FRESENIUS KABI
caring for life

Vigilant Software Suite 1.0

Vigilant Master Med

Dose-Error Reduction Software

REF: ZK288001, ZUS88001

USER'S GUIDE SUPPLEMENT

Symbol descriptions

Labelling symbols

Caution (Refer to the Instructions for Use)

Electronic Instructions for Use are available at the following address: *https://key2.fresenius-kabi.com*, or in the USB

CE mark

For US/CA only: Caution: Federal law restricts this device to sale by or on the order of a physician (See 21 CFR 801.109(b)(1))

Software version

Product reference / part number

Serial number

Name and address of the manufacturer

Name and address of the manufacturing facility

Date of manufacture

Symbols used in this document

Warning: Warning of a potential hazard that could result in serious personal injury and/or product damage if the written instructions are not followed.

Information: Recommendations to be followed.

Table of contents

1 Introduction

1.1 Scope

This user's guide is applicable to the Vigilant Master Med software. Vigilant Master Med is a component of the Vigilant Software Suite.

The purpose of this document is to provide information to help operate the software safely, accurately and efficiently.

You must read this document before using the software, along with all the accompanying documents provided with the following components:

- Compatible Fresenius Kabi infusion pumps
- Other associated software and accessories

1.2 Vigilant Master Med intended purpose

Vigilant Master Med is a Dose Error Reduction Software (DERS) intended to create, customize, and manage drug library data and device configurations to be uploaded to compatible Fresenius Kabi infusion devices which may reduce the risk of drug administration errors.

1.3 Vigilant Master Med intended users

Vigilant Master Med must only be used by qualified and trained personnel.

Vigilant Master Med is intended for use by the following users:

- Pharmacists (primary users)
- Biomedical engineers
- IT Administrator (support users)

1.4 Training

WARNING
Before using Vigilant Master Med, appropriate training must be completed.

For training, contact your Fresenius Kabi sales representative.

NOTE: Typical initial training duration: 1 hour. We recommend that you attend a 20-minute refresher course once a year.

1.5 Use environment

Vigilant Master Med is intended for use in healthcare environments.

2 Fundamentals

2.1 Health organization structure in Vigilant Software Suite

Prior to using any software application of the Vigilant Software Suite, your administrator must configure the Vigilant Software Suite in order to reflect your health organization structure.

The following information must be accurately configured at all times within the Vigilant Software Suite:

Structure level	Description
Organization	Your health organization.
Hospitals	All the hospitals in your health organization.
Wards	All the wards in your health organization, and information about the hospital they belong to.

INFORMATION
Your administrator must use the Vigilant Centerium software to configure the health organization structure.

2.2 Vigilant Master Med main functions

Vigilant Master Med's main functions are the following:

Function	Tab	Description
Create and manage drugs	**Master Drug Library**	See *Drugs* on page 21
Create and manage therapies	**Master Drug Library**	See *Therapies* on page 25
Create and manage drug libraries	**Drug Libraries**	See *Drug libraries* on page 40
Create and manage device configurations	**Device Configurations**	See *Device configurations* on page 44
Create and manage profiles	**Profiles**	See *Profiles* on page 52
Create and manage data sets	**Data Sets**	See *Data sets* on page 54
Create and manage distribution policies Upload a released data set to a directly connected device	**Distribution**	See *Distribution* on page 56

2.3 Drugs and therapies

Drugs are created in a centralized library called **Master Drug Library** and can be associated to sets of drugs called drug libraries.

A therapy defines how a drug is used within a drug library. A therapy is associated to a drug and each therapy contains different limits.

If there is more than one therapy per drug, the therapy name becomes mandatory. If there is only one therapy, the therapy name is optional.

2.4 Drug libraries

A drug library defines the drugs and fluids available for delivery using an infusion pump. The drugs and fluids include any limit programmed into Vigilant Master Med.

- A drug library is defined according to the following criteria:
  - Drug protocols
  - Clinical practices
- Pumps can hold a maximum of 19 drug libraries, each of which is limited to 200 drug or therapy combined entries.
- No default drug libraries are delivered with the software.

NOTE: A drug list is a list of drugs that includes only drugs without therapies.

20.1.; 20.2.

Therapy display name in a drug library

Therapy display name is the name that appears on the infusion pump for a given therapy.

When a therapy is added to a drug library, Vigilant Master Med automatically assigns a display name to the therapy. For non-TCI therapies, the default therapy display name is the association of the drug name and the therapy name. For TCI-therapies, the display name is fixed.

INFORMATION

- Therapy display name must be unique within a drug library.
- Display name is editable for non-TCI therapies, see *Modifying the display name for a therapy in a drug library* on page 43. It is not editable for TCI therapies.

2.5 Device configurations

A device configuration defines non-drug related settings that control the mechanical functions of the pump (for example, alarm volume or air-in-line detection).

A device configuration is defined according to the following criteria:

- End-user preferences
- Clinical practices
- Hospital policy

The maximum number of device configurations per pump is 19.

2.6 Profiles

A profile defines the device configuration and drug library used for a group of patients in a given healthcare environment.

A profile must include one device configuration and may include a drug library or a drug list.

A Fresenius Kabi infusion pump can manage up to 20 profiles:

- The "Basic Profile", a factory profile included by default on Fresenius Kabi infusion pumps.
- 19 "custom profiles" that were created and uploaded with Vigilant Master Med.

2.7 Data sets

A data set is a combination of up to 19 profiles that can be uploaded to the Vigilant Centerium server or to a compatible Fresenius Kabi device.

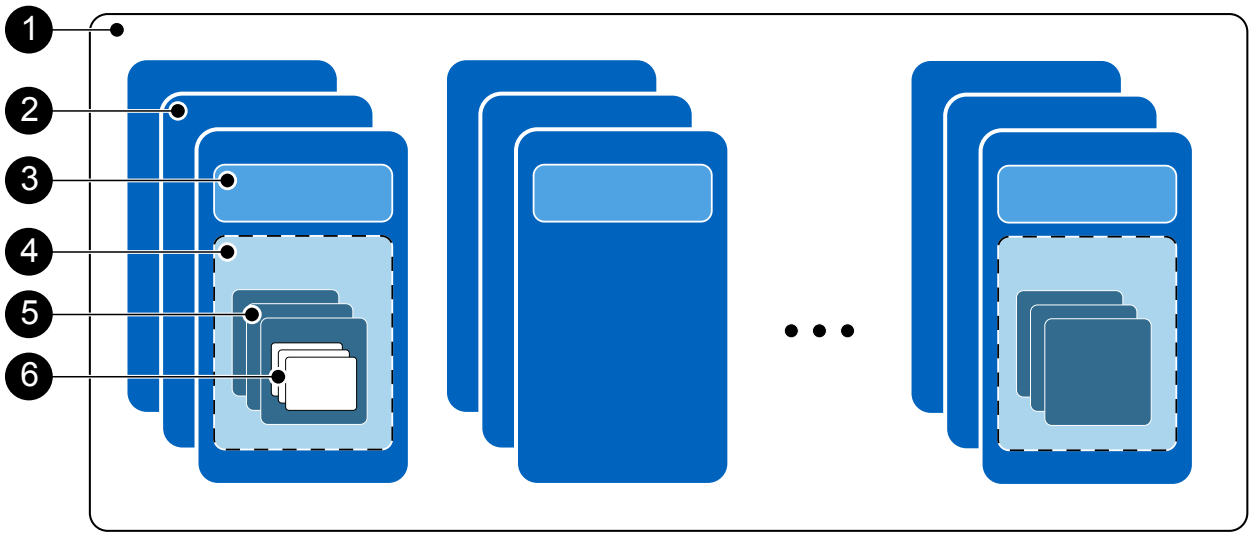


Figure 1: Data set structure

Legend

1	Data set	4	Drug library or drug list (optional)
2	Profile	5	Drug
3	Device configuration	6	Therapy

2.8 Distribution policies

A distribution policy allows the distribution of a released data set to infusion pumps in selected locations. You can create the following types of distribution policy:

Distribution policy type	Description
By Organization	Data set distribution to infusion pumps in all the hospitals and wards in your healthcare organization.
By Hospital	Data set distribution to infusion pumps in a selection of hospitals in your healthcare organization.
By Wards	Data set distribution to infusion pumps in a selection of wards in your healthcare organization.

NOTE: A distribution policy created for a parent location (organization, hospital) is automatically applied (cascade down) to each children location (hospital, ward).

