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<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.0</td>
<td>16 June 2021</td>
<td>New document.</td>
</tr>
</tbody>
</table>

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The Security, Audit, and Electronic Signature (SAE) Administrator Console (Admin Console) is available for many instruments and software from Thermo Fisher scientific, including but not limited to Quant Studio, Attune NxT, Countess™ 3 and 3 FL instruments, and iBright™ Imaging Systems.

This guide describes the procedures that an administrator performs to configure and manage the SAE features of the and Countess™ 3 and 3 FL instruments.


Network and password security requirements

The network configuration and security settings of your laboratory or facility (such as firewalls, anti-virus software, network passwords) are the sole responsibility of your facility administrator, IT, and security personnel. SAE software should be installed on a server with a static ip address in a network accessible by the Countess™ 3 and 3 FL instruments.

If external or network drives are connected to the software, it is the responsibility of your IT personnel to ensure that such drives are configured and secured correctly to prevent data corruption or loss. It is the responsibility of your facility administrator, IT, and security personnel to prevent the use of any unsecured ports (such as USB, Ethernet) and ensure that the system security is maintained.

Thermo Fisher Scientific strongly recommends that you maintain unique passwords for all accounts in use on this product. All passwords should be reset upon first sign-in into the product. Change passwords according to your organization’s password policy.

It is the sole responsibility of your IT personnel to develop and enforce secure use of passwords.
Countess™ 3/3 FL SAE Software Solution for 21 CFR Part 11 compliance

21 CFR part 11 is a regulation that describes the criteria for acceptance by the FDA for electronic records and electronic signatures. Part 11 is composed of procedural and technical requirements. Procedural requirements are the standard operating procedures instituted by the end user, and technical requirements are the technical characteristics of the compliance management software used.

The Countess™ 3/3 FL SAE Software Solution for 21 CFR Part 11 consists of:

- **SAE Administrator Console** — Used to configure the Security, Audit and e-Signature settings on SAE module
- **Countess™ 3/3 FL SAE License** — Used to activate the SAE settings for the Countess™ 3/3 FL instruments
- **Countess™ 3/3 FL Instrument SAE mode** — Instrument firmware connected with SAE Administrator Console

The combination of this technical offering does not guarantee 21 CFR part 11 compliance alone. Compliance is the consequence of the end user’s work process and systems used.

Administrator overview

The SAE Admin Console is a component of the Countess™ 3/3 FL instruments System 21 CFR Part 11 support software that allows you to configure the Countess™ 3/3 FL instruments to meet specific requirements. The SAE Admin Console provides the following functionality:

- **System Security** – Controls user access to the software. Two default Administrator user accounts are provided, one with full privileges and the other with no privileges. Additional user accounts and permissions can be user-defined.
- **Auditing** – Tracks actions performed by users, and changes to the SAE module settings. The software automatically audits some actions silently. You can select other items for auditing and specify the audit mode. The auditing function provides reports for audited SAE module changes and actions.
- **Electronic signature (e-signature)** – Determines if users are required to provide a user-name and password when performing certain functions. You can configure e-signature so that a user can export a signed file and print a signed report. You can also configure the e-signature event to require multiple signatures and to require users with specific permissions to sign.
Example applications

You can configure the Security, Audit, and Electronic Signature (SAE) module in a variety of ways. For example, you can:

• Require users to log in and leave audit disabled
• Allow only certain users to adjust images
• Allow only certain users to perform analysis
• Allow only certain users to annotate images
• Allow only certain users to edit system preferences
2

Manage SAE user accounts and roles

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- Change password ........................................................................ 11
- Create or edit a user role ................................................................. 11
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Enable the SAE Admin Console

The SAE Admin Console is available for download from http://www.thermofisher.com/countess3.

**Note:** Countess™ 3/3 FL instruments require installation of the SAE Admin Console v2.1. If using an older version of the SAE Admin Console, it is recommended to install this new version on a separate PC.

