll down to select the desired installer.

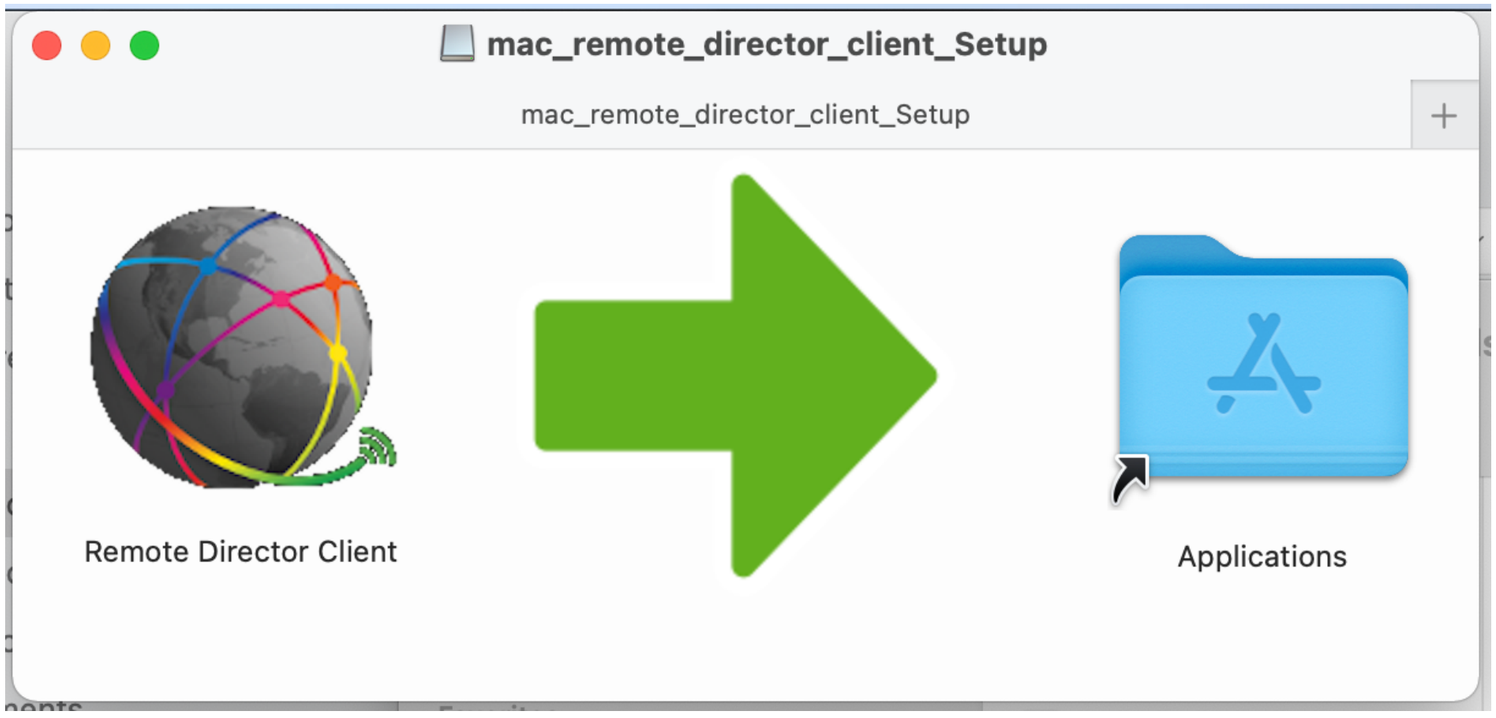


Remote Director Training

Application Installation Macintosh

The download is a DMG (Disk Image). Double click to launch and drag the Application Icon to your Applications Folder Icon inside the window. Then eject the DMG.

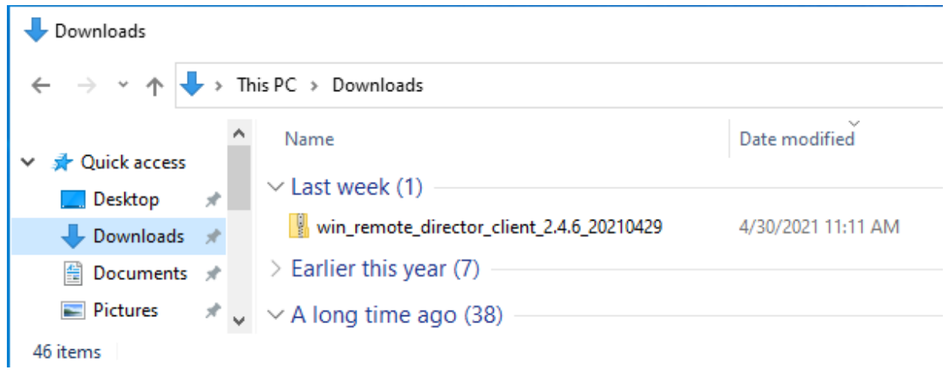


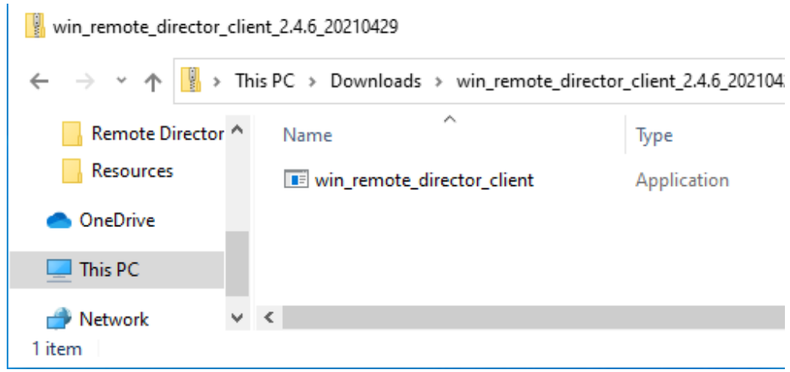


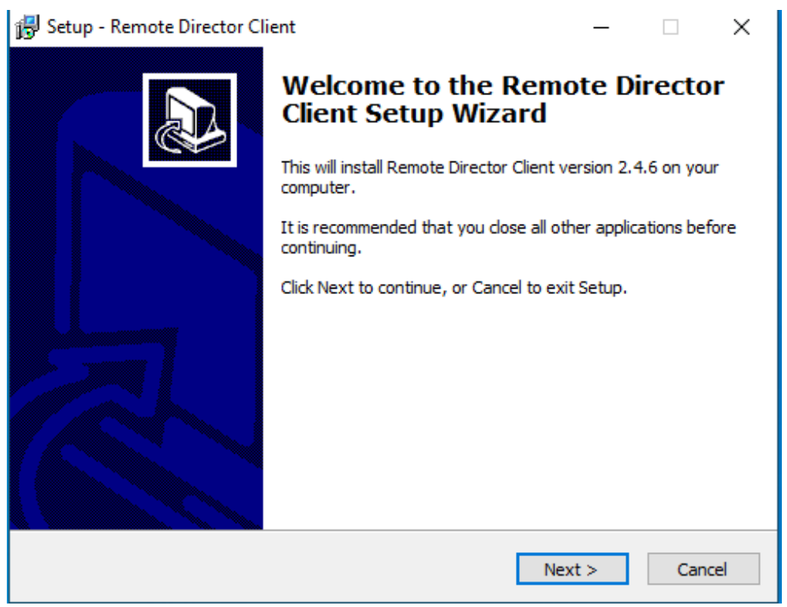
Remote Director Training

Application Installation Windows

The download is a zipped installer. Open, then double click and allow the installer to run.



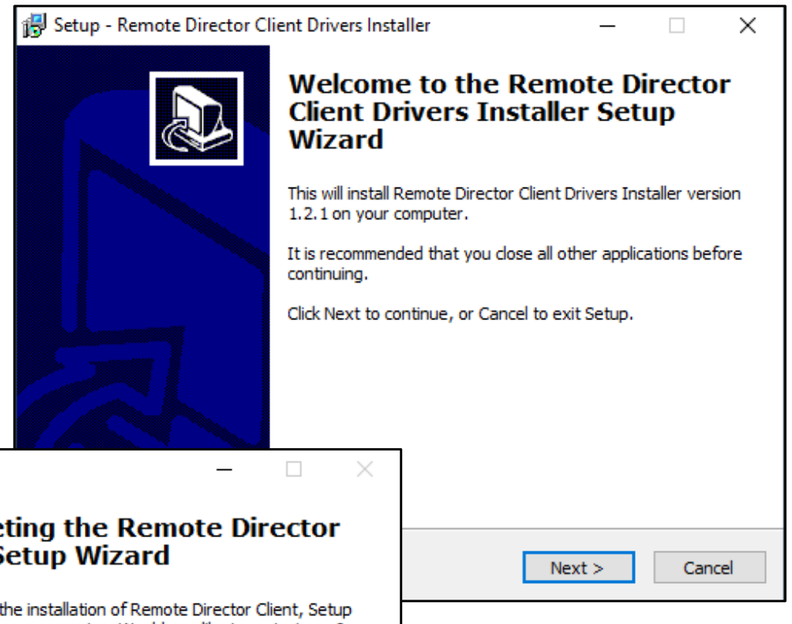


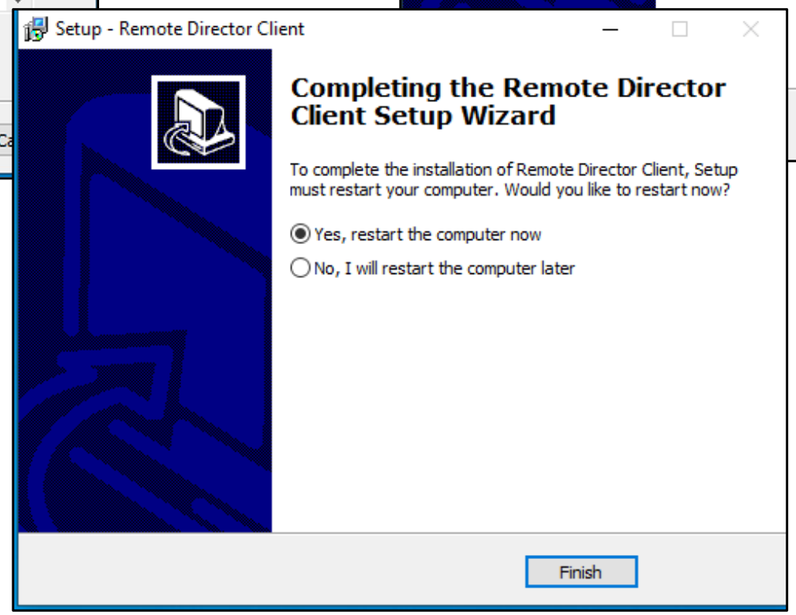


Remote Director Training

Application Installation Windows

Agree to the terms and run the installer. Be sure to agree to the additional questions in order to install the instrument drivers. Then finish and reboot.

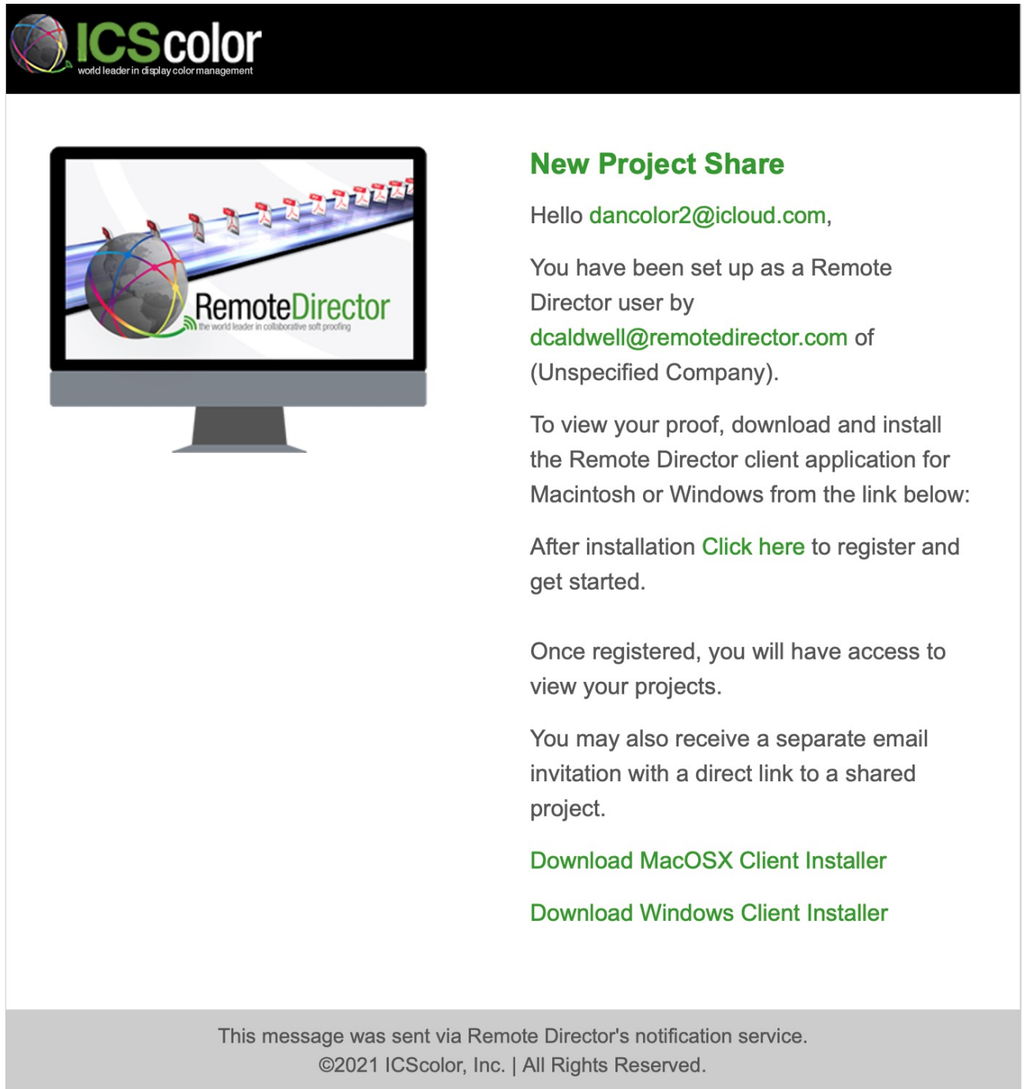


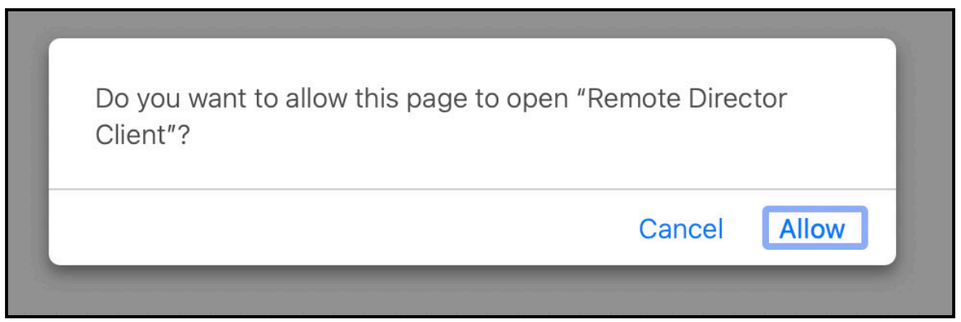


Remote Director Training

Application Launching

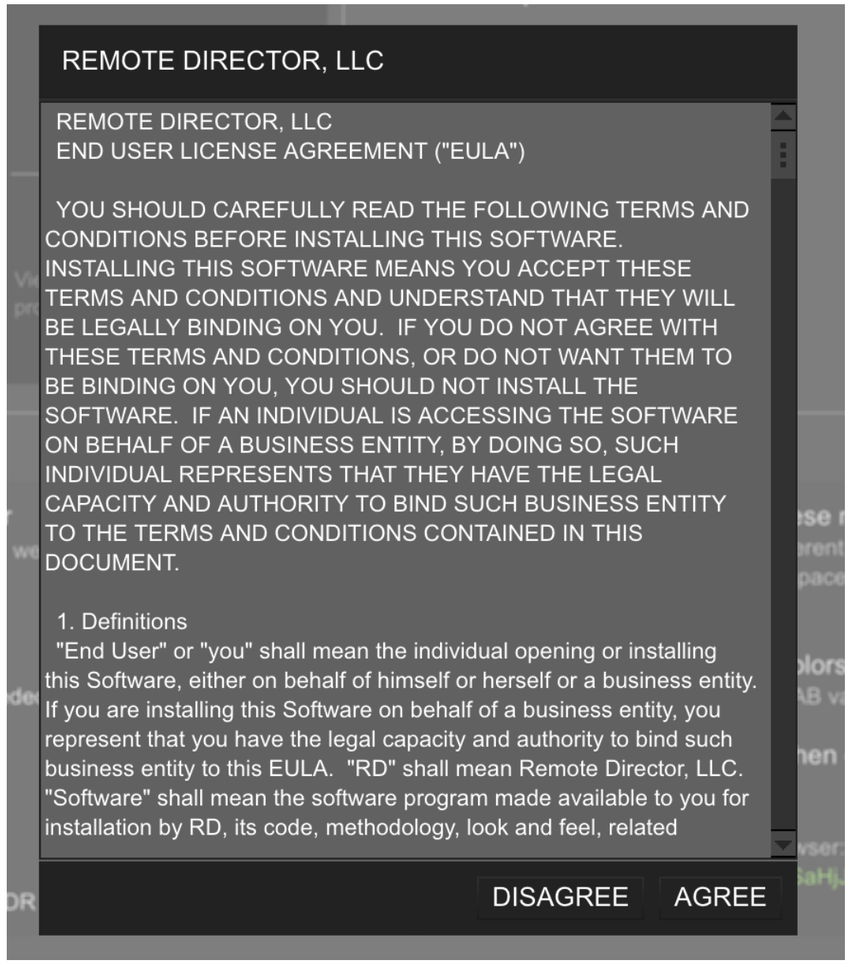
Now go back to the email and select “Click here” to complete registration. This will open your browser and allow the application to launch.

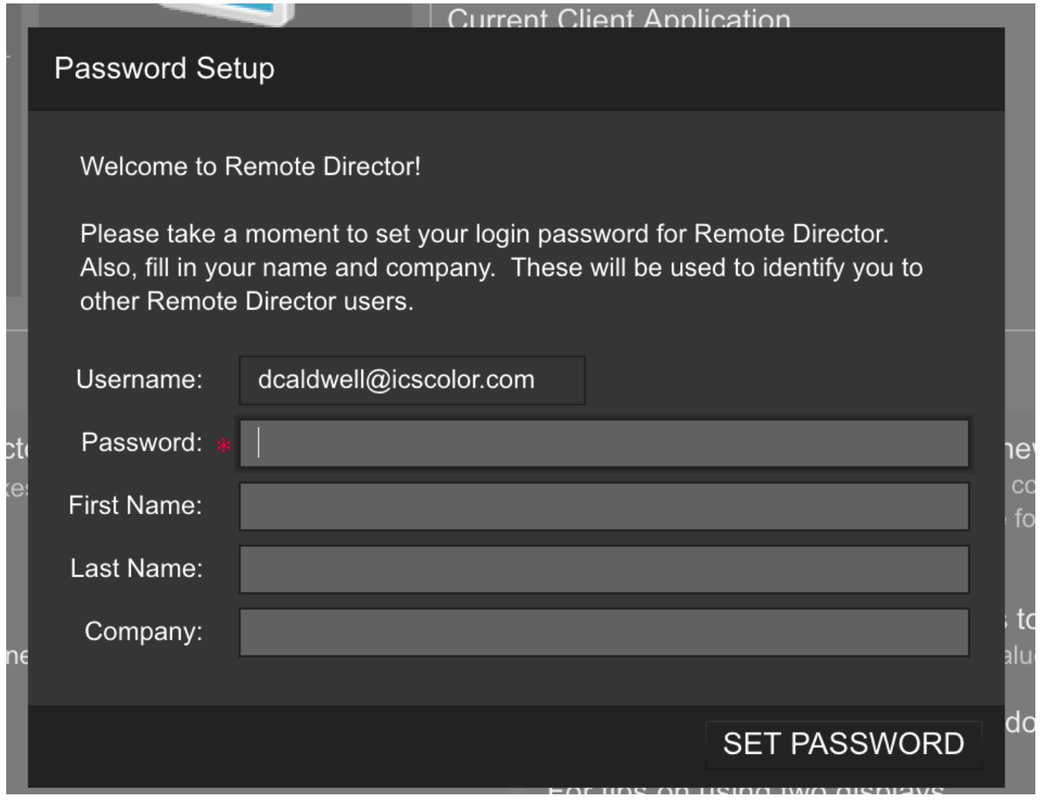




Remote Director Training

- The application will launch and bring you to the licensing agreement.

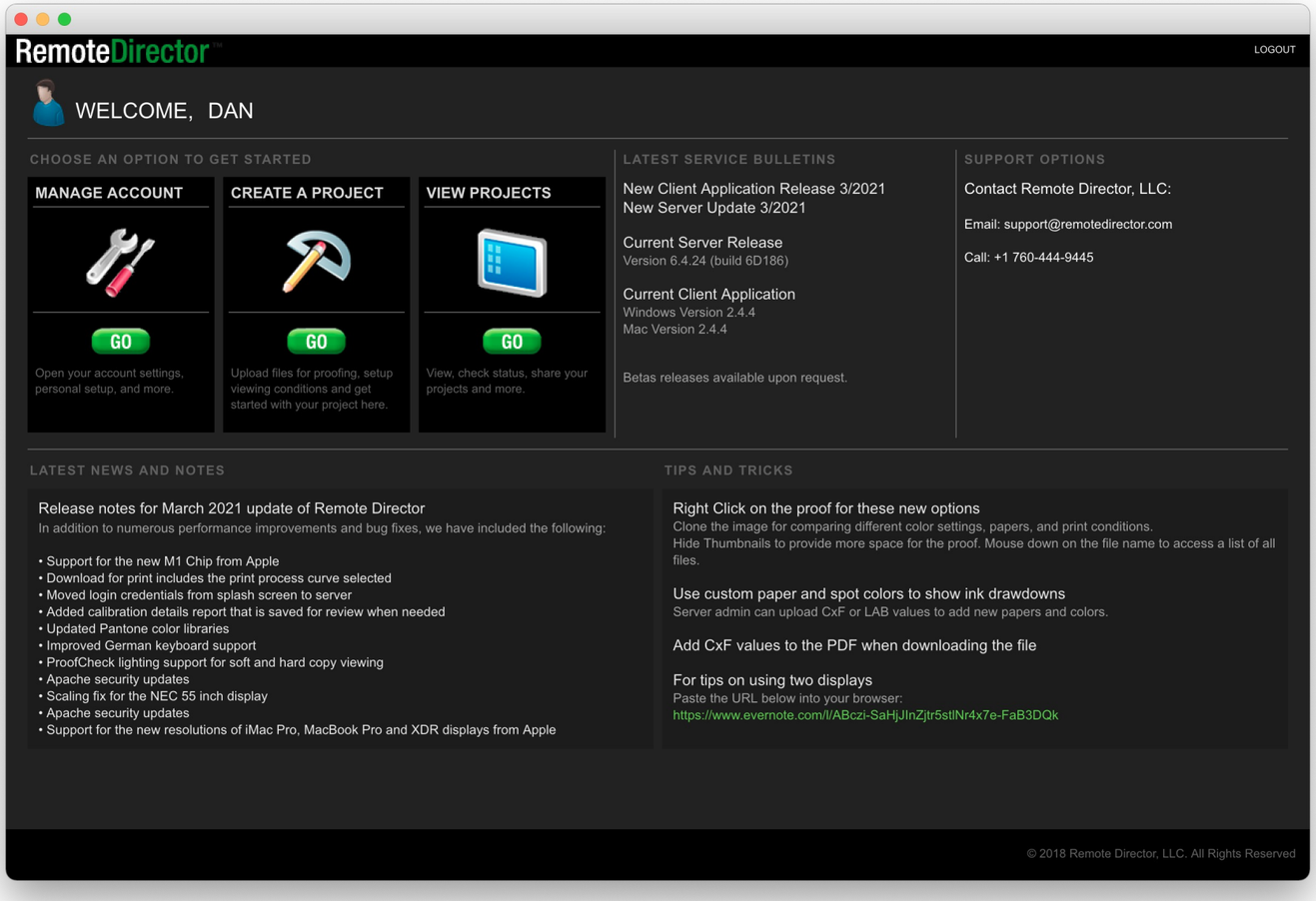




After carefully studying the agreement and with permission from your attorney, click AGREE. Enter the password you wish to create for Remote Director. You also have the option to enter your name so annotations and sign-off are noted with it (as opposed to your email address). Select SET PASSWORD to gain access to the home screen.

Remote Director Training

Remote Director Home



The home screen provides access to the main functions of Remote Director and four information fields that provide Service Bulletins, Support Options, Latest News on the product, and some Tips and Tricks for using the application. In the upper right corner is the logout button that takes you to the application splash screen. To quit Remote Director, you must always logout first.

