



Vision

Service Manual

Platform Server

Software version 3.5

REF 521205090001

R_x ONLY

EN

Table of Contents

Introduction for service	2
Expected service life	2
Contact information	2
System requirements and recommendations	2
Configuring the Vision platform server	4
Logging in to the Vision platform server	4
Changing the administrative password	5
Unit management	7
Creating a new unit	7
Editing a unit	7
Deleting a single unit or multiple units	8
Location management	10
Importing locations	10
Assigning a location to a unit	10
Editing a location within a unit	11
Unassigning a location for a unit	11
Deleting a location	12
Nurse managers	13
Creating a nurse manager user	13
Editing a nurse manager user	15
Resetting a nurse manager password	15
Deleting a nurse manager user	16
TV client management	17
Creating a TV client	17
Resetting a TV client password	17
Editing a TV client	18
Deleting a TV client	18
TV Units dashboard	19
Viewing or editing Vision platform server settings	20
Enterprise user management	21
Creating a new enterprise user	21
Editing an enterprise user	21
Deleting an enterprise user	22
Viewing or editing the Single Sign On settings	22
About	24
Security	25

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

Major releases are expected to occur every three years at a minimum based on third-party software dependencies and associated software support life cycles. Backward compatibility to be maintained until the end-of-life date is established.

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 platform server system requirements:

- Virtual machine or dedicated server
- Windows server 2019 or 2022 operating system

Minimum requirements depend on the number of products connected to the system.

1 - 500 connected products:

- 2.x GHz processor or higher with a total of 4 cores
- Memory: 32 GB RAM
- Hard drive: 300 GB

501 - 1000 connected products:

- 2.x GHz processor or higher with a total of 8 cores
- Memory: 64 GB RAM
- Hard drive: 300 GB

Vision dashboard (client):

- A mini personal computer connected to a high definition (HD) 55-inch display at the nurses station.
 - **Google Chrome™** browser version 114 or higher
 - **Microsoft Edge™** browser version 111 or higher

- Optimized screen resolution from 1920 x 1080 - 3140 x 2160

Secure your network. Stryker recommends the following:

- Install antivirus/malware protection software
- Close unused network ports
- Disable unused services
- Manage access to system/network infrastructure
- Monitor network activity for irregularities

The following actions shall be completed:

- Stryker installation/log directories shall be whitelisted for the antivirus/malware protection software
- **Vision** communicates on port 443 (default TLS)
- Firewall configuration shall allow incoming traffic on port 443
- Disable weak or expired TLS/SSL protocols on the **Vision** platform server
- **Vision** users shall follow cybersecurity rules while interacting with the **Vision** platform server

Configuring the Vision platform server

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

- *Unit management* (page 7)
- *TV Units dashboard* (page 19)
- *Location management* (page 10)
- *TV client management* (page 17)
- *Nurse managers* (page 13)
- *Enterprise user management* (page 21)
- *Viewing or editing **Vision** platform server settings* (page 20)
- *Changing the administrative password* (page 5)
- *About* (page 24)

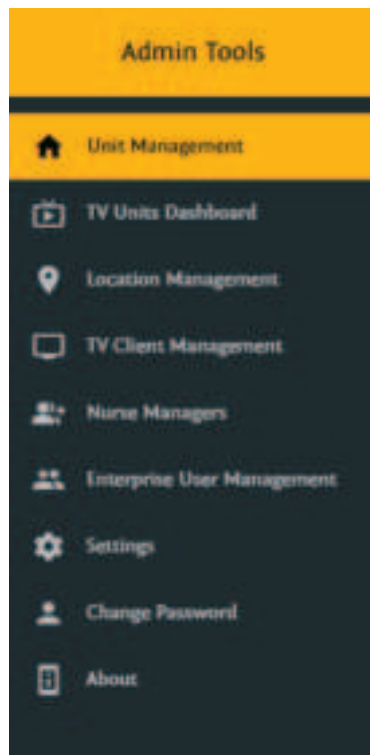


Figure 1 – Vision platform server

Logging in to the Vision platform server

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

To log in to the **Vision** platform server:

1. Access the **Vision** platform server at: <https://FQDN/login> (FQDN = Fully Qualified Domain Name) of the server hosting **Vision**.
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

4. Select **Login**.

Changing the administrative password

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

To change the administrative password:

1. Log in to the **Vision** platform server.
2. Select **Change Password**.
3. Enter the required information denoted by the * to change the password (Figure 4).

The screenshot shows the 'Admin Tools' interface with a dark sidebar on the left and a main content area. The sidebar contains a list of navigation items: 'Web Management', 'IT Data Dashboard', 'Location Management', 'IT Client Management', 'Route Manager', 'Enterprise User Management', 'Settings', 'Change Password' (highlighted in orange), and 'About'. The 'Change Password' section in the main area has a title bar and four input fields: 'Select User*', 'Current Password*', 'New Password*', and 'Re Enter Password*'. Each field has a small icon on the right side. A 'Save Password' button is located at the bottom right of the form area. The Stryker logo is visible in the bottom left corner of the sidebar.

Figure 4 – Password change

4. Select **Save Password**.

Unit management

Creating a new unit

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

To create a unit:

