

User Guide for Administrators

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Table of Contents

1	ABO	OUT SARA ALERT™	1
	1.1	Concept of Operations	1
	1.2	SMART on FHIR API	2
2	AD	MINISTRATOR ROLE OVERVIEW	3
	2.1	Record Access	3
	2.2	Sara Alert TM Record Retention	3
3	GE	TTING STARTED	4
	3.1	Logging In	4
4	AD	MINISTRATOR ROLE CAPABILITES	6
	4.1	View List of Users	6
	4.2	How to Add a New User	7
	4.3	How to Export the User List	8
	4.4	How to Edit User Account Information	9
	4.5	How to View User Account Event History (Audit)	.10
	4.6	How to Lock or Unlock User Accounts	.11
	4.7	How to Reset User Passwords	.12
	4.8	How to Manage Two-factor Authentication (2FA)	.13
	4.9	Enabling API Access.	.15
A	ppendi	ix A List of User Role Capabilities	A-1

1 ABOUT SARA ALERT™

Sara AlertTM serves as a force multiplier that supports governmental public health response to emerging disease threats, including active monitoring of home quarantine and isolation for disease containment or mitigation. This open-source tool allows public health resources to be directed where they are most needed.

Sara AlertTM enables public health officials to enroll individuals at risk of developing a disease of interest ("monitorees"), for example COVID-19. Once enrolled, individuals can report their (and their household members', if applicable) symptoms daily through multiple platforms (e.g., mobile, desktop, text-based, voice), providing public health departments improved situational awareness. If a monitoree reports any symptoms or does not submit a daily report, the record is flagged by the system so that public health can quickly and efficiently identify monitorees requiring follow-up for care coordination or non-response follow-up.

Sara AlertTM also enables public health officials to enroll cases who require monitoring to determine when it is safe to discontinue home isolation. Once enrolled, individuals can report their symptoms daily through multiple platforms (e.g., mobile, desktop, text-based, voice), providing public health departments improved situational awareness. If a monitoree reports meets a recovery definition or does not submit a daily report, the record is flagged by the system so that public health can quickly and efficiently identify monitorees requiring follow-up to verify

that it is safe to discontinue home isolation or non-response follow-up. The concept of operations

1.1 Concept of Operations

and high-level workflow are shown below in **Figure 1**.

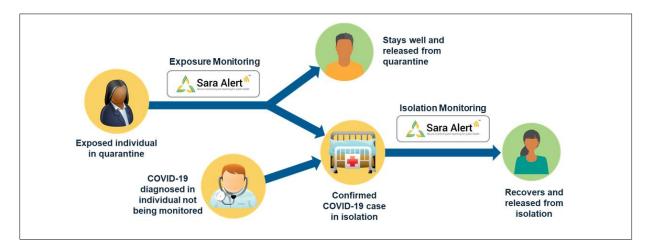


Figure 1: Sara AlertTM Concept of Operations

Visit <u>saraalert.org</u> for more information about Sara Alert, including FAQs, tutorial videos, and fact sheets. To send questions, comments, or other feedback related to Sara Alert, email <u>sarasupport@aimsplatform.com</u>.

1.2 SMART on FHIR API

To support interoperability and exchange of information with other information technology (IT) systems, the Sara AlertTM system has implemented an Application Programming Interface (API) using <u>SMART on HL7 Fast Healthcare Interoperability Resources (FHIR) API standards and specifications.</u>

Additional standards used to support the API include:

- FHIR Release 4 (R4), its components, and specifications
- SMART application launch framework
- C# FHIR library
- OAuth 2.0

The Sara AlertTM API documentation is available to users on GitHub here.

1.2.1 Get Started Using the API

No matter the workflow, in order to use the Sara AlertTM API and ensure security of application data, the client must go through a three-step process before reading or writing any data.

- 1. **Registration**: Register as a Client Application with Sara AlertTM (one-time step) by emailing sarasupport@aimsplatform.com to request access. The registration process allows Sara AlertTM to pre-authorize and curate the clients that will be using the Sara AlertTM API. Registration is a manual step, as is traditional.
- 2. **Authorization**: Go through an authorization process to obtain access token for API requests.
- 3. **Authentication**: Use the obtained access token to make API requests to the Sara Alert API.

1.2.2 Supported Workflows

Sara Alert currently supports two different workflows for API use. Both of these workflows are SMART-on-FHIR standards.