1. Install the program and launch the application.

   **Note:** Install the console on a server with a static IP to ensure a reliable connection to the Countess™ 3/3 FL instruments.

2. Enter the Administrator **User Name** and **Password**, then click **Sign in**.

   **Note:** The default username and password are “Administrator”.

   **Note:** After signing in, you will be prompted to change your password. The following symbols cannot be used in the password as they are not compatible with the Countess™ 3/3 FL instruments: + & % \
Installation of Countess™ 3/3 FL instrument software profiles


1. Download the Countess™ 3/3 FL instrument application profile.

2. In the SAE Admin Console, go to Settings and click on Manage Application Profiles.

3. Click Install Application Profile at the bottom of the page.

4. Select the Choose File option in the pop-up window to select and open the data file for the Countess 3 (1.0.0).dat. The selected file name will appear by the side of the Select File option in the pop-up window.

5. Select Verify Data File and then select Install.

6. (Optional) Select Countess™ 3 or 3 FL from the list and select View Details to see the application details.

Determine the logged-in user

The name of the logged-in user is displayed in the top-right corner of the SAE Admin Console window.

Create a user account

1. In the Users tab, click Create, then enter the user name, password, first name, (optional) middle initial, and last name. The field limits are specified in the system security function settings.

   Note: First name, MI (middle initial), and last name are used to create the User Full Name, which is displayed recorded in the Action Records under Audit History in SAE Admin Console.

   Note: You cannot change the user name after you save the user account.

2. Select User must set new password at next sign in to require the user account to specify a new password at first login.

   Note: The user account password automatically expires after the number of days specified in the system security function settings.

3. Select the user role from the drop down menu by Role. To create custom roles, see “Create or edit a user role” on page 11.

   Note: Three default roles (Admin, Lead Scientist, and Technologist) are automatically included in the Application Profile.
4. Leave the status set to Active.

5. (Optional) Enter phone, email (for information only), and comments.

6. Click Save.

**Edit a user account**

1. In the Users tab, select a user account, then click Edit.

2. Edit the settings as desired.

   **Note:** You cannot edit the user name of an existing user. You cannot delete an existing account.

3. Click Save.

**Activate a suspended user account**

1. In the Users tab, select a user account, then click Edit.

2. Change the Status from SUSPENDED to ACTIVE.

3. Click Save.

**Disable (inactivate) a user account**

1. In the Users tab, select a user account, then click Edit.

2. Change the Status from ACTIVE to INACTIVE.

3. Click Save.

**Reset a forgotten password**

1. In the Users tab, select the affected user account, then click Edit.

2. Enter a replacement password for the user account, then re-enter the password for confirmation.

3. If you assigned the user account a temporary password, select **User must set a new password at next sign in** to require the user to enter a new password at login.

4. Click Save.
Change password

1. From the dropdown list, select **Change password**.

   **Note:** You can access the **Change Password** dialog box from any tab.

2. Enter the old password.

3. Enter a new password, confirm the new password, then click **Update**.

   **Note:** The following symbols cannot be used in the password as they are not compatible with the Countess™ 3 and 3 FL instruments: + & % \ 

Create or edit a user role

User roles determine the permissions associated with a user account. The Countess™ 3 and 3 FL SAE modules provide two default user roles:

- Admin
- Lead Scientist
- Technologist

Create or edit a user role

In the **Roles** tab, you can create new roles with customized settings, modify the **Admin**, **Lead Scientist**, and **Technologist** roles, delete roles, and generate a role report as needed.

**Note:** Roles assigned to a user account cannot be deleted.

1. In the **Roles** tab, click **Create**.

2. Enter a role name and (optional) description.

3. Select permissions (see “Permissions and default user roles” on page 12). To select all permissions in a category, select the check box next to the category.

   **Note:** Operations not shown in the table “Permissions and default user roles” on page 12 are available to all user roles.

4. Click **Save**.
Permissions and default user roles

To determine the permissions for a default role or to edit it, select the role then click Edit.