INFORMATION
Data set distribution policies are applied in first-in-first-out (FIFO) order based on time of when the policy was created.

3 System overview

3.1 User roles and authorization

3.1.1 User roles

3.1.1.1 Administrator

A member of the healthcare facility staff who is responsible for software installation, configuration and maintenance.

The Administrator is typically someone from the IT department who has administrative privileges to the computer systems and the network where software application are deployed.

INFORMATION
Administrators are expected to have the following education and computer skills:

- BA/BS in computer science or equivalent experience.
- Extensive knowledge of operating systems and network configurations.

3.1.1.2 Biomedical Engineer

A member of the healthcare facility staff who is responsible for infusion pumps installation and maintenance.

INFORMATION
Biomedical engineers are expected to have the following education and computer skills:

- Biomedical Equipment Technician Certification.
- Basic computer skills. In addition, the Biomedical Engineer may have limited experience accessing the Internet to retrieve medication-related data.

3.1.1.3 Pharmacist

A member of the healthcare facility staff who is responsible for defining a data set applicable to deployed pumps using Vigilant Master Med application software.

INFORMATION
Pharmacists are expected to have the following education and computer skills:

- Pharmaceutical Doctorate, or BS Pharmacy with state licensure.
- Basic computer skills necessary to operate Pharmacy Information System (include order entry and verification), may have limited experience accessing the Internet to retrieve medication-related data.

3.1.2 User authorization

Authenticated users can access features of the system based on the access group they are assigned to.

The default authorizations for each feature are described below.

Access Group	Functions / Actions	Intended Users		
		Pharmacist	Biomedical Engineer	Administrator
MasterDrugLibrary Management	Create drug	✓	×	×
	Modify drug	✓	×	×
	Delete drug	✓	×	×
	Duplicate drug	✓	×	×
	Save drug	✓	×	×
	Create therapy	✓	×	×
	Modify therapy	✓	×	×
	Delete therapy	✓	×	×
	Duplicate therapy	✓	×	×
	Save therapy	✓	×	×
	Generate report	✓	×	×
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	✓	×	×
DrugLibrary Management	Create drug library	✓	×	×
	Modify drug library	✓	×	×
	Delete drug library	✓	×	×
	Duplicate drug library	✓	×	×
	Save drug library	✓	×	×
	Add drug	✓	×	×
	Remove drug	✓	×	×
	Add therapy	✓	×	×
	Remove therapy	✓	×	×
	Generate report	✓	×	×
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	✓	×	×
Profile Management	Create profile	✓	✓	×
	Modify profile	✓	✓	×
	Delete profile	✓	✓	×
	Save profile	✓	✓	×
	Release profile	✓	✓	×
	Generate report	✓	✓	×
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	✓	✓	×
Device Configuration Management	Create device configuration	×	✓	×
	Modify device configuration	×	✓	×
	Delete device configuration	×	✓	×
	Duplicate device configuration	×	✓	×
	Save device configuration	×	✓	×
	Generate report	×	✓	×
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	×	✓	×

Access Group	Functions / Actions	Intended Users		
		Pharmacist	Biomedical Engineer	Administrator
DataSet Distribution Management	Create data set	✓	✓	×
	Modify data set	✓	✓	×
	Delete data set	✓	✓	×
	Delete released data set	✓	✓	×
	Save data set	✓	✓	×
	Pre-release data set	✓	✓	×
	Reject data set	✓	✓	×
	Release data set	✓	✓	×
	Distribute data set to Combox	✓	✓	×
	Distribute data set to pump	✓	✓	×
	Create distribution policy	✓	✓	×
	Monitor distribution policy status	✓	✓	×
	View distribution policies history	✓	✓	×
	Abort distribution policy	✓	✓	×
	Overall data set distribution status	✓	✓	×
	Generate report	✓	✓	×
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	✓	✓	×
ViewOnly AndReports Generation	Generate report	✓	✓	✓
	View and Display Information (Drug, Therapy, Drug Library, Device Configuration, Profile, and Data Set)	✓	✓	✓
ITAdministrators	Install Vigilant Master Med	×	✓	✓
	Uninstall Vigilant Master Med	×	✓	✓
	Upgrade Vigilant Master Med	×	✓	✓
	Install Device Uploader	×	✓	✓
	Configure Vigilant Master Med ■ Authorization ■ Language configuration ■ System configuration	×	✓	✓

Legend

✓	User can perform this action.
×	User cannot perform this action.

3.2 Logging in to Vigilant Master Med

1. Open a web browser and go to the URL configured by the administrator.

NOTE: For more information, contact your administrator.

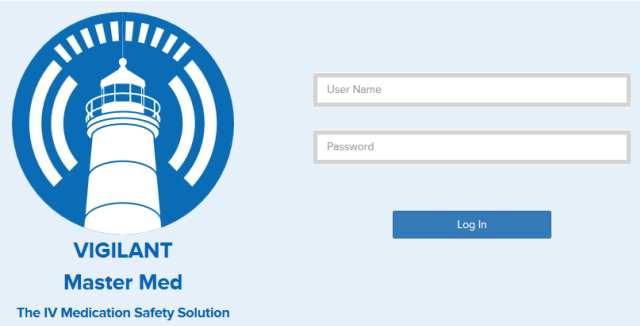


Figure 2: Login screen

2. Enter the user name.
3. Enter the password.
4. Click **Log In**.

INFORMATION
In case of forgotten user name and/or password, contact your IT department.

3.3 Logging out of Vigilant Master Med

1. Click the user name in the upper right corner of the user interface.
2. Click **Log out**.

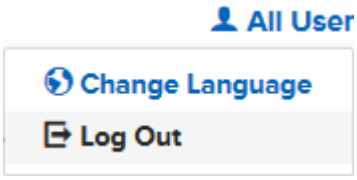


Figure 3: Logout

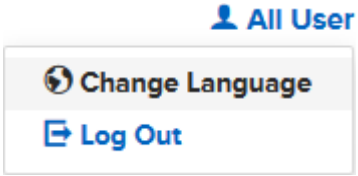
3.4 Session timeout

Session timeout is the feature that automatically logs out the user from the application interface. It is triggered after the user inactivity time on the user interface is greater than the time configured by the system administrator for the application (default time = 15 minutes).

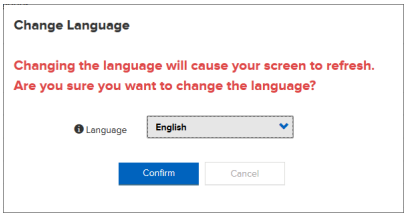
3.5 Changing the language

To change the display language settings for your web browser, complete the following steps:

1. Click the user name in the upper right corner of the user interface.



2. Click **Change language**.
   The language change form is displayed.



3. On the navigation sidebar, click .
   The language change form is displayed.
4. Select a new language from the drop-down menu.
5. Click **Confirm**.

The screen is refreshed. The display language is changed.

3.6 Time format

User interface time format is based on the user local time zone.

4 Software interface

4.1 General description

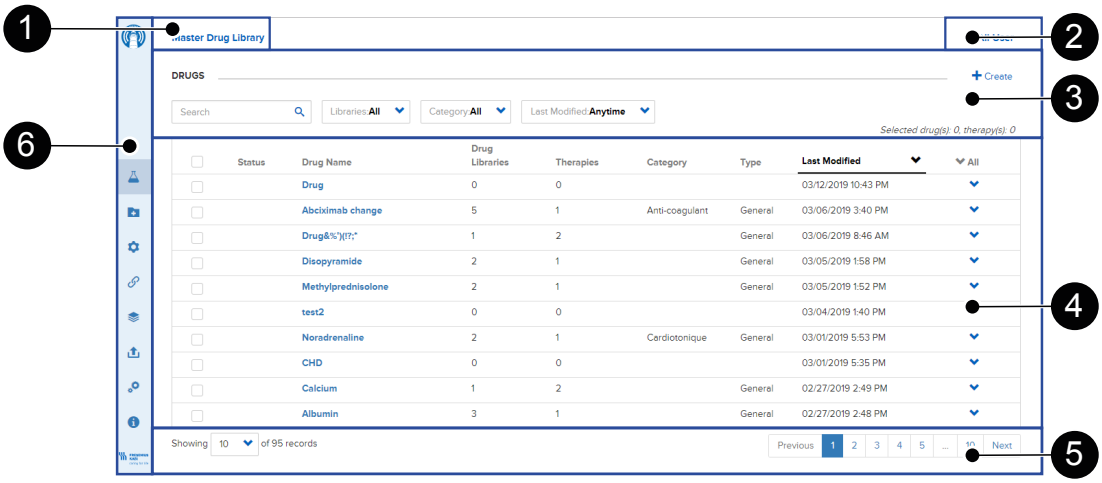


Figure 4: User interface

Legend

1	Screen name (breadcrumbs)	4	Main display
2	User name	5	Pagination
3	Filters and action icons	6	Navigation sidebar

4.2 Navigation sidebar

A sidebar on the left allows you to navigate through Vigilant Master Med.