- 1. SMART on FHIR App Launch Framework "standalone launch". This expects and requires a user in the loop. For Sara AlertTM, this means that a user must be logged in to the Sara AlertTM User Interface, which requires 2 factor-authentication to have been completed (See **page 11**). After an application is authorized, users must individually be given "API access" by their local jurisdiction administrators. Please contact your local administrator to be granted this access.
- 2. <u>SMART on FHIR Backend Services.</u> This is complementary to the above flow and does not require a user in the loop.

2 ADMINISTRATOR ROLE OVERVIEW

An administrator is a trusted user who can view and manage Sara AlertTM users within their jurisdiction. Administrators are the only user type with the ability to add, modify, and view system users.

TIP: See the **Quick Start Guide for Administrators**

Table 1. Functional Role Summary																
Role	Enroll New Exposed Monitoree	Enroll New Case	View/Modify Enrollment Details	View Monitoring Line Lists	View/Modify Monitoring Actions	View/Add/ Modify Symptom Reports	View/Add Lab Reports	Transfer Records	View History/Add Comments	Import records	Export Records	View and export analytics	Add/modify system users	View list of system users	Record Access	
Administrator													✓	✓	None; manages users in jurisdiction	

Table 1. Functional Role Summary

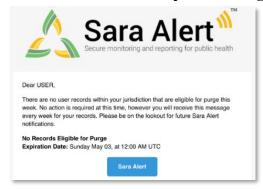
2.1 Record Access

An administrator cannot see individual monitoree record details or the analytics summary. Administrators are only able to see and modify user accounts within their assigned jurisdiction.

2.2 Sara Alert™ Record Retention

To minimize the amount of identifiable information stored on the production servers, Sara AlertTM will **purge records of identifiers** if there have been no changes to a record for a defined time period, provided that a monitoree is no longer being actively monitored. For COVID-19, the time has been configured for 14 days after the last record update (e.g., an update includes any action on the record, including adding comments or updating any fields).

On **Thursdays at noon UTC**, the system will flag all records that are forecasted to be eligible to be purged of identifying information on Saturday at 11:59 pm UTC (i.e. records that at Saturday 11:59 UTC would have not been updated for 14 days). **An email notification will be sent to administrators indicating how many, if any, purge-eligible records are in the administrator's jurisdiction.** Local administrators will need to coordinate with a public health user to export records for retention before purge if necessary. If a jurisdiction would like to retain the records, public health users will need to select "**Export for Purge Eligible Monitorees**".



TIP: Use an online converter to convert UTC to your local time zone.

Figure 2: Sample notification to administrators

Sara AlertTM User Guide for Administrators

GETTING STARTED

The system will purge records flagged Thursday on **Saturday at 11:59 pm UTC**. If a record flagged for purge is updated before Saturday at 11:59 pm UTC, the record will not be purged.

3 GETTING STARTED

3.1 Logging In

- 1) Open Sara AlertTM in a web browser. Compatible web browsers include Chrome, Microsoft Edge, Microsoft Internet Explorer 11, Mozilla Firefox, and Safari. If using Microsoft Internet Explorer 11, you may need to turn off compatibility mode.
- 2) Log in using your credentials.

If this is your *first login attempt*, use the temporary password you were issued; you will be prompted to change it. Temporary passwords **expire after 72 hours**. If your temporary password has expired, contact your jurisdiction administrator for a password reset.

TIP: If you are having difficulty logging in with the temporary password, manually type it in instead of using cut and paste



Figure 3: Log in screen

3) Register for two-factor authentication (2FA) by providing a phone number. (**NOTE:** this is only required the first time you use Sara AlertTM). This is how you will receive your 7-digit 2FA token number. Once you have entered your phone number and country (for the country code), click "**Register**". See **page 13** for more information about 2FA.



Figure 4: Enter your phone number

Sara AlertTM User Guide for Administrators

GETTING STARTED

- 4) For all login attempts after initial registration, you will be prompted to choose how to receive the 7-digit 2FA token (i.e., SMS/Text or through a phone call).
 - Select your preferred method to receive the 2FA token
 - Enter the 7-digit token when you receive it and click "Submit"



Figure 5: Choose your 2FA method

- 5) You will be taken to the Admin Panel.
- 6) Your username and user role are listed in the upper right-hand corner of the screen.

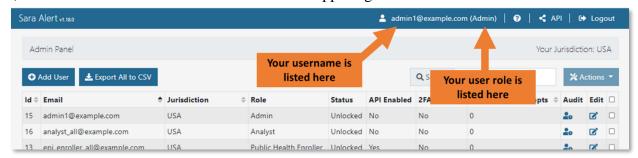


Figure 6: Your Sara AlertTM username and user role

7) Your assigned jurisdiction is listed in the top right (under "Logout"). You are only allowed to see users within your own jurisdiction.