1. Log in to the **Vision** platform server.
2. Select **Unit Management**.
3. Select **New Unit** (A) (Figure 5).

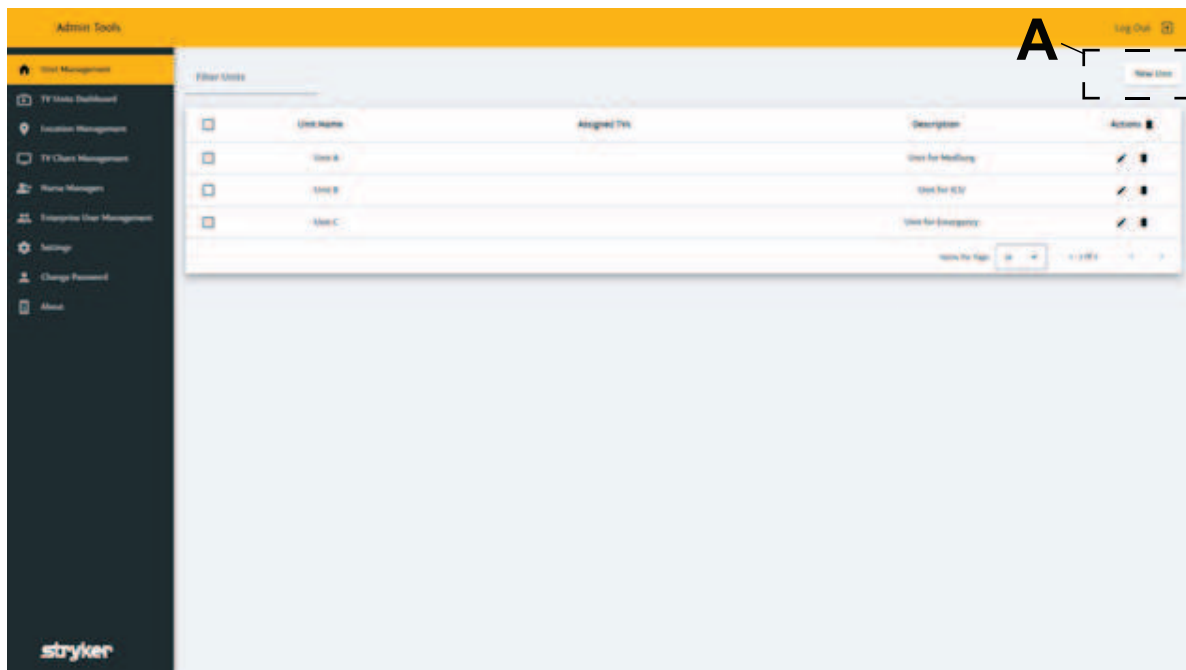


Figure 5 – New unit

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 the **Vision** platform server.
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).

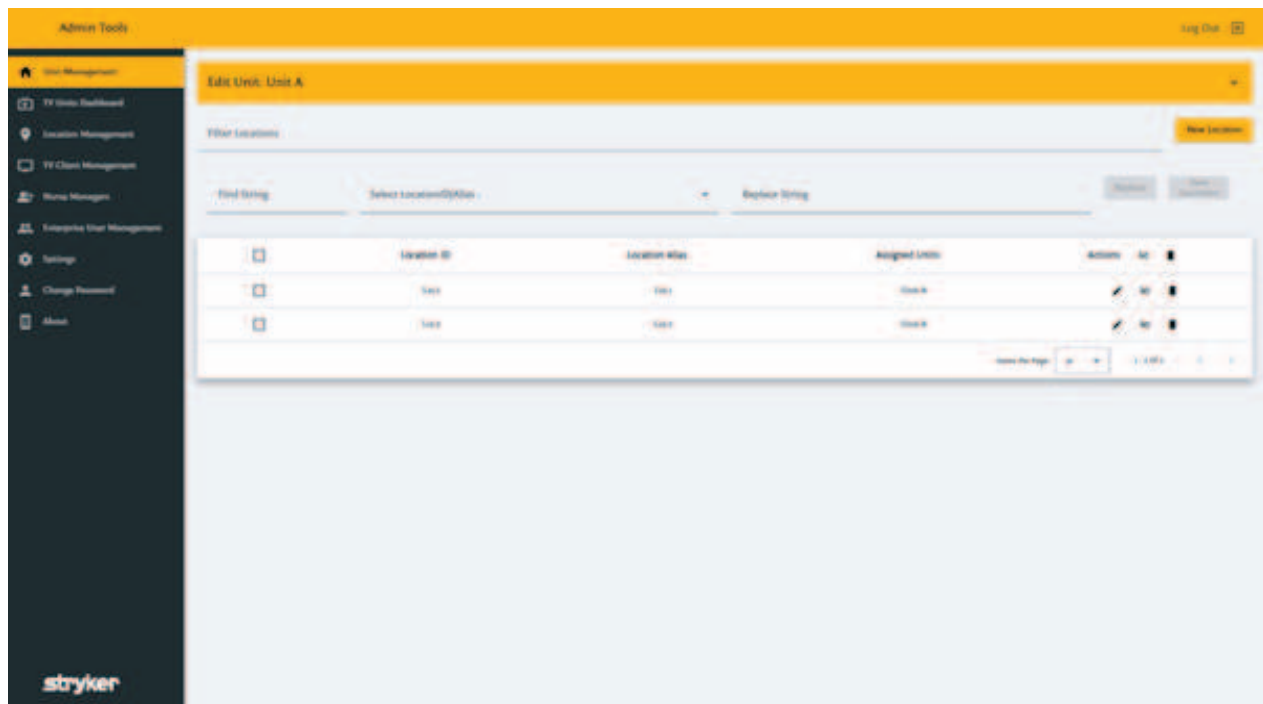


Figure 6 – Edit Unit

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 the **Vision** platform server.
2. Select **Unit Management**.

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

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

Note - You can select one or more **trash can** icons.