The following menus are available in the navigation sidebar:

- **Master Drug Library**
- **Drug Libraries**
- **Device Configurations**
- **Profiles**
- **Data Sets**
- **Distribution**
- **System Configuration** (Administrator only)
- **System Information**

By default, the navigation sidebar is collapsed. Move the mouse over the sidebar to expand the menus.

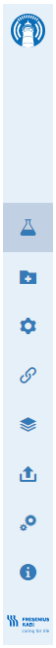


Figure 5: Collapsed view

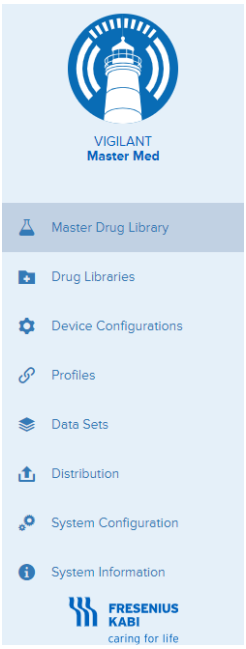


Figure 6: Expanded view

4.3 Icons

4.3.1 Action icons

Icon	Description
	Edit
	Delete
	Approve edit
	Reject edit
	Create / Add more
	Current report
	Report
	Reset all parameters to default
	Pre-release data set
	Approve data set release
	Reject data set release
	Overall distribution status
	Distribution policies
	View distribution policy history
	Abort distribution policy
	Download file for device
	Duplicate
	Send therapy
	Add drug(s) / Add therapy(s) to the drug library
	Change language
	Log out

Icon	Description
ⓘ	Tooltip (help)

4.3.2 Status icons

Icon	Description
✓	The file is validated.
!	The file contains a change that has not been validated or released / There is a mismatch version.
⚠	The file contains at least one error. You can save file changes but you will have to correct invalid fields to be able to validate the profile.
⚠	Validation error You must correct invalid fields to be able to save filde changes.
🔒	The data set is pre-released. The release needs to be approved or rejected.

4.4 Filters

4.4.1 Search box

Use the search box to filter information based on a string of characters.

Click the search box to select it. Type your text and the list of files will instantly be filtered.

Figure 7: Search box

4.4.2 Drop-down buttons

These buttons allow the selection of an option from a list that is displayed when the button is touched.

Click the down arrow on the drop-down button to open up the selection menu. Click the desired selection. The selection entry then displays in the text field of the drop-down button.

Figure 8: Drop-down button

4.4.3 Date filter

Use the date filter to filter information by last modification date as follows:

- by predefined date ranges : e.g. last year, last 6 months, last 30 days
- by a specific date: use the arrows to navigate the calendar and select a day

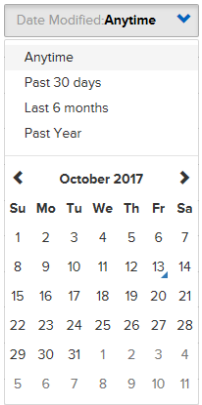


Figure 9: Date filter

4.5 Tooltips

Tooltips provide informative text about each programmable parameter. The following information is displayed:

- Parameter description
- Range values
- Default values
- Applicable device type

Hover over a ⓘ icon to display the associated tooltip.

WARNING
Programmable parameters may not be applicable to all selected destination devices. Use the tooltip to make sure the programmed parameter is applicable to a specific infusion pump.

4.6 Tabs description

4.6.1 Master drug library

Select the **Master Drug Library** tab to create, edit, delete or duplicate drugs and therapies.

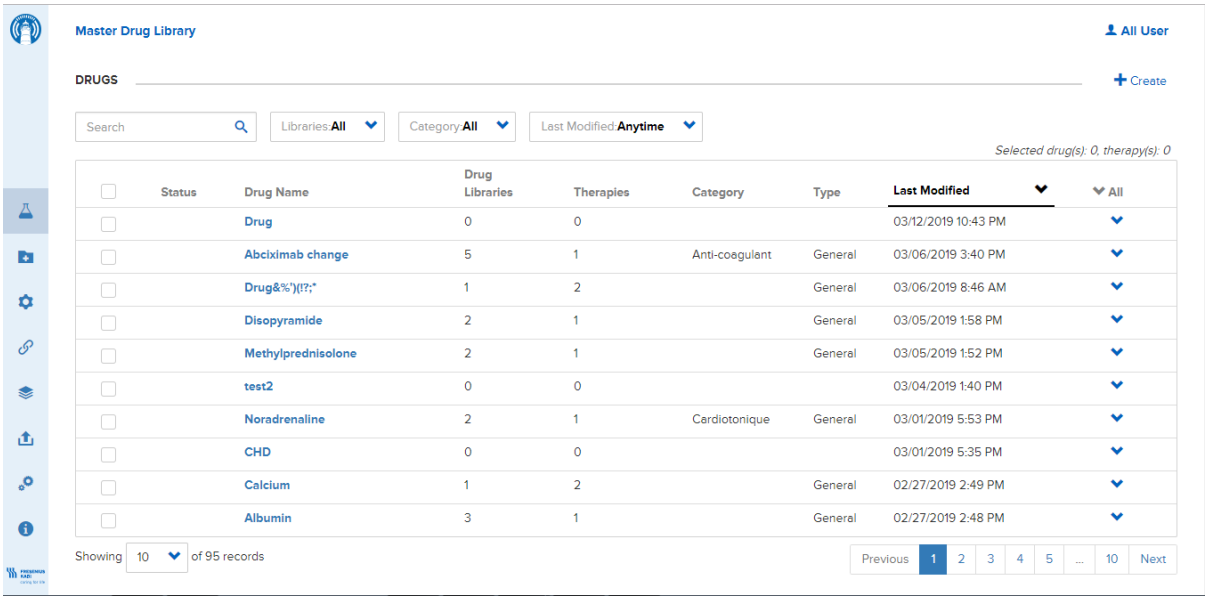


Figure 10: Master drug library tab

4.6.2 Drug libraries

Select the **Drug Libraries** tab to create, edit, delete or duplicate drug libraries.

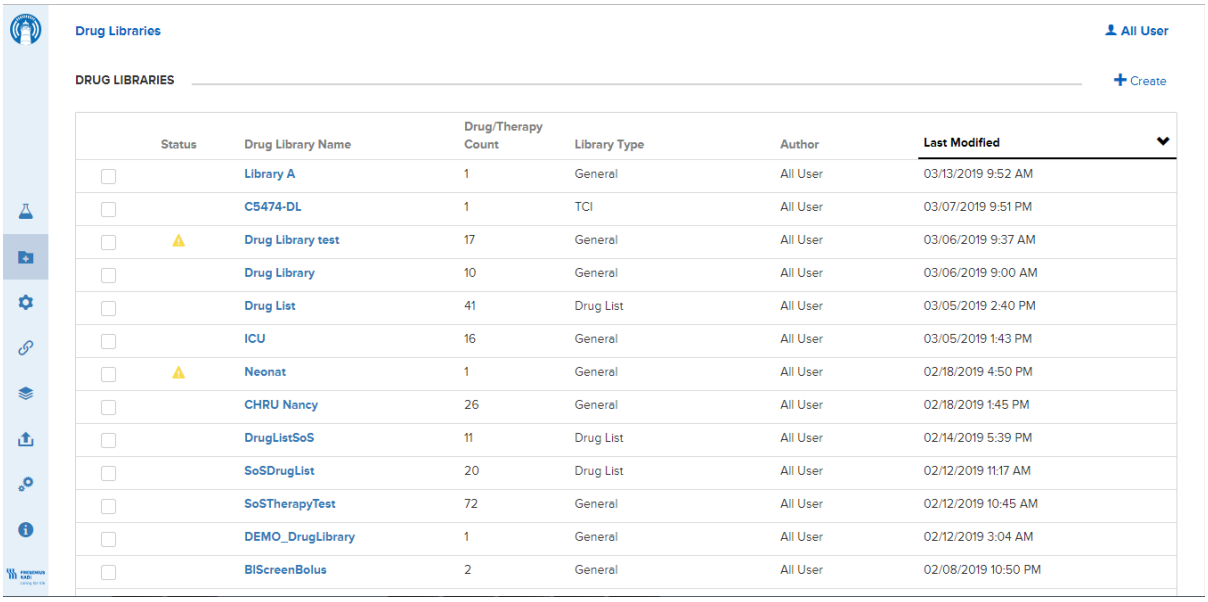


Figure 11: Drug libraries tab

4.6.3 Device configurations

Select the **Device Configurations** tab to create, edit, delete or duplicate device configurations.