The following table shows all user-configurable permissions and the settings for the default user accounts.

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Lead Scientist</th>
<th>Technologist</th>
<th>Admin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setup</strong></td>
<td>Sign in To Thermo Fisher™ Connect</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Create Thermo Fisher™ Connect profile on-device</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Unlink Thermo Fisher™ Connect profile on-device</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Load Protocol</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Import Protocol</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Export Protocol</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Delete Protocol</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Edit Protocol</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Change save settings</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Create Protocol</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjust light intensity</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjust focus</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Select capture channels</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Capture selected channels</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Calculators</strong></td>
<td>Pre-dilution calculator</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Cell-splitting calculator</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>View</strong></td>
<td>Turn on/off channel images</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Turn on/off channel contours</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Open/close histogram</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Adjust Count</strong></td>
<td>Adjust gating parameters</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Save images/results</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjust save options</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Table 1 Conferrable permissions and default user roles (continued)

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Lead Scientist</th>
<th>Technologist</th>
<th>Admin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjust Count</td>
<td>Adjust save name</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Instrument</td>
<td>Change light cubes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Settings</td>
<td>Adjust Date/Time</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Connect to WiFi network</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Reset instrument</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Update software</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>View About software</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copy error logs</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Edit a user role

1. In the Roles tab, select a role, then click Edit.

   Note: Roles assigned to users cannot be deleted.

2. Edit settings as needed, then click Save.

Delete a user role

In the Roles tab, select a user role, then click Delete.

Generate, view, and print a user or role report

1. In the Users or Roles tab, click Report.
   The user report or role report downloads to the default location set by your computer.

2. Click on the download report tab in the bottom of the screen to view the report in a new tab of the web browser or to open the location of the downloaded report .pdf on your computer.

3. Use the options available in the .pdf viewer to save and print the report.

4. Close the report.
Manage the system security function

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- Configure account setup and security policies ........................................... 14
- Set up messaging notifications .................................................................. 16
- Set up SMTP configuration ......................................................................... 17

Access the system security function screen

Use the System tab to control restrictions and security policies for all user accounts and to set up notifications when certain security events occur.

Note: The system security is enabled by default, and cannot be disabled.

1. See “Configure account setup and security policies” on page 14 to set or modify the system security function settings.

2. Click Apply Settings.

Configure account setup and security policies

In the Systems tab, specify user name and password settings.

The new settings are applied to the user account the next time that the user logs in.

Note: Click the pane heading to collapse or expand the pane.

1. In the User Name Settings pane, enter the minimum and maximum number of characters for a user name.

Note: The minimum and maximum number of allowed characters are 1 and 256 respectively. Care must be taken to ensure that the user name restrictions are similar on both the SAE Admin Console and the Countess™ 3/3 FL instruments.
2. In the **Password Policy** pane:
   a. Enter the minimum and maximum number of characters for a password.

   **Note:** The minimum and maximum number of allowed characters are 1 and 256 respectively. Care must be taken to ensure that the password restrictions are similar on both the SAE Admin Console and the Countess™ 3/3 FL instruments.

   b. In the **May not reuse previous** field, enter the number of most recent passwords that the software should remember to avoid password reuse.

   c. Select the complexity rules for creating a password and enter the minimum number of occurrences for that rule.

   **Note:** Ensure that the complexity rules set here are compatible with the Countess™ 3/3 FL instruments.

   **Note:** Do not use the following symbols in the password as they are not supported by Countess™ 3/3 FL instruments: + % & \\n
   d. Enter the maximum and minimum number of days for which the password is valid.

   e. Enable or disable the **Password expiry** reminder.

   **Note:** If you select *Enabled*, enter the number of days before expiry for the reminder to be sent.

3. In the **Account Lockout Policy** pane, enable or disable the **Account Lockout** feature. If you select *Enabled*:
   a. Enter the **Threshold** limit for login attempts.

   b. Enter the **Account lockout duration** in minutes.

   c. Enable or disable allowing the counter for login attempts to be reset.

   d. Enter the **Reset account lockout** duration in minutes.

4. In the **Other Settings** pane:
   a. Enable or disable **Client offline login**.

   **Note:** If you select *Enabled*, enter the **Offline login threshold** in minutes

   **Note:** It is important to enable Client offline login and set a sufficiently high threshold value (>30 minutes) for a stable SAE mode connection to Countess™ 3/3 FL instruments.

5. Click **Apply Settings**.

   **Note:** Click **Reset to Defaults** to reset all the system security settings to their default values.

6. Enable the offline login again and set a sufficiently high threshold value (>30 minutes) after reset.
Set up messaging notifications

You can specify when and how the SAE Admin Console notifies the administrator of certain SAE events.

1. From the **Settings** dropdown menu, select **Notifications**.

2. In the **Edit Notifications Settings** dialog box, select the events for notification:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>System security enabled or disabled</td>
<td>The system security function has been enabled or disabled.</td>
</tr>
<tr>
<td>User did not enter correct password</td>
<td>A user attempts to log in with an incorrect password. The message indicates the number of failed authentications.</td>
</tr>
<tr>
<td>User account suspended</td>
<td>The user exceeds the maximum number of allowed failed authentications (login attempts with an incorrect password).</td>
</tr>
<tr>
<td>User session timed out</td>
<td>The user account was inactive for longer than the specified maximum time period.</td>
</tr>
<tr>
<td>Role deleted</td>
<td>An existing user role has been deleted.</td>
</tr>
</tbody>
</table>

3. Select the notification method:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notify Admin at Login</td>
<td>If an event triggers notification, the next time an Administrator logs in, the software lists the security events, along with the time each event occurred and the user who triggered the event. The Administrator has the option of acknowledging the event, which removes it from the notification list.</td>
</tr>
<tr>
<td>Email Notification</td>
<td>If an event triggers notification, the SAE Admin Console sends an email to the addresses in the <strong>Email Address</strong> fields. The email notification displays the security events, the time each event occurred, and the user who triggered each event.</td>
</tr>
</tbody>
</table>

4. Click **Save**.
Set up SMTP configuration

Use the **SMTP Configuration** dialog box to configure the SMTP server to which the SAE Admin Console will connect for sending email notifications for security events.

1. Click **Settings**, then **Email Server**.

2. In the **SMTP Configuration** dialog box, enter the following:
   
   • **SMTP host, SMTP port, and SMTP sender**
     
     **Note:** Select **Authentication required** if the SMTP server requires authentication.
   
   • **User name and Password**
     
     **Note:** Select **Use SSL** if the SMTP server requires an encrypted channel connection.

3. Click **Save**.
Manage the audit function

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- Audit histories from the Audit History drop-down menu ......................... 20
- View audit histories from the Audit History drop-down menu .................. 21

Use the Audit function screen

Use the Audit tab to control the events that are audited and the list of reasons available to users when the audit mode is set to Optional or Required.

Note: Audit reasons are not available when the Audit mode is set to Silent.

Note: Audits are by default enabled in this application.

Note: The feature for disabling individual audit object is unavailable. All audit object items are always enabled when Auditing is enabled.

1. Select the Audit tab.

2. Set or modify the Audit Settings (see “Select items to audit” on page 18 and “Configure audit reason settings” on page 19).

3. Click Apply Settings.

Select items to audit

IMPORTANT! It is essential to check the check box under Include in Audit Settings for Audit to work on Countess™ 3/3 FL instruments. Deselection of this check box will disable all auditing.

1. Select the Audit Mode for each item you include for auditing:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silent</td>
<td>The event is audited, no reason prompt is displayed.</td>
</tr>
<tr>
<td>Optional</td>
<td>The event is audited, a reason prompt is displayed, but the user can cancel and continue without entering a reason.</td>
</tr>
<tr>
<td>Required</td>
<td>The event is audited, a reason prompt is displayed, and the user must specify a reason.</td>
</tr>
</tbody>
</table>

2. Click Apply Settings.
Configure audit reason settings

You can create new reasons, or you can modify and delete the default reasons in the Audit Reason Settings pane.

The SAE Administrator Console is installed with six default audit reasons. These reasons may not be applicable to the Countess™ 3/3 FL instruments and can be updated during SAE Admin Console configuration. The reasons can be updated anytime without having an impact on performance of the Countess™ 3/3 FL instruments.

The default reason list:

- Manually edited
- Need to change threshold
- Need to reanalyze
- Entry error
- Well anomaly
- Calculation error

1. In the Audit Reason Settings pane, click New Reason to open the Add New Audit Reason dialog box.

   Note: Select Require users to select a reason for change from list to ensure users select an auditing reason from the Reasons list.

2. Enter a reason for change, then click Save.

3. Click Edit to open the Edit Audit Reason dialog box.

4. Edit the reason for change, then click Save.

5. Click Delete to open the Delete Audit Reason dialog box.

6. Click Delete to confirm deletion of the audit reason or Cancel to exit the dialog box.

   Note: After deleting an audit reason, its ID number is also deleted and is not reused for the next audit reason in the list.

7. Click Apply Settings.

Generate audit reports

Use the Audit History drop-down menu to generate reports from both the Action Records and System Configuration views.

Note: Instrument Run Records under the Audit History drop down menu are not applicable to the Countess™ 3/3 FL instruments.
Audit histories from the Audit History drop-down menu

You can display audit histories from the Audit history dropdown menu in two different ways:

- **Action Record**—Specified audit events.
- **System Configuration**—The system security, audit, and e-signature configuration records, including audit history for each user account.

Review the System Configuration

The System Configuration view from the Audit History drop-down menu lists system security, audit, and e-signature configuration records. The following table summarizes the actions that can be audited using the SAE Admin Console.

<table>
<thead>
<tr>
<th>Record Type</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security Settings</td>
<td>Update</td>
<td>Disable, enable, or modify system security policies and session time-out settings</td>
</tr>
<tr>
<td>Account Settings</td>
<td>Update</td>
<td>Modify password settings, system security policies (password expiration and account suspension), or user name settings</td>
</tr>
<tr>
<td>User Group Manager</td>
<td>Update</td>
<td>Create, delete, or modify reason for change</td>
</tr>
<tr>
<td>User Role</td>
<td>Create</td>
<td>Create user role</td>
</tr>
<tr>
<td></td>
<td>Delete</td>
<td>Delete user role</td>
</tr>
<tr>
<td></td>
<td>Update</td>
<td>Modify user role</td>
</tr>
<tr>
<td>User Account</td>
<td>Create</td>
<td>Create new user account</td>
</tr>
<tr>
<td></td>
<td>Update</td>
<td>Edit or suspend a user account</td>
</tr>
<tr>
<td>Role Assignment</td>
<td>Edit</td>
<td>Assign a different user role to an existing user account</td>
</tr>
<tr>
<td></td>
<td>Create</td>
<td>Create a user account</td>
</tr>
<tr>
<td>Auditable Entity Settings</td>
<td>Update</td>
<td>Enable or disable auditing</td>
</tr>
<tr>
<td>Auditable Entity</td>
<td>Update</td>
<td>Modify audit settings</td>
</tr>
<tr>
<td>Role Permissions</td>
<td>Create</td>
<td>Create a user role</td>
</tr>
<tr>
<td></td>
<td>Note:</td>
<td>Creates one role assignment record for each permission in a role.</td>
</tr>
<tr>
<td></td>
<td>Delete</td>
<td>Delete a user role</td>
</tr>
<tr>
<td></td>
<td>Update</td>
<td>Modify user role permissions</td>
</tr>
<tr>
<td>Audit Reason for Change</td>
<td>Create</td>
<td>Create reason for change</td>
</tr>
<tr>
<td></td>
<td>Update</td>
<td>Modify reason for change</td>
</tr>
</tbody>
</table>
Review the action log

