

Vision on Cloud

Service Manual

Software version 1.x

REF 521205090110

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Introduction for service

This manual assists you with the service of your Stryker product. Read this manual to service this product. This manual does not address the operation of this product. See the Operations/Maintenance Manual for operating and use instructions. To view your Operations/Maintenance Manual online, see <https://techweb.stryker.com/>.

Expected service life

Please refer to latest terms and conditions.

Contact information

Contact Stryker Customer Service or Technical Support at: 1-800-327-0770.

Stryker Medical
3800 E. Centre Avenue
Portage, MI 49002
USA

Email: medicaliBedWirelessSupport@stryker.com

System requirements and recommendations

Note

- Stryker connected product must be Wi-Fi enabled.
- If minimum system requirements are not met, the system performance is impacted.
- Install relevant software updates and patches when available.

Vision on Cloud deployment

The Vision on Cloud software should be hosted within a secure cloud environment and deployed as containerized services managed by Stryker.

Note - Stryker recommends that you set up a multifactor authentication for Vision on Cloud administrative users while using enterprise account management for Vision on Cloud.

Vision on Cloud client

Note - For optimal performance and to prevent overload from other applications, it is recommended that you use a dedicated computer to run the Vision system.

- A personal computer connected to a high definition (HD) 55-inch display at the nurse's station
- Google Chrome™ browser version 145 or higher
- Microsoft Edge™ browser version 145 or higher
- Optimized screen resolution from 1920 x 1080 - 3840 x 2160

Secure your network

Stryker recommends the following:

- Vision on Cloud communicates on port 443 (default TLS)
- Vision on Cloud shall be allowlisted for customer's external IP ranges
- Firewall configuration shall allow outbound TCP traffic on port 443 to support HTTP and secure WebSocket (WSS) communication over TLS.
- Vision on Cloud users shall follow cybersecurity rules when interacting with the product

Note

- Stryker recommends that you set up multifactor authentication for Vision on Cloud administrative users while using enterprise account management for Vision on Cloud.
- WSS uses the same secure connection as HTTPS (port 443). If your network uses proxies or security inspection, you may need to allow WebSocket connections so they are not blocked.

Configuring Vision on Cloud

After you complete the initial setup, you have access to these administrative tools:

- *Managing the unit* (page 6)
- *TV Units dashboard* (page 13)
- *Managing locations* (page 8)
- *Managing TV clients* (page 13)
- *Managing nurse manager users* (page 10)
- *Managing enterprise users* (page 18)
- *Viewing or editing Vision on Cloud settings* (page 16)
- *Changing the administrative password* (page 4)
- *Launching care.ai dashboard* (page 22)
- *About* (page 23)

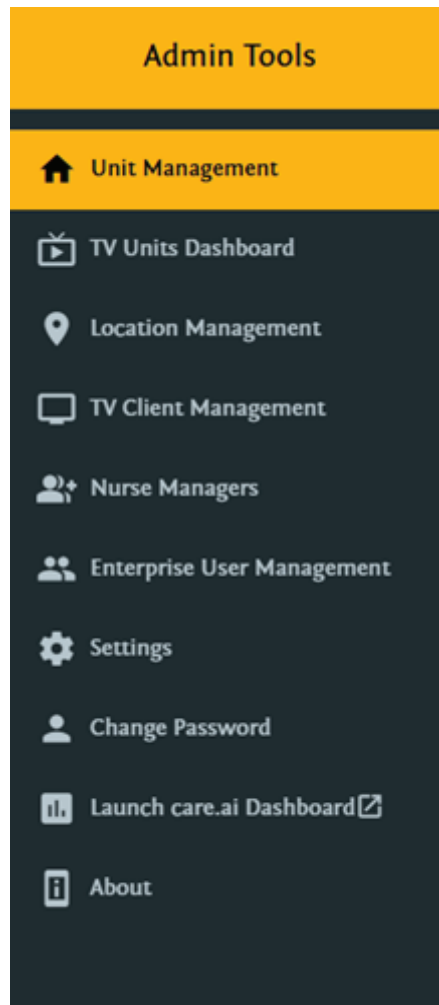


Figure 1 – Admin Tools screen

Logging in to Vision on Cloud

The administrative account is a pre-configured system account for product configuration.

To log in to Vision on Cloud:

1. Access the Vision on Cloud at: <https://FQDN/login> (FQDN = Fully Qualified Domain Name) of the server hosting the product.
2. Select the login type. Select either **SSO Login** or **Show Local login** based on the configuration (Figure 2).

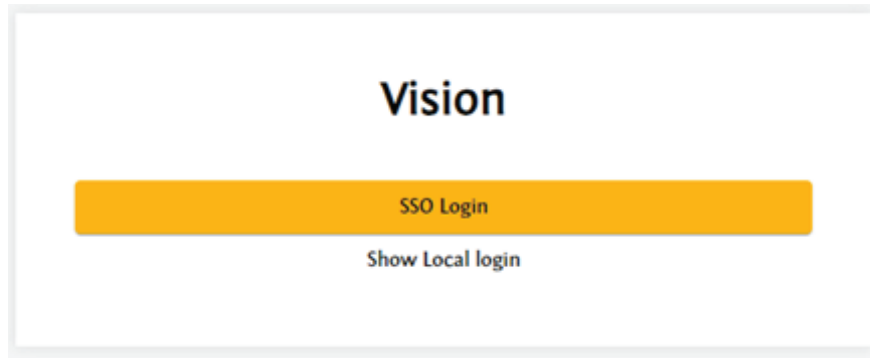


Figure 2 – Login type

3. Enter your username and password (Figure 3).

Figure 3 – Login screen

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

4. Select **Login**.

Changing the administrative password

The administrative account is a pre-configured system account for product configuration. You should change the password for the administrative account.

To change the administrative password:

1. Log in to Vision on Cloud.
2. Select **Change Password**.
3. Enter the required information to change the password. Required fields are marked with an asterisk (Figure 4).

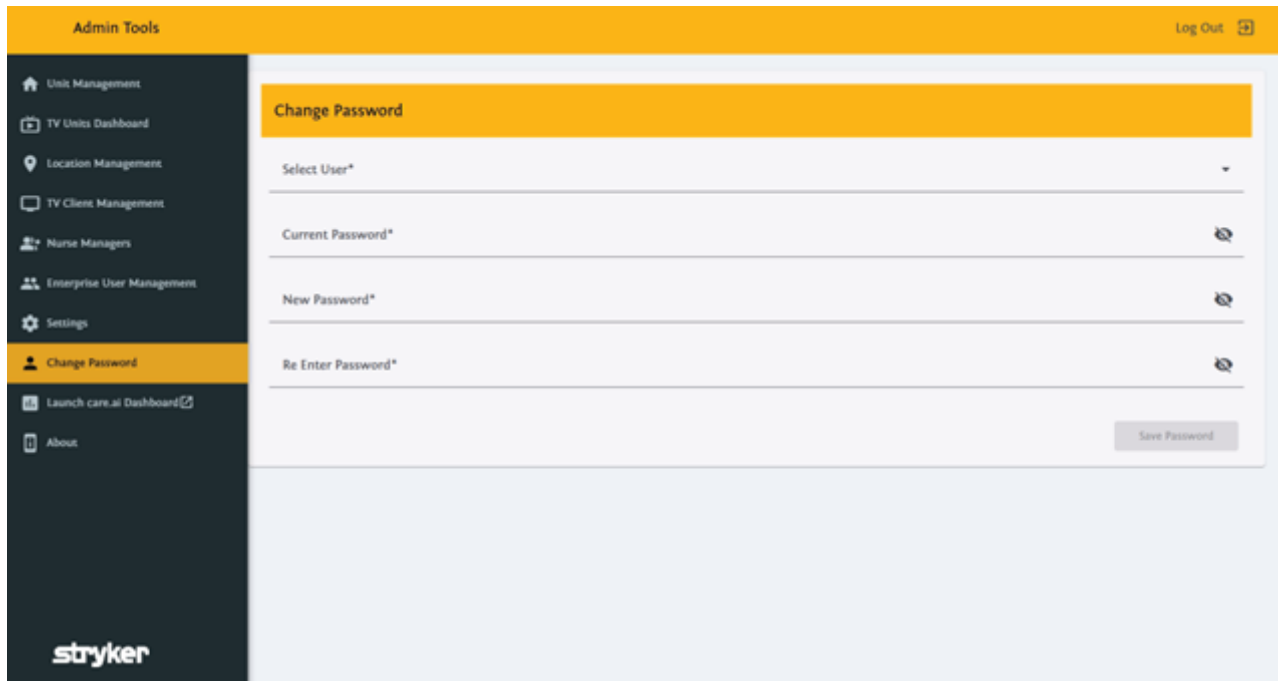


Figure 4 – Password change

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

4. Select **Save Password**.

Managing the unit

Creating a new unit

Units can represent a wing or floor of the facility. Units are required to assign locations (product or room locations) and TV clients.