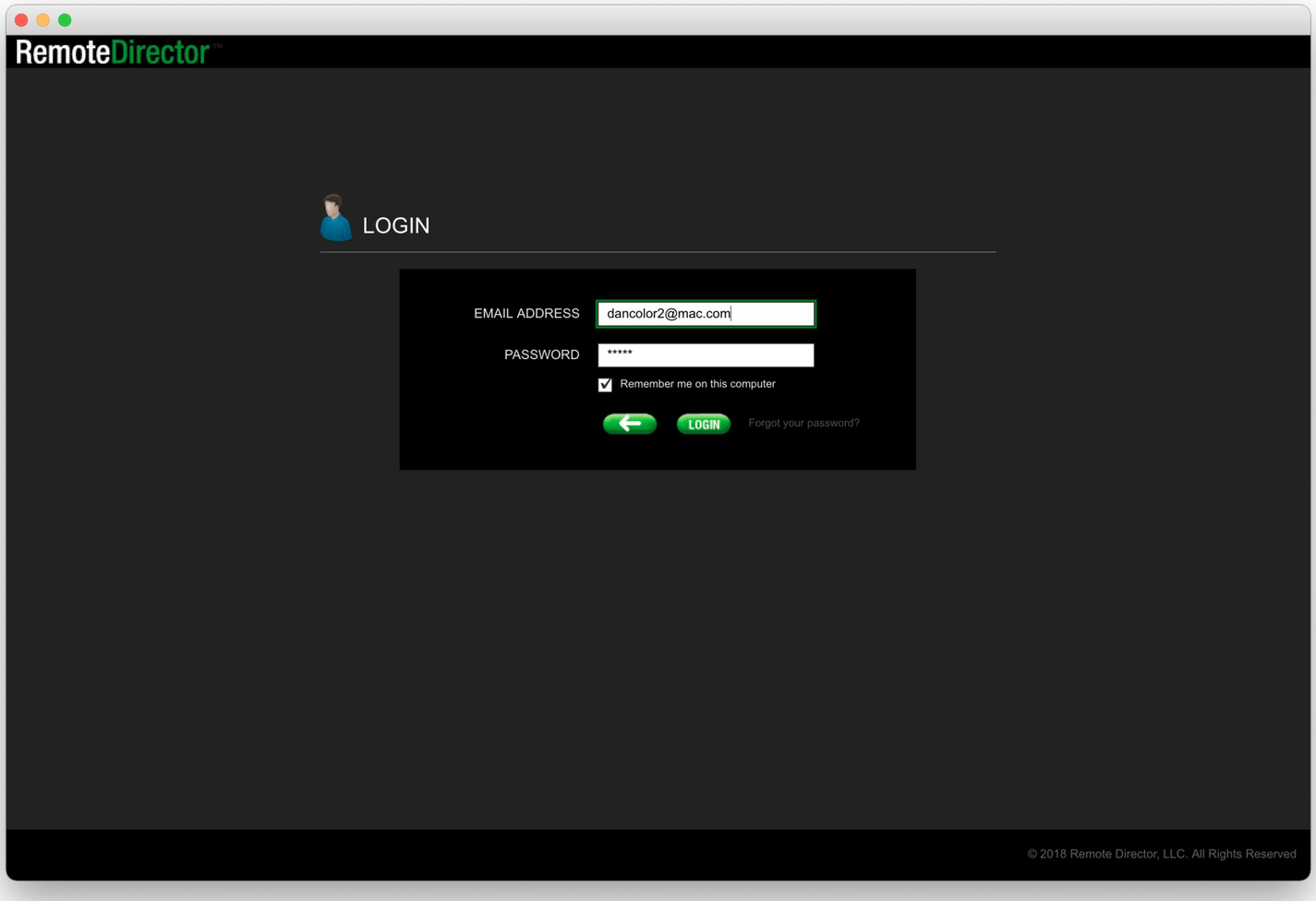
Remote Director Training

Launching From the Splash Screen

The splash screen will show the URL of the Proof Server that invited you. Note, if you need to access additional proof servers, the + button will allow you to enter other server's URLs that will remain in the drop-down list until deleted. The branding logo on the splash screen may change for each proof server's address. To enter to the home screen of the server, click the arrow to the right of the URL.

Remote Director Training

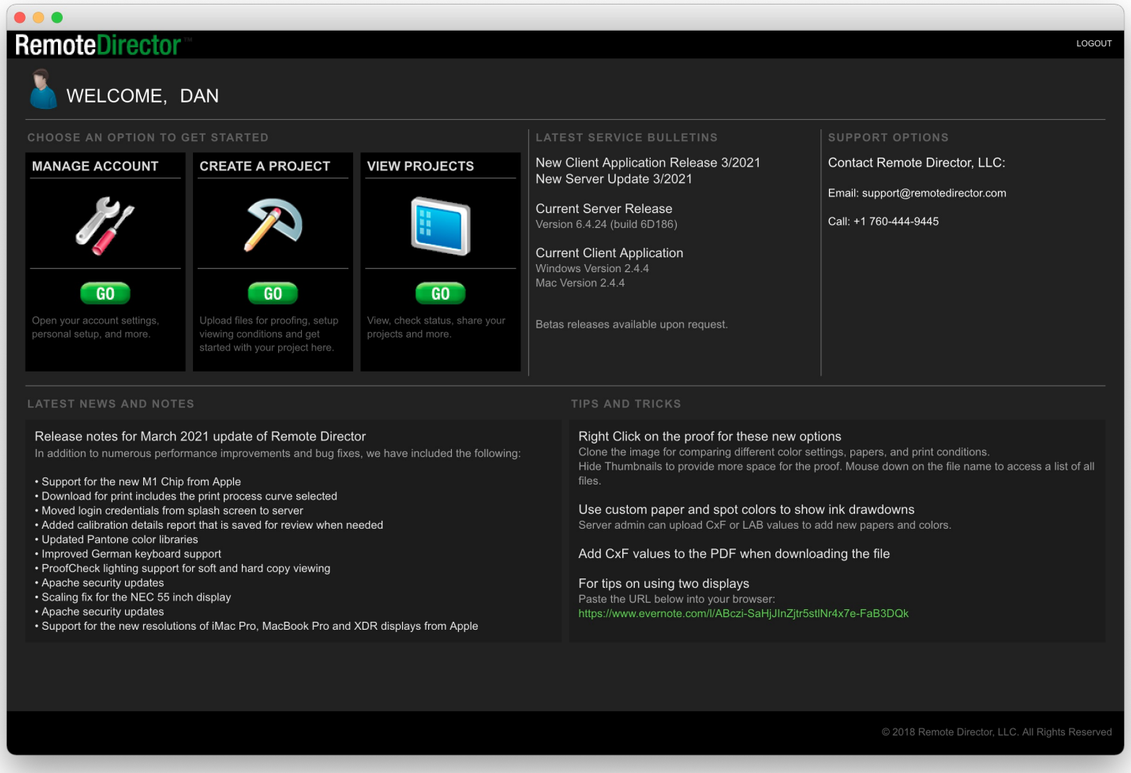
Logging in to Remote Director



Enter your email address and password. Click the "remember me" selection to prevent the need to enter this each time you login. The back arrow will return you to the URL selection page.

Remote Director Training

Remote Director Home



In addition to the information fields that the home screen provides access to, the three main functions of Remote Director are (left to right):

1. Manage Account – Here you can set your preferences and reset your password.
2. Create Project - With permission, you can name project folders and add files.
3. View Projects - Opens your project list.

Remote Director Training

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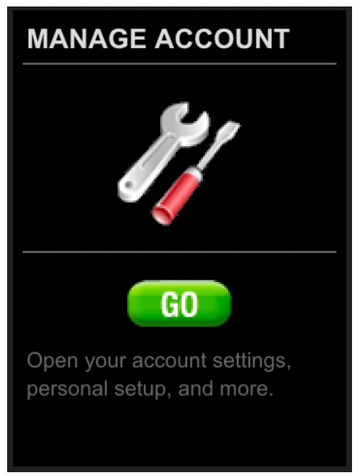
Training Modules

- Terminology
- System Architecture
- Lighting – Environment
- Server Installation
- Application Installation
- Server Administration
- Manage Account - Create Projects - Project List
- The Viewer/Calibrator/Tools – Navigation
- Hotfolders
- Support

Remote Director Training

▶ Manage Account

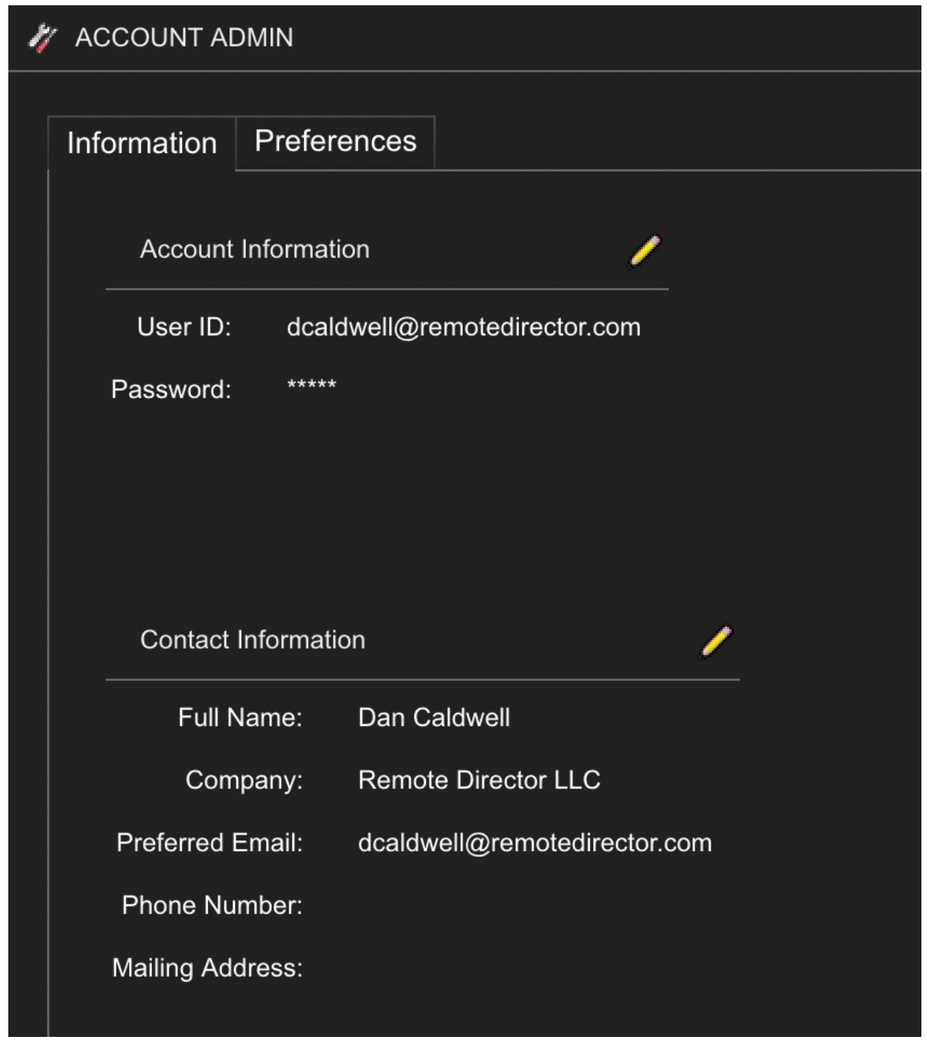
To set user information and workstation preferences, click “go” under Manage Account. User information preferences are stored in the server and will be used with your login from any workstation. Workstation preferences stay with the application for the machine you are working on.



The first pencil icon allows the user to reset their password.

The second pencil icon allows you to add a human name and contact information (not required).

A name identifies your annotations and approvals with your human name instead of email address.

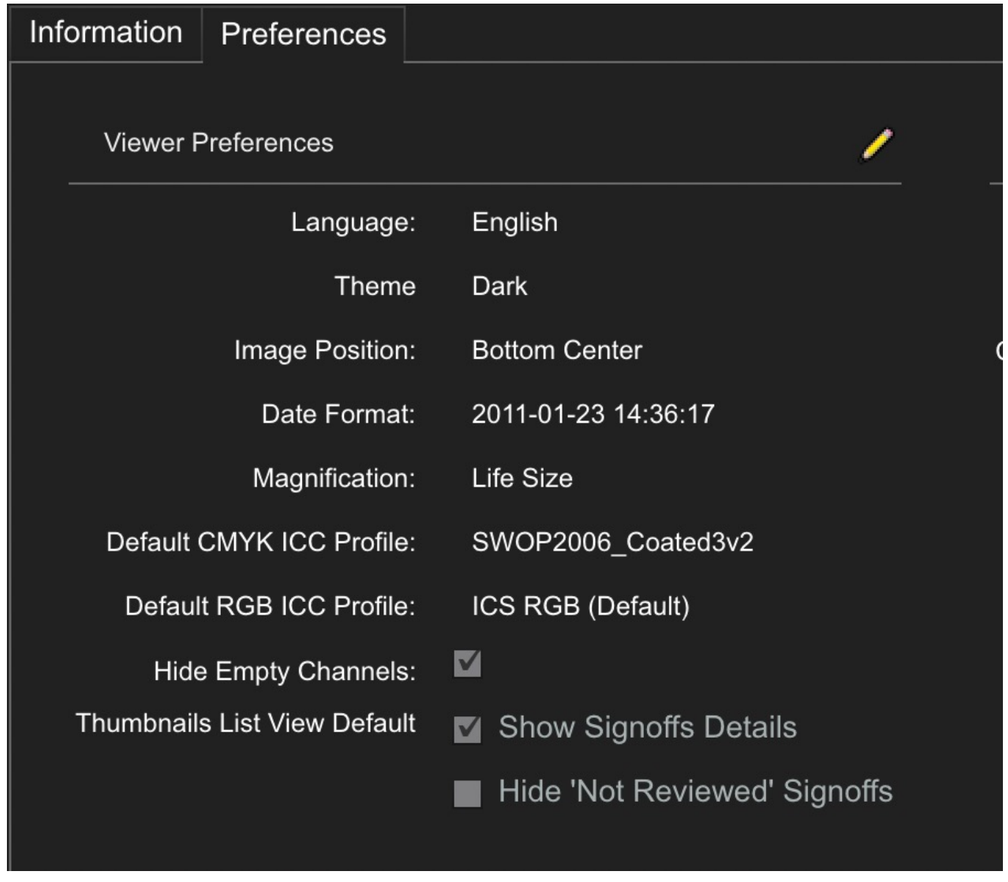


Remote Director Training

▶ Manage Account

The pencil icon allows you to set your personal preferences - to be used from any workstation you log into.

- ❑ Select your language
- ❑ Select Dark or light theme for UI
- ❑ Select the default position for opening a file larger than the viewing window
- ❑ Choose date format
- ❑ Choose between actual pixels, life size, or fit to viewer for the default zoom when opening files
- ❑ Select your default profiles to be used when creating projects. These will override the server defaults for only your login
- ❑ Hide empty channels will hide blank CMYK channels in a PDF with only spot colors
- ❑ Control what detail you see in the thumbnail list view of projects

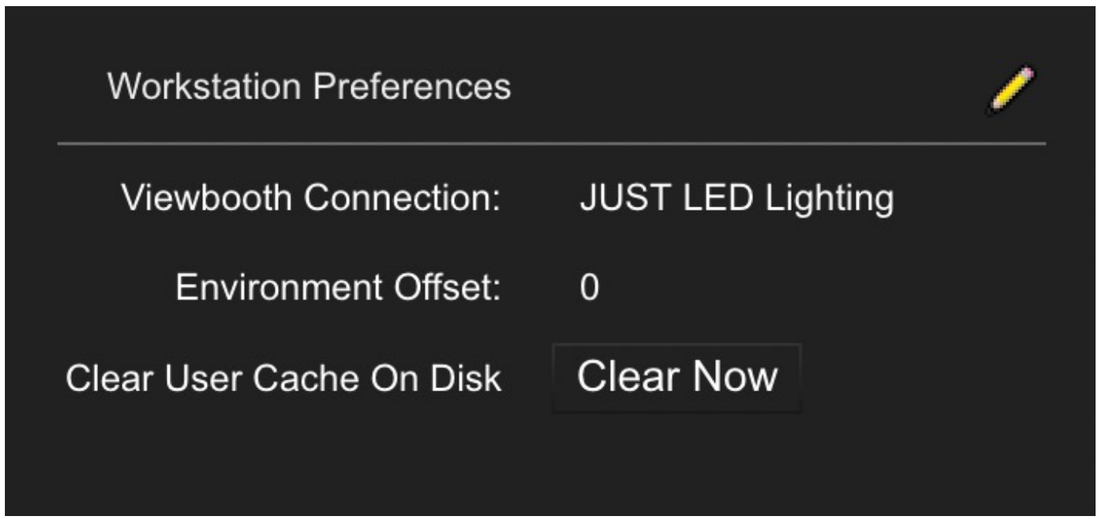


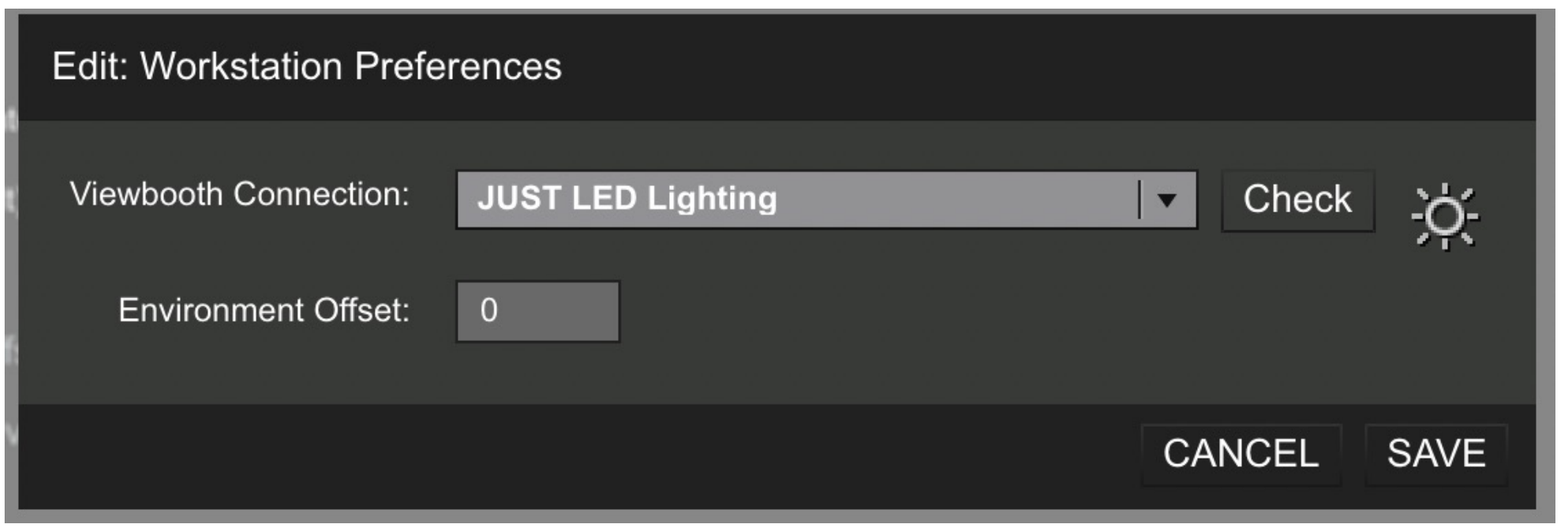
Remote Director Training

▶ Manage Account

The pencil icon allows you to connect to supported lighting so the application can set the luminance to match the screen. Clear cache clears local cache of data from server. This is the same as the clear history on the splash screen.

The pencil icon opens a selection to choose the supported lighting. Environment Offset can be entered with a number + or – to adjust the lighting based on the ambient conditions.



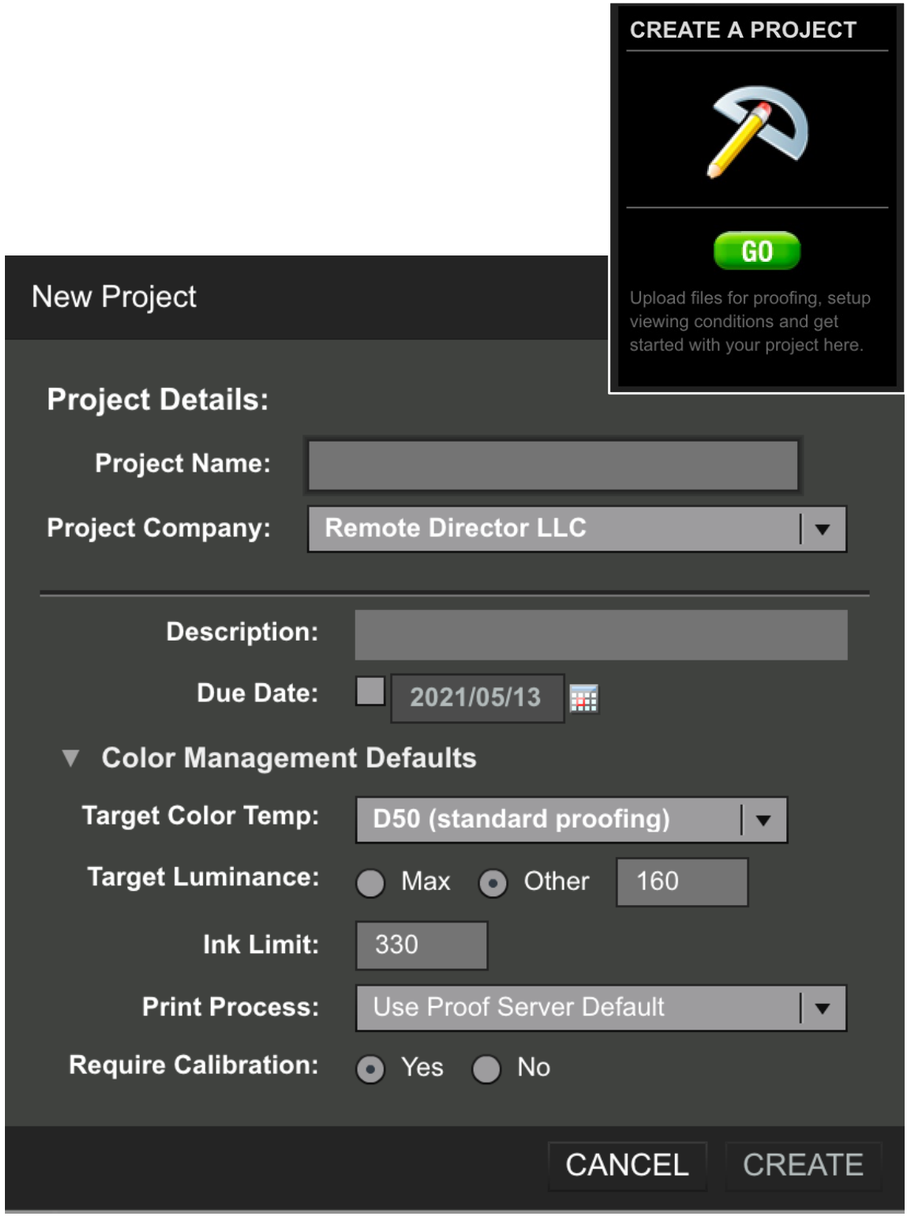


Remote Director Training

▶ Create Project Dialogs

To create a new project in Remote Director:

1. Click on “Create a Project” from the application’s home screen.
2. Enter the Project Name.
3. If you want to route the job between viewers (an option), a due date must be selected.
4. Click on “Create” - all other settings will come from server or user defaults.
5. By opening the disclosure arrow, you can override the defaults and select unique settings for this project by changing them before you click Create.

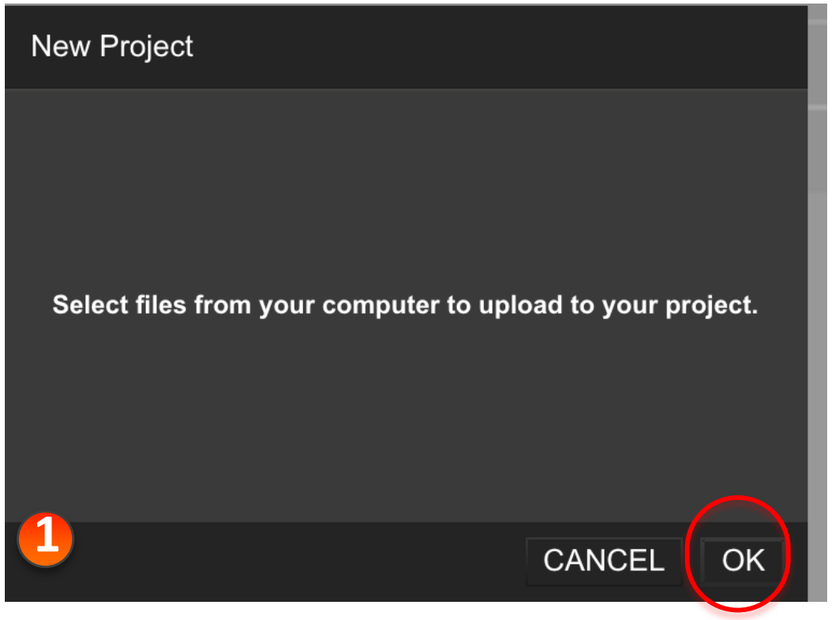


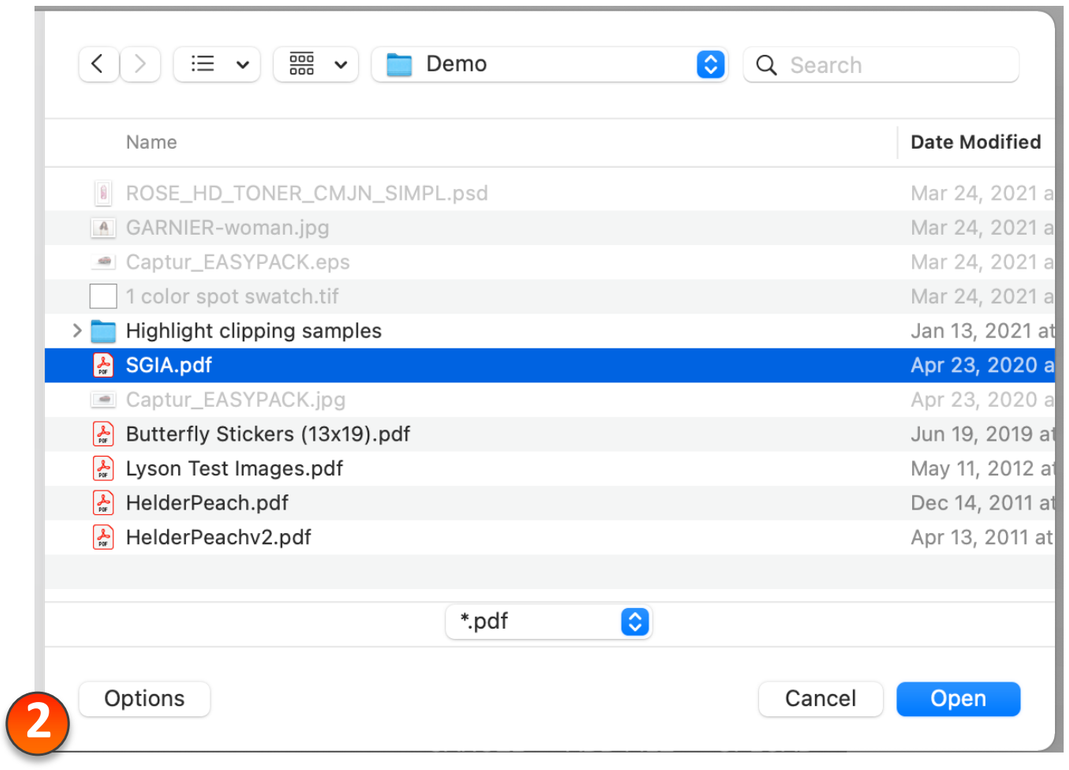
Remote Director Training

▶ Add PDF File

To add files to your project:

1. Click on “Create a Project” from the applications home screen and select OK in this dialog.
2. From the finder, select the files you wish to add. default file type is PDF.