Select **Audit History > Action record log** to view a log of the specified audit events. All items in the action log are audited silently, including:

- Auditing Event (Archive, Restore, Purge)
- Configuration (Import, Export)
- Data Audit (Archive, Restore, Purge)
- Login (Success, Failure)
- Logout (Success)

View audit histories from the Audit History drop-down menu

1. From the **Audit History** dropdown menu, select:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action Record</td>
<td>Displays an audit of the actions for each user</td>
</tr>
<tr>
<td>System Configuration</td>
<td>Displays updated system configuration settings</td>
</tr>
</tbody>
</table>

2. **(Optional)** Select **Enable Action Records Filtering** to filter or sort the action records.
   a. Select the **Date Range, User Account, and Action**, then click **Search**.
      The records display in the lower pane.

3. **(Optional)** Select **Enable System Configuration Records Filtering** to filter or sort the system configuration records.
   a. Select the **Date Range, User Account, Action, Record Type, and Record name**, then click **Search**.
      The records display in the lower pane.

4. Click **Report** to generate an audit history report.
   The report is generated and saved to the default location set by your computer.
5. View the report in the default system viewer or in a new tab of the web browser.

6. Use the options in the viewer to manipulate the report as needed, then close the report.

7. *(Optional)* See “Archive, purge, and restore audit records” on page 22 to archive the action records or system configuration records.

8. *(Optional)* See “Archive, purge, and restore audit records” on page 22 to restore purged action records or system configuration records.

**Archive, purge, and restore audit records**

You can selectively archive or purge (delete) system configuration or action records. You can also selectively restore records.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archive</td>
<td>Makes a copy of audit records.</td>
</tr>
<tr>
<td>Purge</td>
<td>Makes a copy of audit records, archives them on the computer, then deletes them from the software.</td>
</tr>
<tr>
<td>Restore</td>
<td>Restores audit records from archived files.</td>
</tr>
</tbody>
</table>

Display the action records or system configuration records of interest as described in “View audit histories from the Audit History drop-down menu” on page 21.

- Archive records:
  a. Select the records of interest.
  b. Click **Archive**.
  c. Confirm the filter criteria and select **Purge audit records after archival** to purge the records, then click **Archive**. The records are archived to the default download location of the computer.

- Restore records:
  a. In the **Action Record** or **System Configuration** view, click **Restore**.
  b. Select the .par file to restore, then click **Open**.
Export audit records

You can export audit records to a .txt file for additional manipulation and reporting outside the SAE Admin Console.

1. Display the records of interest as described in “View audit histories from the Audit History drop-down menu” on page 21.

2. In the Action Records view or System Configuration view, click Export.

Note: If you export audit records for samples that have been deleted or moved, an error message is displayed. Return sample data files to their original location, then export again.

The .txt file with the audit records downloads to the default location set by your computer.
Manage the e-signature function

- Access the e-signature function screen .......................................................... 24
- Configure the meanings of e-signatures .......................................................... 24

Access the e-signature function screen

Use the e-Signature tab to control the e-signature rights of user roles, the reasons available for e-signature, and the data to be signed.

1. Select the e-Signature tab.

2. Select Countess 3 from the Show e-signature configuration for drop-down menu.

3. See “Configure the meanings of e-signatures” on page 24 to modify your desired e-signature settings

4. Click Apply Settings.

Configure the meanings of e-signatures

The e-signature meanings are the text that a user can select to describe a reason for an e-signature. The SAE module is installed with 11 default meanings:

- Review and Approve Protocol
- Approve Import Protocol
- Approve Export Protocol
- Approve Delete Protocol
- Approve Load Protocol
- Approve Results Saving
- Approve SAE Connection Settings
- Approve Date/Time Settings
- Approve Instrument Reset
- Approve Light Cube Change
- Approve Software Update
Add an e-signature meaning

In the e-Signature tab, in the e-Signature Meanings pane:

1. Click New Meaning.
2. Enter an e-signature meaning in the Name field, then click Save.
3. Click Apply Settings.

Delete an e-signature meaning

In the e-Signature tab, in the e-Signature Meanings pane:

1. Select a meaning from the Meanings list, then click Delete.

   **Note:** The default meaning (Review and Approve Image and Data) cannot be deleted.

2. Confirm the deletion of the meaning, then click OK.
3. Click Apply Settings.

Select the actions that require e-signature

1. In the Actions Requiring Signatures pane, select each action for which you want to require e-signatures (see below). The software displays an e-signature prompt if a user performs the action on a data file that does not have the required signatures.
   - Save Results
   - Disable SAE
   - Change SAE connection settings
   - Change light cubes
   - Update Software
   - Adjust Date/Time
   - Export Protocol
   - Import Protocol
   - Load Protocol
   - Delete Protocol
   - Edit Protocol

2. For each meaning of each selected action, enter the number of e-signatures required from each user role before the software can execute the associated action.

   **Note:** Always ensure at least one signature is set (to a non-expired/current user with one of the three defined Countess™ roles or the SAE admin role) for any action that is selected for ‘e-signature required’ when its corresponding checkbox is enabled.

3. Click Apply Settings.
Manage the SAE export-import function

- Export and import user, system security, audit, and e-signature settings ............... 26

Export and import user, system security, audit, and e-signature settings

Use the export/import feature to back-up or replicate identical SAE settings across multiple computers. You can create a standard SAE settings "image" for the SAE module and then import the settings "image" to other computers to bypass manual setup.

Export user, system security, audit, and e-signature settings

1. In the Settings drop-down menu, select Export Configuration.

2. In the Export Configuration dialog box, select:
   a. All to export all configuration settings, including user accounts.
   b. Custom to export the following:
      • Users & Roles – Exports all user accounts with "Active" status as well as all user roles and their associated permissions.
      • System & Roles – All system settings and all user roles and their associated permissions.

3. Click Export. The exported file (.dat) is downloaded to the default location of your computer.

Import user, system security, audit, e-signature settings

1. In the Settings drop-down menu, select Import Configuration.

2. Click Choose File to choose the .dat file with the desired configuration settings

3. Select the import options:
   a. All to import all configuration settings, including user accounts.
b. **Custom** to import the following:
   - **Users & Roles** – Imports all user accounts with "Active" status as well as all user roles and their associated permissions.
   - **System & Roles** – All system settings and all user roles and their associated permissions.

4. **Click Import.**
   If you selected **All** or **Users & Roles**, it is possible the imported user accounts already exist in the SAE module. Select **Skip** or **Overwrite** for each user account, then click **Confirm and Import**.
Documentation and support

Related documentation

<table>
<thead>
<tr>
<th>Document</th>
<th>Publication number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countess™ 3 Automated Cell Counter User Guide</td>
<td>MAN0019566</td>
<td>User guide for Countess™ 3 Automated Cell Counter detailing use of the instrument with SAE enabled and disabled</td>
</tr>
<tr>
<td>Countess™ 3 FL Automated Cell Counter User Guide</td>
<td>MAN0019567</td>
<td>User guide for Countess™ 3 FL Automated Cell Counter detailing use of instrument with SAE enabled and disabled</td>
</tr>
</tbody>
</table>

Obtain information from the Help System

The SAE Admin Console has a Help system that describes how to use each feature of the user interface. Click to access the Help system.

**Note:** This Help is not specific for the Countess™ 3/3 FL instruments and should only be used as a general guide.

Customer and technical support

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- Order and web support
- Product documentation
  - User guides, manuals, and protocols
  - Certificates of Analysis
  - Safety Data Sheets (SDSs; also known as MSDSs)

**Note:** For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.
Limited product warranty

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