To create a unit:

1. Log in to Vision on Cloud.
2. Select **Unit Management**.
3. Select **New Unit (A)** (Figure 5).

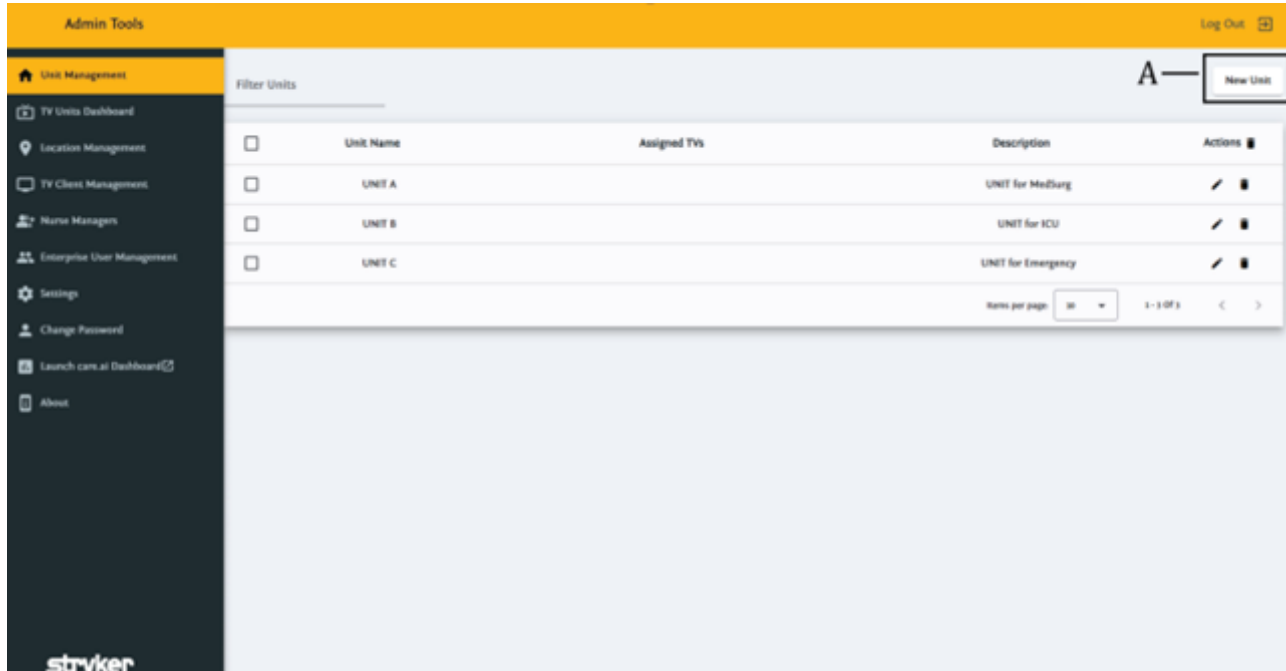


Figure 5 – New unit

4. In the **New Unit** screen, enter the **Unit Display Name**, **Unit Description**, and **Unit Type**.
5. Select **Create**.

Note - The new unit appears in the **Unit Management** screen.

Editing a unit

To edit a unit:

1. Log in to Vision on Cloud.
2. Select **Unit Management**.
3. Select the **pencil** icon next to the unit that you want to edit.
4. Select the **down arrowhead** icon from the **Edit Unit** title bar to expand the unit information (Figure 6).

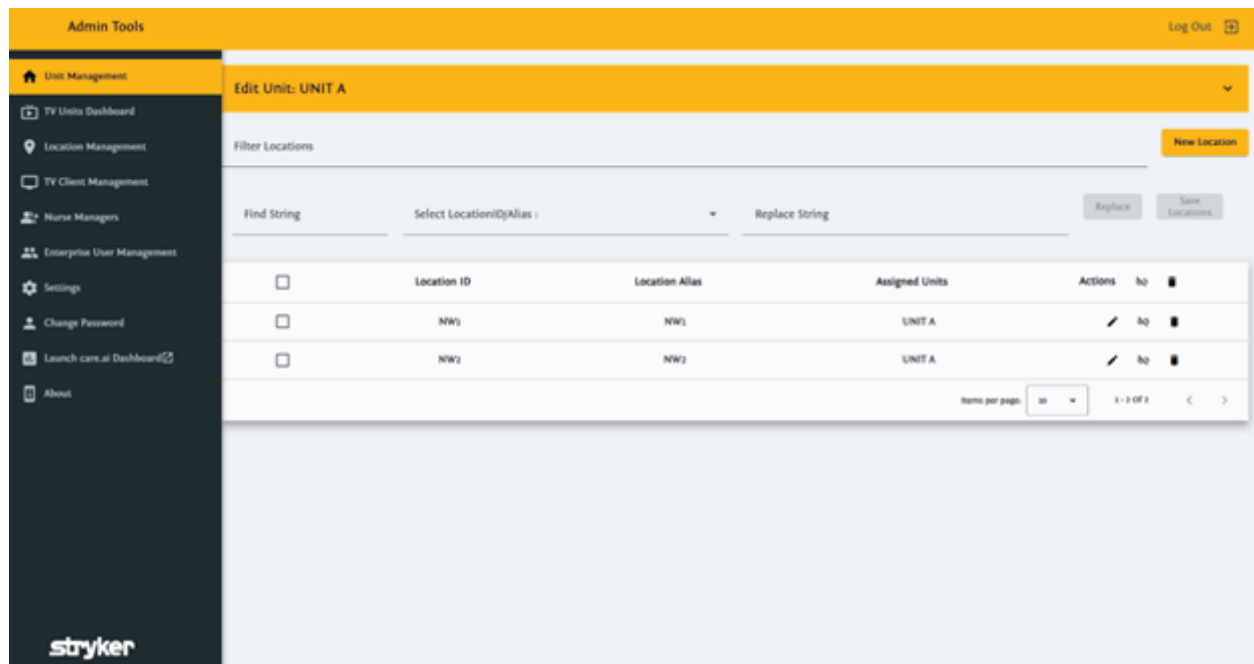


Figure 6 – Edit Unit

5. Enter edits in the **Edit Unit** screen.
6. Select **Save**.

Deleting a single unit or multiple units

To delete a unit:

1. Log in to Vision on Cloud.
2. Select **Unit Management**.

Note - Assigned TVs must be unassigned before you can delete a unit. See ().

3. Select the **trash can** icon of the unit that you want to delete (Figure 7).

Note - You can select more than one **trash can** icon. Selected units are have the check marked.