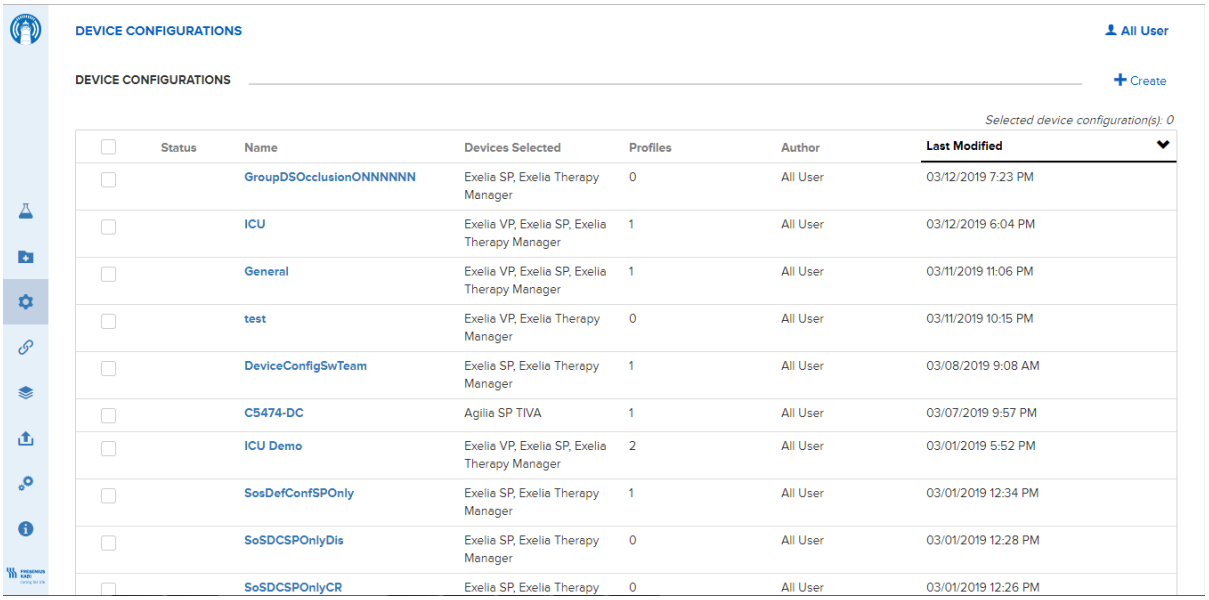


Figure 12: Device configurations tab

4.6.4 Profiles

Select the **Profiles** tab to create, edit, validate or delete profiles.

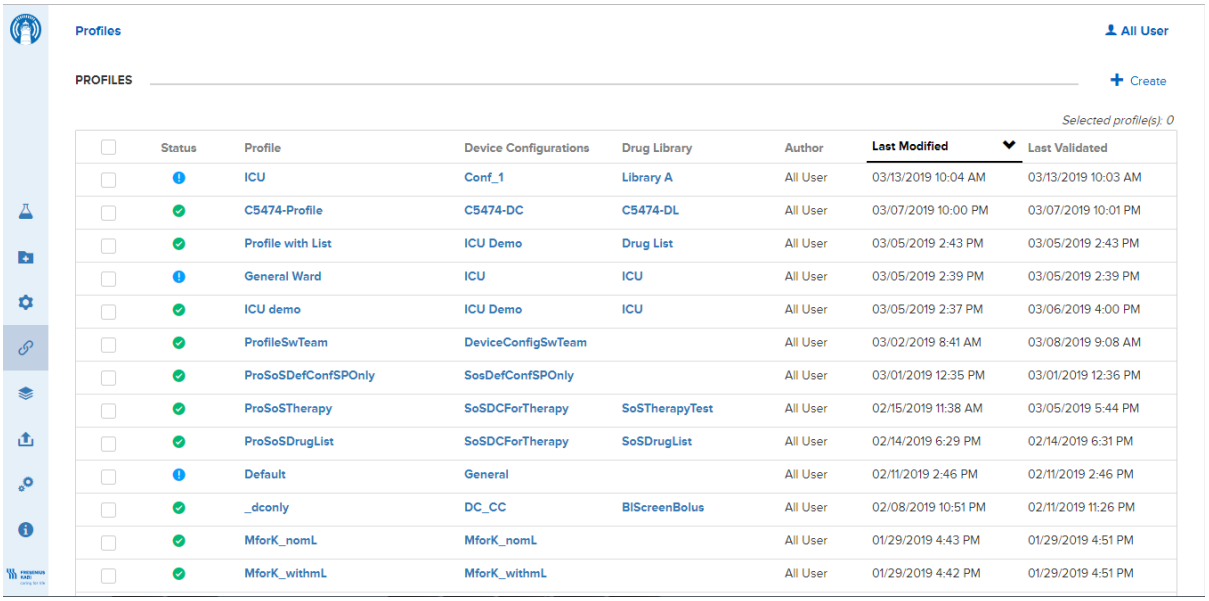
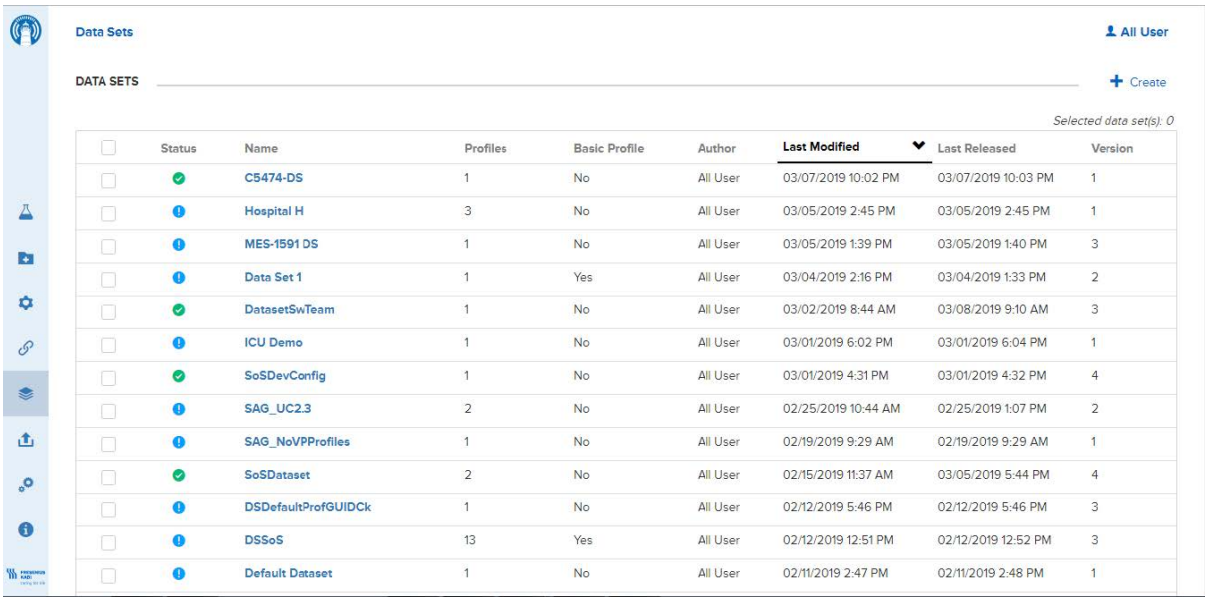


Figure 13: Profiles tab

4.6.5 Data sets

Select the **Data Sets** tab to create, edit, pre-release, release or delete data sets.