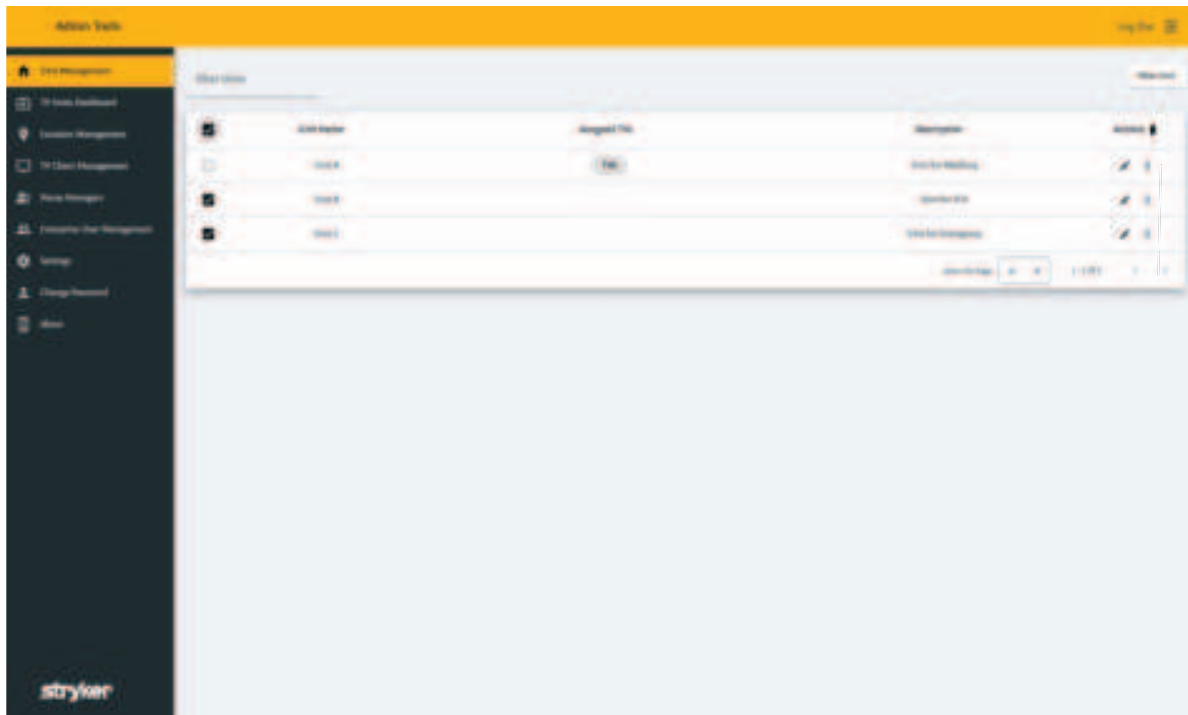


Figure 7 – Delete Unit

5. In the **Delete Unit** dialog, select **Yes** to confirm.

Location management

Importing locations

Locations are the products/rooms that are assigned to units for supervision. The **Vision** platform server imports locations.

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

To import locations:

1. Log in to the **Vision** platform server.
2. Select **Location Management**.
3. Select **Import Locations**.
4. Select **Choose File**.
5. In the **Windows Explorer** dialog, select the XML file, and 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 the **Vision** platform server.
2. Select **Location Management**.

Note - You must import a location before you can assign a location to a unit. See *Importing locations* (page 10).

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

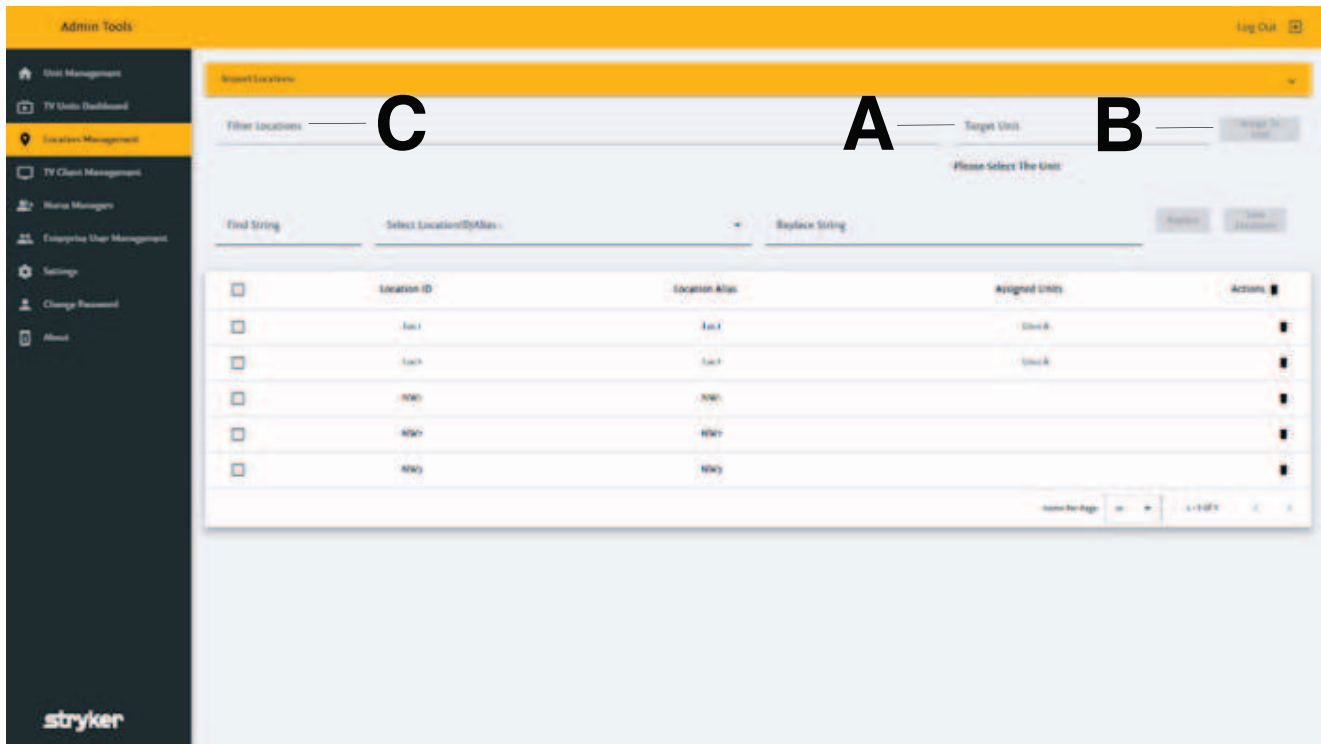


Figure 8 – Assign multiple locations

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 - Enter your search text on the **Filter Locations** line (C) to filter locations.

Editing a location within a unit

To edit a location within a unit:

1. Log in to the **Vision** platform server.
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 the **Vision** platform server.
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** dialog, select **Yes** to confirm.