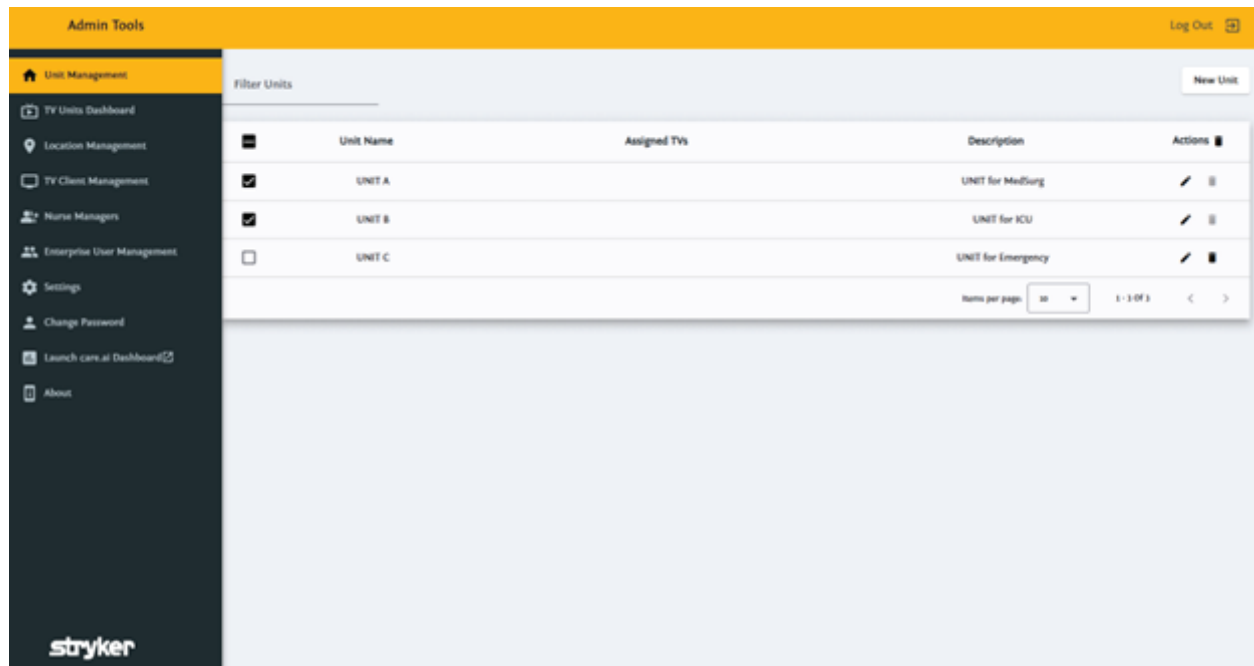


Figure 7 – Delete Unit

4. In the **Delete Unit** screen, select **Yes** to confirm.

Managing locations

Importing locations

Locations are the products or rooms that are assigned to units for supervision. The Vision on Cloud imports locations.

Note - See the iBed Server Installation/Configuration Manual to update the product or room locations list when you make equipment changes.

To import locations:

1. Log in to Vision on Cloud.
2. Select **Location Management**.
3. Select **Import Locations**.
4. Select **Choose File**.
5. In the **Windows Explorer** screen, select the XML file and then select **Open**.
6. Select **Import**.

Note

- You can import up to 1,500 locations.
- The new locations appear in the **Location Management** screen.

Assigning a location to a unit

Assign one or multiple locations to a unit for supervision on the TV client.

To assign a location to a unit:

1. Log in to Vision on Cloud.
2. Select **Location Management**.

Note - You must import a location before you can assign a location to a unit. See *Importing locations* (page 8).

3. Select **Target Unit** (A) and choose the appropriate unit from the drop-down menu (Figure 8).

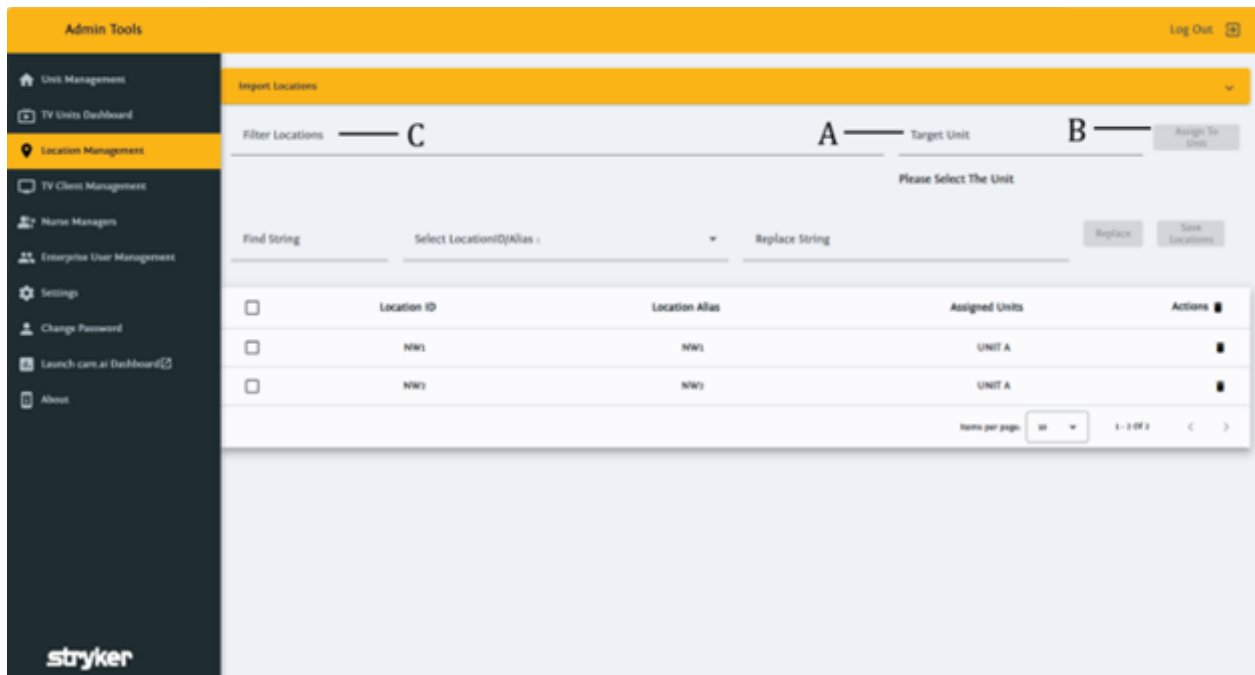


Figure 8 – Assign multiple locations

4. From the listed locations, select the checkbox for the locations that you want to add to the unit.
5. Select **Assign to Unit** (B) to assign the selected locations.

Note - To filter locations, enter your search text in the **Filter Locations** line (C).

Editing a location within a unit

To edit a location within a unit:

1. Log in to Vision on Cloud.
2. Select **Unit Management**.
3. Select the **pencil** icon next to the unit location that you want to edit.
4. Enter the edits for **Location ID** and **Location Alias**.
5. Select **Save**.

Unassigning a location for a unit

To change a location, you must unassign the unit:

1. Log in to Vision on Cloud.
2. Select **Unit Management**.
3. Select the **pencil** icon (A) of the unit that you want to unassign from the location (Figure 9).
4. Select the **disconnect** icon (B) next to the location that you want to unassign from the unit.
5. In the **Unassign Location** screen, select **Yes** to confirm.

Note - The unassigned location appears in the **Location Management** screen.

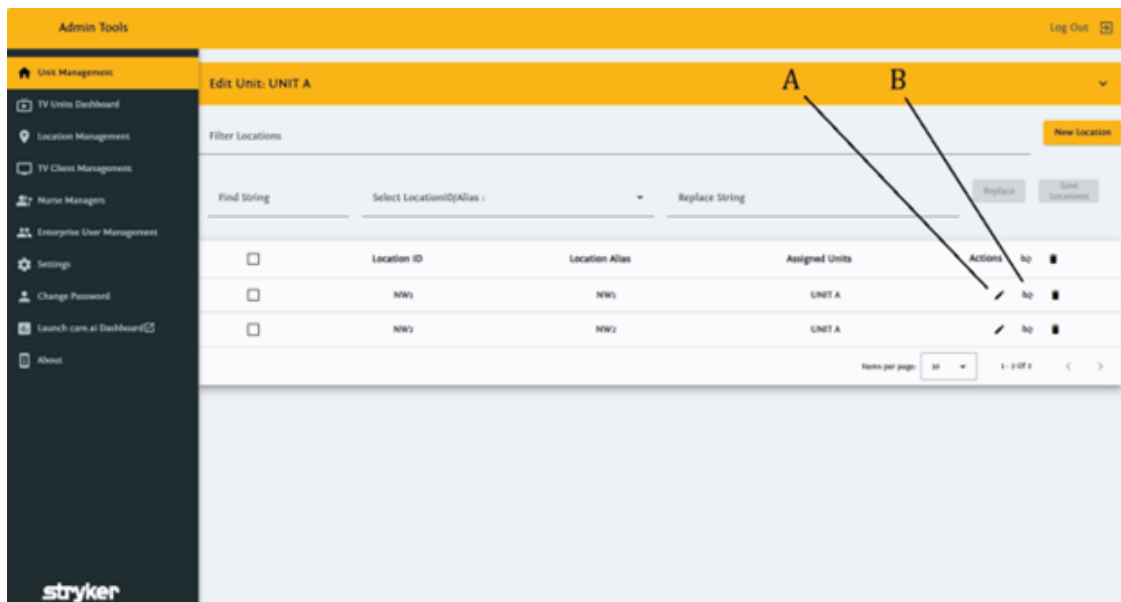


Figure 9 – Edit Unit

Deleting a location

You can delete a location from either **Unit Management** or **Location Management**.