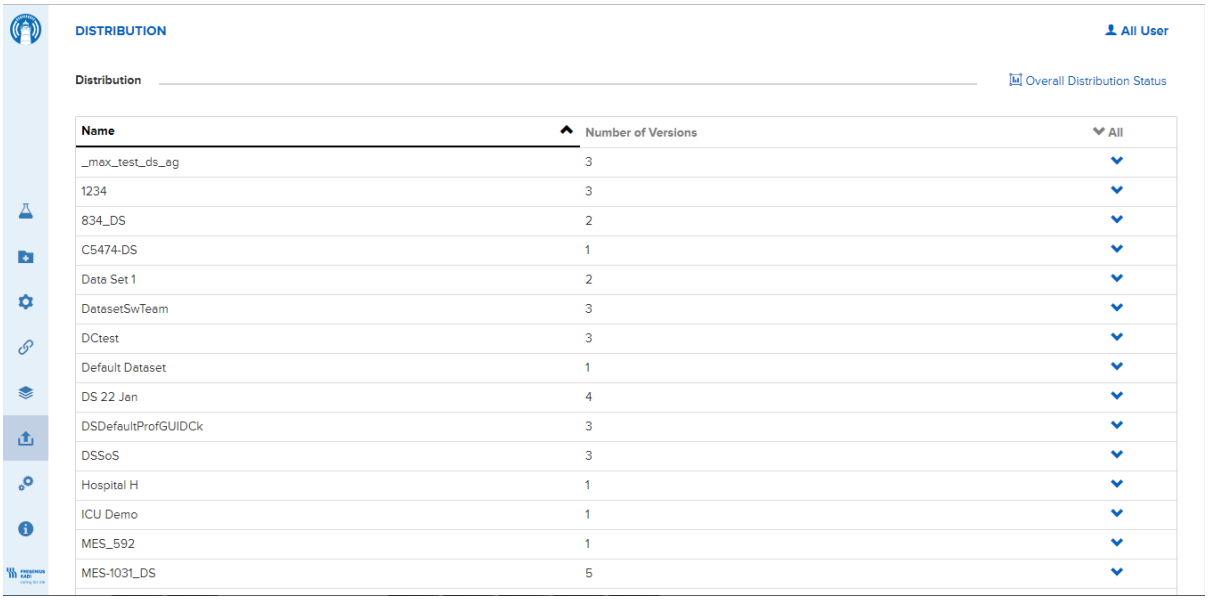


Status	Name	Profiles	Basic Profile	Author	Last Modified	Last Released	Version
	C5474-DS	1	No	All User	03/07/2019 10:02 PM	03/07/2019 10:03 PM	1
	Hospital H	3	No	All User	03/05/2019 2:45 PM	03/05/2019 2:45 PM	1
	MES-1591 DS	1	No	All User	03/05/2019 1:39 PM	03/05/2019 1:40 PM	3
	Data Set 1	1	Yes	All User	03/04/2019 2:16 PM	03/04/2019 1:33 PM	2
	DatasetSwTeam	1	No	All User	03/02/2019 8:44 AM	03/08/2019 9:10 AM	3
	ICU Demo	1	No	All User	03/01/2019 6:02 PM	03/01/2019 6:04 PM	1
	SoSDevConfig	1	No	All User	03/01/2019 4:31 PM	03/01/2019 4:32 PM	4
	SAG_UC2.3	2	No	All User	02/25/2019 10:44 AM	02/25/2019 1:07 PM	2
	SAG_NoVPProfiles	1	No	All User	02/19/2019 9:29 AM	02/19/2019 9:29 AM	1
	SoSDataset	2	No	All User	02/15/2019 11:37 AM	03/05/2019 5:44 PM	4
	DSDefaultProfGUIDCk	1	No	All User	02/12/2019 5:46 PM	02/12/2019 5:46 PM	3
	DSSoS	13	Yes	All User	02/12/2019 12:51 PM	02/12/2019 12:52 PM	3
	Default Dataset	1	No	All User	02/11/2019 2:47 PM	02/11/2019 2:48 PM	1

Figure 14: Data sets tab

4.6.6 Distribution

Select the **Distribution** tab to manage data set distribution policies or upload a data set to a directly connected device.



Name	Number of Versions	All
_max_test_ds_ag	3	
1234	3	
834_DS	2	
C5474-DS	1	
Data Set 1	2	
DatasetSwTeam	3	
DCtest	3	
Default Dataset	1	
DS 22 Jan	4	
DSDefaultProfGUIDCk	3	
DSSoS	3	
Hospital H	1	
ICU Demo	1	
MES_592	1	
MES-1031_DS	5	

Figure 15: Distribution tab

4.6.7 System configuration

Select the **System Configuration** tab to configure Vigilant Master Med.

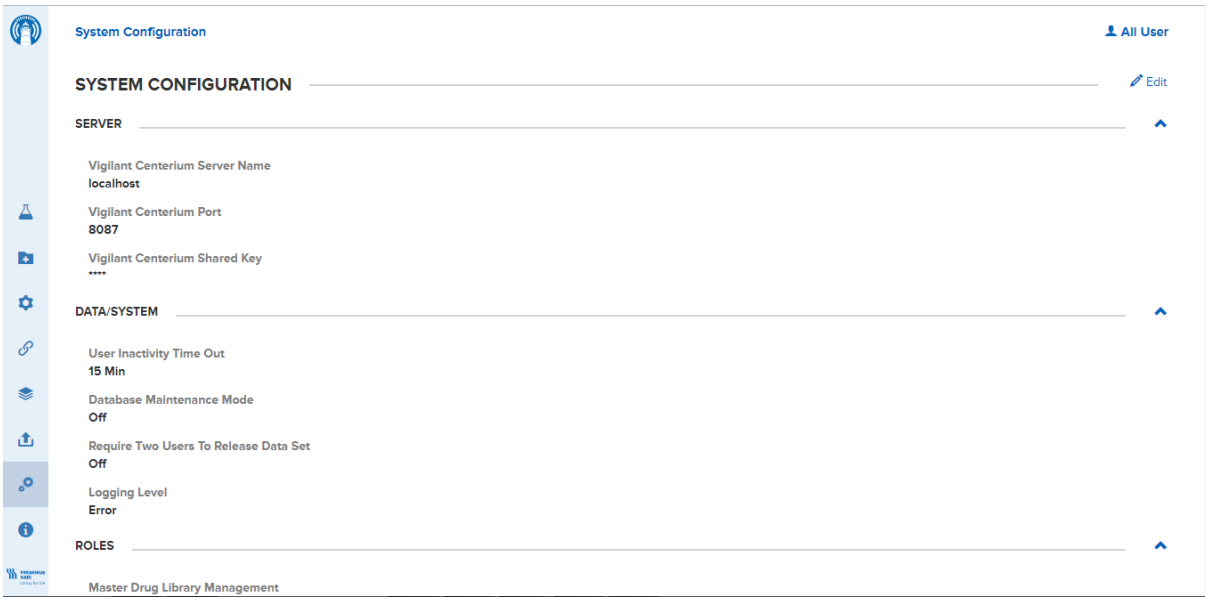


Figure 16: System configuration tab

4.6.8 System information

Select the **System Information** tab to have more information about the software and to access the Instructions for Use.

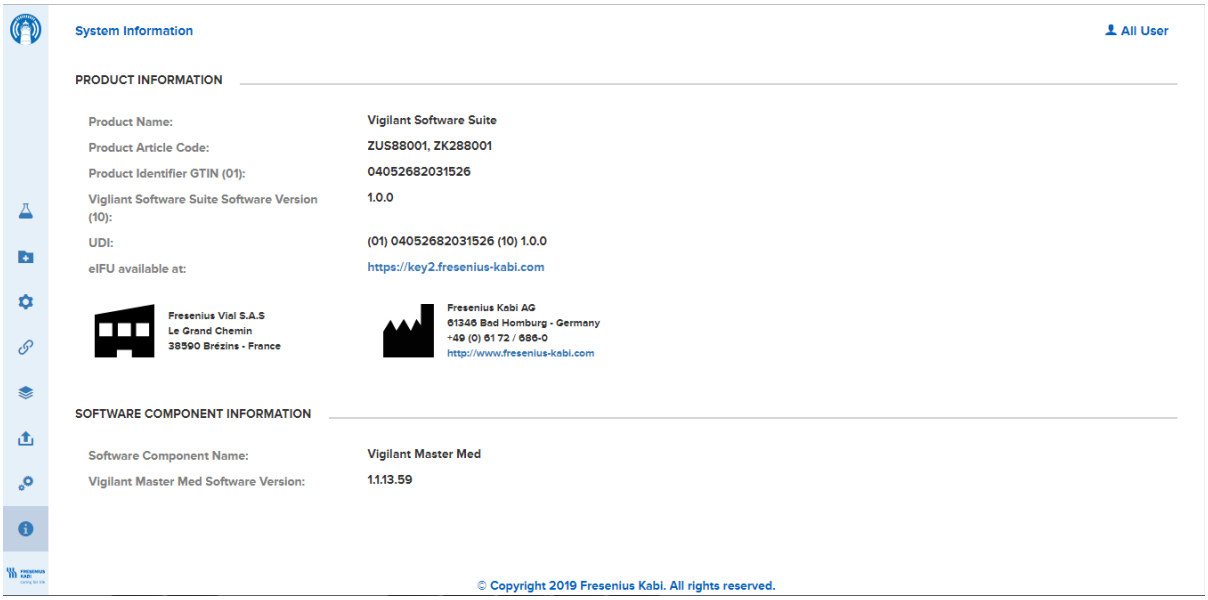


Figure 17: System information tab

5 Operation

5.1 Flowchart

Master Drug Library

Creating and managing drugs (see *Drugs* on page 21).