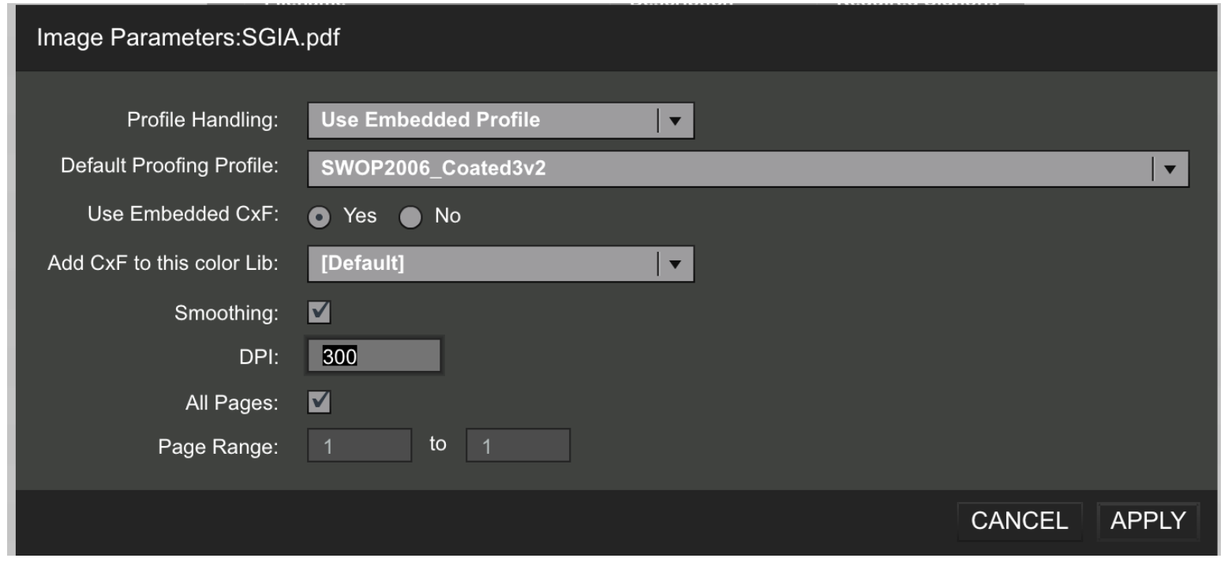


Remote Director Training

▶ PDF Files

Select your RIP settings:

1. Profile Handling - Select between using embedded, default, or convert to spot (convert CMYK to spot colors).
2. Default Profile - Profile to be used instead of embedded or server default.
3. CxF handling – To use the PDF's embedded CxF values for spot channels, select the color library where you want to store them.
4. DPI - This defines the pixel size of the proof image. The default is 300 which is good for most work. If you have very small fonts you may want to increase the DPI, so you don't see jaggies when zoomed in. The higher the DPI, the larger the file size of the proofing image.
5. Page Range – Use is the same as a print dialog for a multi-page PDF.

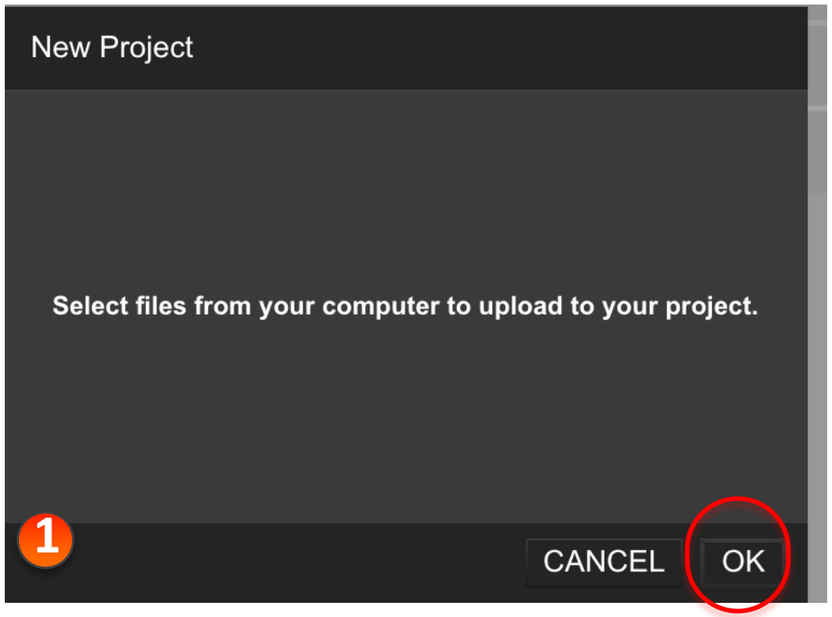


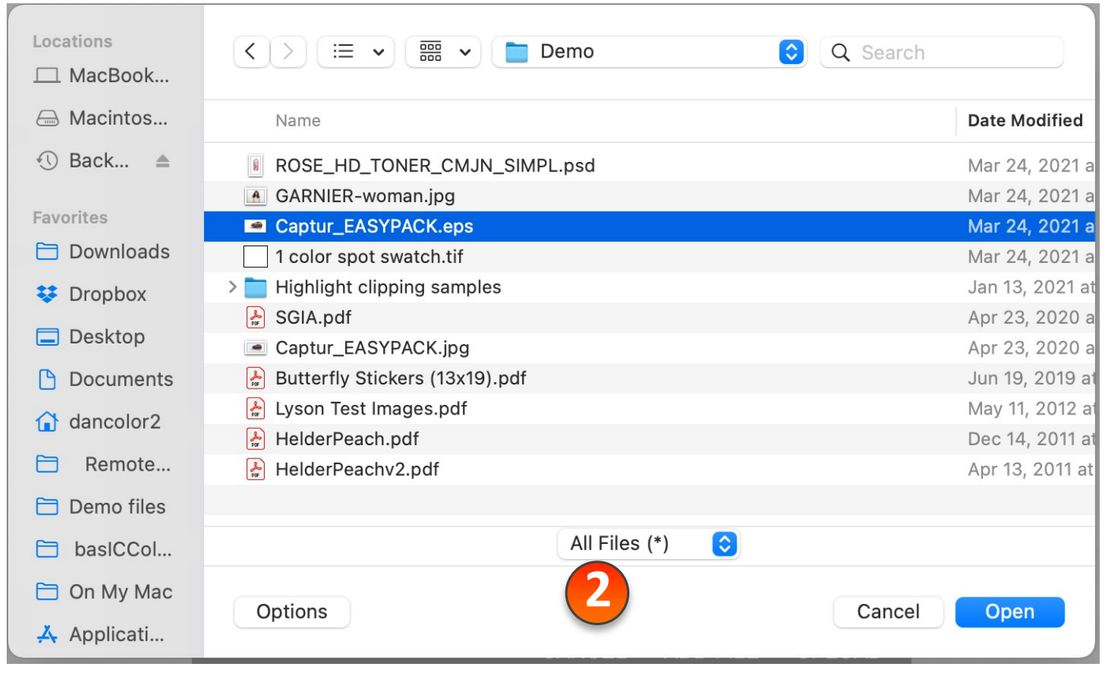
Remote Director Training

▶ Add Raster Files

To add files to your project:

1. Click on “Create a Project” from the application home screen and select OK in this dialog.
2. From the finder, switch from PDF to all, then select the files you wish to add.

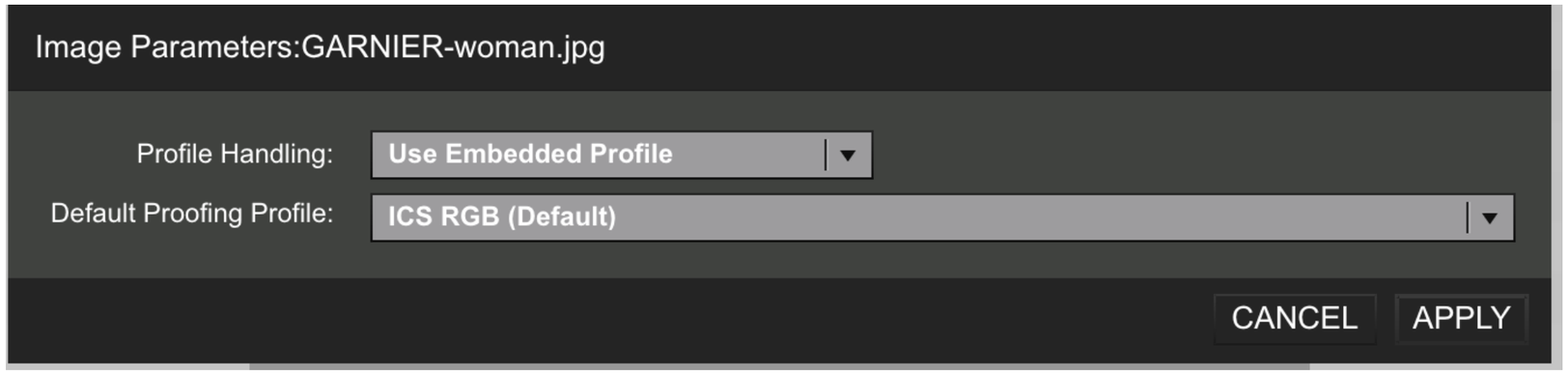




▶ Add Raster Files

Select your profile handling:

1. Profile Handling - select between using embedded or default.
2. Default Profile - Profile to be used instead of embedded or server default.



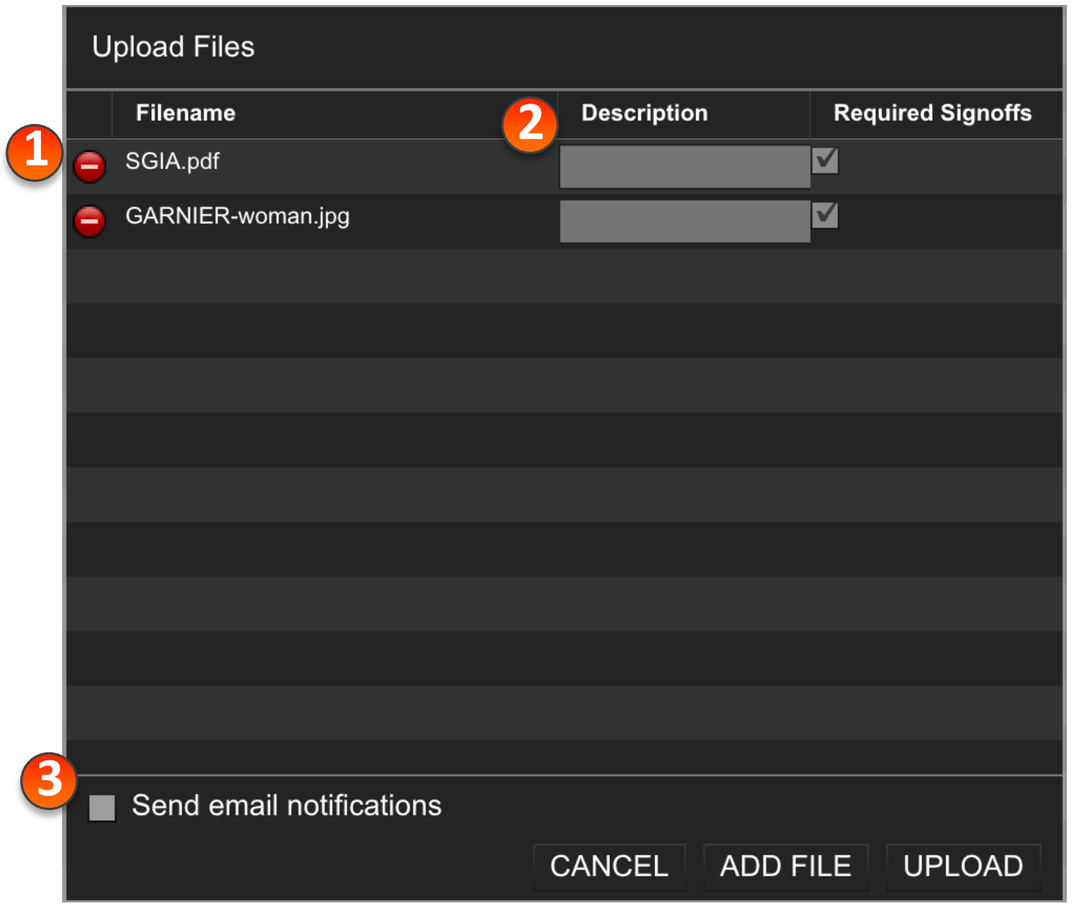
Remote Director Training

▶ Uploading files

All selected files will list in the upload panel:

1. You can delete from list.
2. Enter a description that can be used for search in the project list.
3. Send emails to all who are invited to the project on creation. These can be triggered by signoff if you are routing the project between viewers.

Once you select upload, the new project is highlighted in the project window.



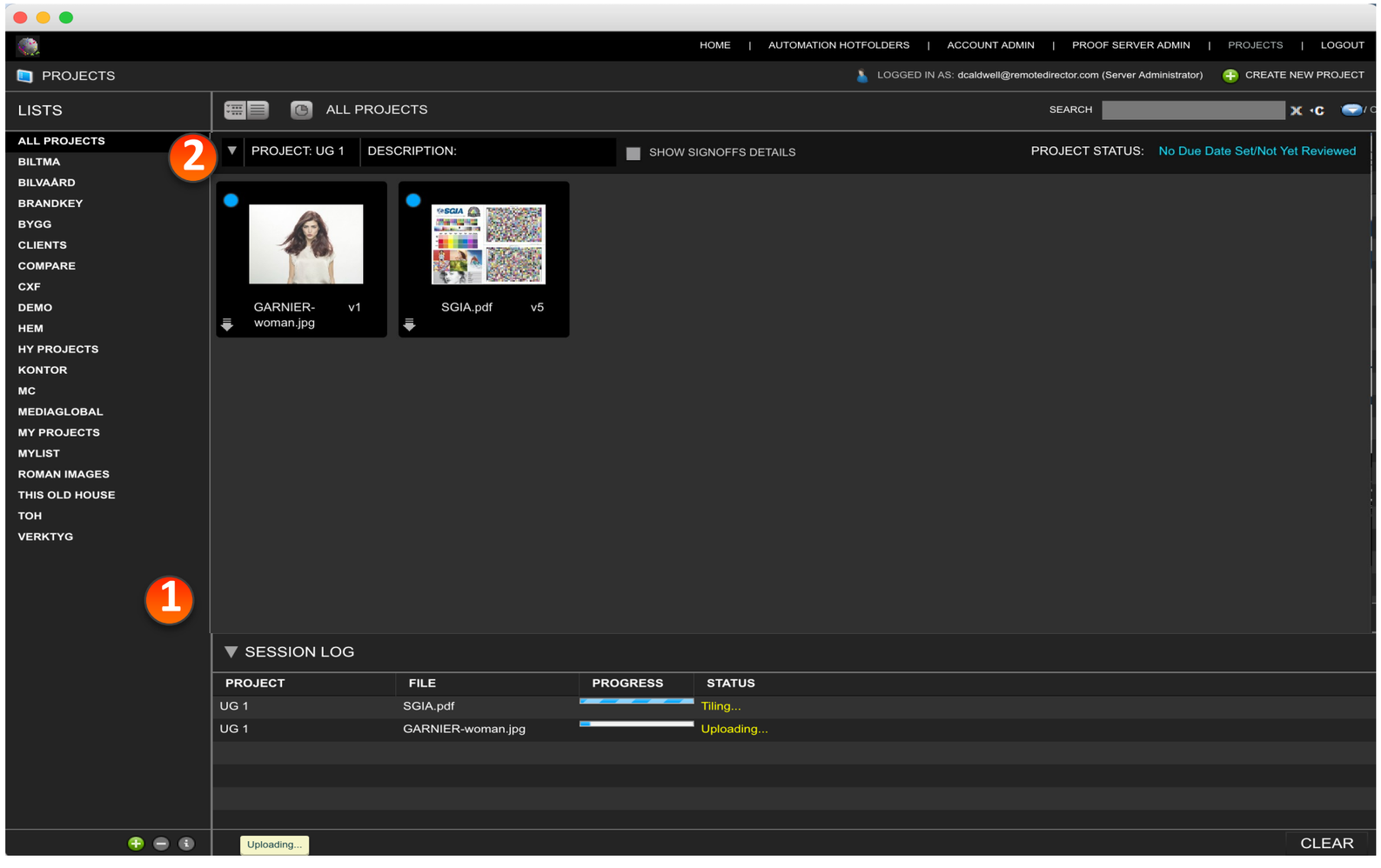
Remote Director Training

▶ Status of upload

To check the status of the upload:

1. Open the Session Log disclosure arrow to monitor upload progress.
2. Thumbnails will appear when upload, ripping, and tiling has been completed.

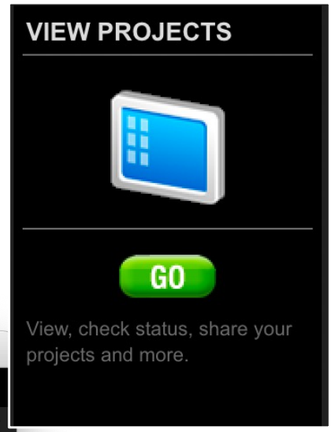
The session log clears when the application quits or by selecting the clear button.

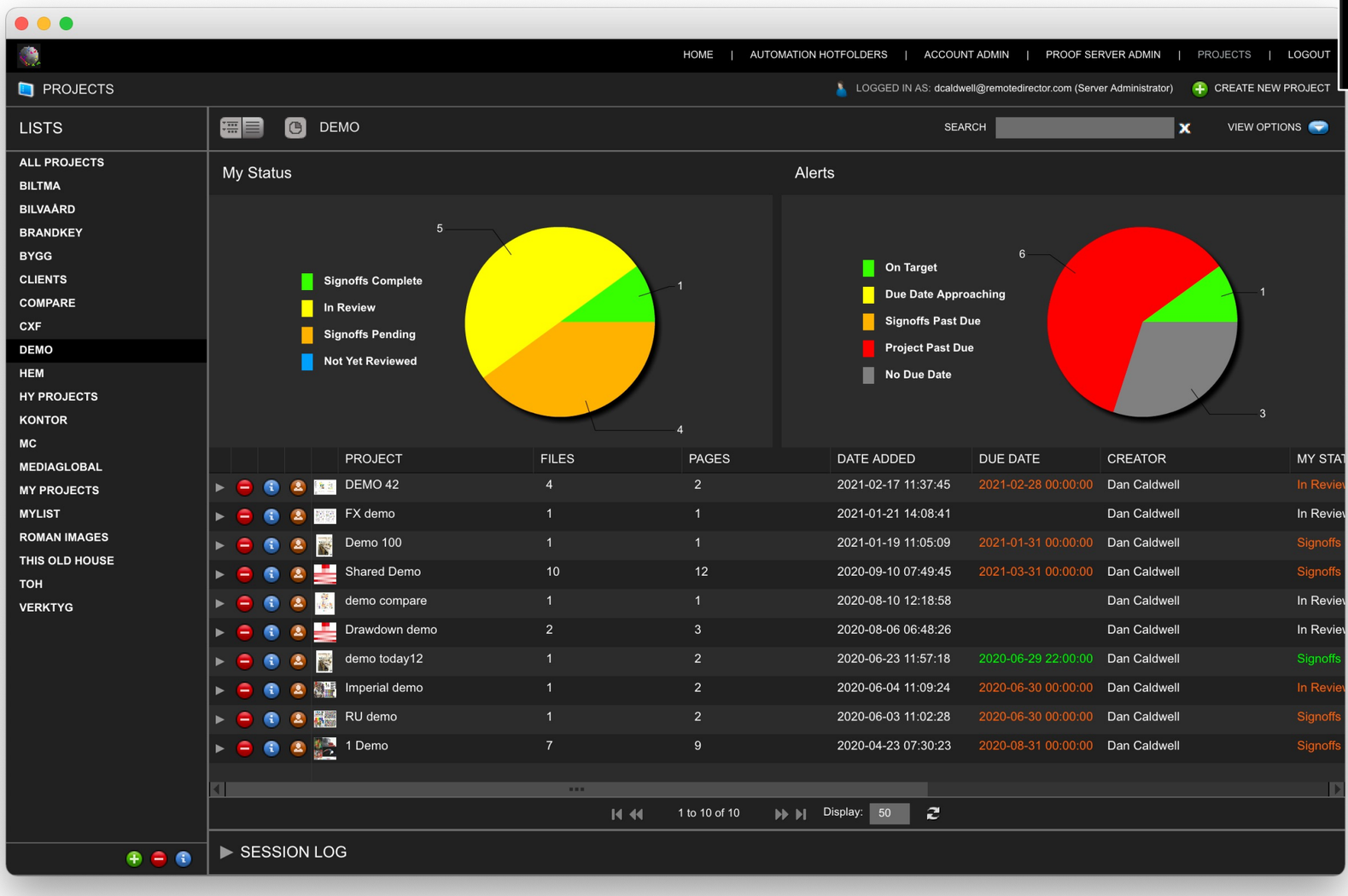


Remote Director Training

Project View

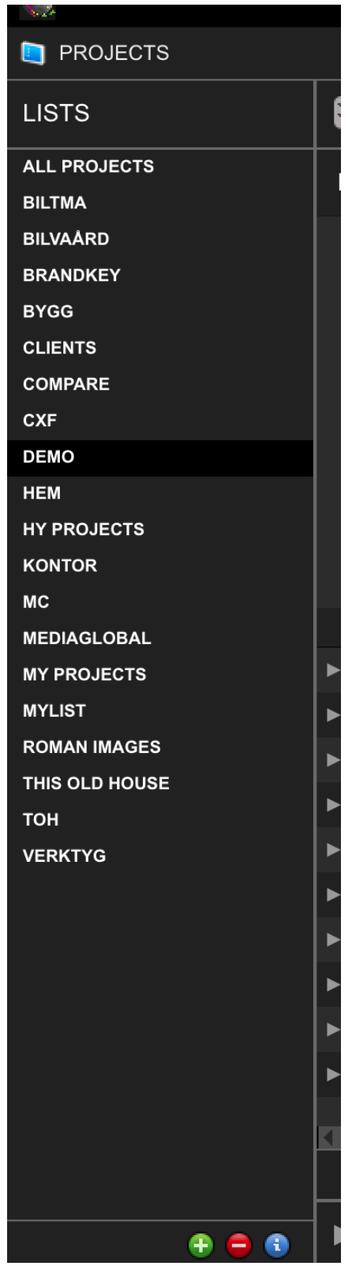
Select View Projects from the home screen to open a list of all projects you've created or have been invited to.





Remote Director Training

Lists



Lists are filters to limit the number of projects in your in your view. Software ships with two defined lists:

1. All projects - Projects you've created and the ones you have been invited to.
2. My List - Only projects you've created.

The "+" button at the bottom allows you to create a custom filter for your needs. Custom filters can be only yours or shared with others in your company or other companies.

The example on right shows a demo projects filter you can build based on date to show today's work, what's past due, etc.

The "i" shows the criteria for the selected list and the "-" lets you delete all but the two defaults.

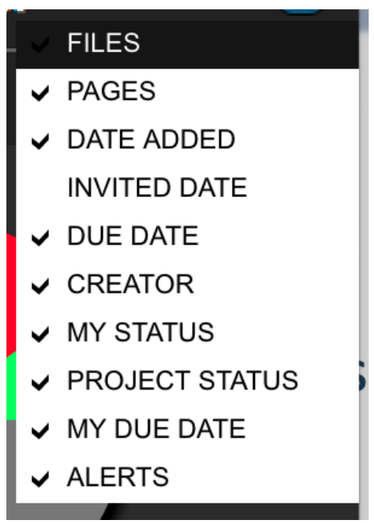
The share filter allows others in the company to see and use.

Remote Director Training

▶ Sort and search View

Icons from left to right:

1. When selected (as in example), the list shows the Project folders.
2. If selected, the list shows the files within all the project folders.
3. Toggles list status pie charts on and off to provide more room for your list.
4. Name of currently selected project in the list.
5. Search field to find projects or files.
6. X - Clear search field.
7. View Options - defines columns you will see in your list.