1. To delete a location from the **Unit Management**:
 - a. Log in to Vision on Cloud.
 - b. Select **Unit Management**.
 - c. Select the **pencil** icon (A) of the unit that you want to unassign from the location (Figure 9).
 - d. Select the **trash can** icon next to the location that you want to delete.
 - e. In the **Delete Location** screen, select **Yes** to confirm.
2. To delete a location from **Location Management**:
 - a. Log in to Vision on Cloud.
 - b. Select **Location Management**.
 - c. Select the **trash can** icon next to the location that you want to delete.
 - d. In the **Delete Location** screen, select **Yes** to confirm.

Managing nurse manager users

Creating a nurse manager user

To create a nurse manager user:

1. Log in to Vision on Cloud.
2. Select **Nurse Managers**.
3. Select **New Nurse Manager** (A) (Figure 10).

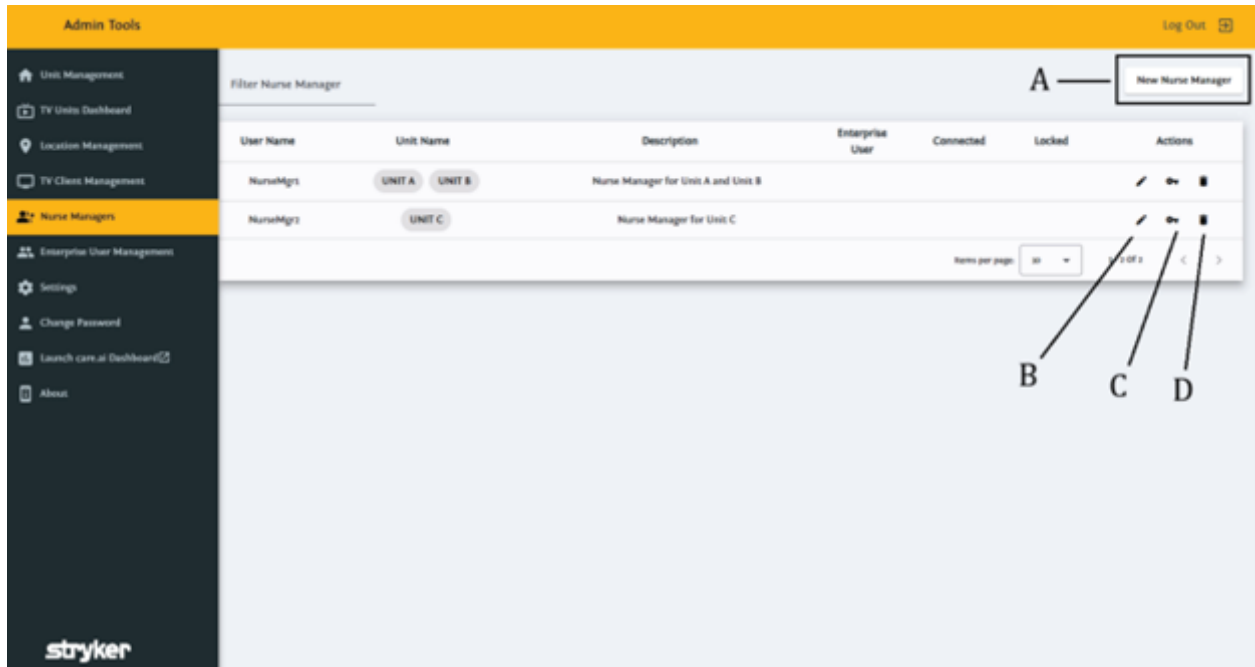


Figure 10 – Nurse Managers

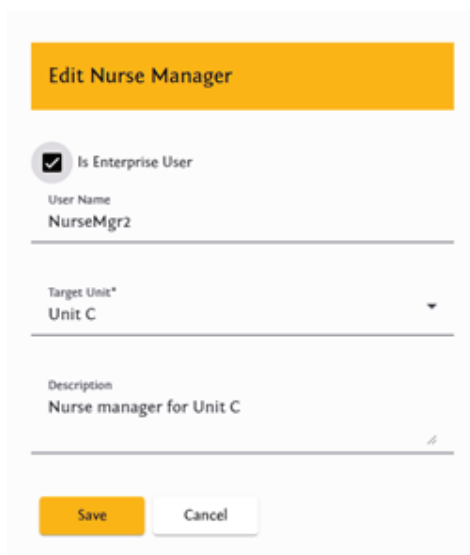


Figure 11 – With Enterprise User

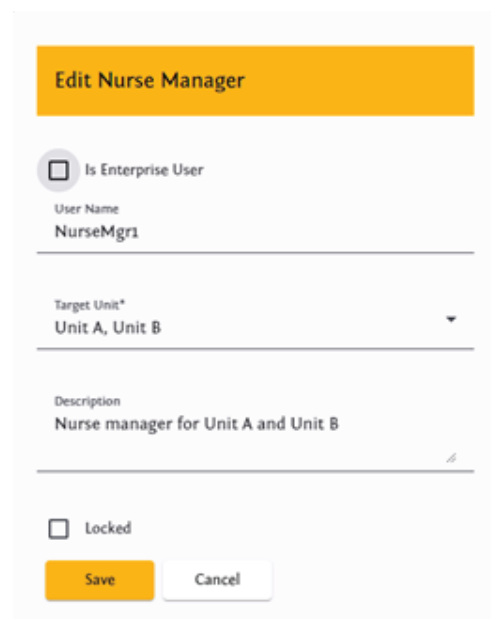


Figure 12 – Without Enterprise User

4. In the **Edit Nurse Manager**, enter the following:

- a. Select the checkbox next to **Is Enterprise User**. A user drop-down menu with an enterprise user role named **Nurse Manager** appears under **User Name** (Figure 11).
- b. **User Name**: Type in the nurse manager's user name to log in to the Vision on Cloud (Figure 12).
- c. **Password**: Auto-generated or created manually.

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

- d. **Target Unit**: Select a unit from the drop-down menu.
 - e. **Description**: Type in a user created description.
5. Select **Create**.

Note - If the system is set up with **Enterprise User Management**, the new user appears on the **Nurse Managers** screen with a mark under **Enterprise User**.

Editing a nurse manager user

To edit a nurse manager user:

1. Log in to Vision on Cloud.
2. Select **Nurse Managers**.
3. Select the **pencil icon** (B) (Figure 10) next to the nurse manager user that you want to edit (Figure 13).

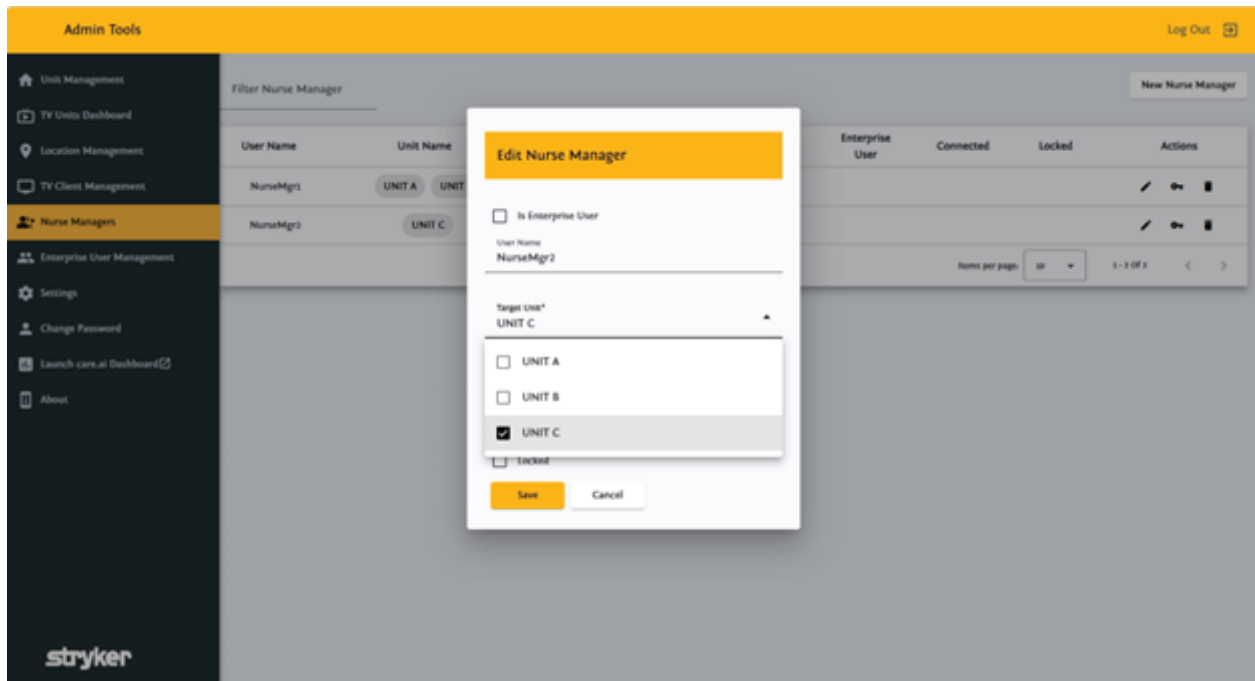


Figure 13 – Edit Nurse Manager

4. Edit the user in the **Edit Nurse Manager** screen. You can edit the following:
 - a. **Nurse Manager ID**: Change the nurse manager user name to log in to the Vision on Cloud.
 - b. **Target Unit**: Select a unit from the drop-down menu.
 - c. **Description**: Type in the user created description.
 - d. **Locked**: Select the checkbox to lock or unlock the nurse manager user.
5. Select **Save**.