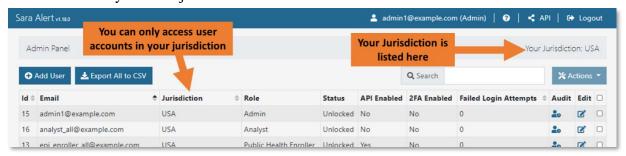


Figure 7: Your Sara AlertTM jurisdiction

8) The "**Help**" button provides links to the User Guide, User Forum and other helpful resources, including how to contact the Sara AlertTM team for help.

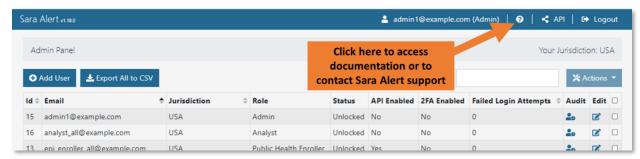


Figure 8: Access to Sara AlertTM resources

9) To end the session, click "**Logout**". Users should log out of the system when they are not using it.

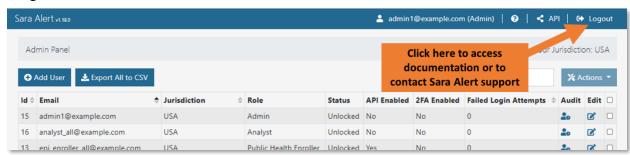


Figure 9: The logout button

4 ADMINISTRATOR ROLE CAPABILITES

Administrators are responsible for managing Sara AlertTM Users. Local administrators can only manage users within their assigned jurisdiction. If a local administrator needs assistance with managing their users, please contact the Sara AlertTM Help Desk.

4.1 View List of Users

The Administrator role shows the list of current users in their assigned jurisdiction with the following associated information:

- **ID:** Shows the unique system ID associated with the user. Jurisdictions may use this number for the assigned user field, but there is no automatic linkage between this ID and the "Assigned User" field in a monitoree's record.
- **Email:** User's email address.
- **Jurisdiction:** Shows the complete access hierarchy for the user. Users (including Administrators) have access to all data (specific to their role) for their jurisdiction and all sub-jurisdictions. Administrators can only assign users to jurisdictions and subjurisdictions within their assigned jurisdiction.
- **Role:** User's role in the system (enroller, public health, public health enroller, analyst, or admin). User roles are linked to a unique email address, so a user may only be assigned one role, unless a user has more than one unique email address.

- See page A-1 for a list of user roles and their different capabilities in Sara Alert
- Status: Whether the user's account is locked or unlocked (see page 10).
- **API Enabled:** Whether the user has access to the API. A local administrator must have approval to access the API from the system administrator before they can enable it for users. For more information on the API, see **SMART on FHIR API** on page **2**.
- **2FA Enabled:** Whether the user has configured their accounts required 2-factor authentication. Two-factor authentication provides a second layer of security to protect a user account by sending a token for login to their phone through call or text. If a user has not yet configured their 2FA, they will be prompted to do so the first time you log into the system.
- **Failed Login Attempts**: The number of consecutive failed login attempts since the last successful login. The system will automatically lock a user's account after 5 failed login attempts. Unlocking an account will clear this number.

Click on headers to sort based on that column.



Figure 10: Click the column header to sort that column

4.2 How to Add a New User

1) Click the "Add User" button.

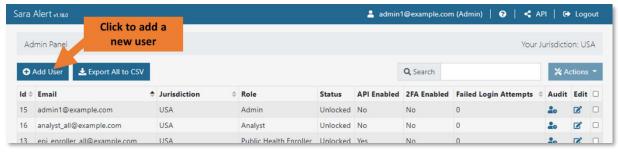


Figure 11: Add a new user

2) Enter the new user's email address, select their jurisdiction and role from the drop-down lists, and toggle their API access. Click "Save" to complete the process. The user will receive a welcome email with a temporary password they can use to log into the system, change their password, and register for two-factor authentication.

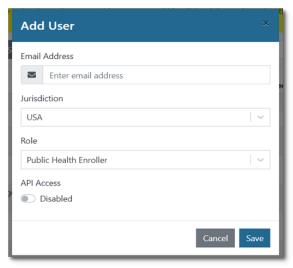


Figure 12: Complete new user entry

4.3 How to Export the User List

1) To export a list of users for your jurisdiction, click the "Export to CSV" button.

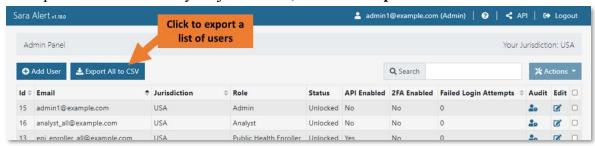


Figure 13: Export a list of users

2) The CSV file will appear wherever downloaded files normally appear in your browser. Click the notification to view the export, including all line list information.

NOTE: The exact style of the download notification will vary depending on which browser the user is using.



Figure 14: Click the notification in your browser to open the file

3) The export will open in Excel (or your default CSV-viewing application).

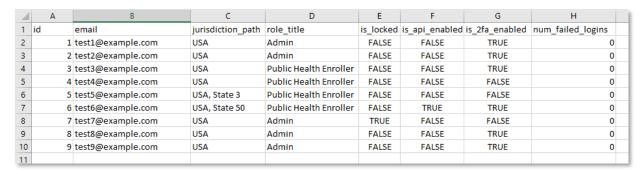


Figure 15: CSV line list export

4.4 How to Edit User Account Information

User information can be edited one record at a time on the admin panel. As an administrator, you can edit each user's email address, Jurisdiction, role, access status, and API access.

1) To edit a user's information, first click the "Edit" icon for that user.



Figure 16: Click the "Edit" icon

2) This will open the "Edit User" window. You can edit the user's Email Address, Jurisdiction, Role, Locked Status, and API access. Click "Save" to confirm your changes.

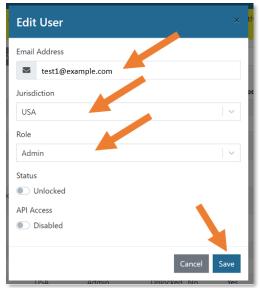


Figure 17: Edit the appropriate fields and click "Save"

Sara AlertTM User Guide for Administrators

4.5 How to View User Account Event History (Audit)

Sara Alert allows Administrators and Super Users to view user account events that were logged after release 1.18 on 12/17/20.

1) To view this event history, click the "Audit" button associated with that user



Figure 18: Click the "Audit" icon

2) This will open the "Audit Events" window, which contains a table with three columns:

Triggered by: Shows the username of the user who performed the action

Action: Lists users sign-ins and edits made to a user's account

Timestamp: Lists the time each action occurred.

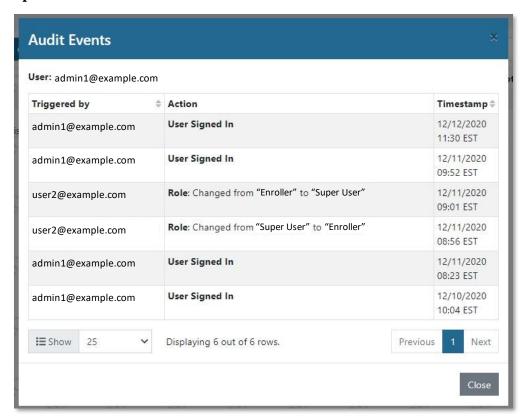


Figure 19: Click the "Audit" icon

4.6 How to Lock or Unlock User Accounts

Sara AlertTM will automatically lock a user's account after 5 unsuccessful login attempts. This is done as a security measure, but administrators have the ability to unlock an account. You may also lock accounts to prevent a user from accessing the system (ex: if a user is no longer working for your organization).

3) To manually lock or unlock a user's account, first click the "Edit" icon for that user

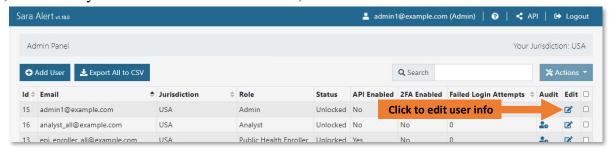


Figure 20: Click the "Edit" icon

4) Toggle the "Status" switch to lock or unlock the user's account. Click "Save" to confirm.



Figure 21: Toggle the "Status" switch to lock or unlock the account

5) You can see an account's status on the user dashboard in the "Status" column.



Figure 22: The "Status" column shows if a user's account is locked or unlocked

6) Users will be unable to log in to a locked account. This error message will appear for users logging in with invalid credentials or attempting to log in to a locked account.



Figure 23: Users cannot log in to a locked account

4.7 How to Reset User Passwords

User passwords can be reset multiple accounts at a time. If you click the select box in the menu header, you can reset passwords for all accounts visible on that page (not all accounts in the system). This feature can be used to reset any forgotten passwords or periodically based on your jurisdiction's security requirements.

1) Sara AlertTM handles password reset requests via email. If one or more of your users requests a password reset, first select the user(s) by clicking the box in the far right column.