Creating and managing therapies for the associated drug (see *Therapies* on page 25).

↓

Drug Libraries

Creating and managing drug libraries (see *Drug libraries* on page 40).

↓

Device Configurations

Creating and managing device configurations (see *Device configurations* on page 44).

↓

Profiles

Creating and managing profiles (see *Profiles* on page 52).

↓

Data Sets

Creating and managing data sets (see *Data sets* on page 54).

↓

Distribution

Creating and managing data set distribution policies (see *Distribution* on page 56).

Uploading a data set to a directly connected device (see *Uploading a data set to a directly connected device* on page 60).

5.2 Drugs

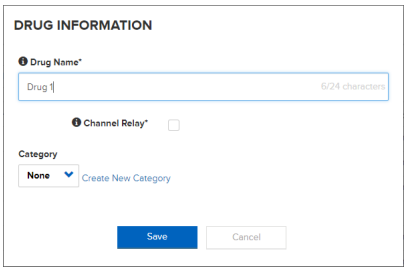
This section explains how to perform the following procedures:

- *Creating a drug* on page 21.
- *Editing a drug* on page 22.
- *Duplicating a drug* on page 22.
- *Deleting a drug* on page 23.
- *Creating a drug category* on page 23.
- *Renaming a drug category* on page 24.
- *Deleting a drug category* on page 25.

INFORMATION
You can perform these procedures from the **Master Drug Library** tab.
If your license allows TIVA devices, four TCI drugs are available by default in the Master Drug Library.

5.2.1 Creating a drug

1. On the navigation sidebar, click **Master Drug Library**.
2. Click **Create**.
   The drug creation form is displayed.



3. Enter a drug name.

WARNING
Use a drug naming convention of a recognized pharmacy best practices such as Tallman letters, drug's generic name (United State Adopted Name or USAN), official name, or trademarked name (if deemed medically necessary).

4. Check the box to allow the drug to be used in a Channel Relay protocol.

   NOTE: When Channel Relay option is checked, the drug can be used in a Channel Relay Protocol (Exelia devices only).

5. In the drop-down menu, select a drug category.

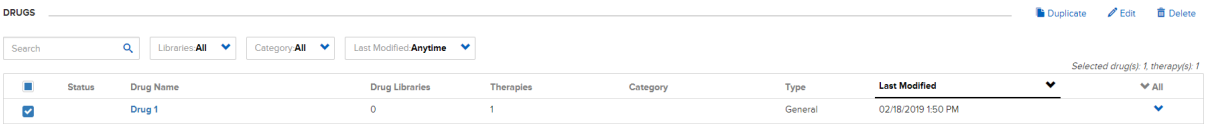
   NOTE: To create a new drug category, see *Creating a drug category* on page 23.

6. Click **Save**.
   The drug is created and added to the master drug library.

INFORMATION
After drug creation, the therapy creation form is displayed. To create a therapy directly after drug creation, see step *4* on the following procedure: *Creating a therapy for general infusion* on page 26.

5.2.2 Editing a drug

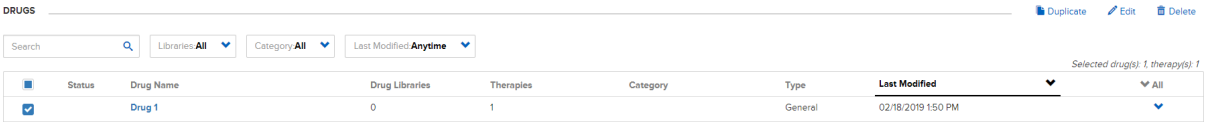
1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of two ways:
   - Check the box next to the drug name and click **Edit**.
   - Click the drug name.



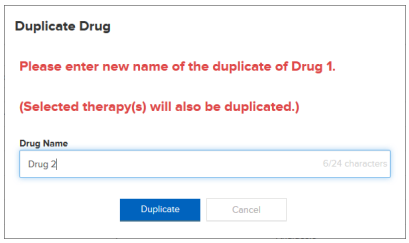
3. Click **Edit**.
4. Edit the drug settings.
5. Click **Save**.
   The settings are saved.

5.2.3 Duplicating a drug

1. On the navigation sidebar, click **Master Drug Library**.
2. Check the box next to the drug to be duplicated.



3. Click **Duplicate**.
4. Enter a new name.

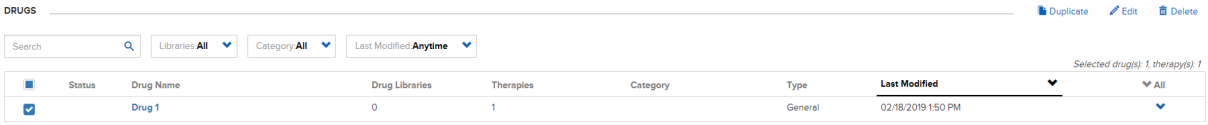


5. Click **Duplicate**.
   A new drug is created. Settings from the original drug are duplicated.

5.2.4 Deleting a drug

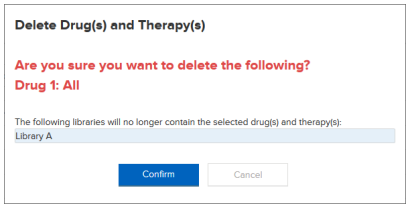
> **WARNING**
> Deleting a drug will delete the drug and all of its associated therapies. To delete a single therapy without deleting the drug, see *Deleting a therapy* on page 40.

1. On the navigation sidebar, click **Master Drug Library**.
2. Check the box next to the drug to be deleted.



NOTE: It is possible to delete several drugs simultaneously.

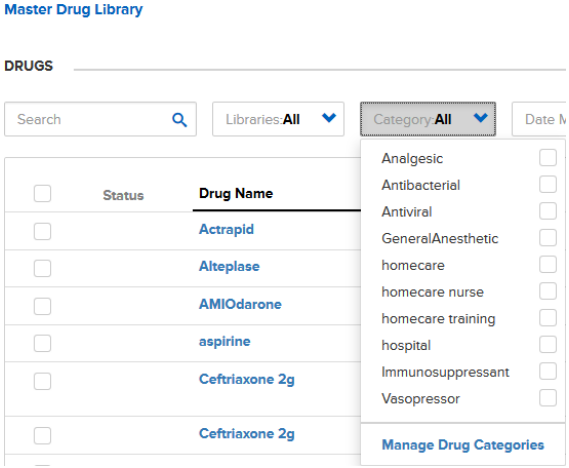
3. Click **Delete**.
   A confirmation message is displayed.



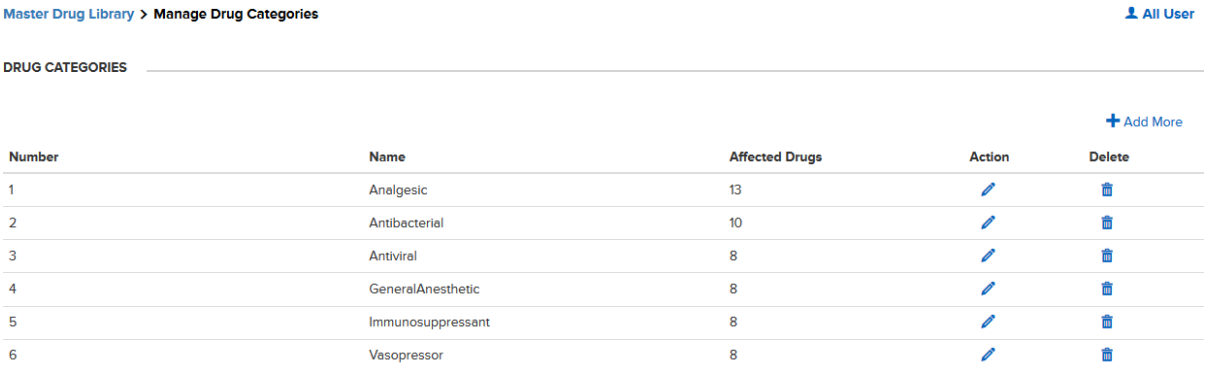
4. Click **Confirm**.
   The drug and its associated therapies are deleted. The drug is no longer contained by any drug library.