Resetting a nurse manager password

To reset a nurse manager password:

1. Log in to Vision on Cloud.
2. Select **Nurse Managers**.
3. Select the **key icon** (C) next to the nurse manager that you want to reset (Figure 10).

Note - The **key icon** is locked for an Enterprise User Nurse Manager.

4. Enter the new password in the **Reset password** screen.

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

5. Select **Reset**.

Note - Lock behavior: If a nurse manager user is logged in to Vision on Cloud dashboard and an administrator manually checks the locked checkbox, the nurse manager user is forced to log out. The user needs to log in with a new password.

Deleting a nurse manager user

To delete a nurse manager user:

1. Log in to Vision on Cloud.
2. Select **Nurse Managers**.
3. Select the **trash can** icon (D) next to the nurse manager user that you want to delete (Figure 10).
4. In the **Delete Nurse Manager** screen, select **Yes** to confirm.

Managing TV clients

TV Units dashboard

The **TV Units dashboard** allows you to view any Vision on Cloud dashboard from the administrative screen.

To view the **TV Units dashboard**:

1. Log in to Vision on Cloud.
2. Select **TV Units dashboard**.
3. Select **Units** from the drop-down menu.
4. Select the unit that you want to view.

Creating a TV client

Note - Stryker recommends using a LAN connection for the TV client.

To create a TV client:

1. Log in to Vision on Cloud.
2. Select **TV client management**.

Note - Create a unit before you assign a TV client. See *Creating a new unit* (page 6).

3. Select **New TV (A)** (Figure 14).
4. In the **New TV** screen, enter the following:
 - a. Select the checkbox next to **Is Enterprise User**. A user drop-down menu with an enterprise user role named **TV** appears under the **TV ID**.
 - b. **TV ID**: Type in the TV user name used to log in to Vision on Cloud (Figure 15)
 - c. **Password**: Auto-generated or created manually

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

- d. **Target unit**: Select a unit from the drop-down menu
 - e. **Description**: Type in a user created description
5. Select **Save**.

Note - If the system is set up with **Enterprise User Management** (Figure 16), the TV ID appears on the **TV Client Management** screen with a mark under **Enterprise User**.

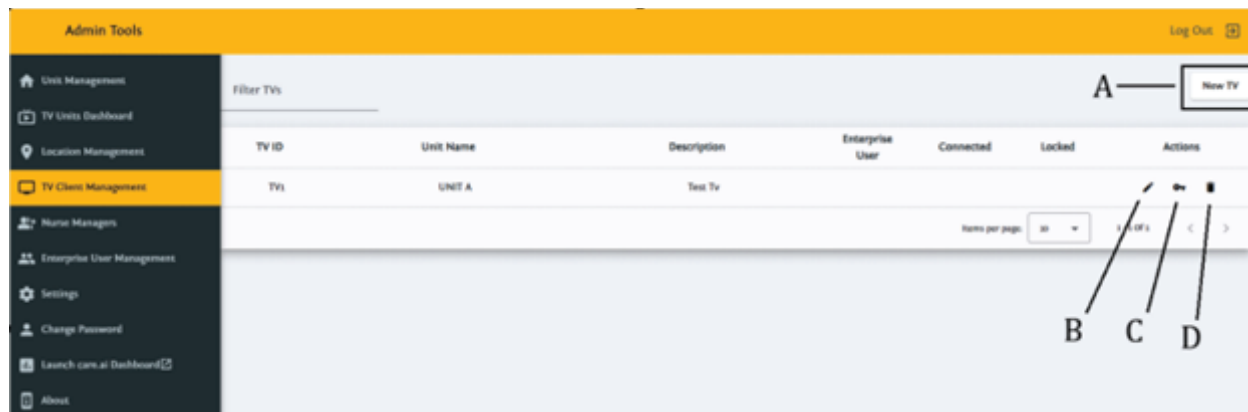


Figure 14 – TV client management

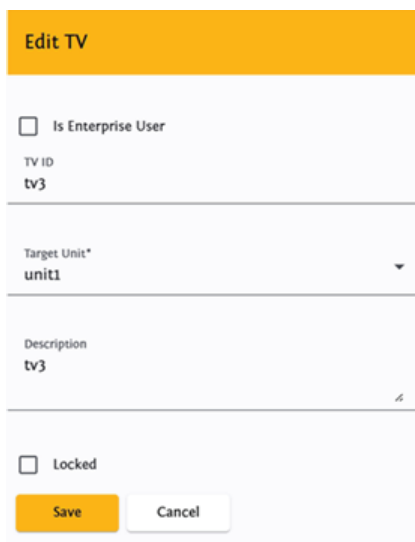


Figure 15 – Without Enterprise

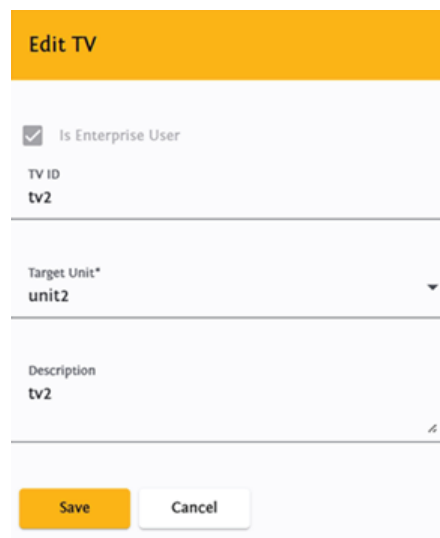


Figure 16 – With Enterprise

Resetting a TV client password

To reset a TV client password:

1. Log in to Vision on Cloud.
2. Select **TV client management**.
3. Select the **key** icon (C) next to the TV client that you want to reset (Figure 14).
4. In the **Reset password for:** screen, enter the new password.

Note - Password must not be empty and should be 8–16 characters long. The password must include at least one uppercase letter, one lowercase letter, one number (0–9) and one special character.

5. Select **Reset**.

Note - Locking behavior: If a TV client is logged in to Vision on Cloud dashboard and an administrator manually selects the locked checkbox, that TV client is forced to log out (Figure 17). The user needs to log in with a new password.

Figure 17 – Resetting TV client password

Editing a TV client

To edit a TV client:

1. Log in to Vision on Cloud.
2. Select **TV client management**.
3. Select the **pencil icon (B)** next to the TV client that you want to edit (Figure 14).
4. Edit the client in the **Edit TV** (Figure 15). You can edit the following:
 - **TV ID:** Change the TV ID for the log in to Vision on Cloud
 - **Target Unit:** Change the unit from the drop-down menu
 - **Description:** Update the user created description
 - **Locked:** Select the checkbox next to **Locked** to lock or unlock the TV client account
5. Select **Save**.

Deleting a TV client

To delete a TV client:

1. Log in to Vision on Cloud.
2. Select **TV client management**.
3. Select the **trash can icon (D)** next to the TV client that you want to delete (Figure 14).
4. In the **Delete TV** screen, select **Yes** to confirm.

Viewing or editing Vision on Cloud settings

To view or edit Vision on Cloud settings:

1. Log in to Vision on Cloud.
2. Select **Settings**.
 - a. Select **Modern** from the **Select Authentication** drop-down menu (Figure 18).
 - b. Select **Modern Email settings** to view and test (A) the Vision on Cloud email configuration.

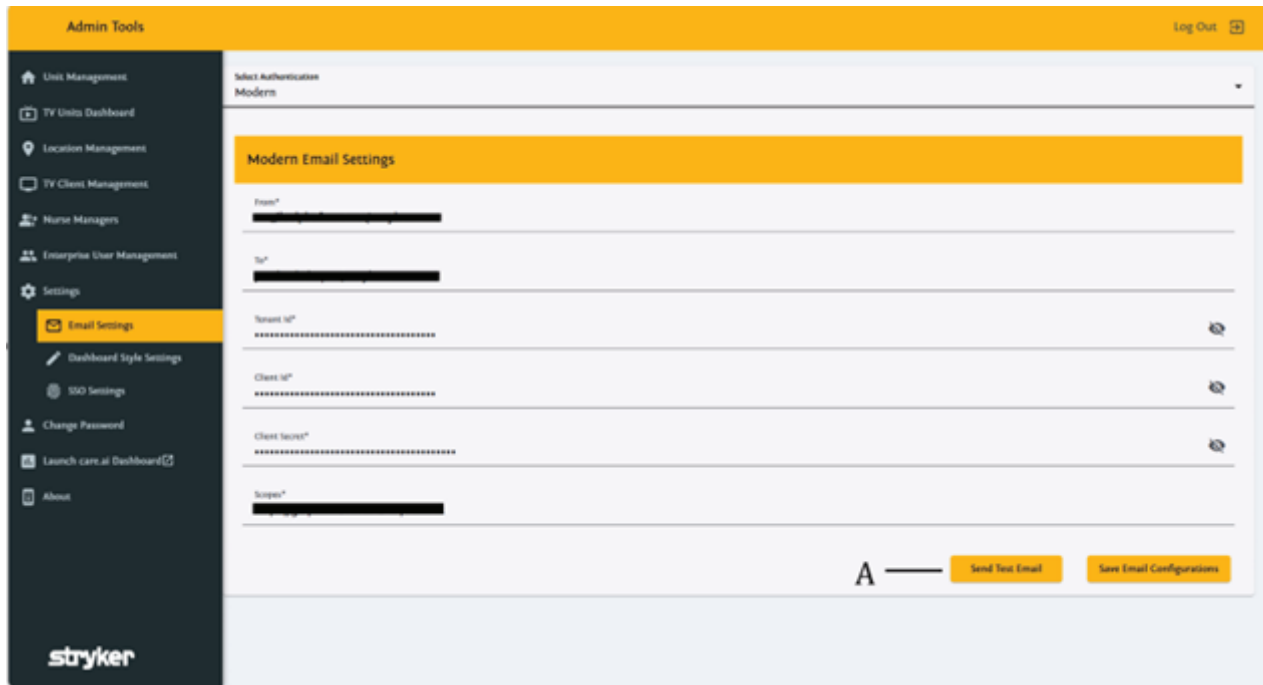


Figure 18 – Modern Email settings

- c. Select **Dashboard style settings** to view the Vision on Cloud style configuration (Figure 19).

Note - You can configure dashboard styles globally or for individual monitors.

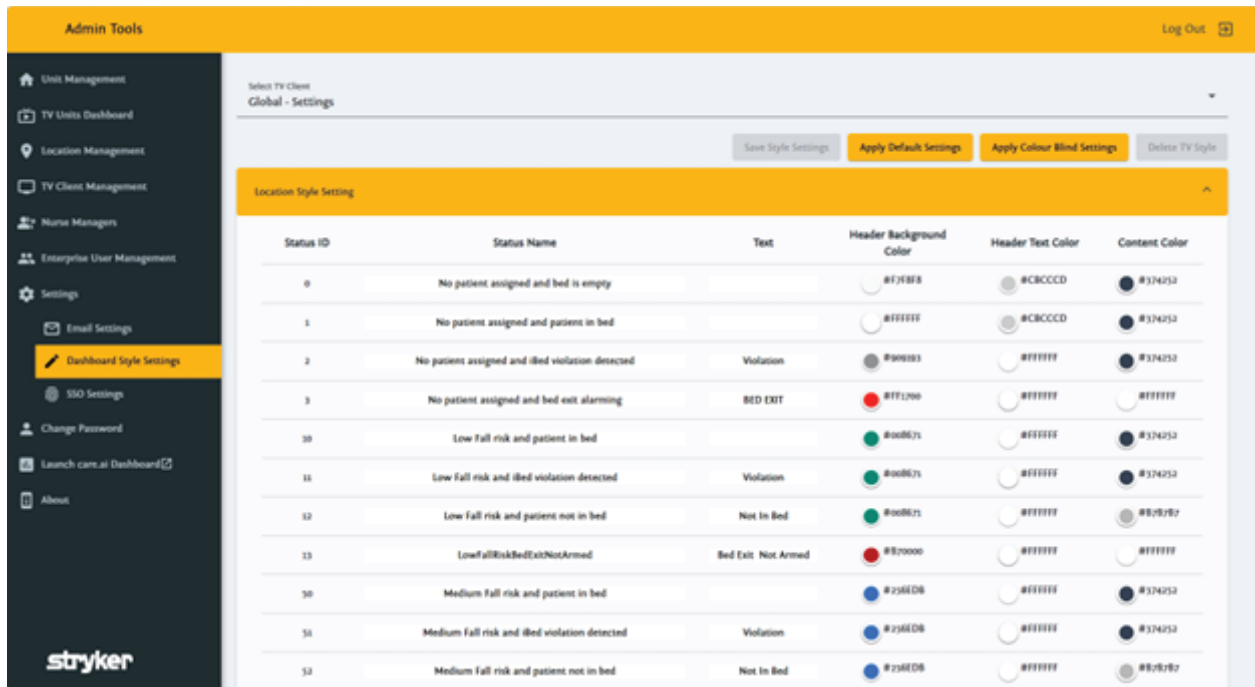


Figure 19 – Dashboard style settings

3. Select the scope from the **Select TV Client** drop-down menu.
 - a. Double-click the left mouse button to edit text fields.
 - b. Select the colored circle to change the color.
4. After you have made changes, the **Save Style Settings** turns orange.
5. Select **Save Style Settings** to save new dashboard style settings.

Managing enterprise users

Creating a new enterprise user

To create a new enterprise user:

1. Log in to Vision on Cloud.
2. Select **Enterprise User Management**.
3. Select **New User** (Figure 20).

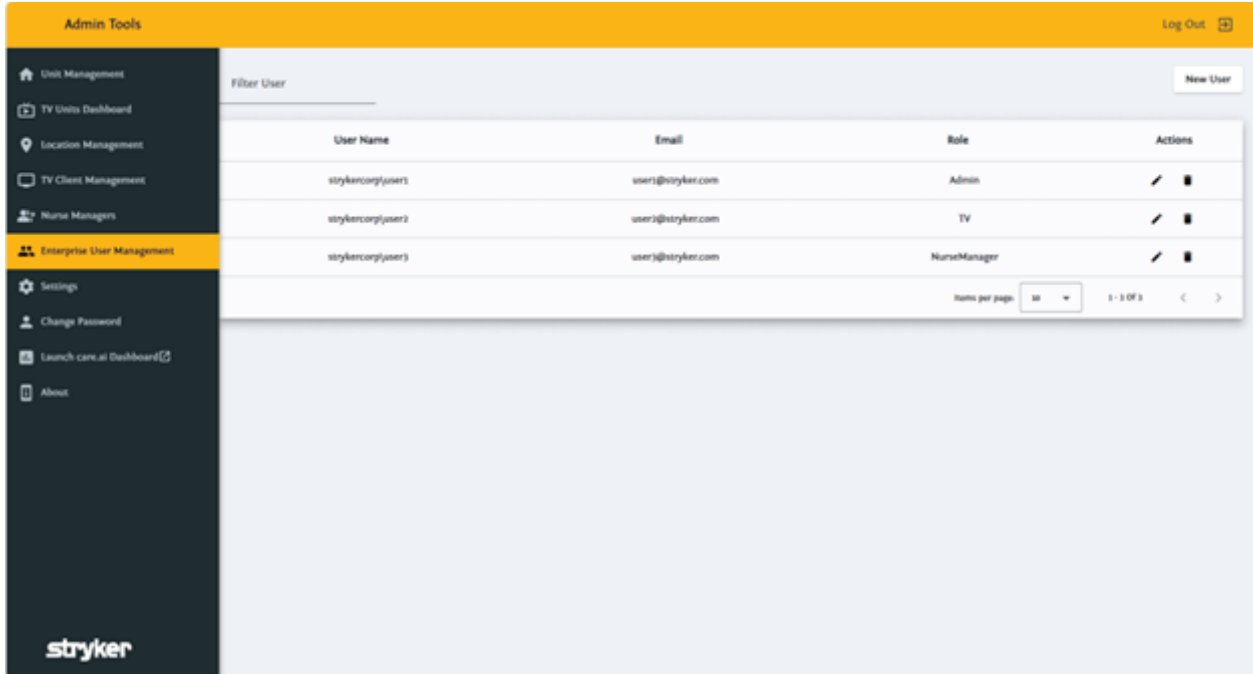


Figure 20 – New User

4. In the **New User** screen, enter the users name, email address, and role.
5. Select **Create**.

Note - The new user appears on the **Enterprise User Management** screen.

Editing an enterprise user

To edit an enterprise user:

1. Log in to Vision on Cloud.
2. Select **Enterprise User Management**.
3. Select the **pencil** icon next to the enterprise user that you want to edit.
4. Edit details in the **Edit User** screen (Figure 21).

Edit User

User Name*
strykercorp\user1

Email
user1@stryker.com

User Role*
Admin

Save Cancel

Figure 21 – Edit User

5. On the **Edit User** screen, edit the User Name, User email address, or User role.
6. Select **Save**.

Deleting an enterprise user

To delete an enterprise user:

1. Log in to Vision on Cloud.
2. Select **Enterprise User Management**.
3. Select the **trash can** icon of the user you want to delete.
4. In the **delete user** screen, select **Yes** to confirm.

Viewing or editing the Single Sign On settings

To view or edit the Single Sign On (SSO) settings:

1. Log in to Vision on Cloud.
2. Select **Settings**.
3. Select **SSO Settings** to view or edit settings.
4. Select SAML, OAuth, or Auth0 from the **Select Authentication Type** drop-down menu to view or edit settings.
5. Click **Save SSO type** to save the authentication type.
6. For authentication type **SAML** complete the following (Figure 22):
 - a. Enter Redirect Url, Federation Metadata Url, and Identifier for SAML authentication.
 - b. Click **Save SAML Configuration**.

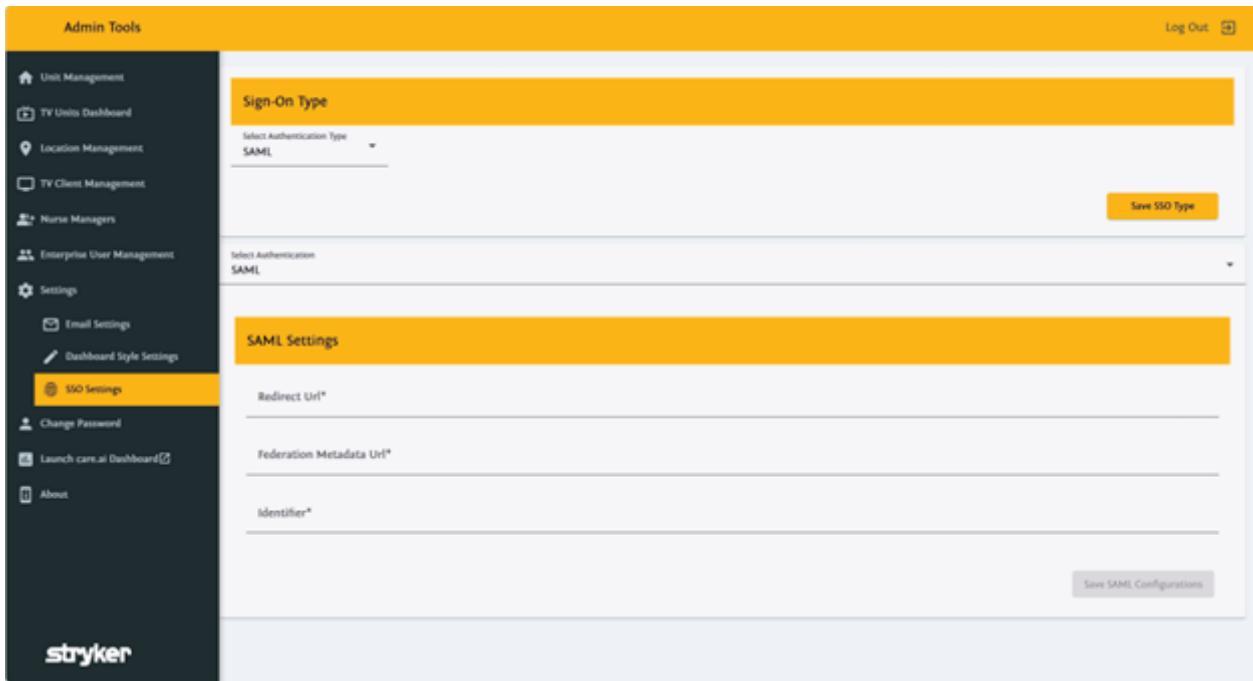


Figure 22 – SAML settings

7. For authentication type **OAuth** complete the following (Figure 23):
 - a. Enter **Client ID** and **Authority** for OAuth authentication.
 - b. Click **Save OAuth Configuration**.

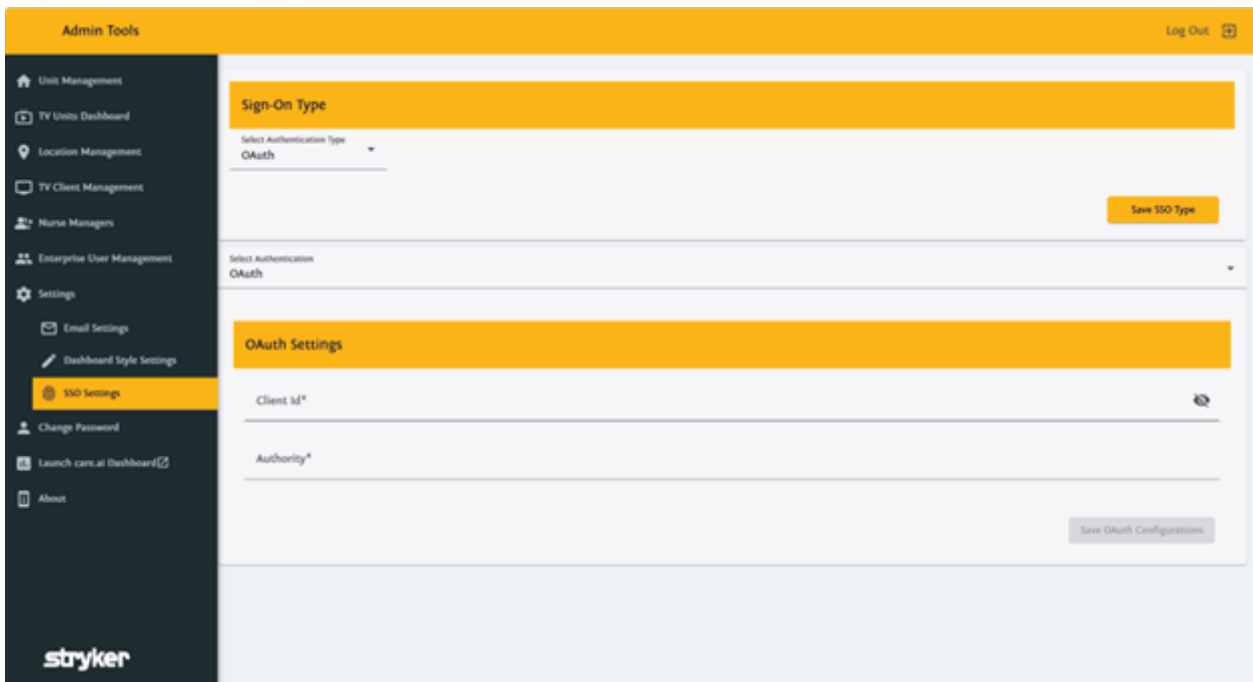


Figure 23 – OAuth settings

8. For authentication type **Auth0**, complete the following (Figure 24):
 - a. Enter **Client ID**, **Domain**, **Connection**, and **Identifier** for Auth0 authentication.
 - b. Click **Save Auth0 Configuration**.

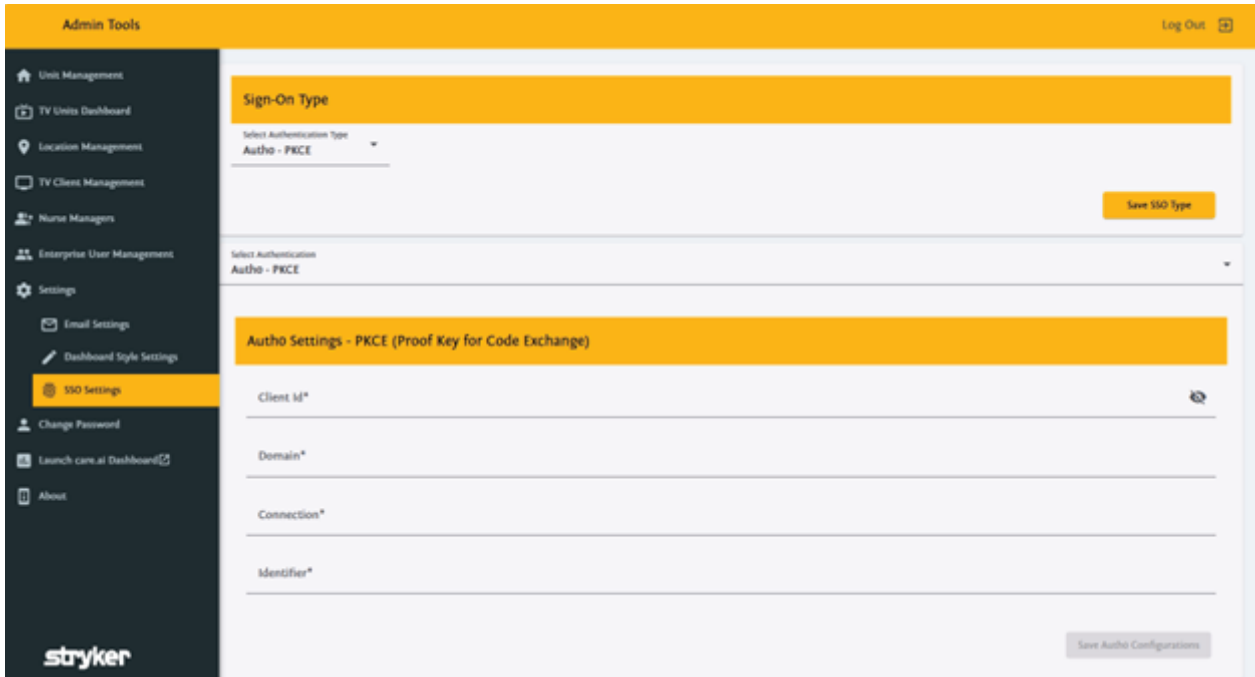


Figure 24 – Auth0 settings

Launching care.ai dashboard

The link to **Launch care.ai dashboard** is available if the client has a care.ai subscription and is configured. Selecting the link will redirect the user to the **care.ai Dashboard** (Figure 25) in a logged-in state and the user does not need to reenter credentials.

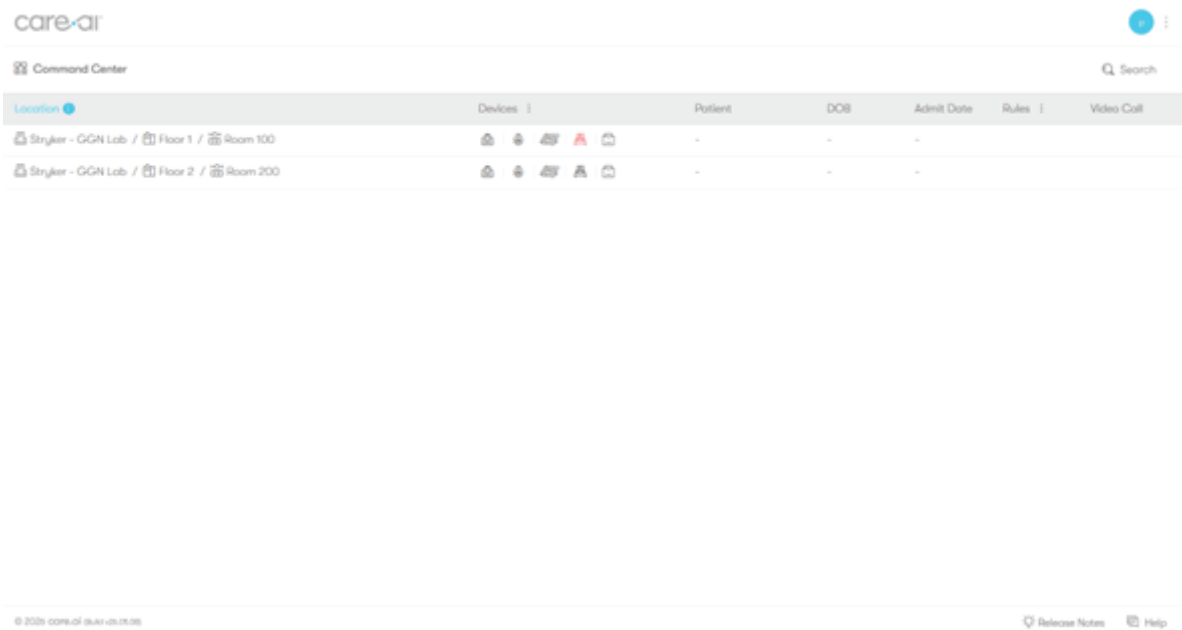


Figure 25 – care.ai Dashboard

About

The legal description of this product is found on the **About** screen (Figure 26).

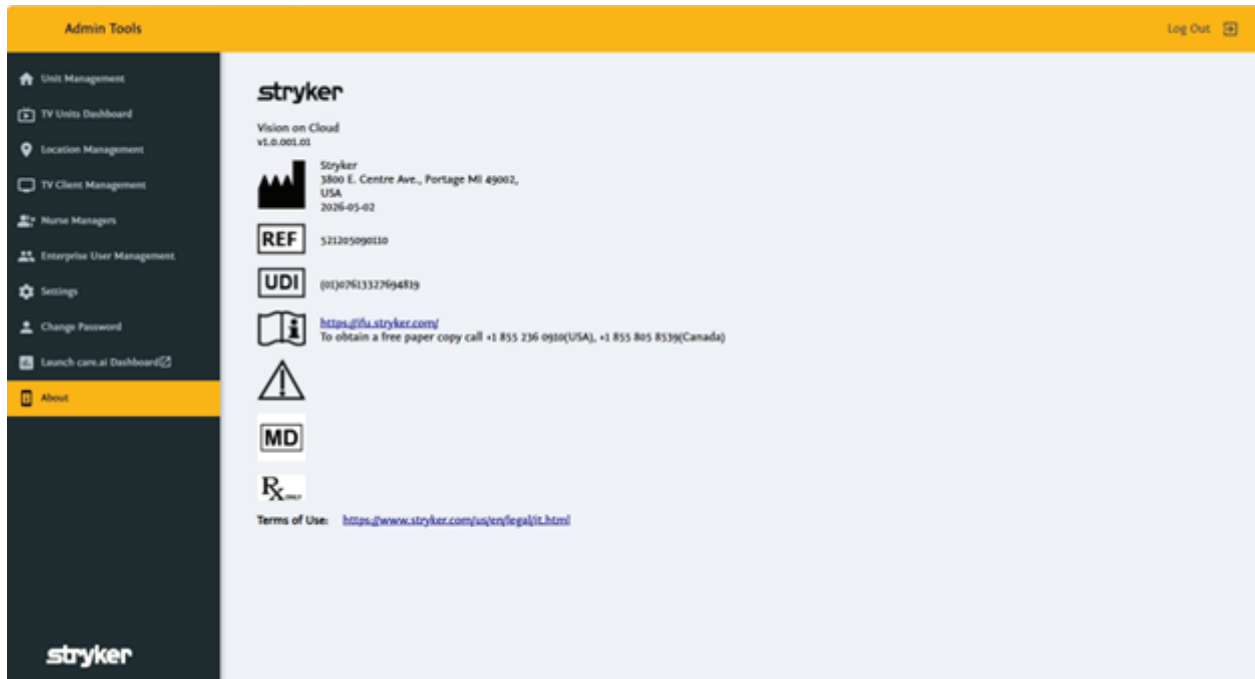


Figure 26 – About

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