Figure 24: Select the user by clicking the box in the far-right column

2) Clicking the checkbox in the column header will select all rows in the current view on the page (not all rows in the full table).



Figure 25: Select all users in the view by clicking the checkbox in the column header

3) Click the "Actions" button and from the drop-down menu, click "Reset Password."



Figure 26: Select "Reset Password" from the "Actions" drop-down menu

4) The user will receive an email with a temporary password. On their next login, they will be prompted to change their password.

NOTE: Temporary passwords expire after 72 hours (and will need to be reissued via another password reset). Temporary passwords should be inputted manually; not through copy and paste.

4.8 How to Manage Two-factor Authentication (2FA)

Two-factor Authentication (2FA) is a security feature that requires two verification methods to confirm a user's identity. Typically, these methods include a standard password and a second verifier that only the user would have access to (i.e., a message sent to a phone or email address linked to the user's account). Sara AlertTM uses a 2FA system that requires a user to submit the following on login:

- The user's password associated with their Sara AlertTM account
- A 7-digit code sent to the user's phone number associated with their Sara AlertTM account

2FA is a requirement for all Sara AlertTM users (not including monitorees) to help maintain the tool's security.

4.8.1 View Status of 2FA Configuration

The "**2FA Enabled**" column shows whether a user has configured their required 2FA. If a user has not configured 2FA, they will be prompted to do so on their next login.



Figure 27: The Administrator Dashboard shows a user's 2FA configuration status

4.8.2 Resetting Two-Factor Device Pairing

If a user wishes to reset the phone number associated with their Sara AlertTM account (i.e., change the phone that will receive the 7-digit 2FA token), they should notify their jurisdiction's local **Administrator** or **Super User**.

- 1) Select one or more user accounts by clicking the checkbox in the rightmost column.
- 2) Click "Actions" and select "Reset 2FA" from the drop-down menu

Once reset, the user's "Configured 2-Factor Auth" status will change to "No" and the user will be prompted to register for 2FA on their next login attempt



Figure 28: Reset a user's 2FA pairing

4.9 Enabling API Access

Administrator users can provide API access to specific users in their jurisdiction if they have been approved to do so by the system administrators. For more information on how to gain access to the API, see **page 2**.

1) To enable API access, first click the "Edit" icon for that user

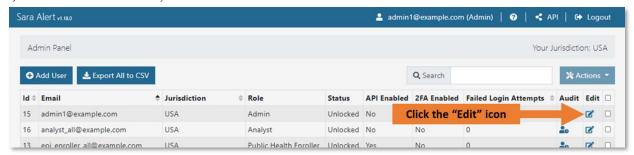


Figure 29: Click the "Edit" icon

2) In the Edit User window, toggle the API Access switch to enable or disable access.

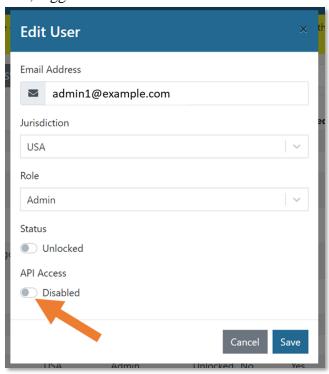


Figure 30: Toggle "API Access" to enable or disable access

Appendix A List of User Role Capabilities

The table below is for reference for Administrator Users when assigning roles to users in their jurisdiction. A user should be assigned a role with the lowest capability and record access required to perform their job.

Table A-1. Functional Summary by Role

Capability	Enroller	Public Health	Public Health Enroller	Contact Tracer	Analyst	Adminis- trator	Super User
Enroll New Exposed Monitoree	✓		✓	✓			✓
Enroll New Case	✓		✓	✓			✓
Add Close Contacts		✓	✓	✓			✓
Enroll Close Contacts			✓	✓			✓
View/Modify Enrollment Details	✓	✓	✓	✓			✓
View Monitoring Line Lists		✓	✓	✓			✓
View/Modify Monitoring Actions		✓	✓	✓			✓
View/Add/Modify Symptom Reports		✓	✓	✓			✓
View/Add Lab Reports		✓	✓	✓			✓
Transfer Records		✓	✓				✓
View History/Add Comments		✓	✓	✓			✓
Import records		✓	✓				✓
Export Records		✓	✓				✓
View and export analytics		✓	✓		✓		✓
Add/modify system users						✓	✓
View list of system users						✓	✓
Record Access	Only records added by the user	All records in jurisdiction	All records in jurisdiction	All records in jurisdiction	None; View Aggregate Data Only	None; Manage users in jurisdiction	