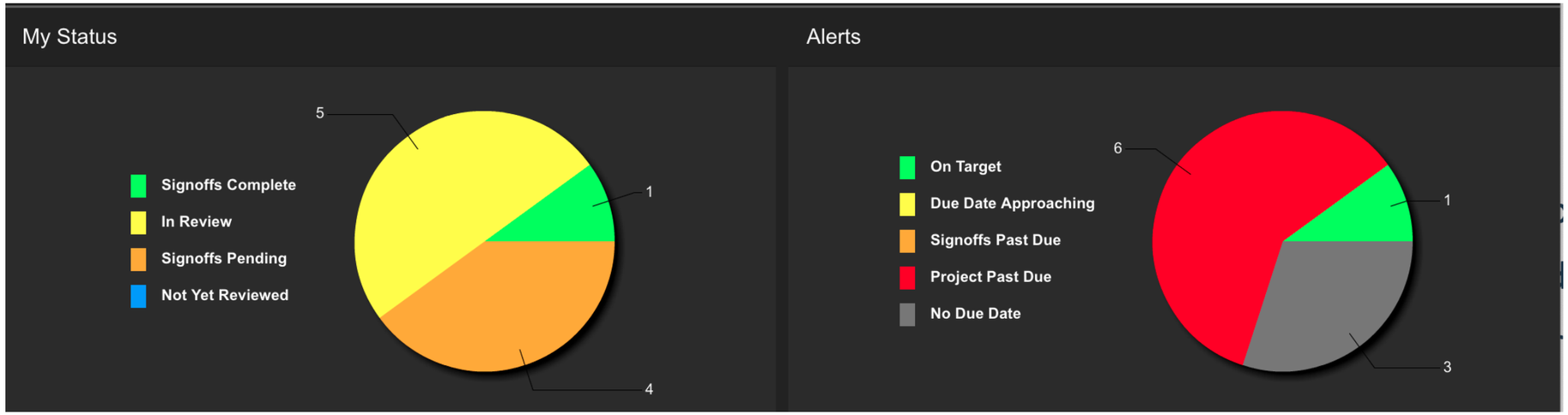


Remote Director Training

Status Pie Charts View

My status - your status in the current list selected and the Alerts show the number of projects that need attention.

Clicking on any piece of the pie will shorten the list to those projects. For example, if you click in the red past due area, the list would be filtered to just those 6 projects.



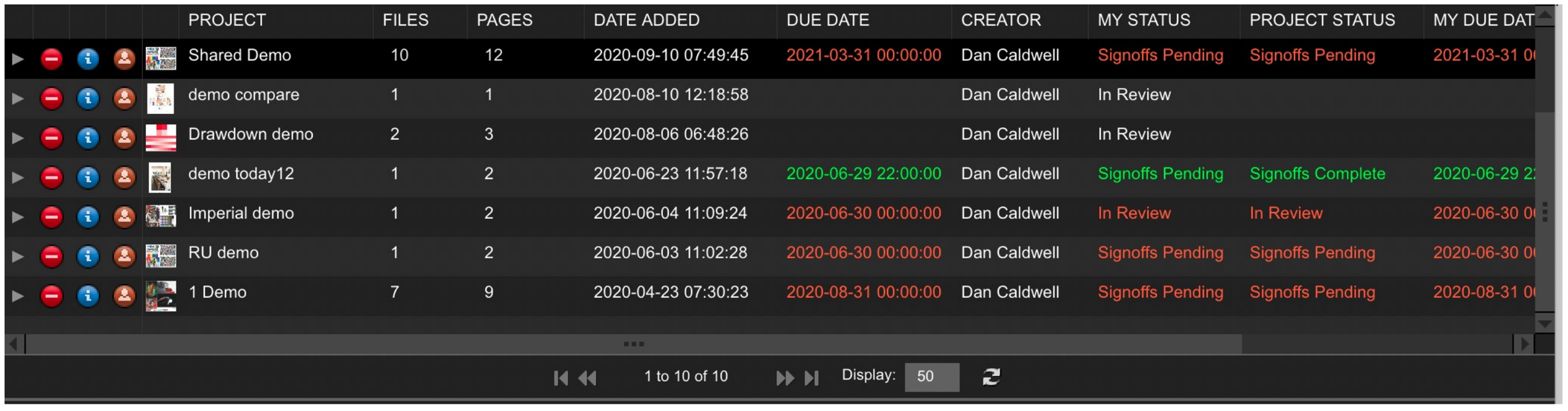
Remote Director Training

▶ Project List View

Columns from left to right

1. The disclosure arrow opens the folder to show thumbnail view.
2. Delete project.
3. Get info on project.
4. Invite viewers.
5. First file (small icon).
6. Project name.

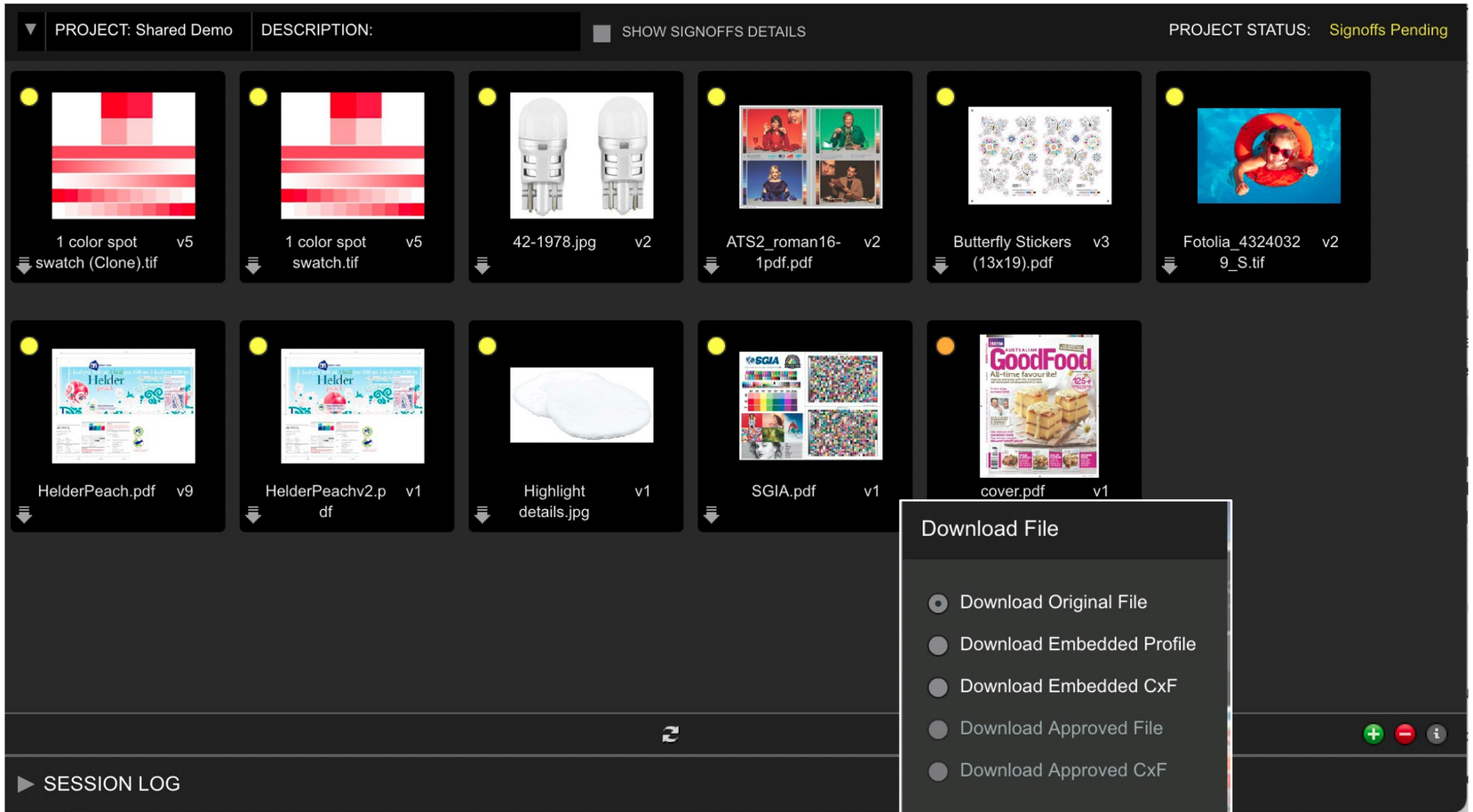
The rest of columns are what you selected in view options. A click on any heading will sort the list based on that column. The arrows at the bottom let you navigate through pages if your list is longer than what can be displayed. The circular arrows will refresh the list to show new additions since you first opened the session.



Remote Director Training

▶ Project Thumbnail View

Opening the disclosure arrow next to the project opens the folder in a large thumbnail view. Each Thumbnail shows a color LED that corresponds to the file's status. Blue - never opened, Yellow - in process, Orange - signed off by at least one viewer, Red - rejected by at least one viewer and signed off by all, Green - approved by all viewers. "+" / "-" at bottom allows you to add or delete files.

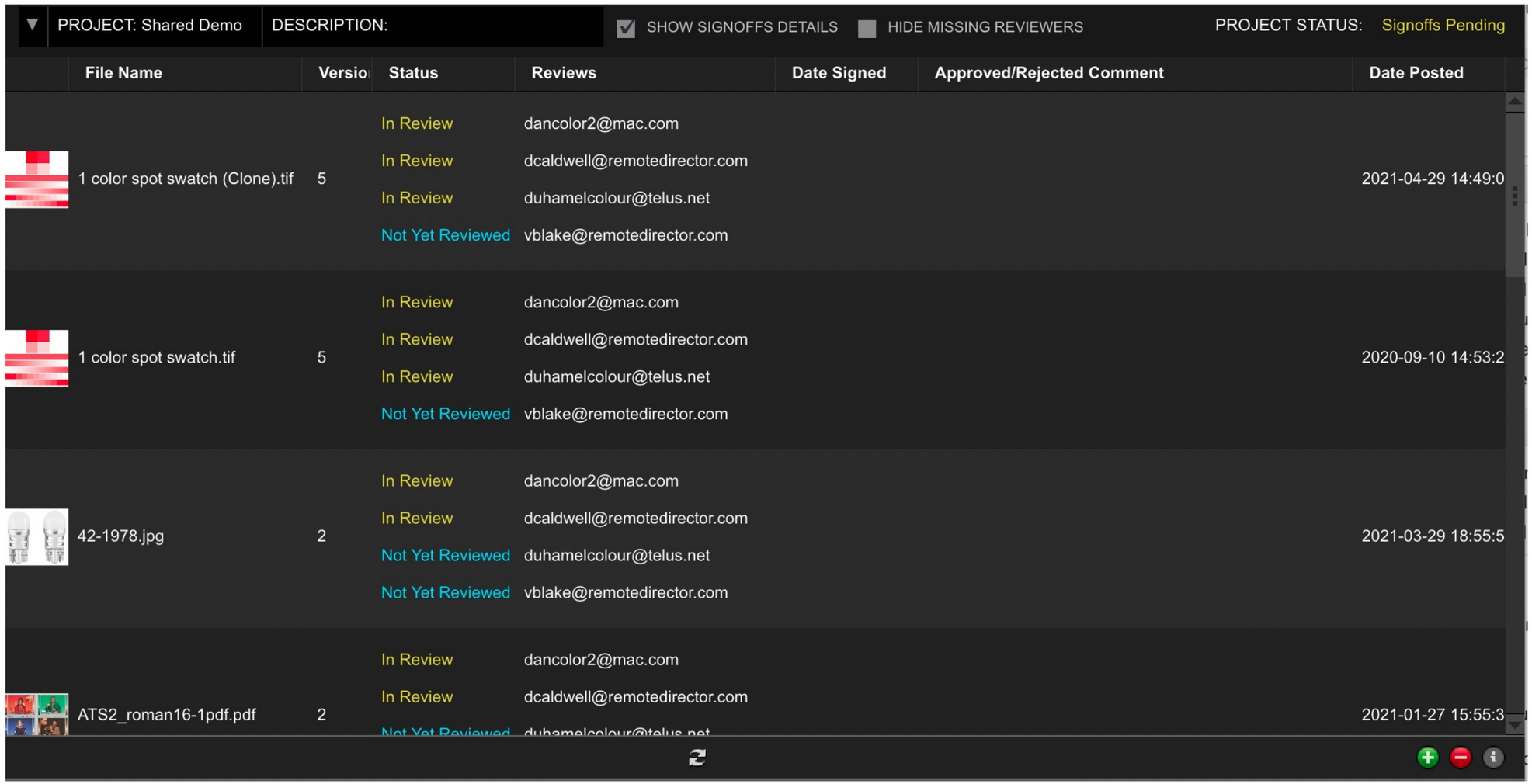


The download arrow opens a menu of download options. This can be used to deliver the approved file to your vendor. You can embed the CxF values of spot colors into the approved file.

Remote Director Training

▶ Project Thumbnail View

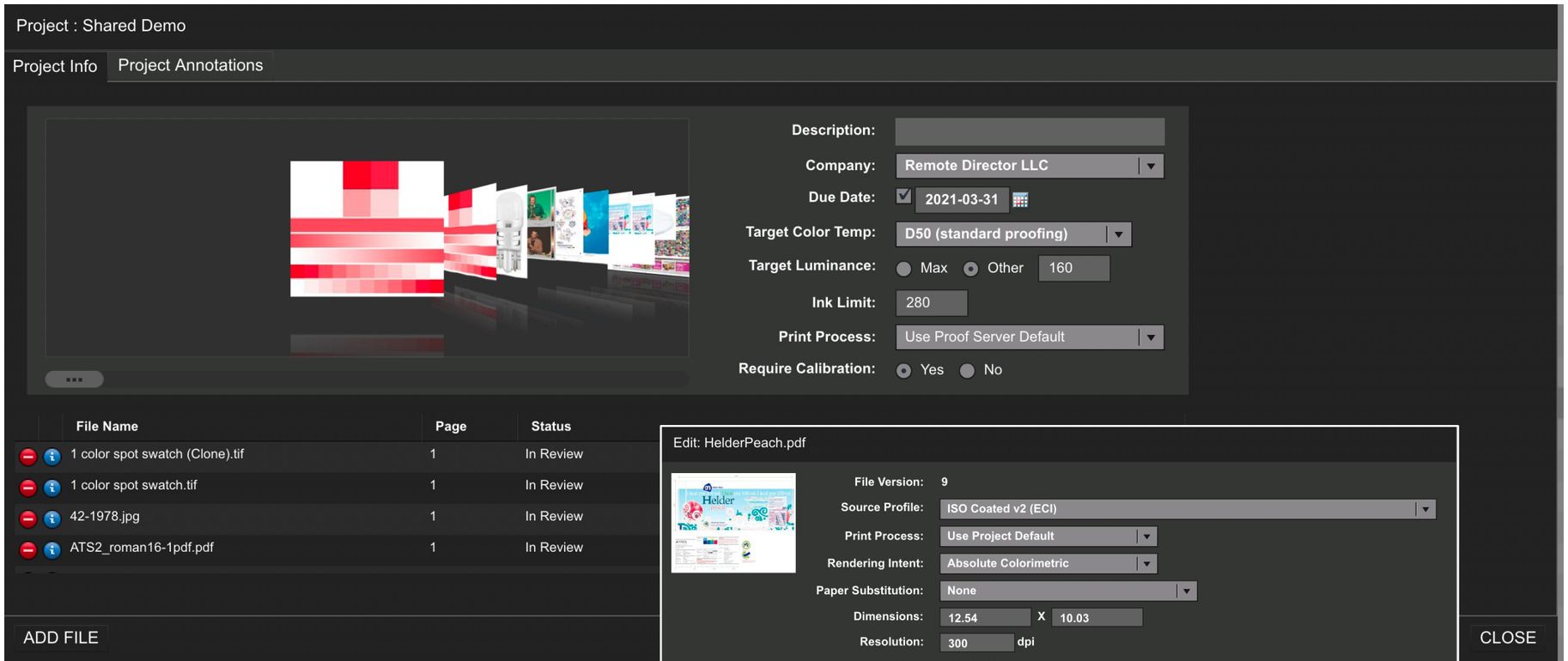
Clicking the “Show Signoff Details” in the menu bar reformats to smaller thumbnails along with the viewers status. This view is designed for customer service to get a quick view of the project, status of each participant and who needs to sign next.



Remote Director Training

Project Information View

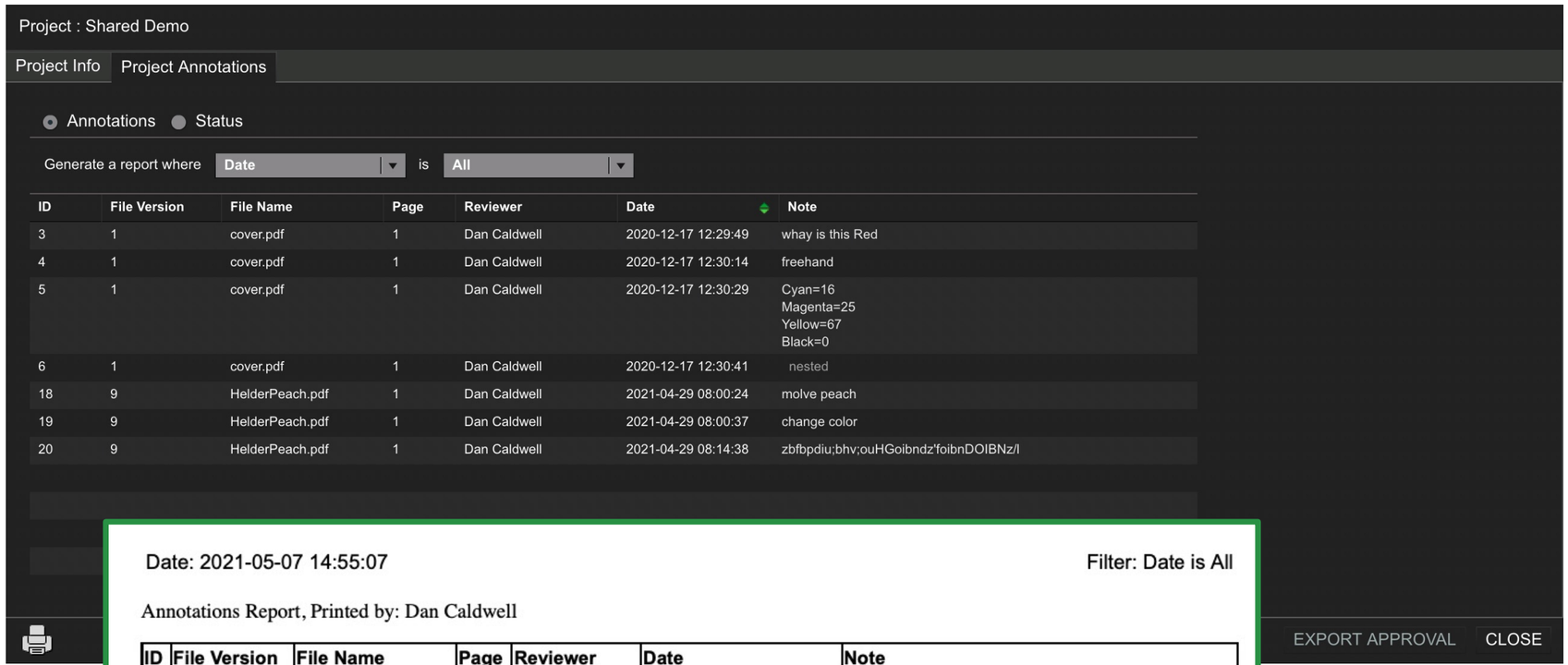
In the Project Info tab, the blue “i” button will provide information and annotations report on the project along with a coverflow and list view of the files. The “-” allows you to delete a file. The “i” provides file level info where the pencil icon opens the dialog box to edit the file level settings. The project settings can also be edited by users with permission. The add file button opens the finder menu to select additional files for the project such as a correction version.



Remote Director Training

▶ Project Information View

The Project Annotation tab shows all the annotations and signoff status in the project. The drop-down menus allow you to filter the list by date and/or users. The print icon will generate a web page that can be printed and export will save a .csv file for use with MIS systems. Selecting the status radio button reports the duration of a user's activity between invite and signoff.



Date: 2021-05-07 14:55:07 Filter: Date is All

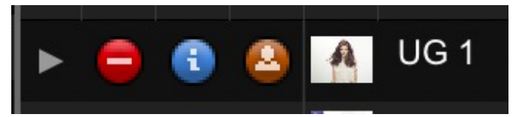
Annotations Report, Printed by: Dan Caldwell

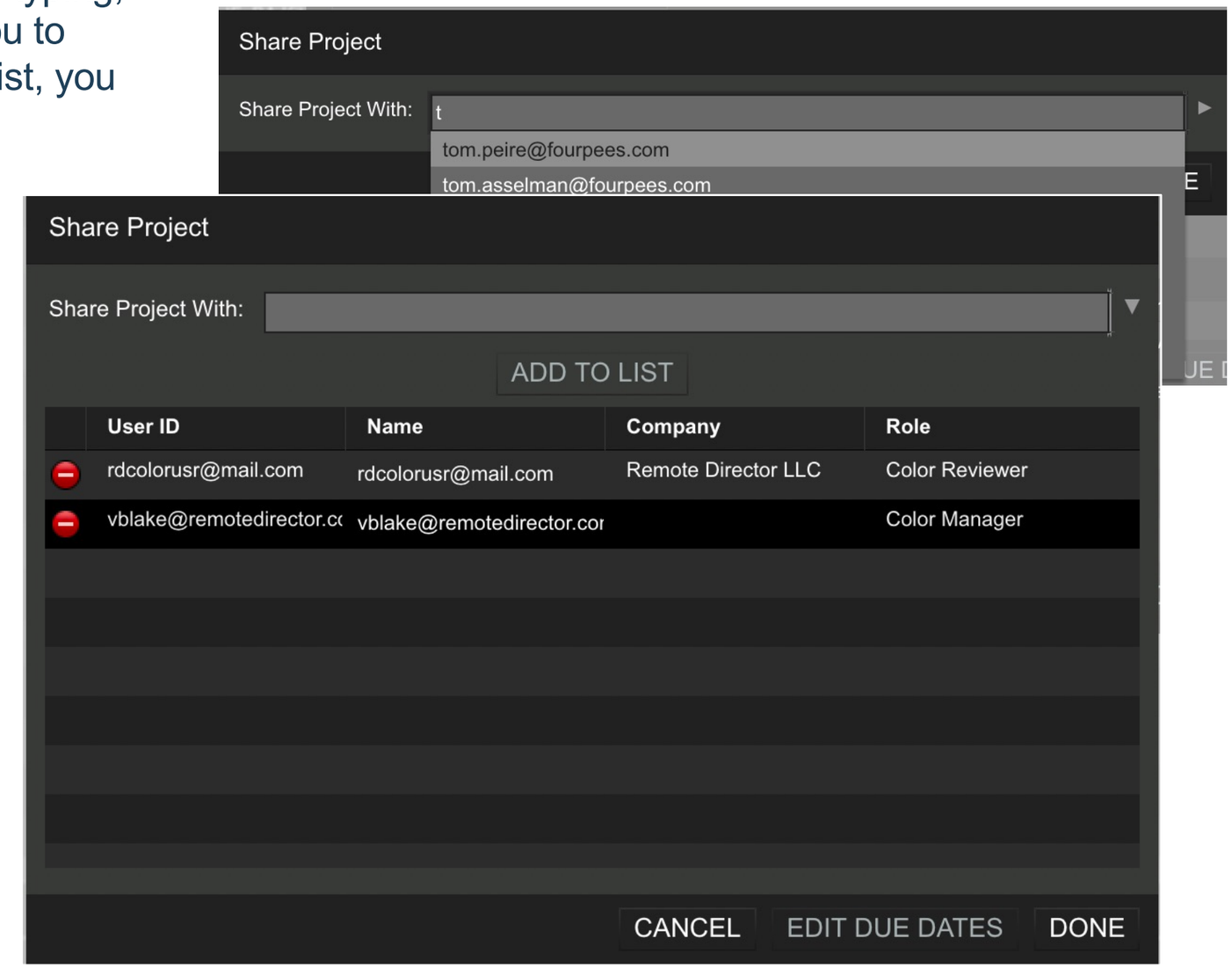
ID	File Version	File Name	Page	Reviewer	Date	Note
3	1	cover.pdf	1	Dan Caldwell	2020-12-17 12:29:49	whay is this Red
4	1	cover.pdf	1	Dan Caldwell	2020-12-17 12:30:14	freehand
5	1	cover.pdf	1	Dan Caldwell	2020-12-17 12:30:29	Cyan=16 Magenta=25 Yellow=67 Black=0
6	1	cover.pdf	1	Dan Caldwell	2020-12-17 12:30:41	nested
18	9	HelderPeach.pdf	1	Dan Caldwell	2021-04-29 08:00:24	molve peach
19	9	HelderPeach.pdf	1	Dan Caldwell	2021-04-29 08:00:37	change color
20	9	HelderPeach.pdf	1	Dan Caldwell	2021-04-29 08:14:38	zbfbpdiu;bhv;ouHGoibndz'foibnDOIBNz/l

Remote Director Training

▶ Invite Viewers

Select the brown user icon just before the project thumbnail in the list to invite viewers to a project. As you begin typing, previous names will appear for you to select from. If you select Add to List, you can add multiple names including workgroups.





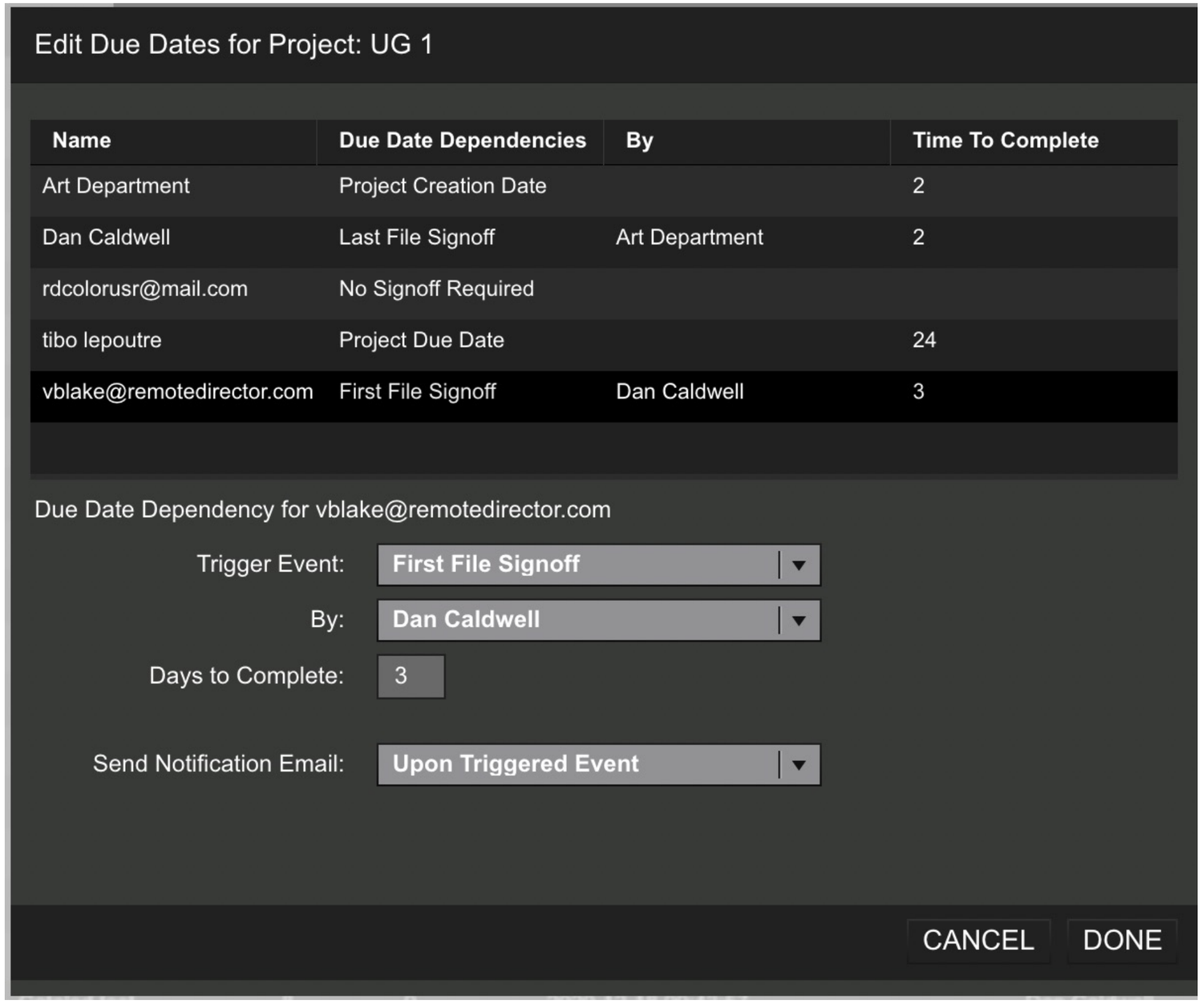
Remote Director Training

▶ Routing Project

Each viewer and workgroup can be assigned an independent due date based on the project due date, creation date, or a previous viewer's status.

Any member of a workgroup can sign off for the entire group and the file is locked.

Emails to invite the viewers can be sent all at once or upon previous viewers status change to trigger the email.



Remote Director Training

File View

Switching to the file list icon above the pie charts will show all the files in your list and add a "Project" as a column in the list view.

	FILE NAME	PROJECT	PAGES	DATE ADDED	VERSION	PROJECT STATUS	MY DUE DATE	MY ST
	Highlight details.jpg	Shared Demo	1	2021-03-29 11:56:39	1	Signoffs Pending	2021-03-31 00:00:00	In Revi
	42-1978.jpg	Shared Demo	1	2021-03-29 11:55:56	2	Signoffs Pending	2021-03-31 00:00:00	In Revi
	Getty_FC_GIG06.p1 (30).pdf	DEMO 42	1	2021-03-04 08:53:39	6	In Review	2021-02-28 00:00:00	In Revi
	conagra-05.pdf	DEMO 42	1	2021-02-17 11:39:57	5	In Review	2021-02-28 00:00:00	In Revi
	Fotolia_43240329_S.tif	Shared Demo	1	2021-01-27 09:12:32	2	Signoffs Pending	2021-03-31 00:00:00	In Revi
	ATS2_roman16-1pdf.pdf	Shared Demo	1	2021-01-27 07:55:36	2	Signoffs Pending	2021-03-31 00:00:00	In Revi
	Butterfly Stickers (13x19).pdf	FX demo	1	2021-01-21 14:10:52	5			In Revi
	Getty_FC_GIG06.p1 (30).pdf	Demo 100	1	2021-01-19 11:06:42	5	Signoffs Pending	2021-01-31 00:00:00	Signoff

1 to 27 of 27 Display: 50

Remote Director Training

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Training Modules

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- The Viewer/Calibrator/Tools – Navigation
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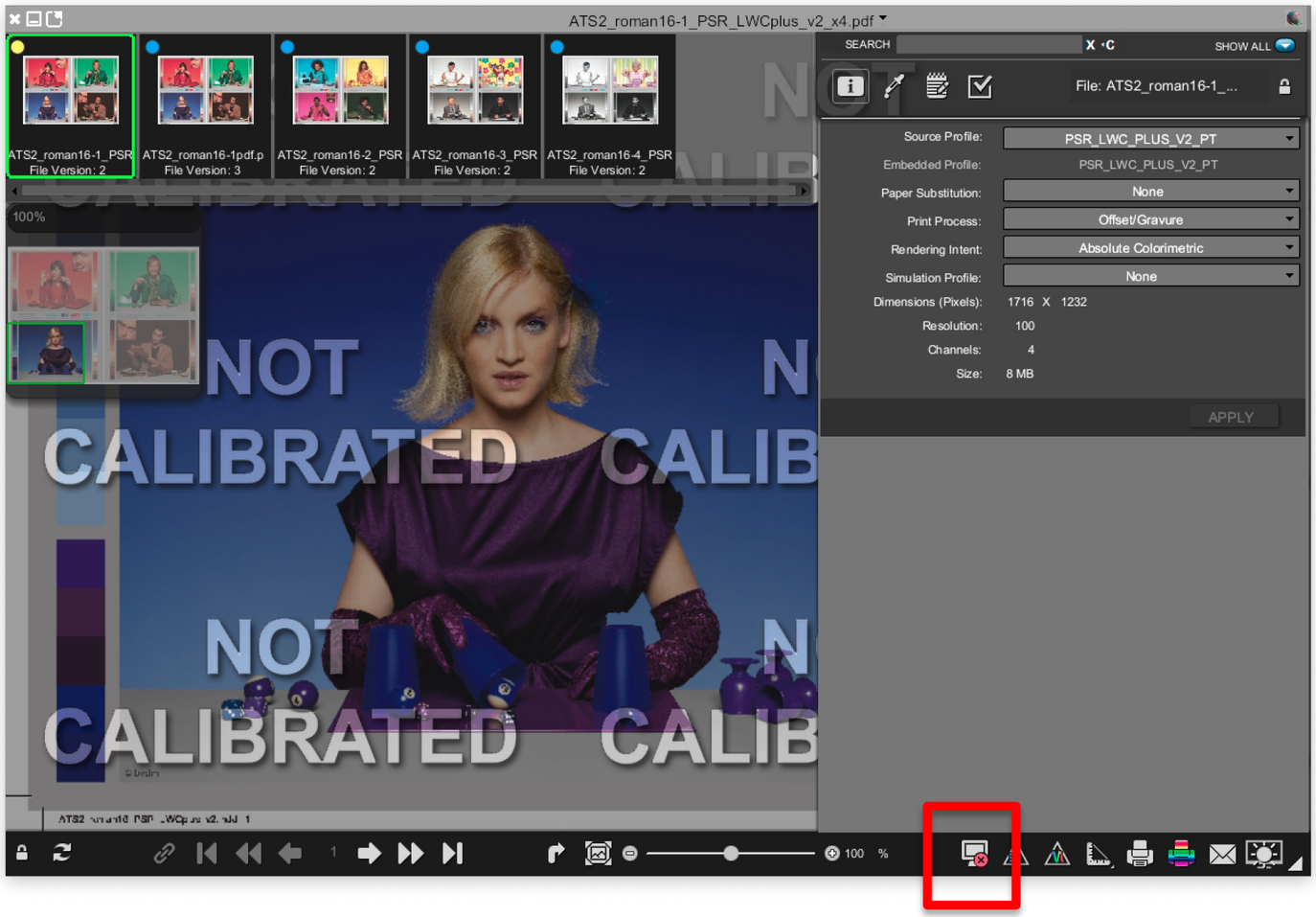
- Support

Remote Director Training

The Viewer

Clicking the project name or icon in the list will launch the viewer. Size and position of the viewer is remembered from the previous session.



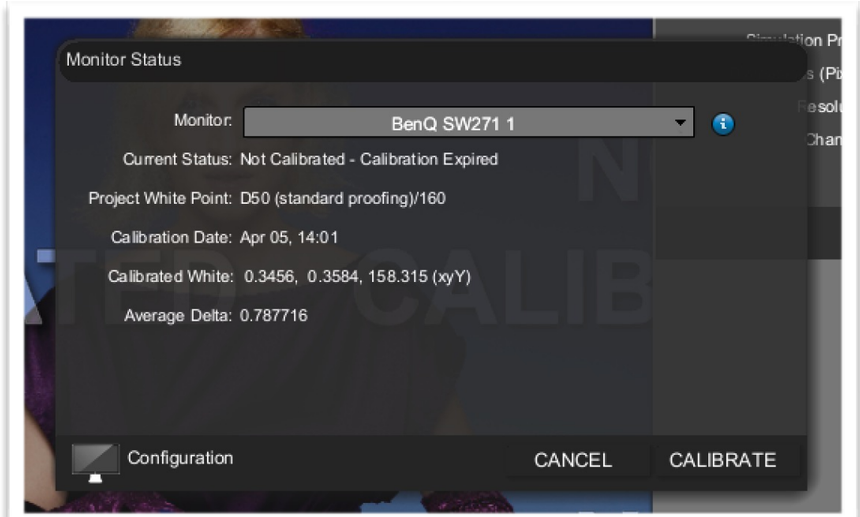
The Not Calibrated mask and the red x on the monitor icon in the toolbar indicate the display's current calibration status is out of date or does not meet the project requirements.

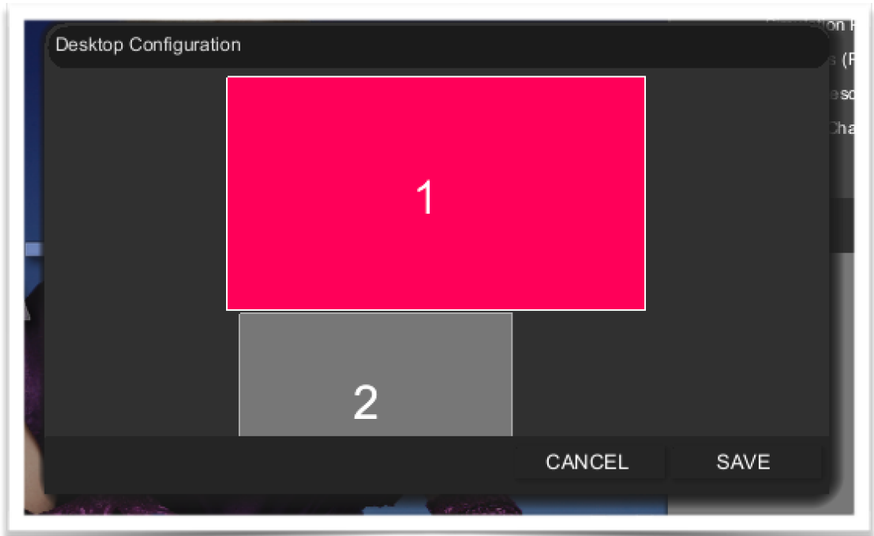
Remote Director Training

Calibrate the display

Select the calibrate icon on the tool bar.

1. The software detects and shows the display name and current status. The status and other info will be blank if it is the first time the monitor is calibrated with Remote Director.
2. Select Configuration if you are using multiple displays and choose the display you wish to calibrate. Be sure the OS is set for the two displays at the proper resolutions. Never mirror displays. (more detail on multiple displays follows).
3. Select “Calibrate”.

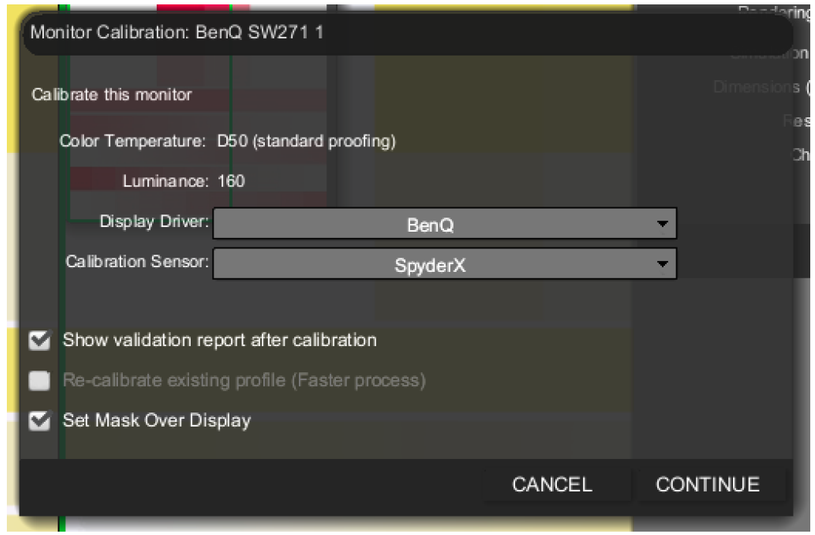




Remote Director Training

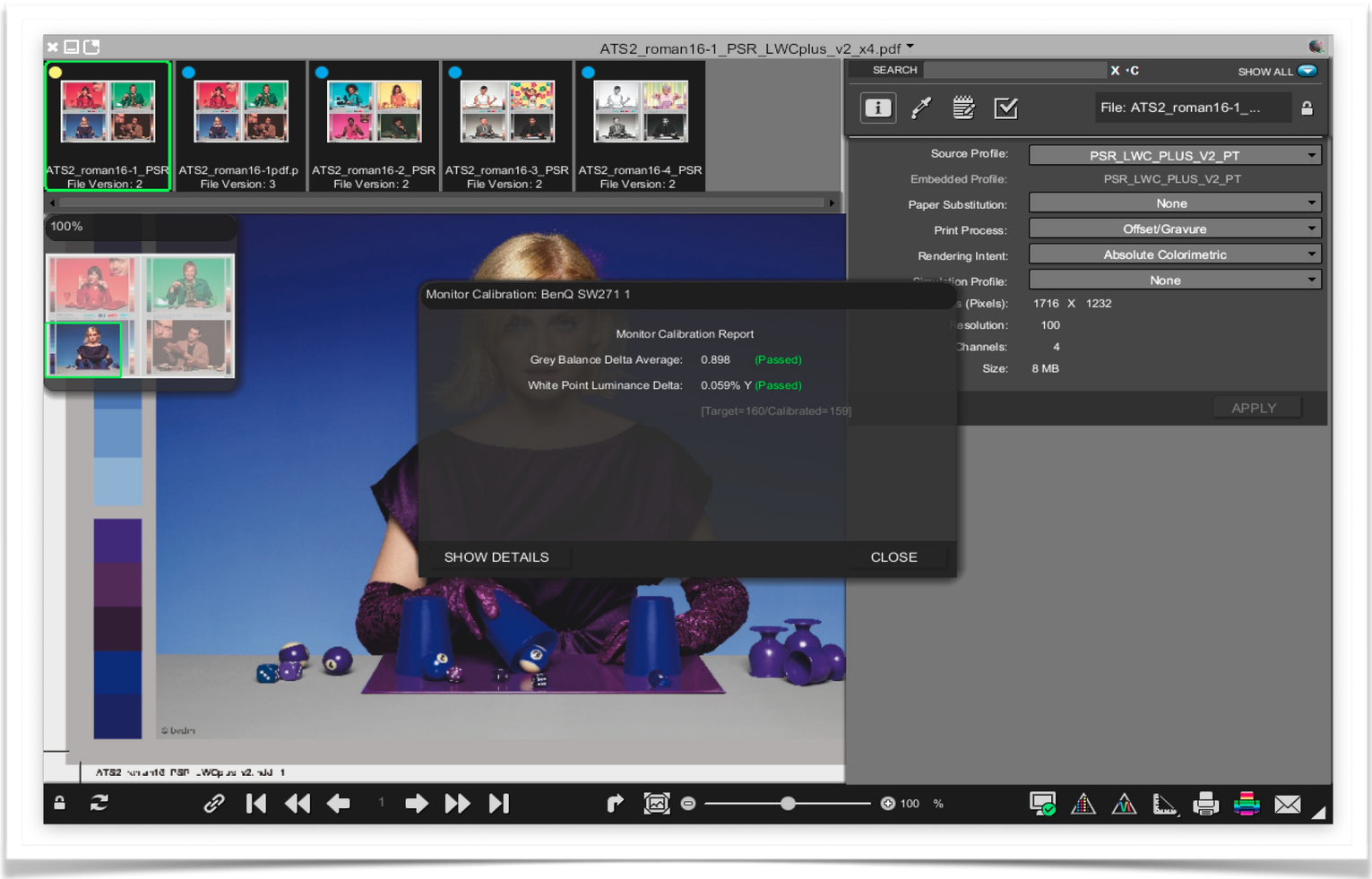
Calibrate the display

1. Select your display driver from the drop-down menu for your display model or select “other”.
2. Select your instrument from the drop-down menu and click continue.
    1. Show Validation Report will display the pass / fail data on white point and grey balance conformity to the ISO specifications for soft-proofing at the end of calibration.
    2. Re-calibrate existing profile will assume the display was calibrated by Remote Director previously and bypasses many of the iterative measurements for grey balance, making the process faster though less accurate.
    3. Set Mask Over Display will hide the desktop while calibrating
3. Hang the instrument over the image on the screen and select continue. The flashing green icon indicates measuring.



Remote Director Training

Display Verification



When calibration is complete, a report will be presented that shows the results of the grey balance and the white point. A green ”passed” is shown if both are within the ISO tolerance. The uncalibrated mask will disappear, the icon on the toolbar will turn to a green checkmark and other functionality will now be enabled.

Remote Director Training

Display Verification Detail Report

Remote Director Client **Validation Report**

General Results

Report Summary	**Failed**	2021-04-29T18:10:30Z
Target	5001K	
Achieved Temperature	4835K	
Display:	Built-in Retina Display 2	
Measuring device:	SpyderX	

Test	Measured	Status
Average Î”E	13.38	Failed
Maximum Î”E	37.89	Failed

Target			Measured			
Color	Index	RGB	L*a*b*	L*a*b*	xyY	Î”E
	0	255 255 255	100.00 0.00 0.00	100.00 1.38 2.12	0.3508 0.3608 294.58	2.78
	1	241 241 241	94.90 0.00 0.00	94.28 0.77 -0.73	0.3456 0.3567 253.12	1.38
	2	228 228 228	89.80 0.00 0.00	88.82 0.68 -3.27	0.3412 0.3522 217.38	3.24
	3	216 216 216	84.71 0.00 0.00	84.14 -0.13 -2.43	0.3412 0.3541 189.54	2.34
	4	203 203 203	79.61 0.00 0.00	79.69 -0.17 -0.18	0.3451 0.3583 165.33	0.32
	5	190 190 190	74.51 0.00 0.00	75.71 -1.62 2.70	0.3481 0.3655 145.59	3.47
	6	171 171 171	67.06 0.00 0.00	66.37 0.87 4.29	0.3566 0.3671 105.46	4.11
	7	149 149 149	58.82 0.00 0.00	39.71 18.33 -13.49	0.3509 0.2919 32.62	26.19
	8	128 128 128	50.20 0.00 0.00	16.74 37.15 -53.83	0.2137 0.1099 6.62	37.89
	9	96 96 96	37.65 0.00 0.00	11.34 31.14 -46.82	0.2055 0.1054 3.86	31.55
	10	64 64 64	25.10 0.00 0.00	6.40 7.00 -13.47	0.2833 0.2344 2.09	17.47
	11	42 42 42	16.86 0.00 0.00	33.63 -53.59 43.28	0.2696 0.6642 23.07	29.82
	12	255 0 0	59.30 94.41 61.75	59.60 91.30 96.44	0.6752 0.3209 76.88	12.72
	13	0 255 0	84.75 -117.20 86.46	84.92 -112.80 99.47	0.2769 0.6794 182.86	3.23
	14	0 0 255	32.10 57.38 -110.89	30.58 65.86 -115.89	0.1537 0.0654 17.98	2.79

Show Details presents a report on all measurements and will be displayed in your browser (the viewer will minimize to show the browser). These are stored for each calibration for reference over time.

Remote Director Training

Multiple Monitors - Proofing Display and Project Display

Using one display to view your project list while proofing on a second display can easily be done.

Launch the RD Client application and open a project in the viewer.
Select the "Calibration" Icon from the tool bar at the bottom of the viewer.

Select the "Configuration" button in the lower left of the Monitor Status panel and chose the display you wish to use for proofing.

Select "Save" and the viewer will jump to the selected display.
If the display is calibrated, the calibration icon will have a green check. If it is not calibrated, it will have a red x. Simply follow the on-screen prompts to calibrate the selected display.

The viewer will reopen on the selected display each time.

Remote Director Training

▶ Proofing across two displays.

Using multiple displays to proof your color is allowed if both displays are the same make and model.

On your OS settings menu be sure both displays are set up to the same resolution and arranged properly side by side or top and bottom.

Launch the RD Client application on monitor 1 and open a project.
Select the "Calibration" Icon from the toolbar at the bottom of the viewer.
Follow the steps to calibrate the monitor.

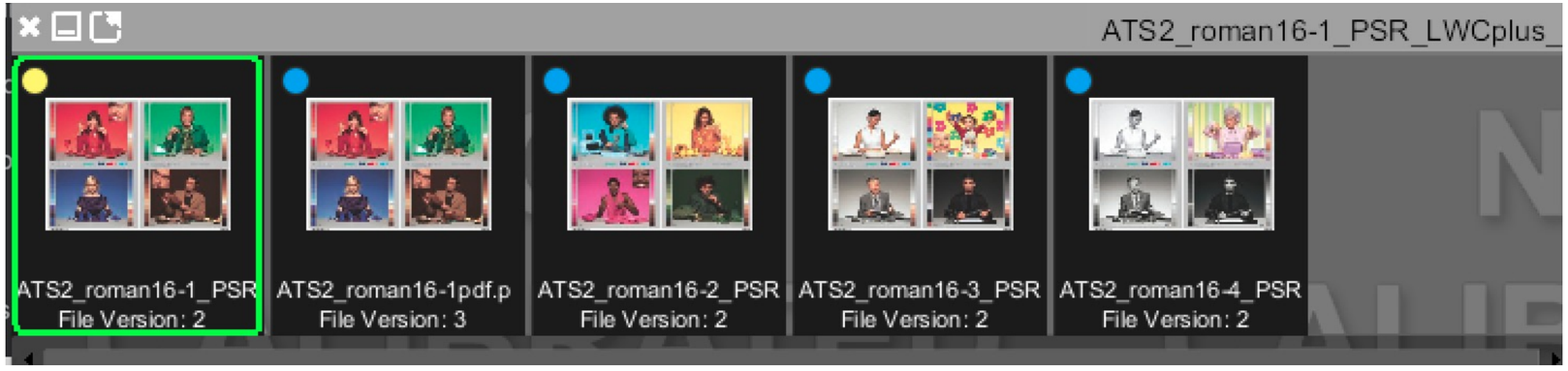
Select the "Calibration" Icon from the tool bar at the bottom of the viewer again.
Select the "Configuration" button in the lower left of the Monitor Status panel and chose monitor 2. When you select "Save", the viewer will jump to monitor 2 for calibration.

Now that both displays are calibrated, you can select the "Calibration" Icon from the toolbar at the bottom of the viewer again. This time when using the "Configuration", choose both displays by holding down the multiple selection key for your OS.

Select "Save" and the viewer will jump across both displays **when in the full screen mode** and treat them as a single display.

Remote Director Training

▶ Viewer Thumbnail Bar



The thumbnail bar at the top of the viewer allows you to choose an icon to close the viewer, minimize the viewer to the OS dock, or expand the viewer to full screen (escape will exit full screen). If you click on the file name in the menu bar, it shows a list for selection of all files in the project. The green rule around the thumbnail shows the active file in the viewer and the LED color indicators show the status of the file.

- Blue - not yet reviewed.
- Yellow - in process.
- Orange - partially signed off.
- Green - Approved.

If a thumbnail has an arrow on it, that indicates it is a multi-page file and clicking the arrow will show a thumbnail for each page.

Remote Director Training

The Tool Bar

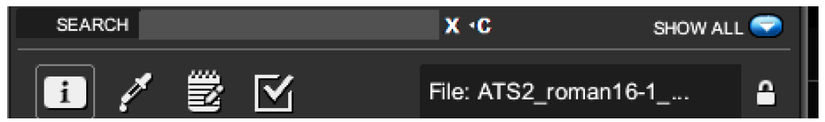
Left to Right

Use the:

- Lock to hide both thumbnails and tool bar to window shade mode.
- Refresh to see notes from another viewer in a dynamic session.
- Chainlink icon to tie or break panning and zooming of multiple files.
- Arrow to next or last file in project.
- 90 degree rotation icon to rotate the file.
- Zoom to toggle between fit inside viewer window and life size of the file.
- Zoom slider (you can enter a numerical factor as well) to zoom.
- Monitor calibration icon to calibrate
- TI icon to see total ink warning mask.
- OOG icon to see out of gamut mask.
- Measurement tool to mousedown to change increments.
- Printer icon to print notes and sign-offs.
- Color Printer icon to download to a local printer's profile for color accurate hard copy to match display.
- Email icon to end email with to all invitees with a link to the file.
- Last icon to toggle USB connected lighting between 1) match monitor 2) hard copy evaluations and 3) off.

Remote Director Training

▶ Tool Panel – File selection

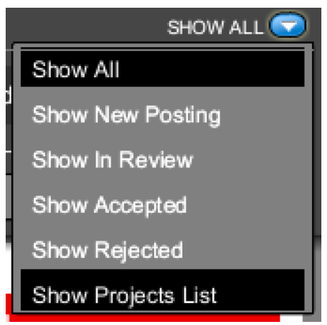


The top of the tool panel contains file search functions to assist in finding a file in a project that contains many files. As you search, the thumbnail bar hides all files that are not in the search criteria.

You can search by file name.

The “**x**” clears the search.

The “**c**” copy's the active file name to the search field.



“SHOW ALL” is a drop-down list to filter the files based on status.

“File” indicates the active file this panel is working with.

The lock allows you to window shade this menu to gain more viewing area.

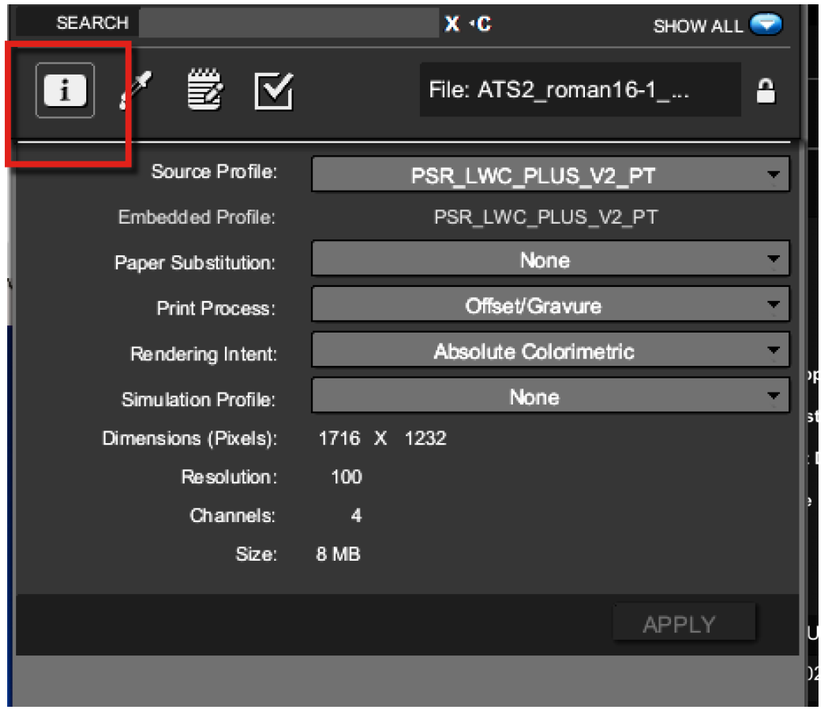
Note: *If the viewer was launched from an email link, the drop-down contains “Show Projects List” in case you need to see a file in a different project as the email only launches the viewer.*

Remote Director Training

▶ Tool Panel - File information and color settings

From top down.

- Source profile - This is the current profile assigned to the file that describes the color space of the proof. This can be changed to evaluate different profiles including going to the finder and uploading a new profile.
- Embedded Profile - This is the profile that was embedded in the file when it was uploaded to the Proof Server and will match the source unless changed.
- Paper Simulation - If none, the paper is the paper color from the source profile, a user can select other papers for evaluation and RD will blend the new paper color with the profile.



Remote Director Training

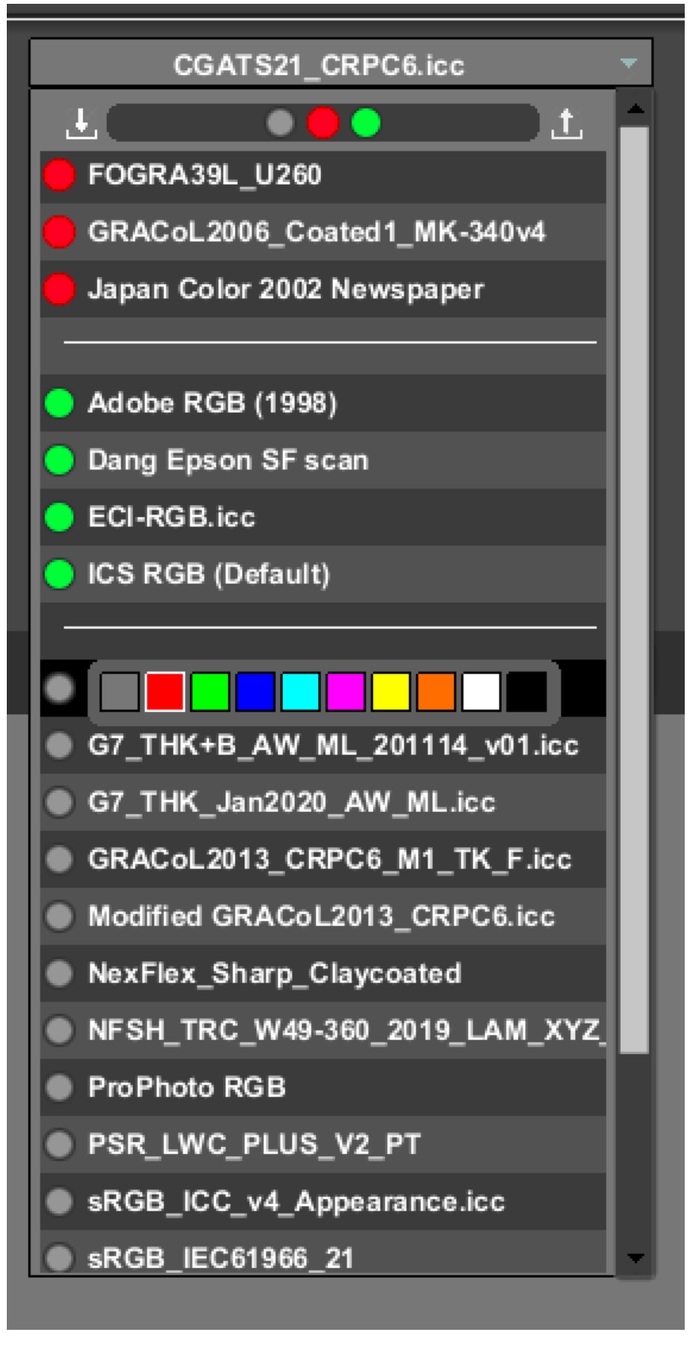
Tool Panel – Profile Selection Options

- Default Tags - To get the default sort from the server click on the down arrow icon located in the upper left corner of the list panel.

- User Defined Tags - Click on the tag icon to the left of the item name in the list and select the tag color you wish.

- Tag Sorting - Each color tagged will appear on the selection bar at the top of the list. Click on the color you wish to appear at the top of your list. The sort you create will be stored on the local machine and remain that way for that user until they restore the default sorting from the server (down arrow icon).

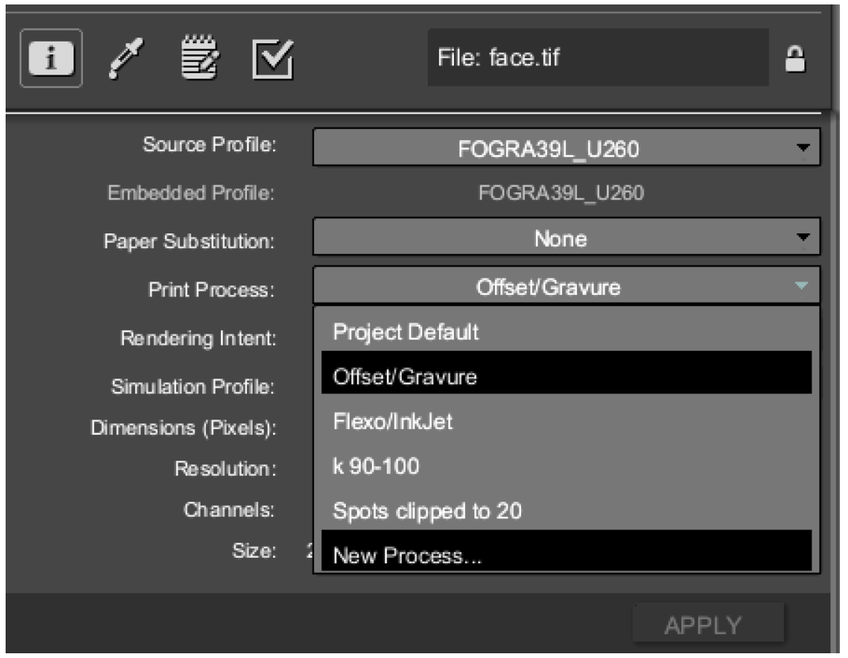
- Managing Default Tags - Administrators can use the up arrow icon to the right of the tag selection bar to save the default tag sorting for all users.

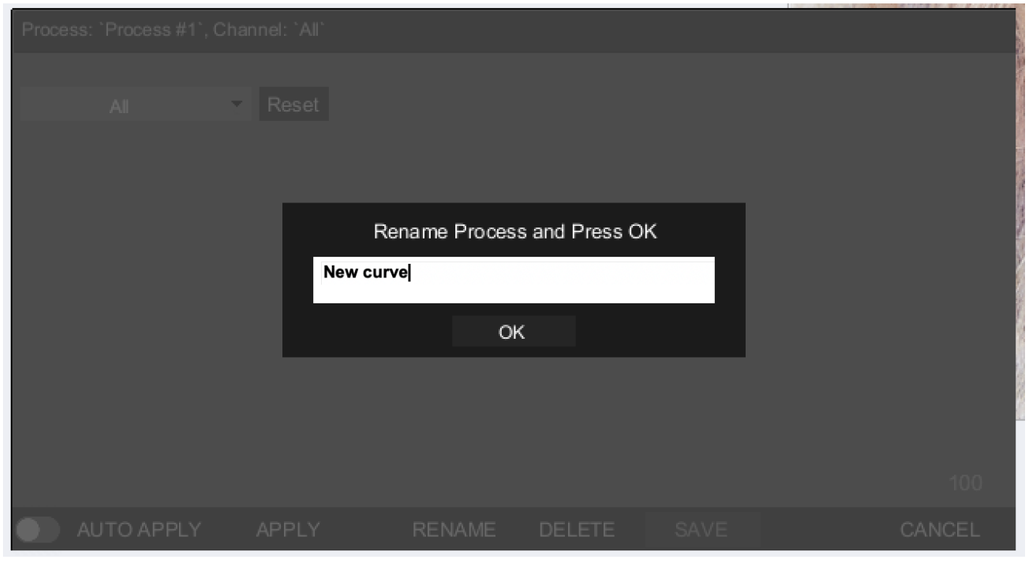


Remote Director Training

Tool Panel - Curves

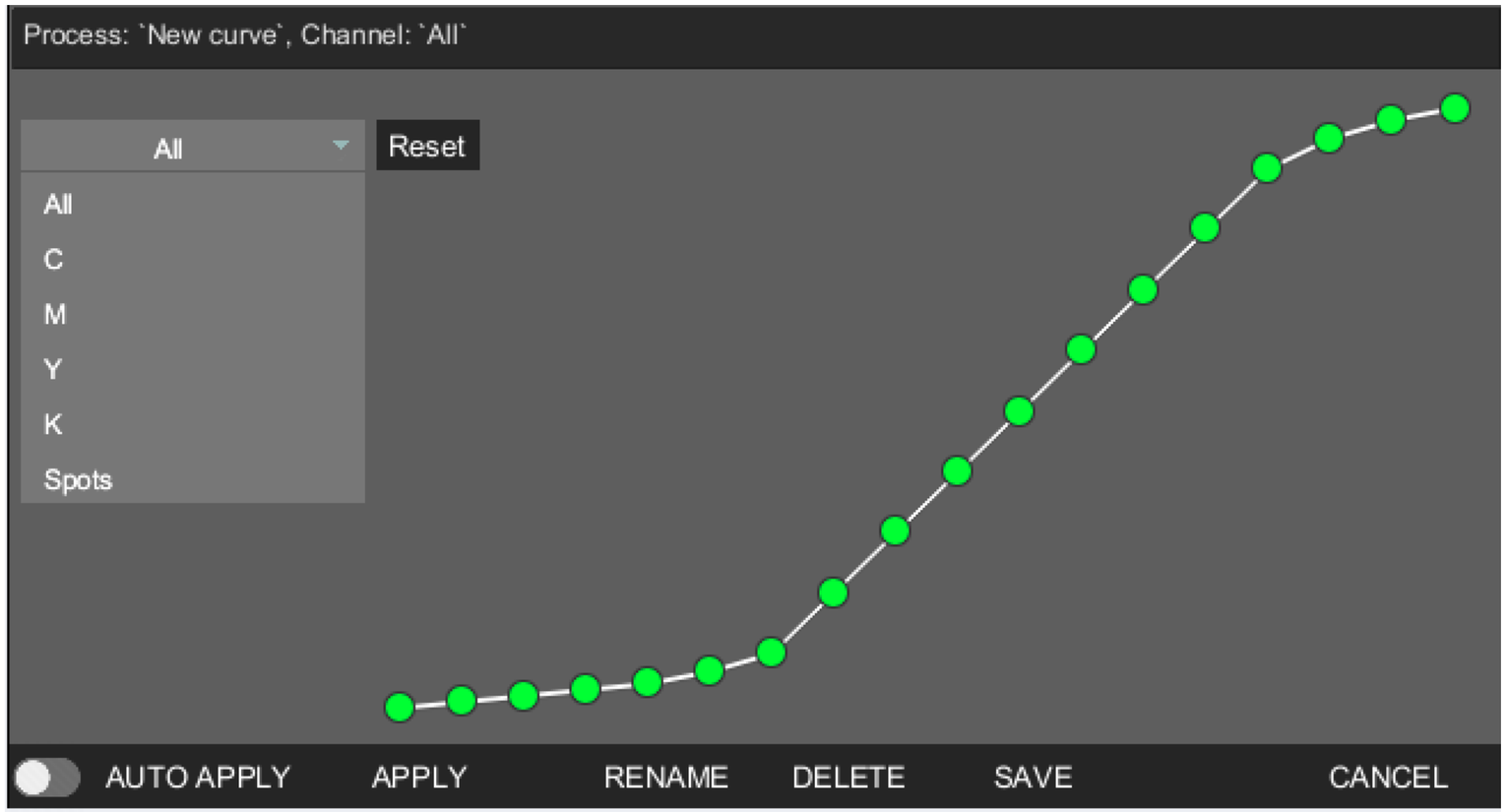
- Print Process - This allows you to select, build, or edit a print condition curve interactively with a proof.
- Select Edit to edit, delete or rename the current curve. (note system defaults can not be edited)
- An interactive curve pallet will open over the proof in the viewer.





Tool Panel - Curves

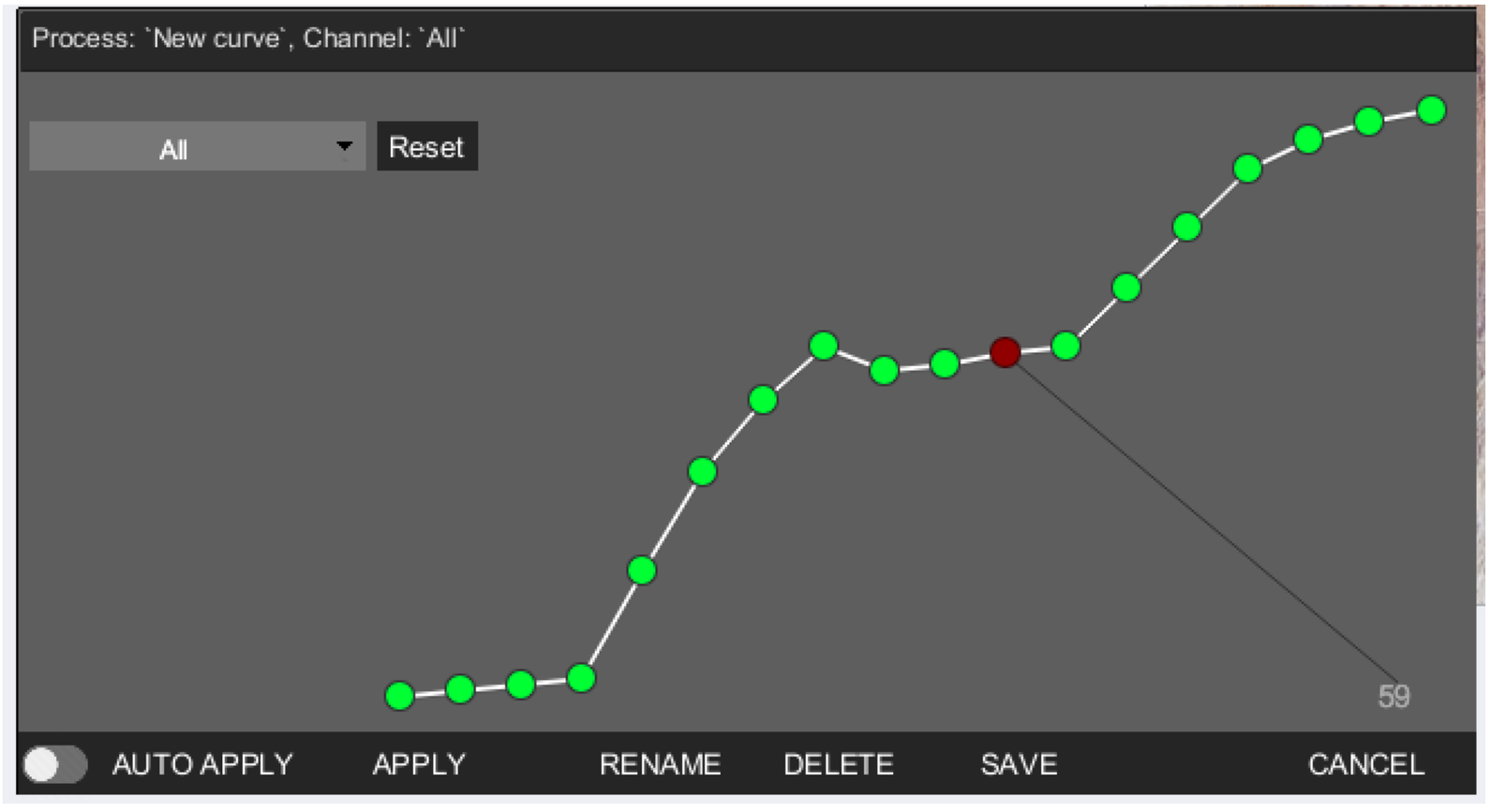
- After naming the curve will appear over the active proof image. As with the system admin curves you can select the channel(s) you want the curve applied to.



Remote Director Training

Tool Panel - Curves

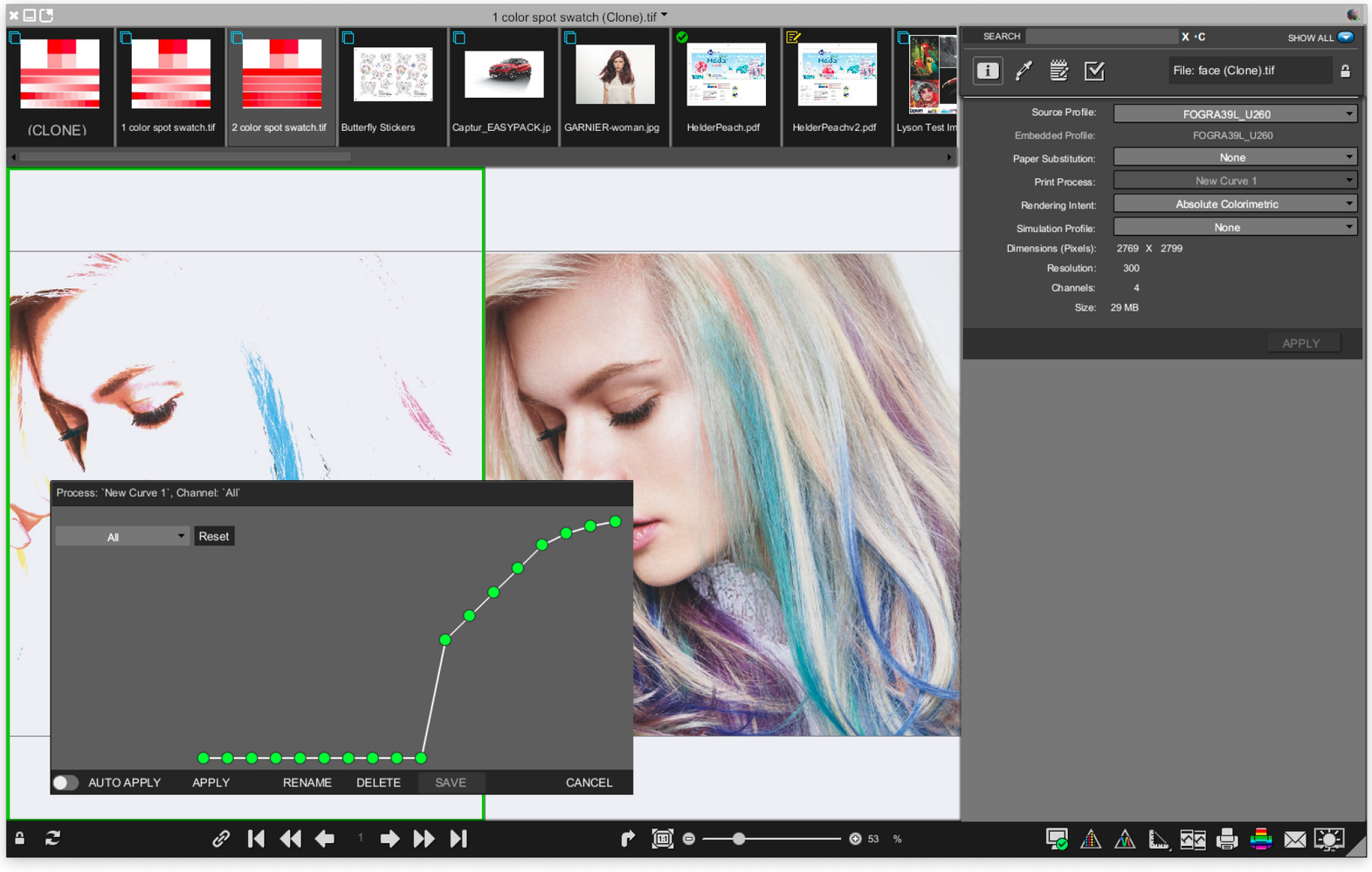
- When you select a point on the curve it turns red and a line pointing to the current value of that point is displayed in the lower right. As you move the point the value updates interactively.
- If auto apply is on the image will reflect the move as soon as you release the point.
- If auto apply is off (default) you can move several points, then use the apply button to preview all the points moved.
- Rename, Delete, and Save allow you to keep the servers list of available curves clean and current.



Remote Director Training

Tool Panel - Curves

- A good tip is to clone the proof and preview your curve edits compared to the starting point.



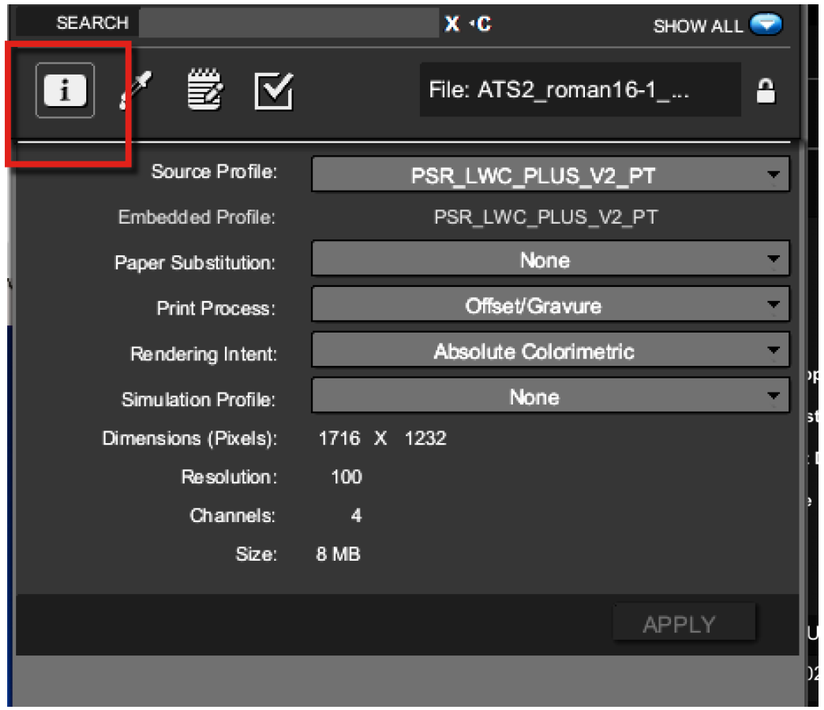
Remote Director Training

▶ Tool Panel - File information and color settings

From top down.

- Rendering Intent - Should be left at absolute colorimetric to show paper color. Change to relative to show monitor white.
- Simulation Profile - This is used to simulate a print condition when viewing an RGB file with its color space profile as source.

Static text - info on file size and channels.

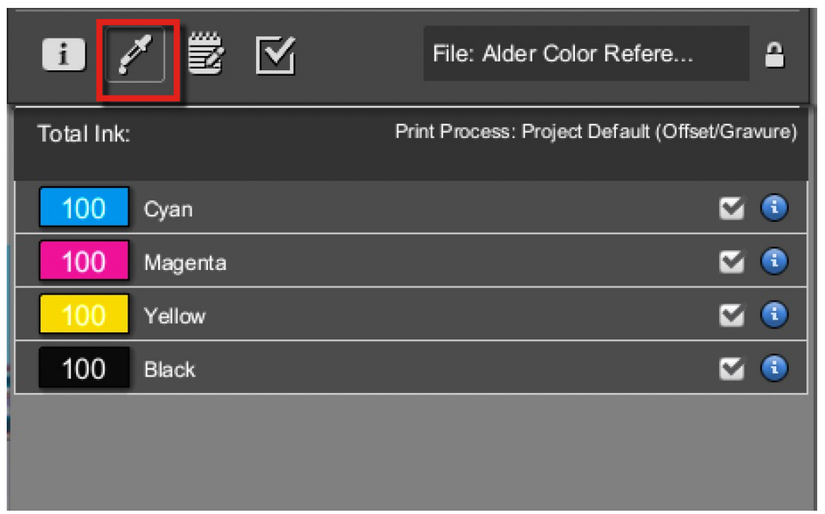


Remote Director Training

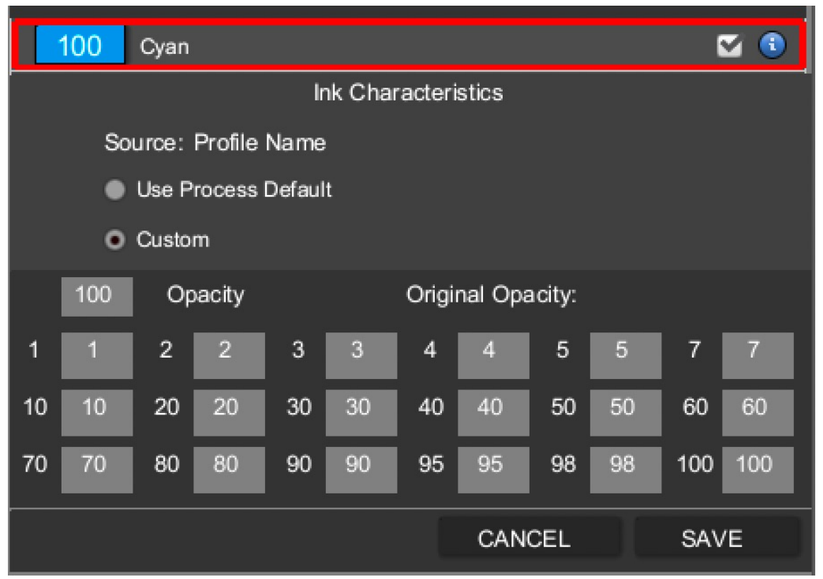
Tool Panel - Channel Information

Color channels show the color assigned to each channel. They can be turned on and off as needed to inspect the file. If you turn off all but one channel it will appear in black so you can see the detail of the channel.