5.2.5 Creating a drug category

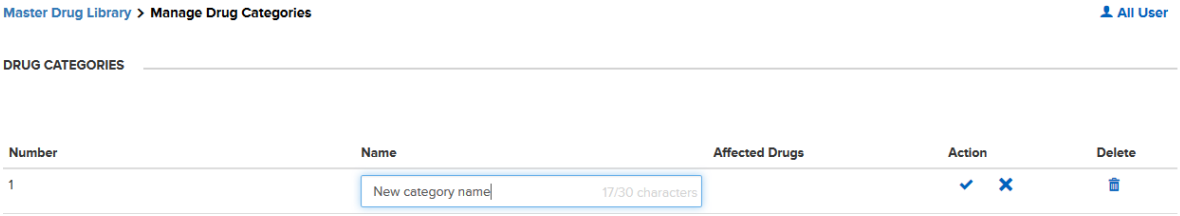
1. On the navigation sidebar, click **Master Drug Library**.
2. Select the drug category filter.



3. Click **Manage Drug Categories**.
   The Manage Drug Categories screen is displayed.



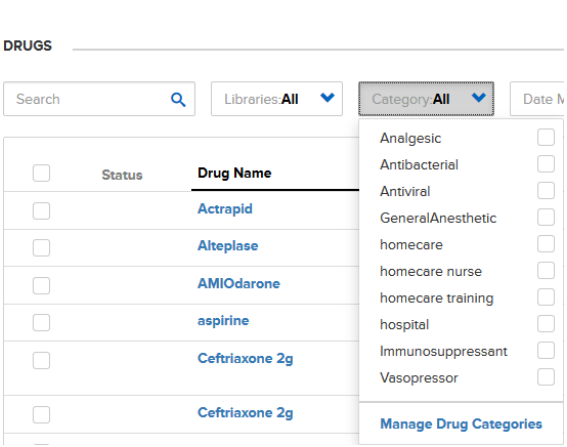
4. Click **+ Add More**.
5. Enter a drug category name.



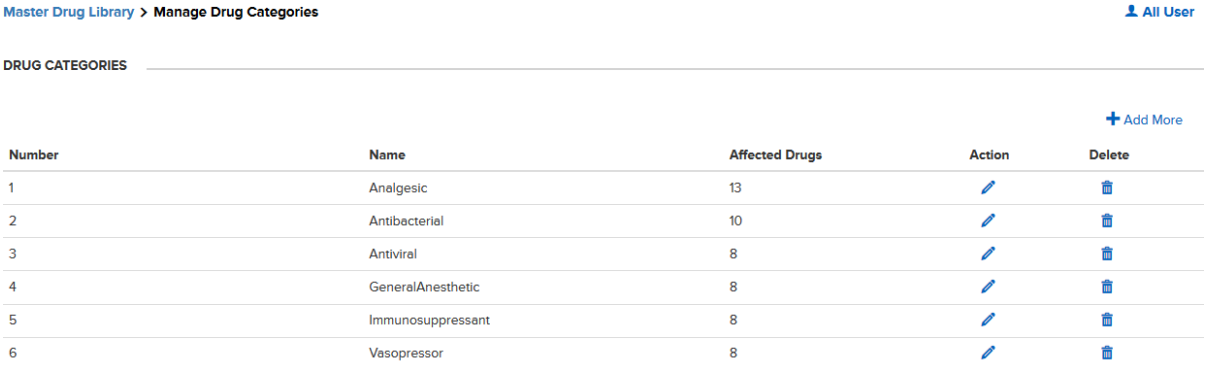
6. Click ✔ .
   The drug category is created.

5.2.6 Renaming a drug category

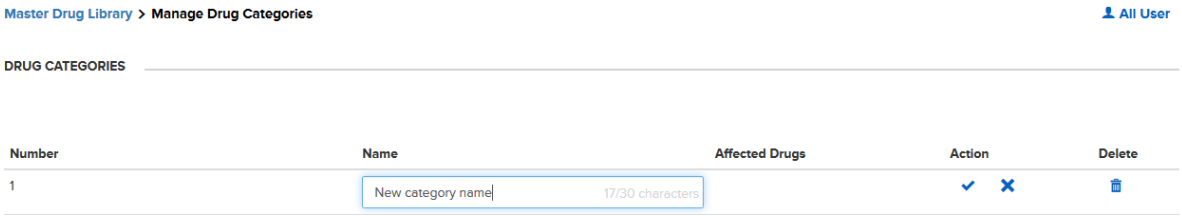
1. On the navigation sidebar, click **Master Drug Library**.
2. Select the drug category filter.



3. Click **Manage Drug Categories**.
   The Manage Drug Categories screen is displayed.



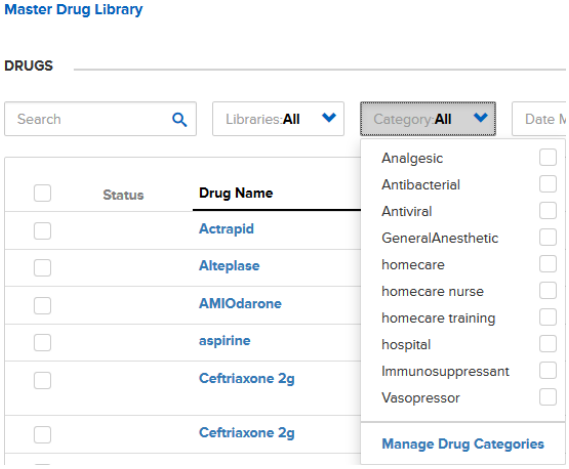
4. Click the ✎ symbol corresponding to the drug category to be renamed.
5. Rename the drug category.



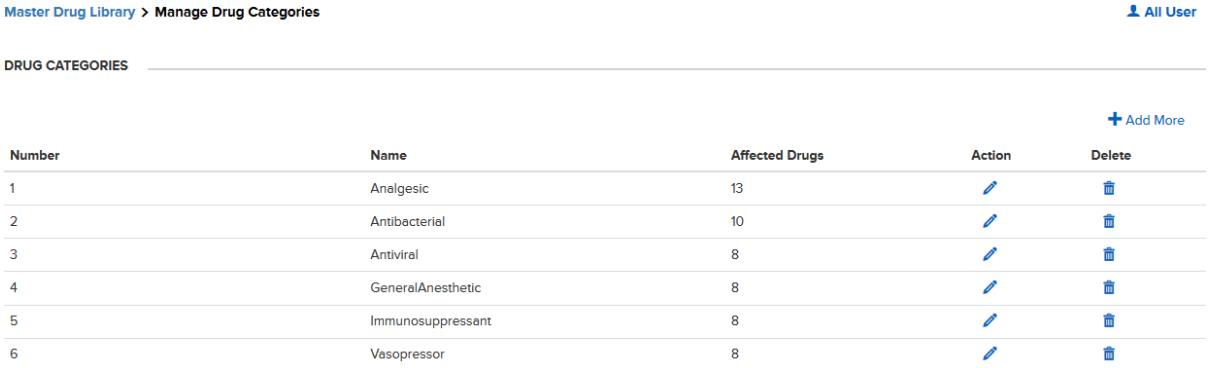
6. Click ✔ .
   The drug category is renamed.

5.2.7 Deleting a drug category

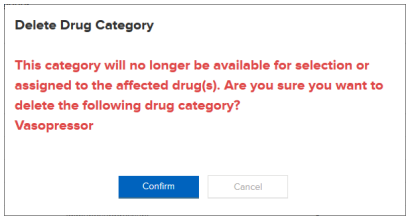
1. On the navigation sidebar, click **Master Drug Library**.
2. Select the drug category filter.