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

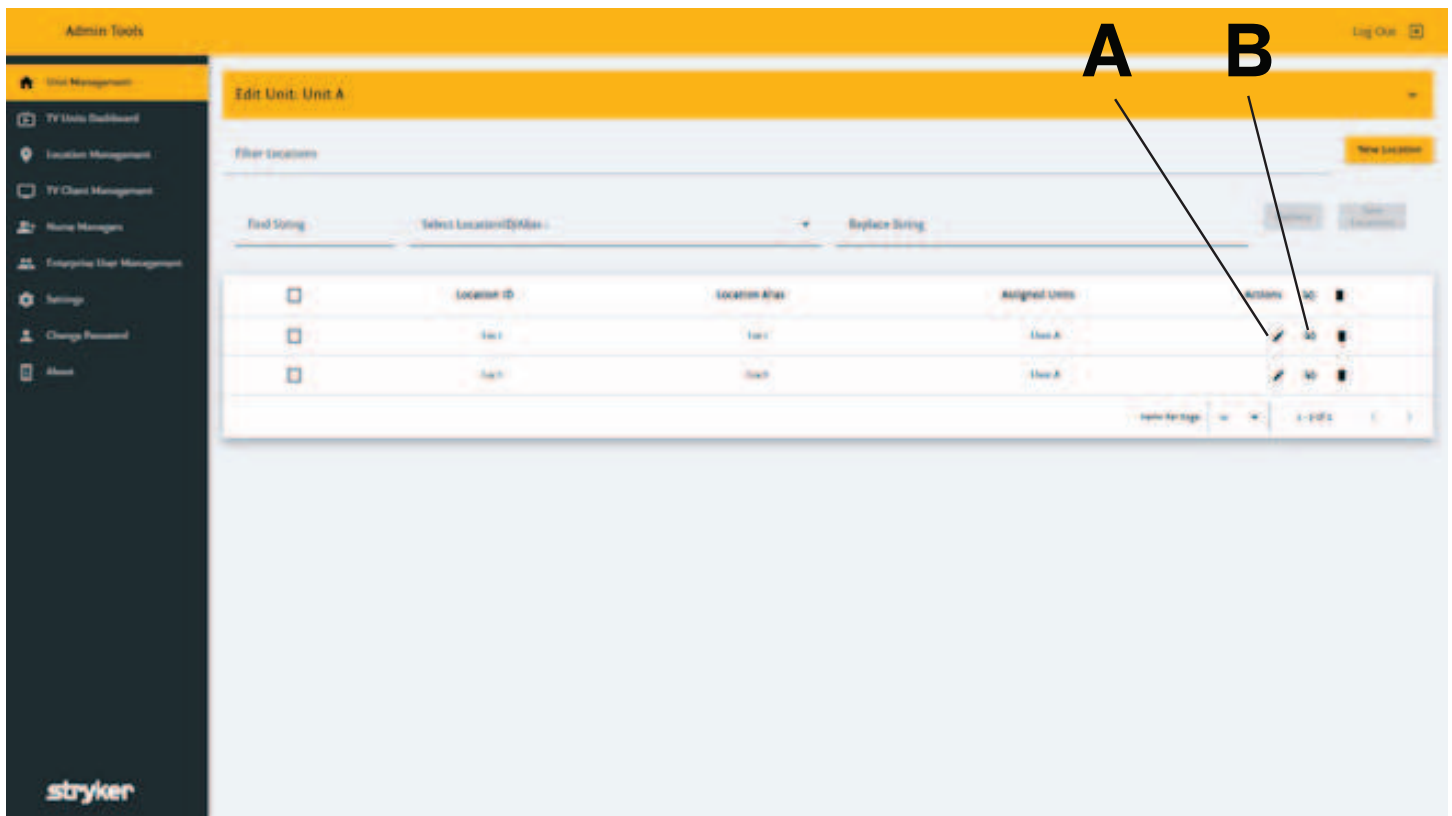


Figure 9 – Edit Unit

Deleting a location

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

1. To delete a location from **Unit management**:

- Log in to the **Vision** platform server.
- Select **Unit Management**.
- Select the **pencil icon** (A) for the unit that you want to delete locations from (Figure 9).
- Select the **trash can icon** (C) next to the location that you want to delete.
- In the **Delete Location** dialog, select **Yes** to confirm.

2. To delete a location from **Location Management**:

- Log in to the **Vision** platform server.
- Select **Location Management**.
- Select the **trash can icon** next to the location that you want to delete.
- In the **Delete Location** dialog, select **Yes** to confirm.

Nurse managers

Creating a nurse manager user

To create a nurse manager user:

1. Log in to the **Vision** platform server.
2. Select **Nurse Managers**.
3. Select **New Nurse Manager** (A) (Figure 10).

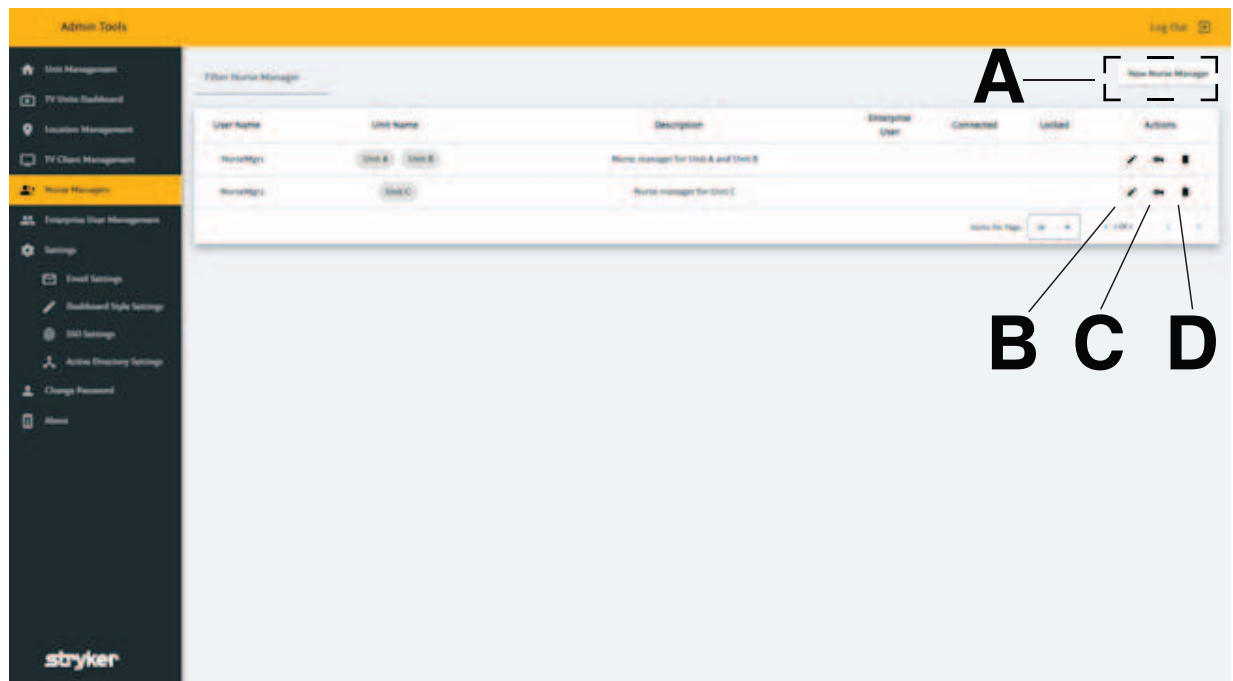


Figure 10 – Nurse Managers

Edit Nurse Manager

☒ Is Enterprise User

User Name
NurseMgr2

Target Unit*
Unit C

Description
Nurse manager for Unit C

Save Cancel

Figure 11 – With Enterprise User

Edit Nurse Manager

☐ Is Enterprise User

User Name
NurseMgr1

Target Unit*
Unit A, Unit B

Description
Nurse manager for Unit A and Unit B

☐ Locked

Save Cancel

Figure 12 – Without Enterprise User

4. In the **New Nurse Manager**, enter the following:
 - a. Select the checkbox next to **Is Enterprise User**. A user dropdown menu with an enterprise user role named **Nurse Manager** appears under **User Name** (Figure 11).
 - b. **User Name**: Type in the nurse manager username to log in to the **Vision** platform server (Figure 12).
 - c. **Password**: Auto generated or created manually.
 - d. **Target Unit**: Select a unit from the dropdown menu.
 - e. **Description**: Type in 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 the **Vision** platform server.
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).

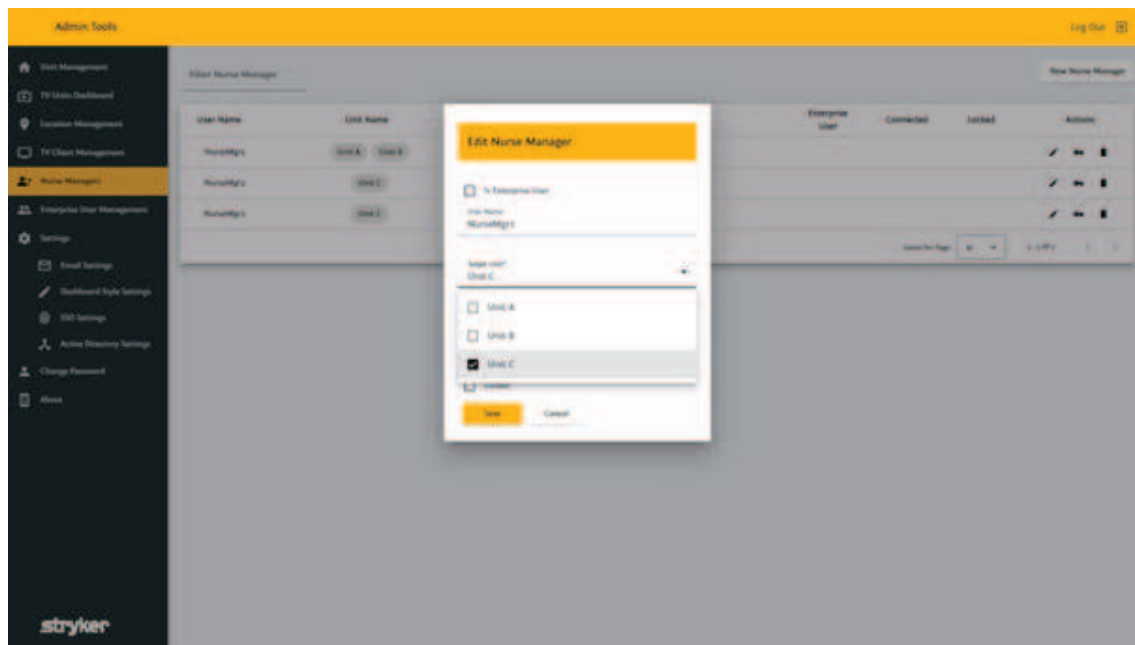


Figure 13 – Edit Nurse Manager

4. Edit the user in **Edit Nurse Manager** screen. You can edit the following:
 - a. **Nurse Manager ID**: The nurse manager username to log in to the **Vision** platform server.
 - b. **Target Unit**: Select a unit from the dropdown menu.
 - c. **Description**: Type in the user created description.
 - d. **Locked**: Click the check box 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 the **Vision** platform server.
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.
5. Select **Reset**.

Note

- If you change or reset the password for a nurse manager that is actively logged in, the nurse manager user will not log out of the current dashboards.
- Lock behavior: If a **Vision** dashboard is logged in and an administrator manually checks the locked checkbox, the nurse manager user will be forced to log out. The lock forces the user that is logged in to the system to log out. The user will need to log in with the new password.

Deleting a nurse manager user

To delete a nurse manager user:

1. Log in to the **Vision** platform server.
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**, select **Yes** to confirm.

TV client management

Creating a TV client

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

To create a TV client:

1. Log in to the **Vision** platform server.
2. Select **TV client management**.

Note - You must create a unit before you can assign a TV client.

3. Select **New TV (A)** (Figure 14).
4. In the **New TV** screen, enter the following:
 - **TV ID:** The TV username used to log in to the **Vision** platform server
 - **Password:** Auto-generated or created manually
 - **Target unit:** Select a unit from the dropdown menu
 - **Description:** User created description
5. Select **Create**.

Note - The new TV client appears in the **TV client management** screen.



Figure 14 – TV client management

Resetting a TV client password

To reset a TV client password:

1. Log in to the **Vision** platform server.
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.
5. Select **Reset**.

Note

- If you change or reset the password for a TV client that is actively logged in, the TV client will not log out of the current dashboards.

- Locking behavior: If a **Vision** dashboard is logged in and an administrator manually checks the locked checkbox, that TV client will be forced to log out (Figure 15). The locking behavior forces anyone that is logged into the system to log out. The user will need to log in with the new password.

Figure 15 – Resetting TV client password

Editing a TV client

To edit a TV client:

1. Log in to the **Vision** platform server.
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** screen. You can edit the following:
 - **TV ID**: The TV username to log in to the **Vision** platform server
 - **Target Unit**: Select a unit from the dropdown menu
 - **Description**: User created description
 - **Locked**: Check to lock/unlock the TV client account
5. Select **Save**.

Deleting a TV client

To delete a TV client:

1. Log in to the **Vision** platform server.
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** dialog, select **Yes** to confirm.

TV Units dashboard

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

To view the **TV Units dashboard**:

1. Log in to the **Vision** platform server.
2. Select **TV Units dashboard**.
3. Select **Units** from the dropdown menu.
4. Select the unit that you want to view.

Viewing or editing Vision platform server settings

To view or edit the **Vision** platform server settings:

1. Log in to the **Vision** platform server.
2. Select **Settings**.
 - a. Select **Basic** from the **Select Authentication** dropdown menu (Figure 16).
 - b. Select **Basic Email settings** to view and test (A) the **Vision** platform server email configuration.

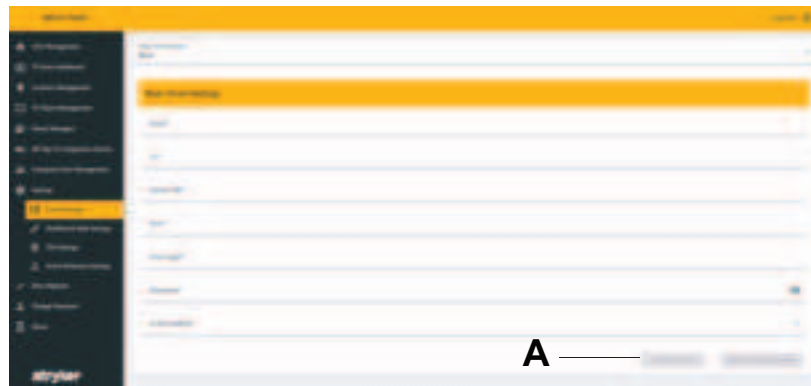


Figure 16 – Basic Email settings

- c. Select **Dashboard style settings** to view the **Vision** platform server style configuration (Figure 17).

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

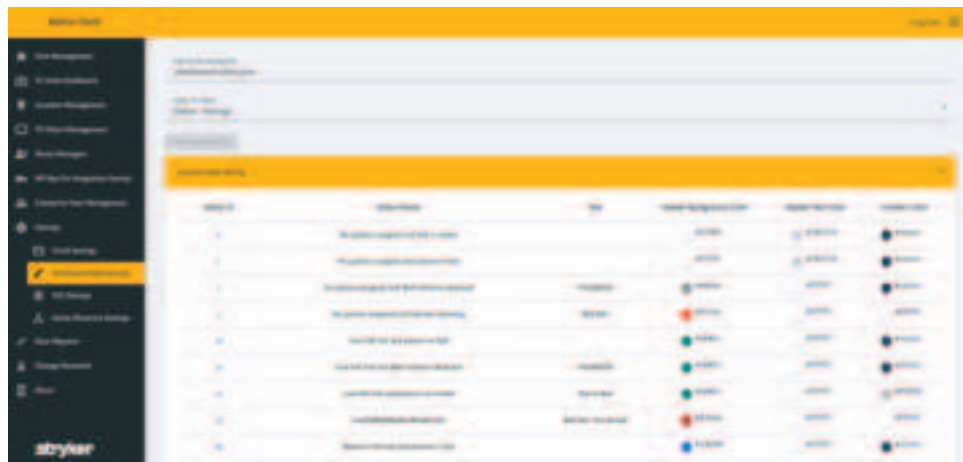


Figure 17 – Dashboard style settings

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

Enterprise user management

Creating a new enterprise user

To create a new enterprise user:

1. Log in to the **Vision** platform server.
2. Select **Enterprise User Management**.
3. Select **New User (A)** (Figure 18).

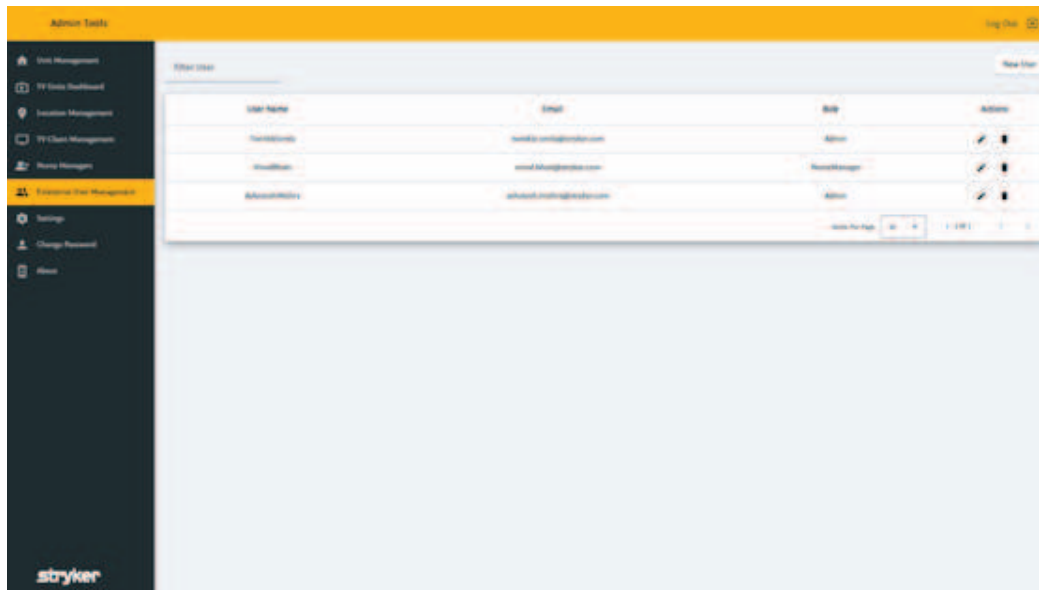


Figure 18 – New User

4. On the **New User** screen, enter the **User Name**, **User email address**, and **User role**.
5. Select **Create**.

Note - The new nurse appears.

Editing an enterprise user

To edit an enterprise user:

1. Log in to the **Vision** platform server.
2. Select **Enterprise User Management**.
3. Select the **pencil** icon next to the enterprise user that you want to edit.
4. Enter edit details in the **Edit User** screen (Figure 19).



Figure 19 – Edit User

5. Select **Save**.

Deleting an enterprise user

To delete an enterprise user:

1. Log in to the **Vision** platform server.
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 the **Vision** platform server.
2. Select **Settings**.
3. Select **SSO Settings** to view or edit settings.
4. Select **SAML** or **OAuth** from the **Select Authentication Type** dropdown 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 20):
 - a. Enter **Redirect Url**, **Federation Metadata Url**, and **Identifier** for SAML authentication.
 - b. Click **Save SAML Configuration**.

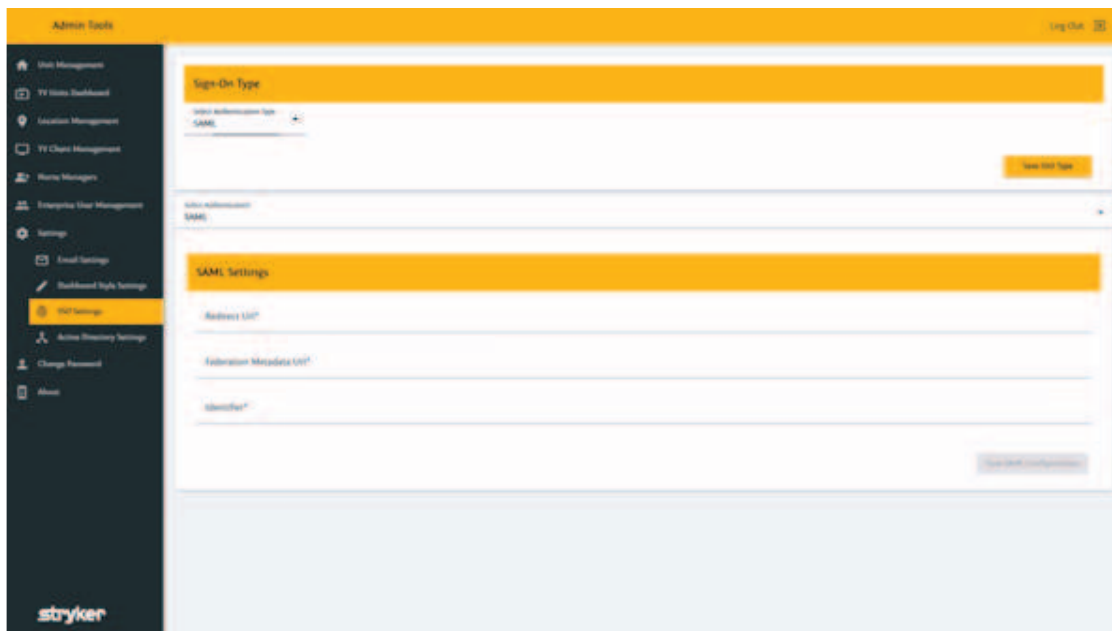


Figure 20 – SAML settings

7. For authentication type **OAuth** complete the following (Figure 21):

- a. Enter **Client ID** and **Authority** for OAuth authentication.
- b. Click **Save OAuth Configuration**.

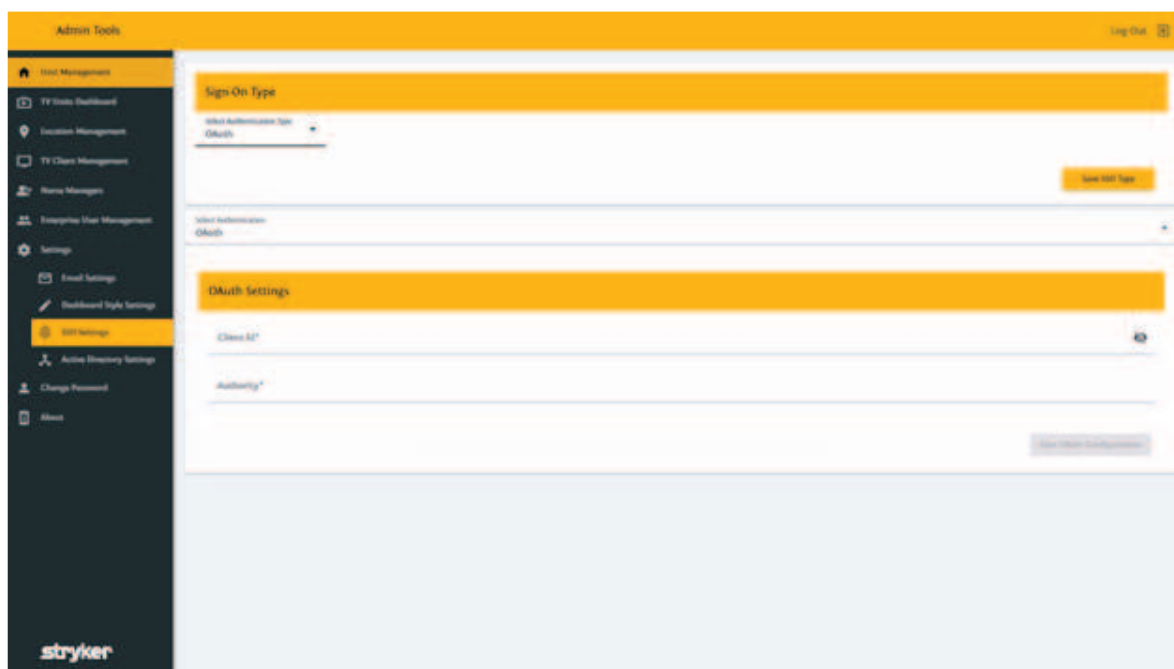


Figure 21 – OAuth settings

About

The legal description of this product is found on the **About** screen (Figure 22).

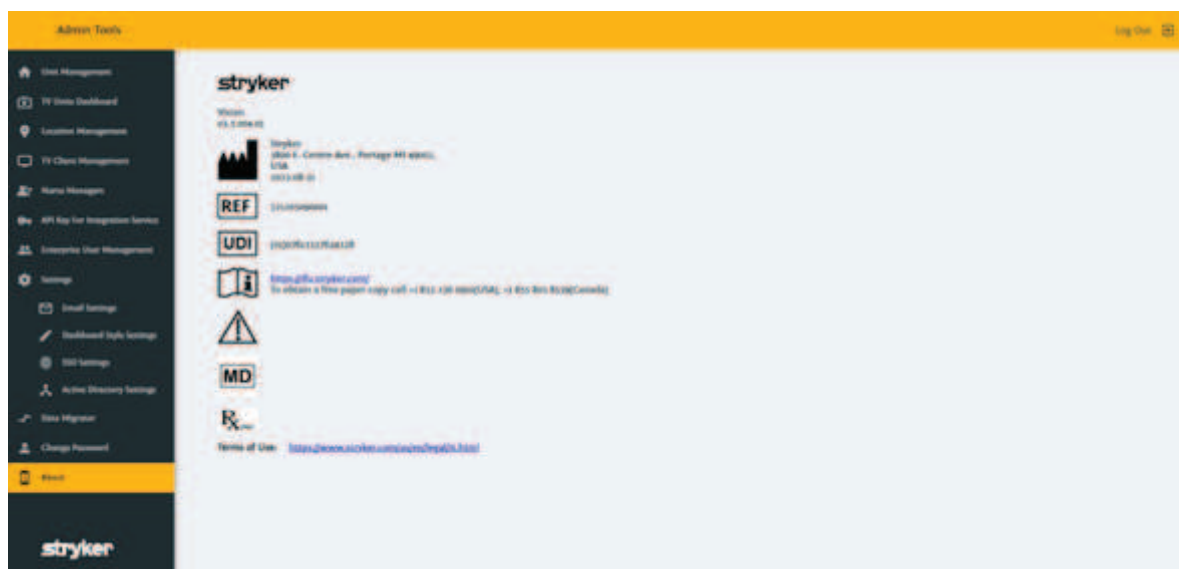


Figure 22 – About

Security

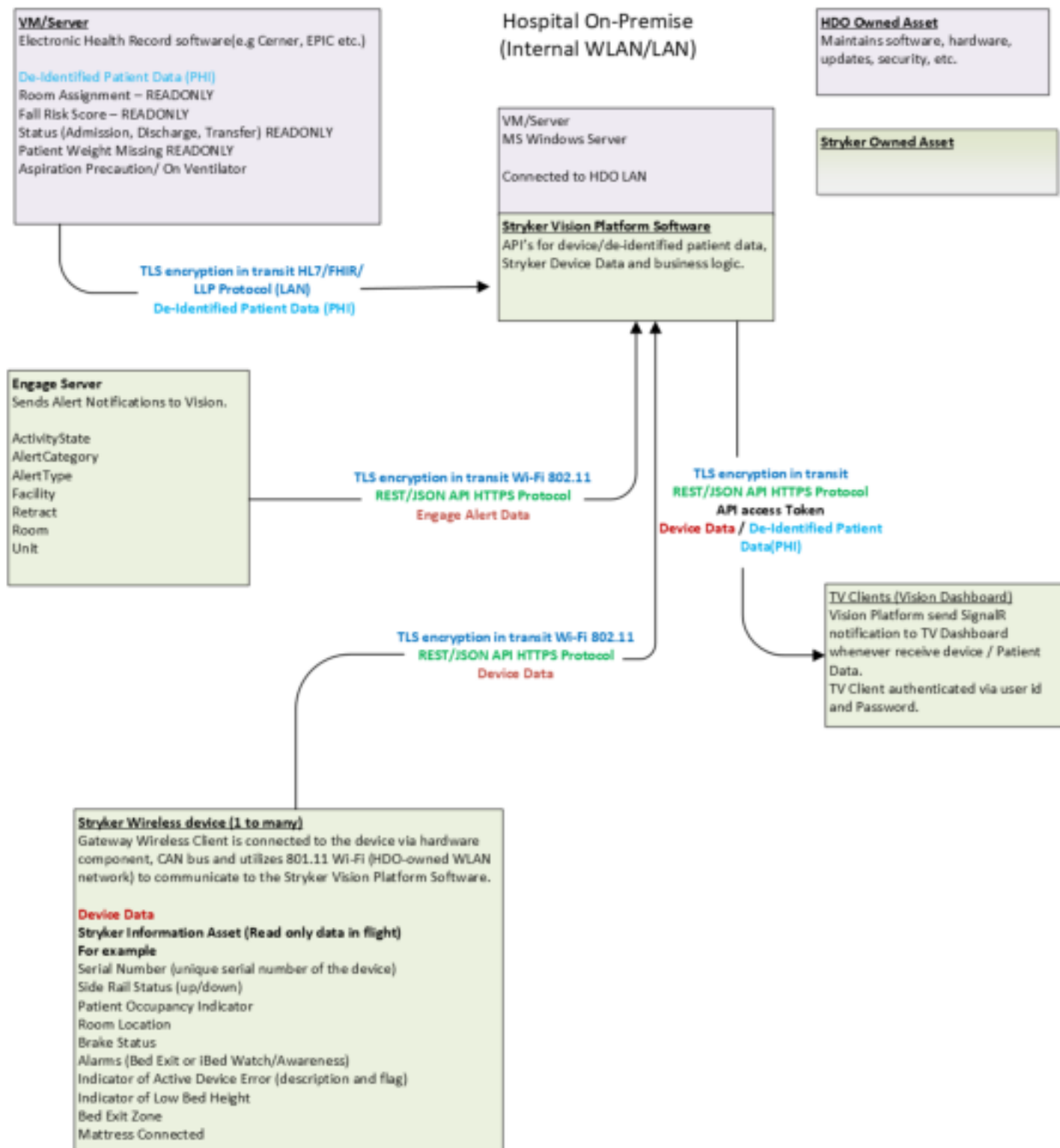


Figure 23 – Security block diagram



Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: **iBed, Stryker, Vision, Vocera Engage**. All other trademarks are trademarks of their respective owners or holders.



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