As the curser moves around the file, the percent values of each color in the color swatch gives you the percentage of that color under the curser with a total ink value provided at the top.



The “i” icon opens the ability to change opacity or edit a curve for a single channel if required for a hybrid printing process.



Remote Director Training

Tool Panel - Channel Information

When viewing a file when a spot channel is open, the color libraries become available for selection and searching for color assignment.

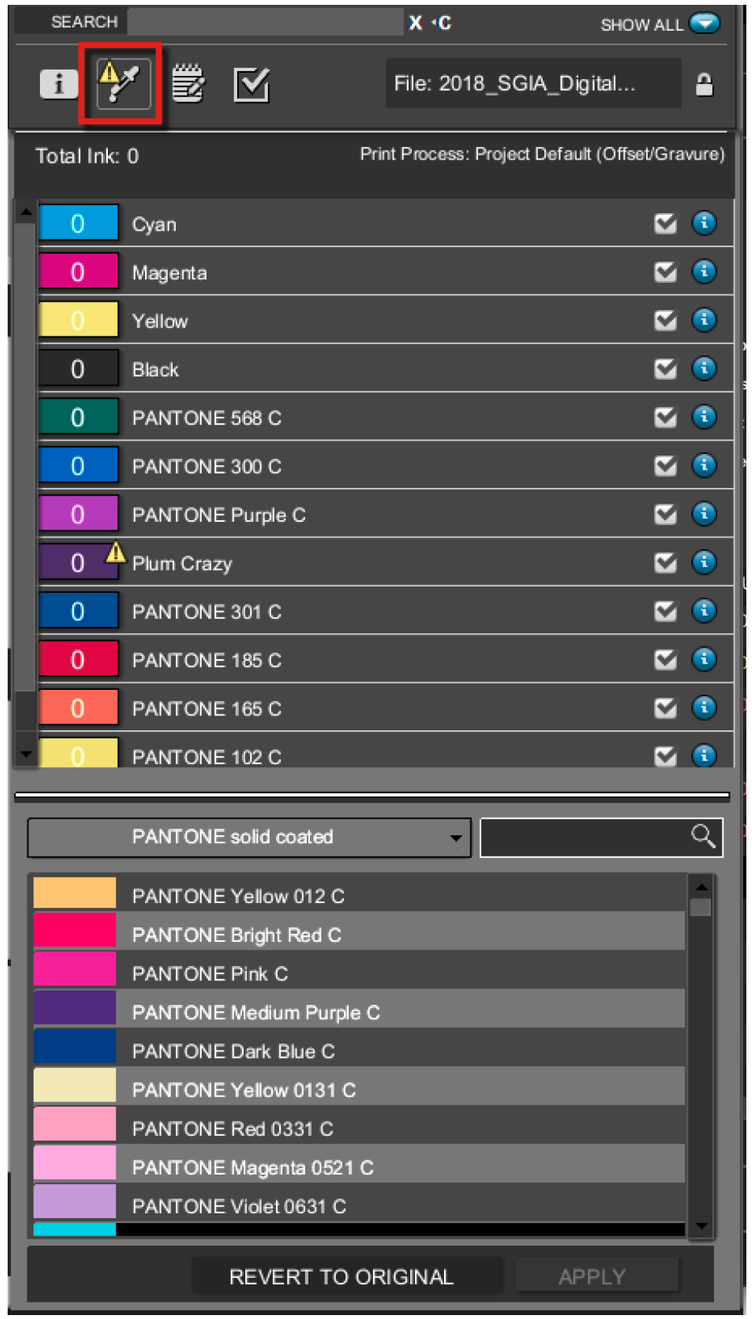
Each color is assigned by the profile or a spectral value from the color libraries based on the channel name and its corresponding color name.

If the warning sign is seen, it indicates one or more channels are simulated from the information in the PDF and not defined from spectral values in the library.

Each channel that is simulated also contains the warning. To replace the simulation with spectral values, simply search for the proper color in the library and drag it up over the channel you wish to replace. If the channel displays a red **X** when dragging it is an ICC defined channel and cannot be replaced with a spot color.

When replacements have been made, the “Apply” button at the bottom of the panel will re-render the file in the viewer with the spectral values and the warning signs will disappear.

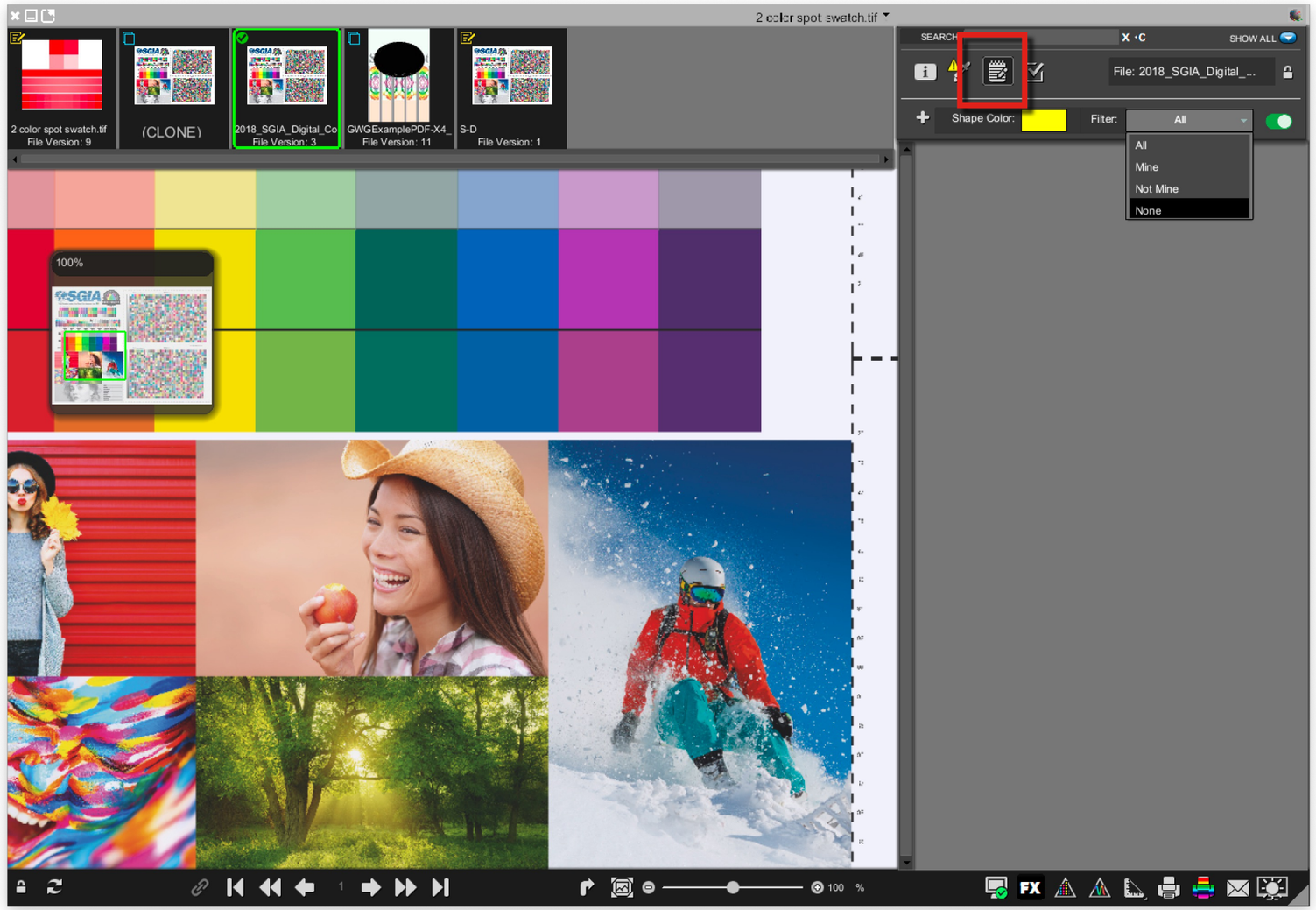
“Revert To Original” will restore the assignments and simulations as they were when file was added.



Remote Director Training

▶ Tool Panel - Annotations Tool

A mouse down will allow you to choose the color for annotations indicators. A drop-down selection allows you to hide and show notes. Each user will be listed by name if they annotate the file.
The slider can be turned on (green) to dynamically see notes from others as they are marking up.



The third icon is used to open the annotations list where you can read and add annotations and drop indicators on the file that are associate with the note.

Remote Director Training

▶ Tool Panel - Annotations Tool

The + sign opens a blank note.

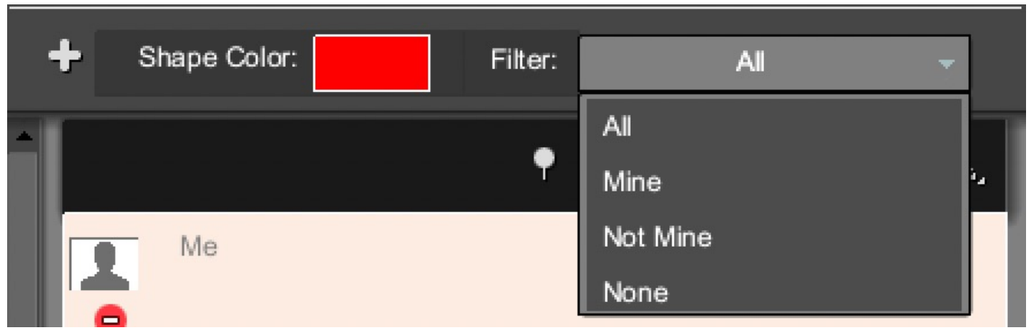
The text field is provided for commenting and a selection of indicators is provided to drop over the image that relates to the comment.

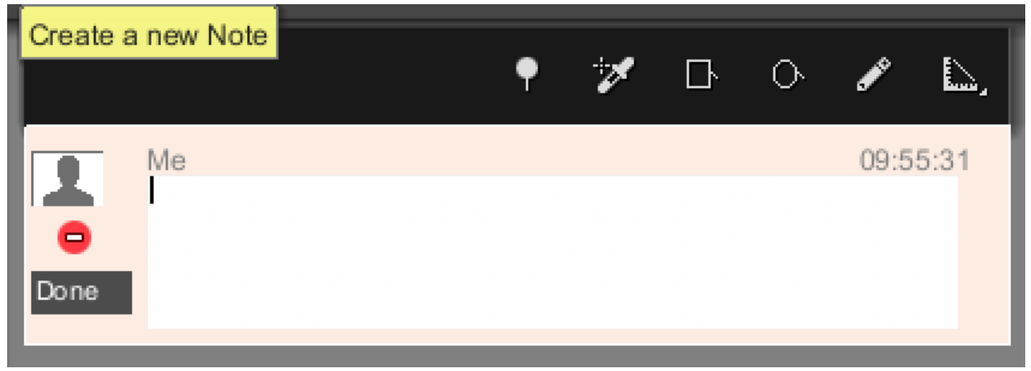
1. Drop pin
2. Densitometer
3. Square marquee tool
4. Circular marquee tool
5. Freehand tool
6. Ruler

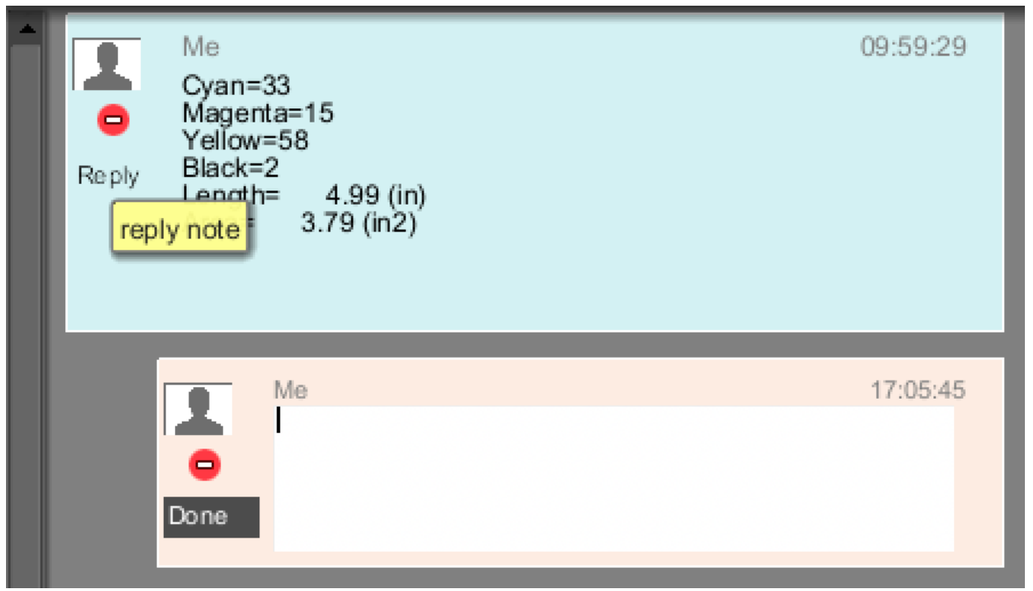
Any one or multiple indicators can be associated with a note. A note is not complete or visible to any other user until the “Done” button is clicked.

The densitometer and ruler values are stored on the clipboard so you can paste them in the note for reference.

A reply to any note is nested in the list so it is also attached to the indicators of the note.





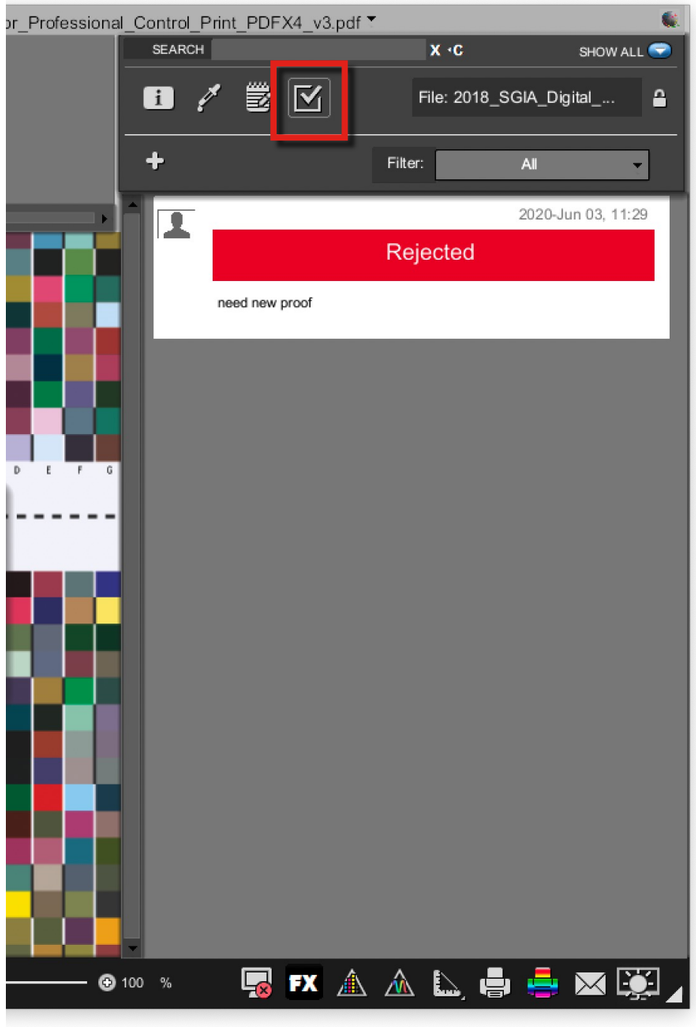


Remote Director Training

Tool Panel - Sign offs

Select the last icon in this panel to sign off and update your status for the file to "approved" or "rejected". Once signed off, the file is locked for that user. They can can no longer add or edit any notes. *Other users may continue to edit the file until they sign off.*

This allows RD to become the legal contract between users just as a signed hard copy proof does.



Remote Director Training

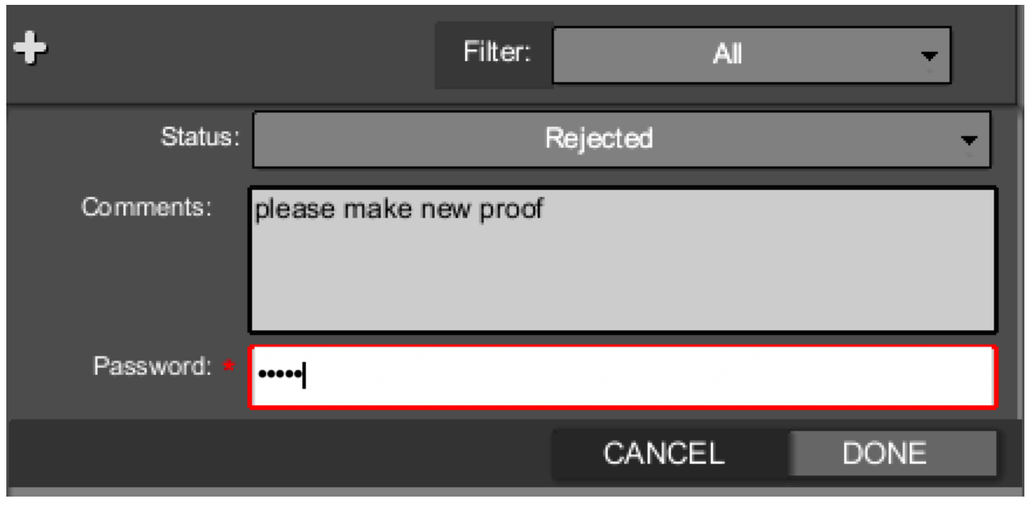
▶ Tool Panel - Sign offs

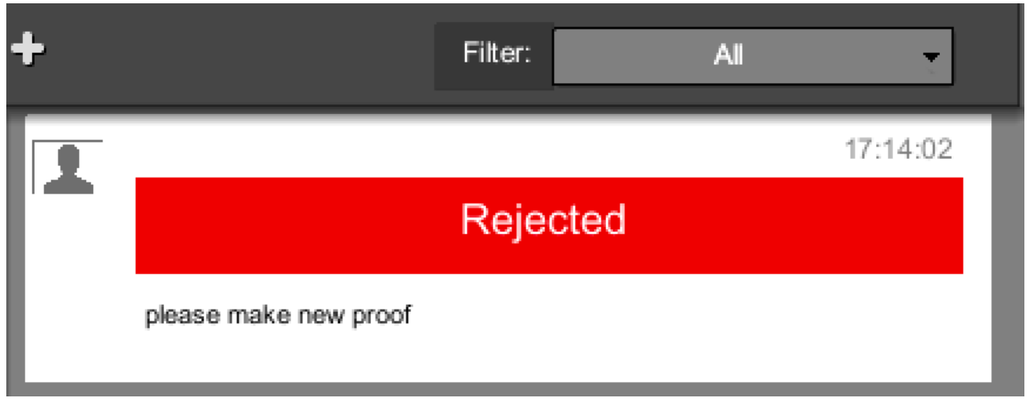
The drop-down selection allows you to hide and show signoffs. Each user will be listed by name.

Select the ”+” and you are presented with the choice of "approved" or "rejected" along with a password challenge.

Enter your RD password and click ”Done”.

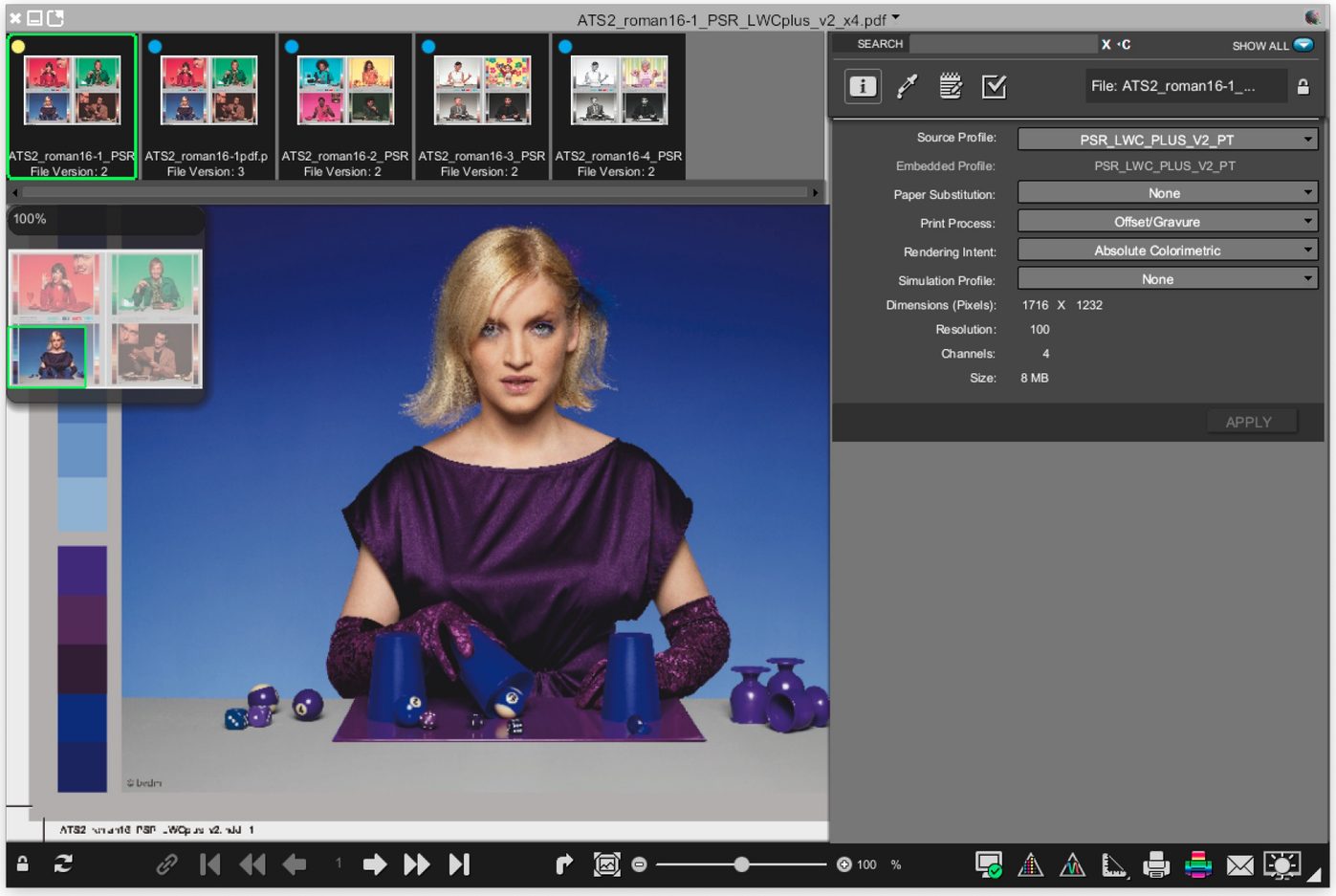
This constitutes a legal sign off the same as signing a hard copy proof. It also locks the file for the signer so they cannot delete or add any further annotations.





Remote Director Training

Working with the viewer

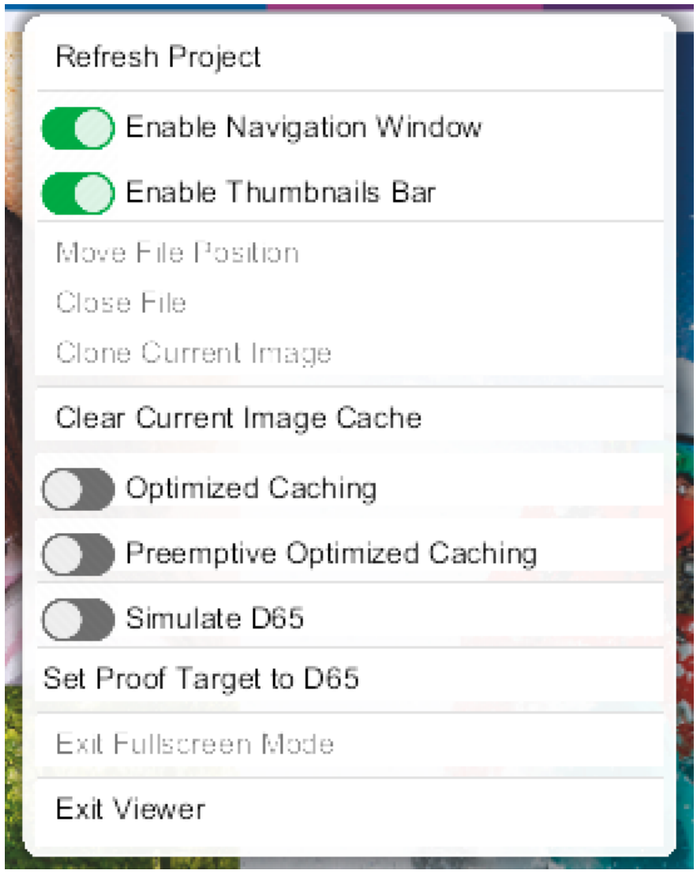


The viewing window always floats over all other windows including the OS system preferences.
The navigation appears when the image zoom is larger than the viewer. This allows you to jump to a new region of interest that is outside the viewer window without the need to drag a very large image.
If you unlocked both the toolbar and the tool panel, RD provides complete bezel to bezel proofing - hiding all color distractions from tools and the desktop.

Remote Director Training

Right Click Tools

If you right click on an image an assist tool window appears.



1. Refresh Project will clear the local project cache and rebuild from the Proof Server.
2. Disable/Enable Navigation Slider will hide or show the navigation window. When hidden you can drag the image to pan.
3. Disable/Enabler Thumbnail Slider Will hide and show the thumbnails to make more room for proofing without hiding the tool bar.
4. Move File position allows you move the arrangement of the file with others in the viewer.
5. Close File will close the file you right clicked on.
6. Clone Current Image duplicates the file and adds a clone thumbnail so you can compare color and paper settings.
7. Clear Current Image Cache will delete cache and reload only that image from the server.
8. Optimized Caching will cache each channel render for faster review as you navigate.
9. Preemptive Optimized Caching will cache each channel render for faster review for the entire image. A countdown of tiles cached will show on the image thumbnail
10. Simulate D65 will allow you to view the image with a simulated D56 white point compared to other images at D50 (requires a profile for each)
11. Set Proof target to D65 will flip the simulation to D50
12. Exit Full screen (like the escape key) will resize the viewer from full screen to last size and position.
13. Exit viewer, closes the viewer.

Remote Director Training

Viewing multiple files

To view two or more files in the viewer, simply right click on any thumbnail and choose where you want the new image to be in the viewer. Images can be arranged side by side, stacked, or in a grid. If multiple files are in the viewer, the arrows on the tool bar will jump by the same multiple. This is good for viewing catalog page spreads. If page 2&3 are open, the arrow would jump to 4&5 etc. The image highlighted with the green rule is the active image that is associated with the tool panel info. Click the chain-link “off” to pan and zoom the active image independently.

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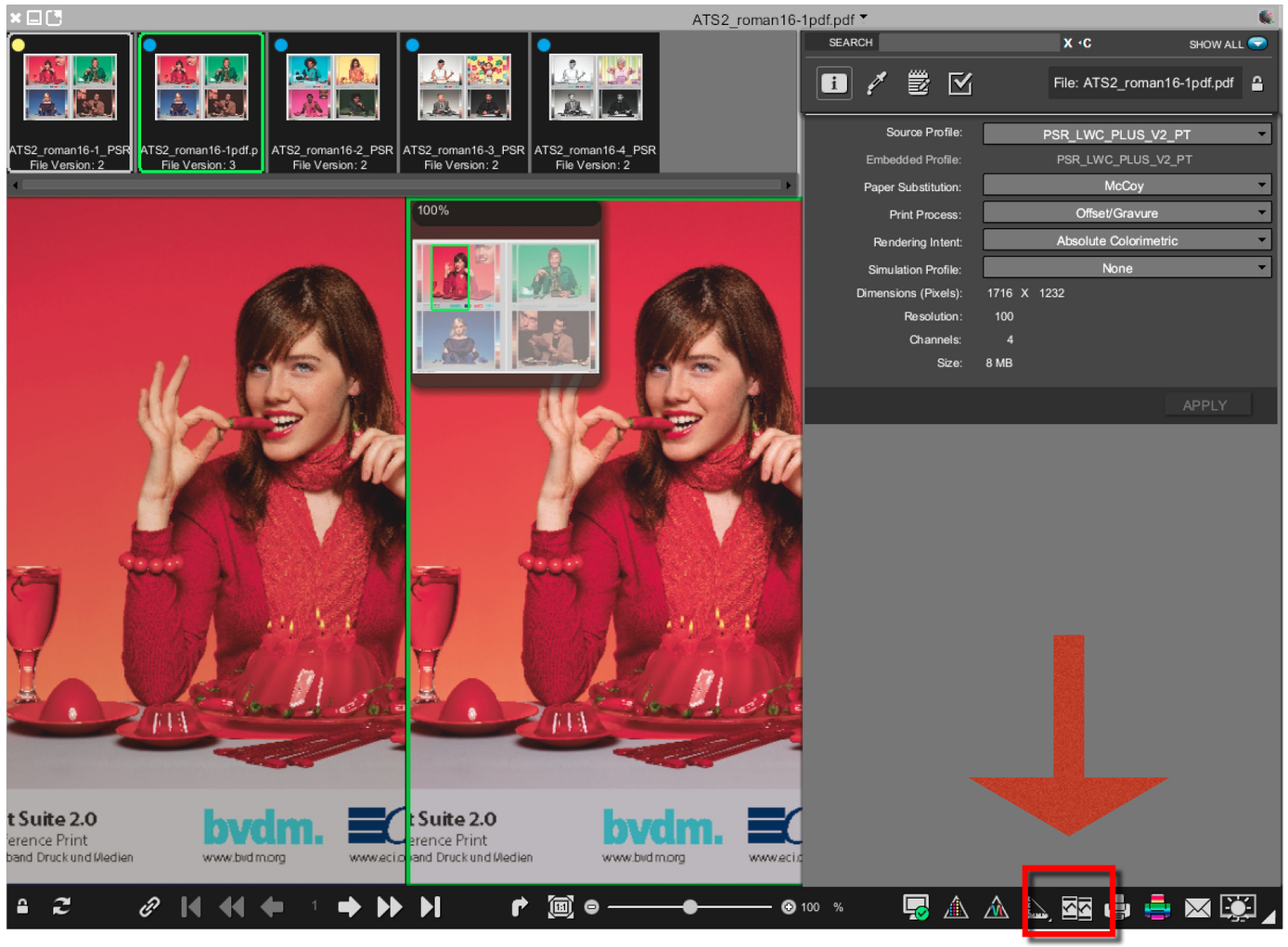
Comparing files

If two images of the same size and resolution are in the viewer, a new compare tool appears in the tool bar.

When selected, you can choose three ways to compare files.

1. Flashing one over the other.
2. Masking all the differences.
3. Masking all the similarities.

The arrow exits the compare mode.



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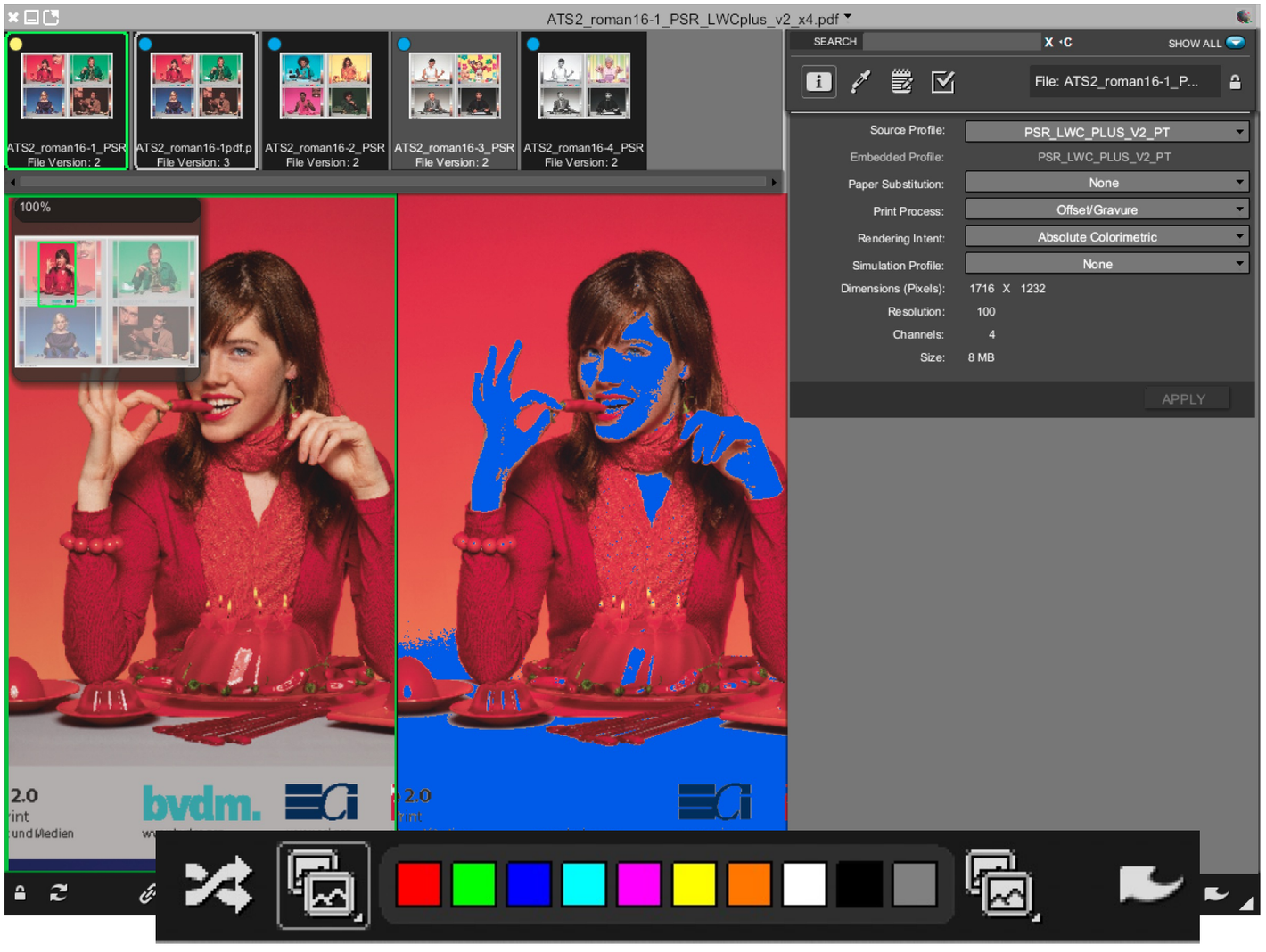
Comparing files

If you hold the mouse down on a masking tool, you can select the color of the mask to contrast with the image.



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Training Modules

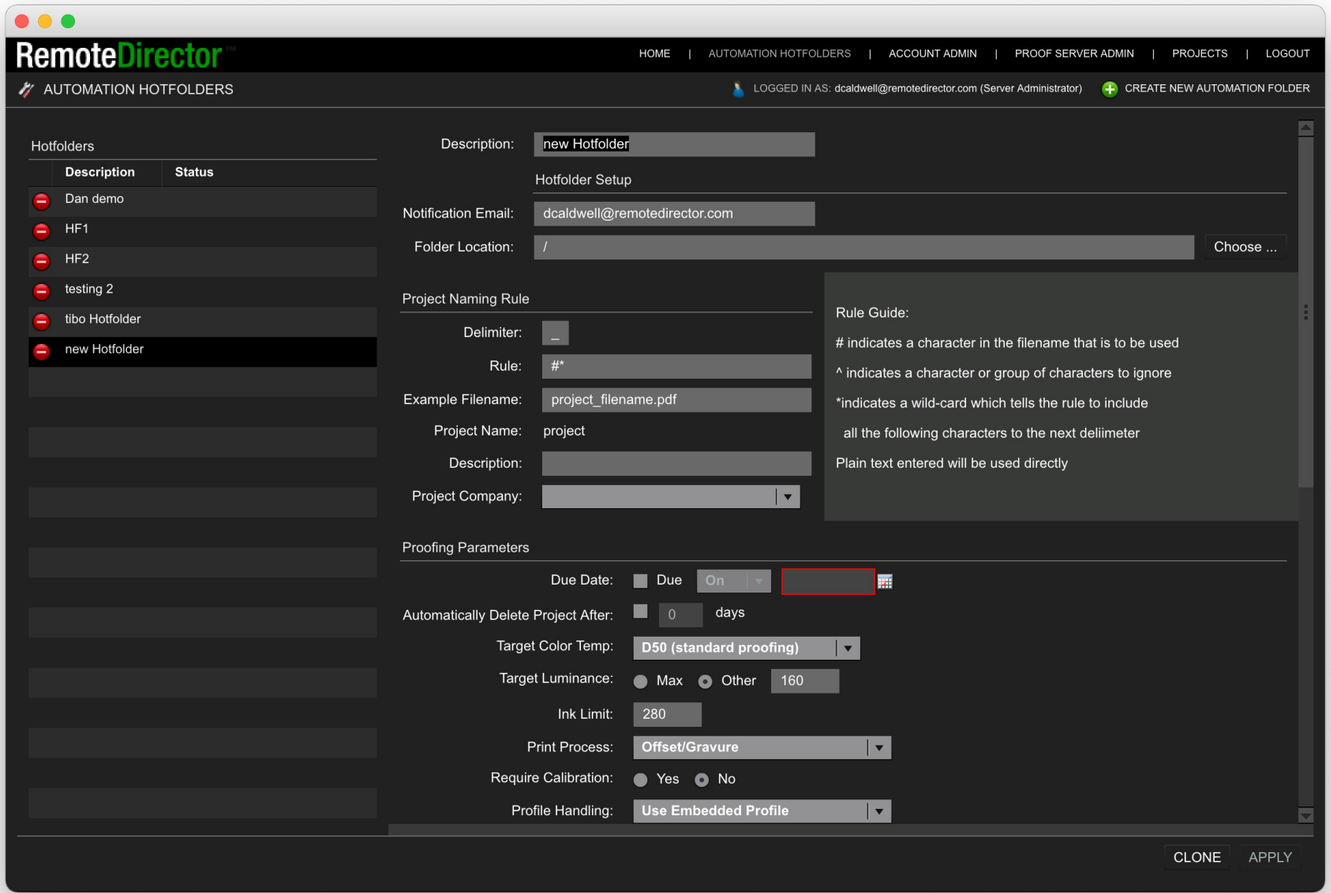
- Terminology
- System Architecture
- Lighting – Environment
- Server Installation
- Application Installation
- Server Administration
- Manage Account - Create Projects - Project List
- The Viewer/Calibrator/Tools – Navigation
- Hotfolders
- Support

Remote Director Training

Configurating Hotfolders

Adding files, settings, and inviting viewers can all be done automatically via hotfolders. Any file dropped in the folder will Add or Create a Project, set appropriate values for color and workflow, Invite Viewers and send email invitations.

If you have been assigned hotfolder administration permissions, Automaton Hotfolders selection is available on your home screen menu. Click the “+” button to create a “New Hotfolder”.



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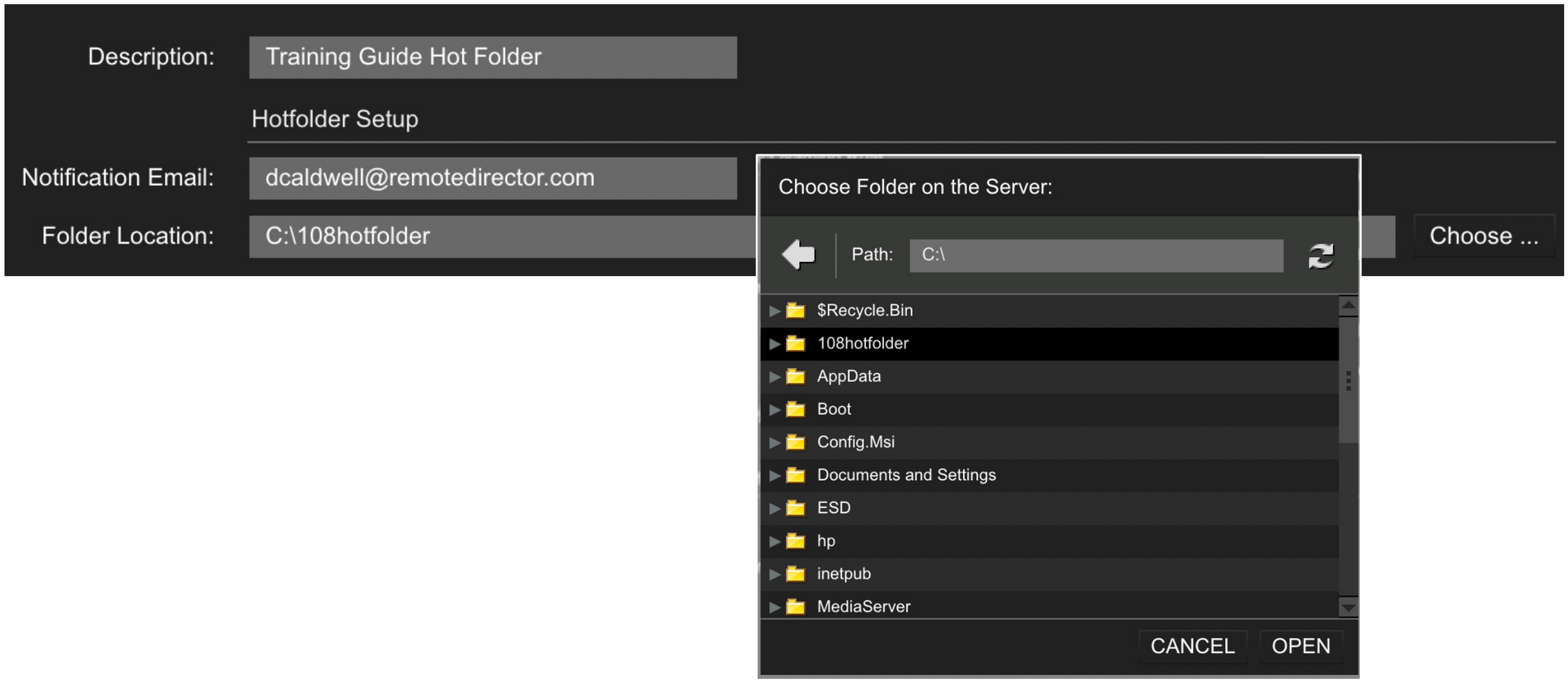
Configurating Hotfolders

1. Name your folder as you want it to appear in the list of hotfolders.
2. Choose who will get the status change notifications on files processed by the hotfolder
3. Select the path to the input folder



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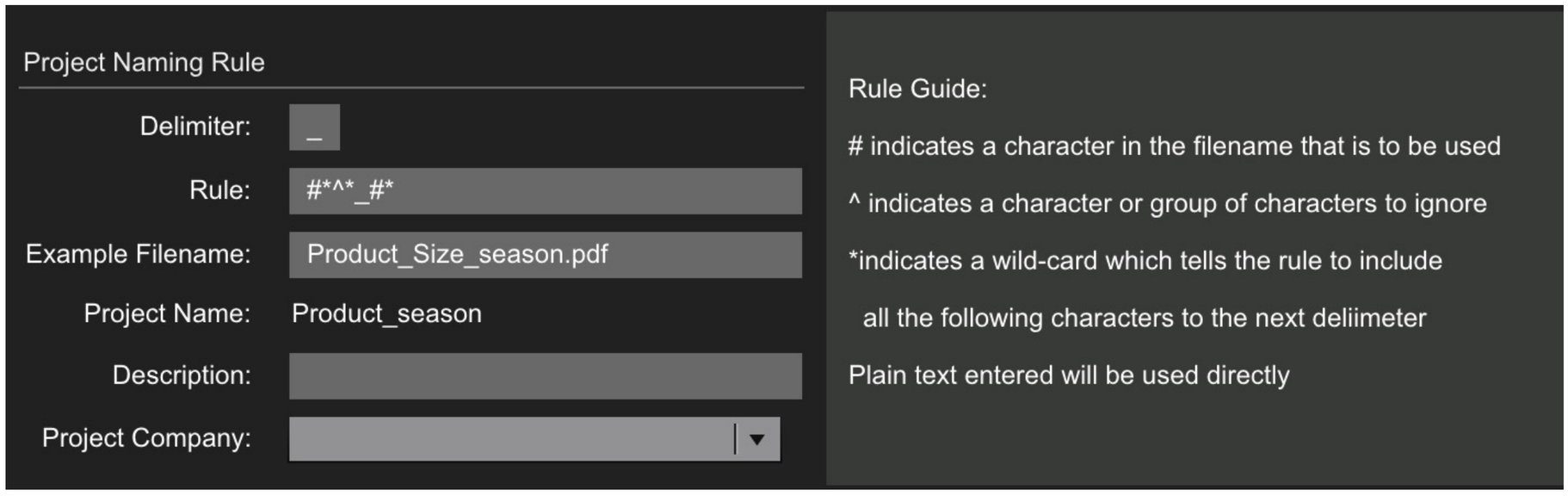
Configurating Hotfolders

A file name parser can be configured to create multiple projects based on file name. In this example the file list named:

Glove_small_winter.pdf
Glove_medium_Winter.pdf
Glove_large_spring.pdf

would create two projects, “Glove_Winter” with two files and “Glove_Spring” with one file.

The example file name field is provided to test your parsing configurations.



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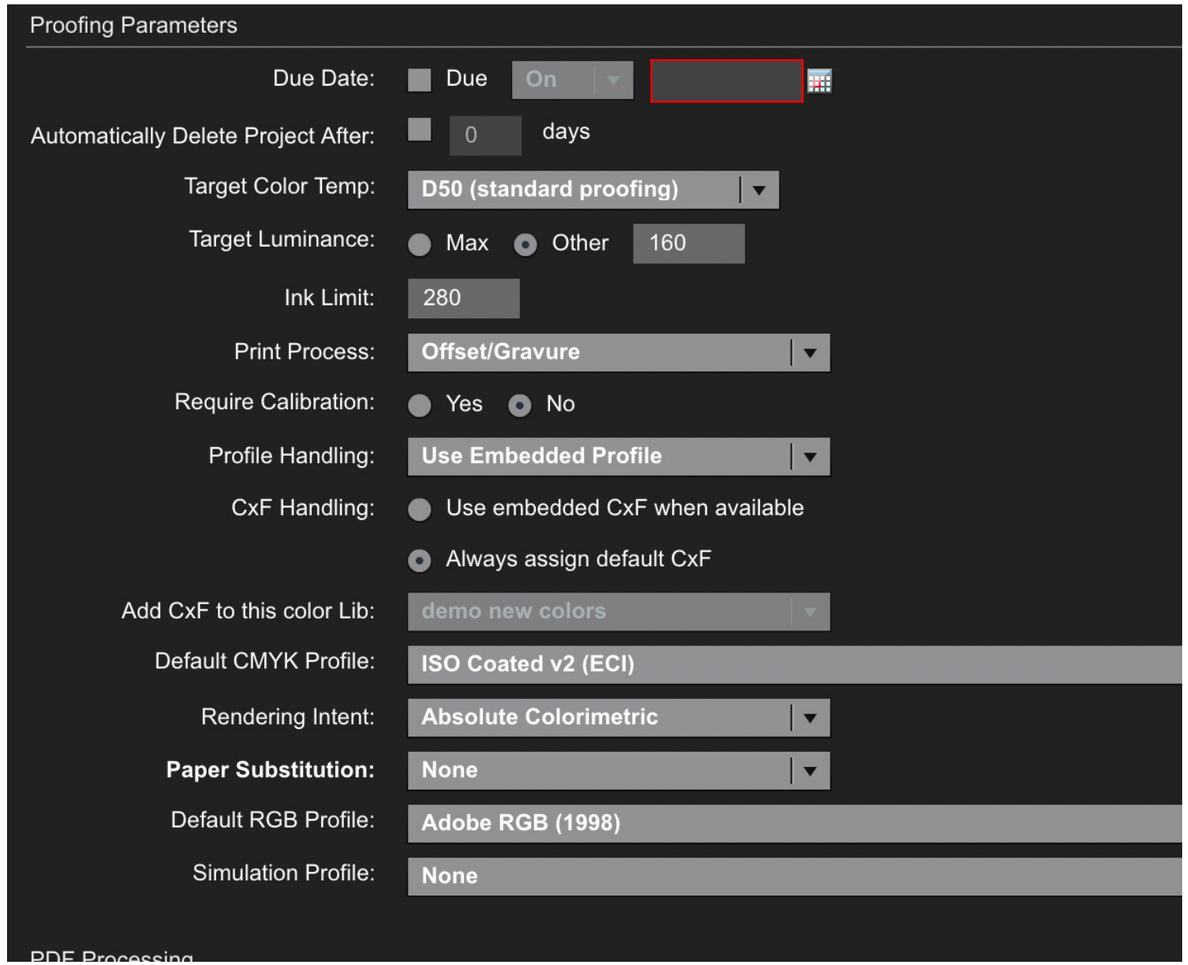
▶ Configurating Hotfolders

Setting the folders Proofing Parameters.

1. Due date is determined by date or dynamically based on the number of days, weeks, or months after the file is added.
2. All color settings and profile handling mirror the ones described in adding files.

Set the RIP and resolution setting for the PDF processing.



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Configurating Hotfolders

Setting the project viewer invitation and routing their due dates also mirrors the process described above.

Once all setting are made, select the “APPLY” button to lock them to the folder.

The “CLONE” button is there when a second folder is created with the same settings so you can then change a setting and rename the folder without making all the choices again.

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Contacting ICS Technical Support

Please take the following steps before contacting Technical Support:

- Verify that your hardware and software meets the minimum requirements.
- Confirm that all network connections are correct and functional.
- If using BenQ, Eizo, or NEC, be sure the display's USB cable is connected to the CPU in addition to the video cable.
- Document the exact wording of any error messages you received and the circumstances of the problem e.g. the frequency of the problem and any actions taken immediately before the problem occurred.
- Note the version number of Remote Director product being used.

Email: **support@remotedirector.com**

Phone: 760-944-9445 8AM to 8PM (Eastern Standard Time)

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Trouble Shooting

USB connections – With several devices like the monitor, measurement device and lighting all connected to the USB establishing connectivity to each can become troublesome. Each want to be connected directly to the CPU but in many cases a hub is required. Monitors that are connected to directly to the CPU often provide a good hub for the lighting and the instrument. Changing ports and combinations will resolve the issue.

Instrument connections - be sure no other software that talks to the instrument is running.

Monitor connections – try to connect the display's USB directly to the CPU if possible

Lighting not responding – if your JustNormlicth LED lighting or ProofCheck light is not connecting, quit the program, turn off the light, disconnect the light's USB, then reconnect, turn on light, then launch the program and reconnect.

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- **Trouble Shooting**

CxF –

Inverted Image – Most likely an RGB profile is assigned to a CMYK file or vise versa

Upload file shows success but nothing in project – 1) Windows firewall is blocking Apache exe 2) Disk space is full