3. Click **Manage Drug Categories**.
   The Manage Drug Categories screen is displayed.



4. Click the 🗑 symbol corresponding to the drug category to be deleted.
   A confirmation message is displayed.



5. Click **Confirm**.
   The drug category is deleted.

5.3 Therapies

This section explains how to perform the following procedures:

- *Creating a therapy for general infusion* on page 26.
- *Create a therapy for PCA infusion* on page 31
- *Creating a TCI therapy* on page 34.
- *Editing a therapy* on page 38.
- *Duplicating a therapy* on page 39.

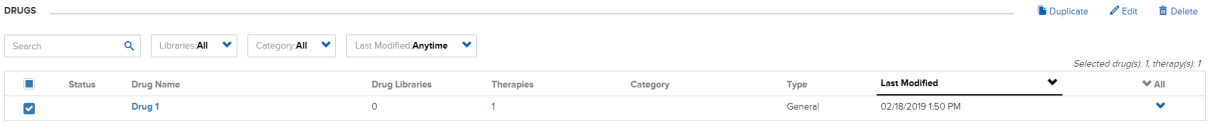
- *Duplicating a therapy and sending it to another drug* on page 39.
- *Deleting a therapy* on page 40.

INFORMATION

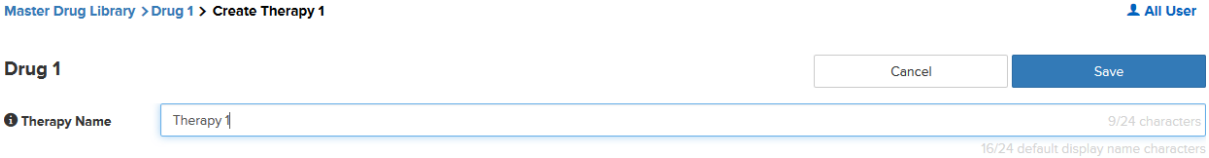
- You can perform these procedures from the **Master Drug Library** tab.
- For more information on therapies, see *Drugs and therapies* on page 6.

5.3.1 Creating a therapy for general infusion

1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of two ways:
   - Check the box next to the drug name and click **Edit**.
   - Click the drug name.



3. Click **Create Therapy**.
4. Enter a therapy name.



NOTE: A therapy name must be unique within a drug.

5. In the device list, select one or more destination device.
6. Enter therapy infusion mode settings as "General infusion".

INFORMATION

- For non-TCI therapies, this setting is only available when the only selected destination device is a PCA device. To create a PCA therapy see *Create a therapy for PCA infusion* on page 31.

Setting	Description
Mode	Select the type of infusion mode. PCA infusion refers to a Patient Controlled Analgesia infusion. When PCA infusion is selected, the specific PCA parameters will be displayed below. When General infusion is selected, the General parameters will be displayed below.

7. Enter dilution / concentration settings.

Setting	Description
Dose Unit	This is the unit that will be used to enter concentration values.
Type	When 'Fixed' is selected, the drug will be configured with up to 20 fixed concentrations (Concentration 1, 2, ... 20). When 'Range' is selected, the drug will be configured with minimum, default and maximum values.
Dilution	**Fixed** Fixed drug dilution will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set dilution cannot be modified by the user. **Range** Minimum, default and maximum dilution values configured when 'Type' is set to 'Range'.

Setting	Description
Concentration	**Fixed** Fixed drug concentration will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set concentration cannot be modified by the user. If a dilution was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value. **Range** Minimum, default and maximum concentration values configured when 'Type' is set to 'Range'. If a dilution range was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value.

8. Enter clinical messages.

Setting	Description
Clinical Advisory	This advisory will be displayed in the pump screen after the drug name is selected.
Clinical Reminder	Message that will appear on Pump screen with a frequency defined by the Clinical Reminder Duration interval. This message is intended to help the caregiver of infusion monitoring and/or check-ups to perform.
Clinical Reminder Frequency	Interval of time between two Clinical Reminders

9. Enter VP infusion modes settings.

INFORMATION

- You must enable at least one of the following infusion modes: Volume/Time, Volume/Rate, Time/Rate, Volume/Time/Rate.
- Before selecting a default infusion mode, make sure the infusion mode is enabled.

Setting	Description
Primary/Secondary Mode	When 'Primary Mode' is selected, the drug will be configurable in flow rate or dose rate. When 'Secondary Mode' is selected, the drug will be in configurable in flow rate only. When 'Both' is selected, the drug will be configurable in flow rate only.
Allow Infuse with Secondary Drug	If checked, a primary drug infused in mL/h can be associated with a secondary drug. The user will be able to start a secondary infusion in mL/h by pressing the 'Pri/Sec' key on the pump. If unchecked, the 'Pri/Sec' key will not be functional for that drug.
Volume/Time	When enabled, Volume/Time option becomes a selectable infusion mode.
Volume/Rate	When enabled, Volume/Rate option becomes a selectable infusion mode.
Time/Rate	When enabled, Time/Rate option becomes a selectable infusion mode.
Volume/Time/Rate	When enabled, Volume/Time/Rate option becomes a selectable infusion mode.
Ramp Mode	Infusion defined by a total volume, a total infusion time, a ramp-up and ramp-down time and a plateau flow rate. This mode allows the flow rate to be increased gradually by intermediate stages in order to reach the plateau flow rate.
Sequential Infusion Mode	When enabled, Sequence option becomes a selectable infusion mode.
VP Default Infusion Mode	Selects the default Infusion Mode
Enable VP Priming	When enabled, the pump allows you to use the bolus key to prime the IV line before starting an infusion.

10. Enter continuous settings.

Setting	Description
Flow Rate Unit / Dose Rate Unit	This is the unit that will be used to enter Flow rate values. A message will be displayed on the pump for values outside the range. / This is the unit that will be used to enter Dose rate values.

Setting	Description
Dose Rate Decimals Management	This is the precision of dose rate values entered at the pump. For values between 10 and 100, one decimal point is allowed. When set to 2 digits, for values less than 10, 2 decimal points are allowed. When set to 3 digits, for values less than 5, 3 decimal points are allowed. For values between 5 and 10, 2 decimal points are allowed.
Force Flow Rate Programming	When enabled, the pump(s) will allow the user to enter the value in flow rate.

11. Enter dose or volume over time settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Dose Duration	Sets duration of time for Dose based infusions.
KVO	Enables the Keep Vein Open rate for the designated drug. If disabled, the KVO will not be allowed for this therapy on the device, independently of the Device Configuration settings.
KVO Flow Rate	Sets the Keep Vein Open rate for the designated drug. If the drug is infusing at a rate below this value, the rate will not change. If the infusion rate is greater than this value, the rate will be lowered to the value entered here.

12. Enter Volume To Be Infused (VTBI) settings.

Setting	Description
Volume	This is the Volume to Be Infused (VTBI) that will be displayed on the pump screen when selecting the drug.
Agilia KVO	When enabled, the Keep Vein Open feature is activated and mandatory for the designated drug. If disabled, the KVO will not be allowed for this therapy on the device, independently of the Device Configuration settings.
Agilia KVO Flow Rate	Sets the Keep Vein Open rate for the designated drug. If the drug is infusing at a rate below this value, the rate will not change. If the infusion rate is greater than this value, the rate will be lowered to the value entered here.
Exelia KVO	When enabled, the Keep Vein Open feature is activated by default for the designated drug (the feature can still be deactivated on the device).
Exelia KVO Flow Rate	Sets the Keep Vein Open rate for the designated drug. If the drug is infusing at a rate below this value, the rate will not change. If the infusion rate is greater than this value, the rate will be lowered to the value entered here.

13. Enter loading dose settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Duration	Loading Dose infusion time. Characterized by Minimum, Default, and Maximum.

14. Enter accuracy settings

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Exelia Flow Rate Decimals Management	This is the precision of flow rate values entered at the pump. When set to 1 digit, 1 decimal point is allowed. When set to 2 digits, 2 decimal points are allowed.

Setting	Description
Exelia Dose Rate Decimals Management	This is the precision of dose rate values entered at the pump. When set to 2 digits, 2 decimal points are allowed. When set to 3 digits, 3 decimal points are allowed.

15. Enter programmed bolus settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Duration	Programmed Bolus infusion time. Characterized by Minimum, Default, and Maximum.

16. Enter direct bolus settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Flow Rate	This is the pre-set rate that will be displayed on the pump screen when pressing the direct bolus key. For Agilia, the entered value will be a fixed value on the device(s). For Exelia, the entered value will be the Default Flow Rate value on the device(s). It cannot be exceeded.
Max Volume	This is the maximum volume that can be infused each time a user presses and holds the direct bolus key. A message will be displayed on the pump screen if this threshold is reached.

17. