

Smart Review System 1.0

Administration Guide

English

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1 Overview

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Who Should Use This Guide

This guide is intended for anyone who administers Kodak® Smart Review System 1.0 software. It explains how to use the administration software and points out procedures that are specific to Smart Review System.

To use this guide, you should be familiar with the Microsoft® Windows® operating system.

What Are Smart Review and Smart Review System?

Smart Review enables a user to open a detailed, full-resolution preview of a file. Depending on how your system is configured, a user can take the following actions on a file that they open in Smart Review:

- View the file in different ways
- Annotate the file and view a report summarizing all annotations made to the file
- Set an approval status for the file
- Compare the differences between two files
- Perform color management on the file, including viewing with a color target and displaying out-of-gamut colors
- View a full screen preview of the file for optimal color-accurate viewing
- Print the file to a local printer, or print to file

The Smart Review client is what your staff and customers use to view and take actions on files.

Smart Review System is the underlying software that you use to configure Smart Review; it supports the display and management of files in the Smart Review client, and the transfer of information between Smart Review and the rest of your system.

Smart Review System Administration is the interface to Smart Review System. You use Smart Review System Administration to configure and manage Smart Review System.

System Requirements

Table 1 describes the operating system and hardware requirements for the Smart Review System server.

Table 1: Smart Review System server requirements

Component	Requirement
Operating system	Microsoft® Windows® 2003 R2 with Service Pack 2 and all critical updates
CPU	2 x 2.33 GHz
Disk	3 x 73 GB 10 Krpm
Memory	4 GB

The Smart Review client software is available for both the Mac OS® X operating system and Windows 2000, 2003, and XP.

Web Browser Compatibility

Smart Review and Smart Review System Administration are Web-based software that can be viewed on multiple platforms and browsers. Table 2 lists the Web browsers that you can use to access Smart Review and Smart Review System Administration.

Note: This information is subject to change. For the latest information about compatible browsers, contact your service representative.

Table 2: Recommended browsers

Software	Windows Browsers	Macintosh Browsers
Smart Review	Internet Explorer® 5.0 or later	Safari®
Smart Review System Administration	Internet Explorer 5.0 or later	Not supported

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Setting Up and Maintaining the System

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Starting Smart Review System Administration

Throughout this guide, there are procedures that require you to start and work within the Smart Review System Administration Web pages. There are several ways to access Smart Review System Administration, depending on whether you are working directly on the Smart Review System server or accessing the server remotely.

If you are working directly on the server, you can use either of the following methods to start Smart Review System administration:

- On the desktop, double-click the **SRS Administrator** shortcut.
- From the **Start** menu, select **Programs > Kodak SRS > SRS Administrator**.

If you are accessing the server remotely, in Internet Explorer, go to `http://<SRS server name>:6377/TwAmWebAdmin/`, and log on as an Administrator.

Viewing and Adding Licenses

Smart Review System uses licensing to:

- Enable Kodak Matchprint® Virtual technology capabilities, and manage the number of customers who have access to this feature.
- Manage the number of users who can concurrently access Smart Review.

  The Smart Review System license key indicates how many Smart Review licenses can be allocated concurrently. A license is allocated when one user starts Smart Review on one client workstation. The same user can start multiple Smart Review sessions on the same workstation, and only one license is used. However, if the same user starts a Smart Review session on a workstation with a different IP address, or another user starts a Smart Review session on the first workstation, a second license is allocated.

  The license remains allocated until the user's session is destroyed, the server is restarted, the user quits Smart Review, or the session times out after the client workstation loses connection with the server.

  If one of your users cannot start Smart Review, you may have already reached the maximum number of concurrent user logons allowed by your license.

Licensing is controlled by entering the Smart Review System license key in License Manager. The license key is entered during the installation of the software. (In addition, you must have a valid dongle connected to your Smart Review System server. This dongle is connected when the server is installed.)

You may want to view your Smart Review System license key to see which licensed options you have, or you may need to enter a new license key if you have purchased additional options after the initial installation of the software.

To open License Manager:

➢ From the **Start** menu, select **Programs** > **Kodak SRS** > **License Manager**.

To view your Smart Review System licensed options:

- In License Manager, in the **TwAm** area, select **All License Keys**, and view the licensed options listed in the **Option** column.

To enter a new Smart Review System license key:

- In License Manager, in the **TwAm** area, click **Enter License Key**. Enter the new license key and click **Apply**. The new license key appears in the **Installed License Keys** list.

There is also an additional license key, called TwAm Processor, for the Smart Review System processor. After this license key is entered during installation, you typically will not need to enter a new key. In the unlikely event that you do need to enter a new TwAm Processor license key (for example, because your key has expired), you can do so using License Manager.

To enter a new TwAm Processor license key:

- In License Manager, in the **TwAm Processor** area, click **Replace**. Enter the new license key and click **Apply**.

Restarting Smart Review System

You can stop and restart the Smart Review System service whenever required. To stop and restart, you must be on the Smart Review System server; you cannot do this remotely.

1. From the **Start** menu, select **Run**.
2. In the **Open** box, type `cmd` and click **OK**.
3. To stop the service, type `net stop twam` and press ENTER.
4. To restart the service, type `net start twam` and press ENTER.

Note: You can also stop the service through Smart Review System Administration when you are on the Smart Review System server. To do so, click **Maintenance > Shutdown > Shutdown Now**. However, you cannot restart the service through Smart Review System Administration; you can restart it only by typing `net start twam` in a command-prompt window.

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Overview

You use Smart Review System Administration to configure the following aspects of your system:

- Image rendering and caching
- Document roots
- Smart Review client settings
- Smart Review security
- Callback service URL and domain name
- Approval statuses
- User roles
- Color management

This chapter describes how to configure all of the above aspects of your system except for color management. For information about configuring your system for color management, see Chapter 4, *Setting Up Color Management*.

Note: After making changes to any Smart Review System Administration section, ensure that you click **Update** to save and apply the changes.

Configuring Image and Thumbnail Caching

Caching of file images affects how quickly a user can open files in Smart Review and how quickly the images are refreshed when the user performs operations on them in Smart Review.

You can configure the system to pregenerate and cache a raster image (a .png file) and thumbnail of a file whenever a file is added to the system. This will speed up the initial display of the file in Smart Review.

However, adding files to the system will take longer, and more disk space is required on the Smart Review System server. You may choose not to pregenerate raster images or thumbnails if upload speed is a concern, disk space is limited, or you don't expect your users to view files in Smart Review frequently. Alternatively, you may choose to create thumbnails of files but not raster images.

The settings in Smart Review System Administration's **Rendering** section enable you to control how images and thumbnails are created and cached.

Table 3: Rendering settings

Setting	Description
Pre-Render Processing Level	Specifies whether a raster image and thumbnail of a file should be pregenerated and cached when the file is first added to the system. Generating a raster image and thumbnail of a file even before the file is viewed as a thumbnail or opened in Smart Review speeds up the initial display of the file in Smart Review. However, adding the file to the system will take longer, and more disk space is required on the server. You may choose not to pregenerate raster images or thumbnails if upload speed is a concern, disk space is limited, or you don't expect your users to view files in Smart Review frequently. Select **0**, **1**, or **2** in the list as follows: • **0**—No raster image *or* thumbnail of the file is created when the file is added to the system. In this case, no thumbnail is pregenerated, but Smart Review System still creates a thumbnail of the file "on the fly" when you view the file as a thumbnail. • **1**—A thumbnail is created, but no raster image. • **2**—Both a raster image and a thumbnail are created.
Preserve Intermediate Render Cache	When a file is first opened in Smart Review, a raster image of the file (a .png file) is created and cached on the Smart Review System server. This file is used for initial display of the image in Smart Review and for small zoom factors, to make display and refreshing of the image faster. Select **Preserve Intermediate Render Cache** if you want the raster image to be saved between Smart Review sessions. Selecting this option will speed up zooming and panning the next time the file is opened in Smart Review, but uses more disk space on the Smart Review System server to save the file between sessions.
Raster Cache Image Size	Use this setting to specify the size (in pixels) of the raster image file that is created and cached when a file is first opened in Smart Review. The recommended size is 1600 pixels for most standard monitors, and 3200 pixels for larger monitors (for example, cinema display monitors). The maximum supported size is 3200.

Specifying Document Roots

From the Smart Review System Administration home page, click **Document Roots** to specify the locations where Smart Review System will look for the file when a user open a file in Smart Review.

Table 4: Document Roots settings

Setting	Description
Default	The local, or UNC network, path where Smart Review System will look for the file by default when a user opens a file in Smart Review. This is the location where files are stored by the host application software with which Smart Review System is integrated.
Alternatives	Any alternate local or UNC network paths where Smart Review System should look for the file when a user opens a file in Smart Review, and the file is not found in the default document root. Smart Review System looks for the file in the default document root first, and then looks in each of the locations that you specify in the **Alternatives** box. Each directory that you specify must consist of a name and a local or UNC network path, separated by a colon. For example, in the directory **DocRoot1:C:\Images**, **DocRoot1** is the directory name and **C:\Images** is the path. The Smart Review System API uses the name portion of the directory. To specify multiple directories, separate each with a semi-colon.

Configuring Smart Review Client Sessions

From the Smart Review System Administration home page, click **Session** to specify the parameters of the Web page URL that is used to start the Smart Review client, and the amount of time after which a Smart Review session is created that it can remain idle before being closed automatically.

Table 5: Session settings

Setting	Description
Server Name	When a Smart Review session is launched, a Web page URL is used to start the Smart Review client. The **Server Name** is the Smart Review System server identification that should be included in the URL. The value can be a server name, IP address, or fully qualified domain name (which must be entered as <host>.<domain>.<top-level domain name>—for example, `srsserver.kodak.com`).

Setting	Description
Generate Full URL	When this option is selected, the Web page URL that is returned by the session creation APIs and used to start the Smart Review client is fully qualified—that is, the URL includes `http://<server_id>`, where the server identification is the value that you specified in the **Server Name** box—for example, the URL would appear as `http://srsserver/TWAMWeb/Views/SpeDetailsView...` When this option is not selected, the Web page URL returned by the session creation APIs is a partial URL—for example, `/TWAMWeb/Views/SpeDetailsView...` In this case, the host application software is responsible for pre-pending the Smart Review System server's external address. You may want the Web page URL to appear as a partial URL instead of a fully qualified URL if, for example, you want the URL to be a relative instead of an absolute link.
Session Timeout	The amount of time after which a Smart Review session is created that it can remain idle before being closed automatically. The default time is **20** minutes. You might want to decrease the time, for example, to tighten your system security. Note that creating a Smart Review session is not the same as starting the Smart Review client. Once the Smart Review client is started, it will not be closed automatically, regardless of the amount of time that it is idle.

Configuring Smart Review Security

From the Smart Review System Administration home page, click **Security** to specify the port that the Smart Review System server and the Smart Review client will use to communicate, and, optionally, to restrict Smart Review access to specific IP addresses.

Table 6: Security settings

Setting	Description
Communication Port	The port over which the Smart Review System server and the Smart Review client communicate. The default port is **443**.
Client IP List	If you want to restrict access to Smart Review to users logging on from computers with specific IP addresses, specify the IP addresses in this box. To specify multiple IP addresses, separate each with a comma.

Specifying the Callback URL and Domain Name

If your system uses callbacks to enable Smart Review System to return information to the host application software, use Smart Review System Administration's **Callback** section to specify the callback service's URL and domain name.

For information about the specific callbacks that you can implement in the system, see the *Smart Review System API Reference Manual*.

Table 7: Callback settings

Setting	Description
Callback URL	The URL of the callback service. Smart Review System will return information to this URL.
Callback Domain Name	If the UserLogin callback is implemented for your system, and **Approval > Authorize On Approval** is selected (so that a user must specify their user name and password when setting the approval status for a file in Smart Review), use the **Callback Domain Name** box to specify the domain that will be input as the Domain parameter in the UserLogin callback. The domain name is optional. You only need to specify a domain name if the UserLogin callback implementation requires that a domain name be specified as part of the user name.

Configuring File Approval

If you want users to be able to set approval status for files through Smart Review, use Smart Review System Administration's **Approval** section to configure the behavior of file approval, and the approval statuses that will appear in the Approval dialog box when a user clicks **Approve Element** in Smart Review.

Configuring Approval Behavior

In Smart Review System Administration's **Approval** section, configure how users will be able to set their approval status for files through Smart Review, and how approval status will be communicated between Smart Review System and the host application software. Table 8 describes the settings that you must configure.

Table 8: Approval settings

Setting	Description
Authorize On Approval	Select this option if you want to prompt users for their user names and passwords when setting the approval status for files in Smart Review. (**Username** and **Password** boxes appear in the Approval dialog box.) When a user selects an approval status in the Approval dialog box, enters their user name and password, and clicks **OK**, the UserLogin callback is invoked. Therefore, if you select this option, you must also specify a **Callback URL** in Smart Review System Administration's **Callback** section. Select this option if you want to authenticate users before accepting their approval actions.
Approve On Close	Select this option if you want to prompt the user to set the approval status for a file when they close a Smart Review session. When the user closes Smart Review, the Approval dialog box automatically appears, prompting the user to set their approval status for the last file that they viewed in Smart Review before closing the session. The Approval dialog box appears regardless of whether the user already set the approval status for the file during their session.
Enable Synchronous Callback for Approval	Select this option if you want Smart Review System to wait for a response from the host application software's callback service before displaying a user's approval status in the **User Approval** area in Smart Review. When this option is selected, the SynchronizeUserApproval callback is invoked. For more information about this callback, see the *Smart Review System API Reference Manual*.

Configuring Approval Statuses

You use Smart Review System Administration's **Approval** section to configure the approval statuses that will be appear in the Approval dialog box when a user clicks **Approve Element** in Smart Review.

Some default approval statuses come with Smart Review System, but you may want to create additional approval statuses, or remove the default ones.

To create an approval status:

1. In Smart Review System Administration, click **Approval**.
2. Click **Add** at the bottom-right of the approval statuses table.

   A new row appears in the table.
3. Enter information in the new row as described in Table 9, and click **Update**.

   To create another approval status or to modify an existing approval status, click **Edit** at the top of the screen. Click **Done** if you are finished modifying the approval statuses.

Table 9: Approval Status settings

Setting	Description
Status	The name of the approval status. This is the phrase, or string, that is returned by Smart Review System to the host application software when a user sets their approval status in Smart Review. To change the status name, double-click the name to highlight it, and type the desired name. The modified name will appear in red until you save the changes.
System Id	This setting is not currently supported by Smart Review System. It does not matter what you select in this column.
Read Only	Select this option if you do *not* want the approval status to appear in the Approval dialog box in Smart Review. You might want to select this option if, for example, you want to be able to set this particular approval status for a file through the API only, and not through Smart Review. When you select this option, Smart Review can read and display the file's approval status, but the user cannot select that status from within the Smart Review client. To select this option, click in the box in the **Read Only** column. A check mark appears when the option is selected.
No Action	Select this option if you want the approval status to appear in the Approval dialog box in Smart Review, but to take no action when this particular status is selected. You might want to select this option if, for example, you selected the **Approve On Close** option. (This option causes the user to be prompted to set the approval status for a file when they close a Smart Review session.) In this case, you might want to make a "no action" approval status available so that a user who is not ready to set the approval status for the file can still exit the Smart Review session. (The Approval dialog box that appears when a user closes a Smart Review session does not include a **Cancel** button.) To select this option, click in the box in the **No Action** column. A check mark appears when the option is selected. If you do not select this option, the approval status will appear in the Approval dialog box and will take effect when selected.
Display	It is possible to set a "document approval" status for a file in the API. Select this option if you want the file's document approval status to be displayed in the **Document Approval** area of Smart Review whenever a document approval status has been set for the file *and* it matches the string in the **Status** column for this approval status. To select this option, click in the box in the **Display** column. A check mark appears when the option is selected.

Setting	Description
Description	The wording of the approval status as it appears for selection in the Approval dialog box in Smart Review. The approval status description also appears in the **User Approval** area of Smart Review once the user has set their approval status for the file.

To delete an approval status:

1. Click **Delete** next to the approval status that you want to delete, and click **Update**.
2. When prompted to confirm that you want to delete the status, click **OK**.

   The status disappears.
3. Click **Done**.

Configuring User Roles

Smart Review System provides eight permissions that enable specific functionality in the Smart Review client. You can combine these permissions in different way to create roles, and then assign the roles to your users (through the host application software) to define what features will be available to each user when they open Smart Review.

When a Smart Review session is created for a user, Smart Review System identifies the role associated with the user, and then looks up the permissions associated with that role. When the user starts the Smart Review client, only the features associated with the permissions included in their role will be visible to the user.

You can create an unlimited number of user roles. Some default user roles come with Smart Review System, but you may want to create additional roles, modify the permissions included in an existing role, or remove roles.

You use Smart Review System Administration's **Roles** section to create roles and select the permissions to include in each role.

For information about assigning roles to your users, see the *Smart Review System API Reference Manual*.

To create a user role:

1. In Smart Review System Administration, click **Roles**.
2. Click **Add** at the bottom-right of the roles table.

   A new row appears in the table.
3. To give the role a name, highlight the name of the role, and type the new name as desired.
4. Select the permissions that you want to include in the role. Table 10 describes each permission.
5. Click **Update**.

   To create another role or to modify an existing role, click **Edit** at the top of the screen. Click **Done** if you are finished modifying the roles.

Table 10: User role permissions

Permission	Description
View	Enables the user to launch the Smart Review client. When you create a role, this permission is automatically selected and cannot be cleared.
Proof	• Enables the **File > Print to File** menu item, which enables the user to save a copy of the file as a CMYK TIF file • Enables the **File > Generate Proof Report** menu item, which enables the user to view a report summarizing all annotations added to the file
ViewNotes	• Enables the user to see all annotations made by other users on the file • Enables the **View > Show Annotations** and **Window > Annotation Manager** menu items (to view annotations made by any users)
WriteNotes	• Enables the user to add and view their own annotations on the file • Enables the annotation tools, except for the Densitometer, Ruler, and Square Ruler tools (to enable these tools, the Measure permission must also be selected for the role) • Enables the **View > Show Annotations** and **Window > Annotation Manager** menu items (to view their own annotations only)
SaveAs	Enables the **File > Print** menu item, which enables the user to print the file to a local printer
Measure	Enables the Densitometer, Ruler, and Square Ruler annotation tools **Note:** To enable the user to check color density or take measurements using these tools, the WriteNotes permission must also be selected for the role.
ReadApprove	Displays the user's current approval status for the file in the **User Approval** area of Smart Review
ChangeApprove	Enables the user to click the **Approve Element** button and set their approval status for the current file

To delete a user role:

1. Click **Delete** next to the role that you want to delete, and click **Update**.
2. When prompted to confirm that you want to delete the role, click **OK**.
   The role disappears.
3. Click **Done**.

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Overview

If the Matchprint Virtual technology is licensed for your system, you can use Matchprint Virtual software to view color-accurate proofs of files in Smart Review. (For instructions on setting up the Matchprint Virtual software, see *Setting Up Matchprint Virtual* on page 28.)

When a user monitor-proofs a file in Smart Review using Matchprint Virtual software, the file must be converted from its original color space to an RGB color space that can be viewed on the monitor. The file's colors as they appear on the monitor must also accurately represent the colors as they will look when the file is output to a proofer or printed on a printing press.

Color Conversion Process

device independent color space: an intermediate color space such as L*a*b* that is used when converting from one color space to another (for example, from CMYK to RGB).

To perform color conversion, Smart Review renders the file according to any *source profiles* that are assigned to the file and the *color target* that is applied to the file. Smart Review first converts the graphic and image objects in the file from their original CMYK or RGB color spaces to a device independent color space and then to CMYK press space. This is done by applying the source profiles assigned to the file, and then applying the press profile selected in the color target. The result is an intermediate image in CMYK press space, which corresponds to the color space and gamut of the output device (for example, a printing press).

Smart Review then converts the CMYK image in press space to a device independent color space and then to an RGB color space for display on the monitor. This is done by applying the proof profile selected in the color target, and then applying an RGB monitor profile from Matchprint Virtual.

Figure 1 illustrates the color conversion process.

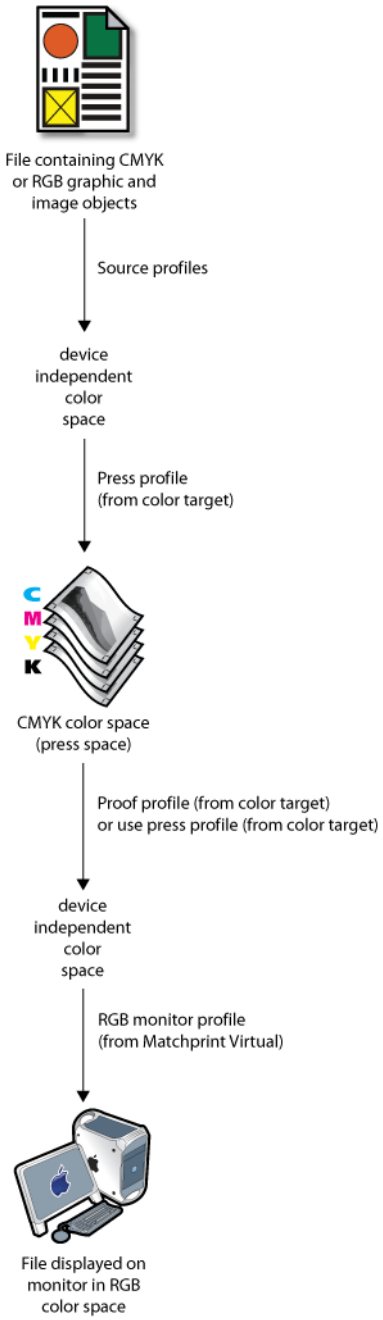


Figure 1: Color management in Smart Review

Source Profiles

The source profile of a file specifies how the CMYK or RGB values in the file should be interpreted as an actual color when displayed or output through a given device. Source profiles can be assigned to a file when the file is created (for example, in Adobe Photoshop® or Adobe Illustrator®) or by a device such as a camera or scanner).

Color Targets

A color target defines how to display a file's colors on a monitor so as to accurately represent what the file will look like when output to a proofer or printed on press.

You create color targets in Color Target Manager on the Smart Review System server. (For instructions, see *Creating a Color Target* on page 23.) The color target that is associated with a given file is then specified in the Smart Review System API. For information about configuring the Smart Review System API, contact your service representative.

You may want to create multiple color targets if you have multiple color output devices with different color characteristics, or you have variable printing conditions such as different paper and inks.

When you create a color target, you can specify the following:

- A press profile
- A proof profile
- Color conversion settings
- A media white point

A *press profile* describes the color space of an *output device*. When a color target is applied to a file, the press profile associated with the color target converts the file from a device independent color space (such as L*a*b*) to the CMYK color space that corresponds to your press's available color gamut and specific printing conditions. (The CMYK color space may also be referred to as the CMYK *press space*.) You may have multiple press profiles if you have multiple presses or output devices with different color characteristics, or variable printing conditions.

A *proof profile* describes the color space of a *proofing device*. When a color target is applied to a file, the proof profile associated with the color target converts the file from the CMYK color space to a device independent color space again, and then to an RGB color space so that the file can be viewed on an RGB color monitor in Smart Review. The proof profile ensures that the file's colors that you see on screen accurately represent what the file's colors would look like if you output the file to the proofer with which the profile is associated. (You can also use the press profile for the proof profile. This is discussed in detail on page 25.)

The proof profile may be a custom ICC color profile that you receive from Kodak Color Services for your proofer. You will likely have one proof profile for each of your color proofers. We recommend that you store all of your proof profile .icc files in the folder **<SRS_system_drive>\Kodak\TWAM\data\ICC-Profiles.**

For more information about selecting profiles and color conversion options in a color target, see *Creating a Color Target* on page 23.

Creating a Color Target

1. On the Smart Review System server, select **Start > Programs > Kodak SRS > Color Target Manager**.

   The Manage Color Targets dialog box lists any existing color targets.
2. From the **File** menu, select **New Color Target**.
3. Select the options in the New Color Target dialog box as described in Table 11 and click **Create**.

   The new color target appears in the **Color Target** list in the Manage Color Targets dialog box.

Table 11: New Color Target dialog box options

Option	Description
Color Target Name	Type a name for the color target. This is the name that will be used in the Smart Review System API.
Press Profile	Select from the list the press profile that you want to associate with this color target. Only press profiles that reside in the folder **<SRS_system_drive>\Kodak\TWAM\data\MatchprintVirtual\Press ICC Profiles** are listed. You can make additional press profiles available in the list by placing their .icc files in the **Press ICC Profiles** folder. When you place a press profile in the folder, it automatically appears in the **Press Profile** list. (You may need to refresh Color Target Manager.) **Tip:** The **Press ICC Profiles** folder also includes a subfolder called **unused**. If you do not want a certain profile to appear in the **Press Profile** list, you can move the profile's .icc file into the **unused** folder. You can easily move the profile back into the root **Press ICC Profiles** folder later if you want the press profile to appear in the list again. Note that the name of a profile as it appears in the **Press Profile** list may not match the file name of the profile in the **Press ICC Profiles** folder. This is because the .icc file may contain a display name that determines how the profile appears in the list. As well, there may be more .icc files in the folder than appear in the **Press Profile** list. This is because the list displays only CMYK profiles; other color space profiles that reside in the folder do not appear in the list. The **Press Profile** list also displays a default selection that appears as <Default - [default_profile]>. The .icc file for this profile does not reside in the **Press ICC Profiles** folder and you cannot change the default profile. As well, when you select the default profile in the list, you cannot select **Use Press profile for Proof profile**.

Option	Description
Rendering Intent	The method for converting colors from one color space to another and adjusting colors that are out of gamut for the destination device. This applies to the conversion from source profiles to press space. Different rendering intents use different rules to determine how source colors are adjusted. For example, colors that fall inside a destination gamut may remain unchanged, or may be adjusted to preserve the original visual relationships when translated to a smaller destination gamut. Options are as follows: • **Perceptual**—Tries to preserve the visual relationship between colors so that they are perceived as natural to the human eye, even though color values may change. This method is suitable for photographic images with many out-of-gamut colors. • **Saturation**—Tries to produce vivid colors at the expense of color accuracy. This method is suitable in cases where bright, saturated colors are more important than the relationship between the colors. • **Relative Colorimetric**—Compares the extreme highlight of the source color space to that of the destination color space and shifts all colors accordingly. Out-of-gamut colors are shifted to the closest reproducible color in the destination color space. • **Absolute Colorimetric**—Tries to maintain color accuracy at the expense of preserving relationships between colors. Leaves colors that fall inside the destination gamut unchanged, while out-of-gamut colors are clipped. There is no scaling of colors to the destination white point.
Use black point compensation	Select this option if you want to preserve the shadow details in an image by simulating the full dynamic range of the output device. This option is recommended if black point compensation will be used when printing.
PDF/X output intent overrides press profile	Select this option if you want any color profiles embedded in a PDF file to override the selected press profile. Applies to PDF/X-compliant files only.

Option	Description
Use Press profile for Proof profile	It is possible for the proof of an image to look different than what the image will look like when printed on a press. If you would prefer that your customer monitor-proofs a representation of a file as it would look when printed on press rather than as it would look when output to a proofer, select **Use Press profile for Proof profile**. When you select this option, the press profile that you selected in the **Press Profile** list automatically appears in the **Proof Profile** box, indicating that the same press profile will be used both to convert the file to CMYK press space and then to the monitor's RGB color space. If you would prefer that your customer monitor-proofs a representation of a file as it would look when output to a proofer, select a proof profile in the **Proof Profile** box instead.
Proof Profile	Click **Browse** to locate and select the proof profile (an .icc file) that you want to associate with this color target. (Note that this option is available only if you *did not* select **Use Press profile for Proof profile**.) The recommended location for storing your proof profiles is **<SRS_system_drive>\Kodak\TWAM\data\ICC-Profiles**, although you can browse to and select profiles from other locations.
Media White Point	Type the **X**, **Y**, and **Z** values for the paper stock that you want to associate with this color target.

Note: When you create a color target, a new folder is created for the color target in **Twam\data\ColorManagement** and copies of the press and proof profiles that you selected for the color target are placed in this new folder. The original copy of the press profile remains in the **<SRS_system_drive>\Kodak\TWAM\data\MatchprintVirtual\Press ICC Profiles** folder, and the original copy of the proof profile remains in the **<SRS_system_drive>\Kodak\TWAM\data\ICC-Profiles** folder (or wherever you originally stored the proof profile's .icc file).

Modifying A Color Target

You can modify an existing color target, for example, if you want to change the press or proof profile that it uses, or change its other color conversion settings. You can also create a new color target by using an existing color target. This is convenient if you want to create a new color target that has many of the same settings as an existing color target.

To modify an existing color target:

1. On the Smart Review System server, select **Start > Programs > Kodak SRS > Color Target Manager**.

   The Manage Color Targets dialog box lists any existing color targets.
2. In the **Color Target** list, either double-click the color target that you want to modify, or select the color target and select **Edit > Edit Color Target**.
3. Modify the color target as desired and click **OK**.

To create a new color target based on an existing color target:

1. In Color Target Manager, in the **Color Target** list, select the existing color target on which you want to base the new target.
2. Select **Edit > Copy Color Target**.
3. Type a name for the new color target and click **Copy**.
4. Modify the new color target as desired. (See the previous procedure.)

Specifying a Default Color Target

If desired, you can specify a default color target to be applied to all files. (If you prefer to apply different color targets to different files, you specify this in the Smart Review System API instead.)

1. In Smart Review System Administration (see *Starting Smart Review System Administration* on page 6), click **Color**.
2. In the **Default Color Target** box, select the color target that you want to apply to all files.
3. Click **Update**.

Defining Spot Color L*a*b* Values

Smart Review System provides a spot color database that you can use to define the L*a*b* values of spot colors. When you monitor-proof a file in Smart Review that contains a spot color, Smart Review looks in the spot color database for the name of the spot color that matches the spot color found in the file. If it finds a match, it uses the L*a*b* recipe from the database (rather than the CMYK recipe from file) to convert the spot color from CMYK to L*a*b* to RGB. This results in more accurate color representation in Smart Review.

The database comes with a number of PANTONE® spot color recipes already defined, but you can add additional spot colors as desired. You can also modify a spot color's values, create a new spot color recipe based on an existing recipe, and delete a spot color.

To define a new spot color's L*a*b* values:

1. On the Smart Review System server, select **Start > Programs > Kodak SRS > Color Editor**.
2. Click **Add**.
3. In the **Name** box, type a name for the spot color.
4. In the **Opacity** list, select the spot color's opacity.
5. Adjust the sliders (or type in the corresponding text boxes) to specify the spot color's **L**, **A**, and **B** values.
6. Click **Apply**.

   The new spot color appears in the **Colors** area.

To modify a spot color:

1. In the **Colors** area, select the spot color that you want to modify and click **Edit**.
2. Modify the spot color's name, opacity, and L*a*b* values as desired and click **Apply**.

To create a new spot color based on an existing spot color:

1. In the **Colors** area, select the existing spot color on which you want to base the new spot color, and click **Copy**.
2. In the **Name** box, type a name for the new spot color.
3. Modify the spot color's opacity and L*a*b* values as desired and click **Apply**.

   The new spot color appears in the **Colors** area.

To delete a spot color:

1. In the **Colors** area, select the spot color that you want to delete and click **Remove**.
2. When prompted to confirm that you want to delete the color recipe, click **Yes**.

Note: Smart Review System does not prevent you from deleting or modifying the standard PANTONE spot color recipes.

Setting Smart Review's Paper Size

When viewing a color-managed file in Smart Review, a user can resize the image to fit the full screen for optimal color-accurate viewing. When the image is viewed in full screen mode, a border representing the paper background appears around the image. You can configure the size of this border. You may want to change the size of the border because the white space around the image can affect how the image's colors appear on screen.

The color of the border is determined by the media white point specified in the color target that is applied to the file.

1. In Smart Review System Administration (see *Starting Smart Review System Administration* on page 6), click **Color**.
2. In the **Paper Background Size** box, specify the desired size of the paper border in points. (The default size is **72** points.)
3. Click **Update**.

For instructions on viewing a full screen preview of a file in Smart Review, see the Smart Review help.

Setting Up Matchprint Virtual

Licensing the Software

Matchprint Virtual is a licensed option; your Smart Review System software license controls whether your system will have the Matchprint Virtual feature and the number of customers who have access to this feature.

Typically your Smart Review System license key is entered during the installation of the software. You may want to view your license key to see which licensed options you have, or you may need to enter a new license key if you purchased the Matchprint Virtual option after the initial installation of your Smart Review System software. For instructions, see *Viewing and Adding Licenses* on page 6.

Installing Calibration Software

To ensure color-accurate viewing, your users must install Matchprint Virtual calibration software on their qualified Macintosh computers and must run it daily to calibrate the monitor. If the deltaE exceeds 2.5, calibration fails.

For instructions on installing the calibration software, as well as a list of approved monitors and other hardware requirements, see the *Matchprint Virtual for Smart Review System Quick Start Guide*, available on http://graphics.kodak.com/matchprintvirtual.

Adjusting Your Viewing Environment

You and your customers are responsible for assessing and adjusting your own viewing environments to ensure that they meet the basic standards for color-accurate monitor-proofing. For tips on managing your viewing environment, see the *Matchprint Virtual System Administration Guide*, available on http://graphics.kodak.com/matchprintvirtual.

5

Backing Up the System

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Overview

It is essential that you regularly back up Smart Review System, in the event that you experience disk failure, power outage, or virus infection and need to restore lost or damaged data. We recommend that you back up the system daily to ensure maximum data recovery. You should also run regular tests to ensure that your backup files will be available in the event of an emergency.

There are two main parts to backing up the system. The first part—the system backup—can be configured to run automatically for you. The second part—the data backup—is *your responsibility* to set up and perform on a regular basis.

During system backup, the Smart Review System server's Oracle® database, the System drive, and files on the Data drive in **<Data_drive>\inetpub\wwwroot\TwAmWebRoot** are automatically saved to a backup file called **SysStateBackup.bkf**. You are responsible for storing a copy of this file, for example, to another server or to tape. (For details about the system backup process, see *Triggering the System Backup Process* on page 30.)

However, the system backup does not back up any of the Smart Review System system information on your Data drive. You are responsible for implementing your own backup solution to back up and store the system information files on your Data drive. For more information, see *Setting Up Your Data Backup Process* on page 31.

For detailed instructions on how to configure, back up, and recover backups for Smart Review System, contact your service representative.

Triggering the System Backup Process

The system backup can be configured to run automatically, and consists of two parts.

First, an Oracle database backup, triggered by Oracle Backup Manager, runs automatically each day. The default time is 3:00 AM, although your service representative can change the scheduled time for you. This backs up the Oracle database on the Smart Review System server.

The backed up Oracle database files are placed on the DataLog drive in **<DataLog_drive>\Orant\Oracle\ArchivedLogFiles\Backups**. Oracle backup log files are also created and placed on the System drive in **<System_drive>\Oracle\ORA92\Creo\Logs**.

The completion of the Oracle database backup then triggers the Smart Review System Online Backup. Smart Review System Online Backup backs up the following files:

- Everything on the System drive
- The backed up Oracle database files in **<DataLog_drive>\Orant\Oracle\ArchivedLogFiles\Backups**
- All files in **<Data_drive>\inetpub\wwwroot\TwAmWebRoot**

Smart Review System Online Backup then checks the backup, updates the primary registry key, and creates the backup file **SysStateBackup.bkf**, which it places in **<DataLog_drive>\AraxiBackup**. (Backup log files are also created and placed in **<System_drive>\Kodak\TWAM\System\Log\Backup**. You can check the latest log file to verify whether an Online Backup was successful.)

You are responsible for storing a copy of the backup file **SysStateBackup.bkf** according to your backup plan (for example, to another server or to tape). We recommend that you automate copying of the backup file to the desired storage location on a daily basis.

To ensure that Smart Review System Online Backup is triggered after the Oracle backup, take the following steps:

1. On the Smart Review System server, open the folder **<System_drive>\Oracle\ORA92\Creo\Util**.
2. Open the file **SuccessfulBackup.cmd** in a text editor.
3. Edit the file to remove `REM` from the beginning of the line `%AraxiHome%\TWAMInstall\...StartAraxiBackup.cmd`.

   This line tells Online Backup to start after a successful Oracle backup is completed.
4. Save and close the file.
5. Open the file **UnSuccessfulBackup.cmd** in a text editor.
6. If you want Online Backup to start even if the Oracle backup is not successful, edit the file to remove `REM` from the beginning of the line `%AraxiHome%\TWAMInstall\...StartAraxiBackup.cmd`. If you want Online Backup to start only when the Oracle backup is successful, do not modify the file.
7. Save and close the file.

   The next time Oracle backup finishes, Online Backup will be triggered accordingly.

Setting Up Your Data Backup Process

As described in *Triggering the System Backup Process* on page 30, Smart Review System Online Backup automatically backs up certain files on the System, DataLog, and Data drives on your Smart Review System server. However, you are responsible for implementing your own backup solution to back up and store the Smart Review System system information on your Data drive.

The amount of information on your Data drive may be very large. It is up to you to choose and implement a third-party backup solution that meets your needs. Smart Review System does not have any special backup constraints, so any standard backup solution should work.

We recommend that you automate the backup to run on a daily basis.

We recommend that you back up the following folders on the Data drive:

- **ProofPartnerSystemData\System**—Contains any files added to Smart Review System, Smart Review annotations associated with those files, and other related information. It is critical that you back up the contents of this folder.
- **ProofPartnerSystemData\Elements** and **ProofPartnerSystemData\Thumbnails**—Contain cached thumbnail images and cached raster images (.png files) used by Matchprint Virtual. It is not critical that you update the contents of these folders, but if you do not, the system will have to regenerate the thumbnail and raster images as needed.
- **inetpub**—The contents of this folder are already backed up as part of the **SysStateBackup.bkf** backup file, but you may want to back up the files in this folder again for redundancy.
- **Oracle**—The contents of this folder are already backed up as part of the **SysStateBackup.bkf** backup file, but you may want to back up the files in this folder again for redundancy.

What To Do If Backup Fails

Monitor your system on a regular basis to ensure that backup is successful. (You should check the Smart Review System server regularly to ensure that enough disk space is available for the files that are created during the backup process.) It is essential that you have the most up-to-date backup data available, should you be required to recover your system.

Online Backup automatically monitors the system to confirm system backup success, but you must monitor the success of your Data drive backup.

If backup fails, try to determine why it failed. Backup may fail for a number of reasons, including insufficient disk space or network problems. If you can identify the cause of the failure, take appropriate steps to prevent future failures, if possible.

If you cannot identify the cause of the failure, or if failure persists, contact your service representative.

Glossary

black point compensation	The process of preserving the shadow details in an image by simulating the full dynamic range of the output device. In Smart Review System, you can select the **Use black point compensation** option when you create a color target.
caching	The process of creating and storing temporary image data to improve subsequent performance (for example, in Smart Review).
color space	A set of rules and definitions that together describe colors. Examples are CMYK, RGB, CIE L*a*b*, and monochrome. A color space interprets the raw color values in an image to display the image's colors a certain way when the image is viewed on screen or output to a device.
color target	The specifications for displaying a file's colors on a monitor so as to accurately represent what the file will look like when output to a proofer or printed on press.
device independent color space	An intermediate color space such as L*a*b* that is used when converting from one color space to another (for example, from CMYK to RGB).
gamut	The range of colors that can be displayed or output by a given device.
L*a*b* color space	An intermediate color space used when converting from one color space to another (for example, from CMYK to RGB).
Matchprint Virtual technology	Software that enables you to perform color-accurate monitor-proofing on files in Smart Review.
monitor-proofing	The process of using a computer monitor as a color-accurate proof. The image on the monitor must accurately reflect what it will look like when a proof is made, or when it is printed on press. Also known as *soft proofing* or *virtual proofing*.
press profile	A description of the color space of an output device—for example, a printing press. When a color target is applied to a file, the associated press profile converts the file from L*a*b* color space to the CMYK color space that corresponds to your press's available color gamut and specific printing conditions.
proof profile	A description of the color space of a proofing device. When a color target is applied to a file, the associated proof profile ensures that the file's colors displayed on screen accurately represent what the file would look like if output to a specific proofer. Kodak Color Services can provide you with a custom ICC color profile to use as the proof profile.

rendering intent The method for converting colors from one color space to another and adjusting colors that are out of gamut for the destination device.

Smart Review A tool that you can use to open a detailed, full-resolution preview of a file, view the file in different ways, annotate and mark up the file, and set the file's approval status.

When Matchprint Virtual technology is licensed for your system, you can also use Smart Review to view color-accurate monitor-proofs of files.

source profile The specifications for how the CMYK and RGB values in a file should be interpreted as an actual color when displayed or output through a given device.

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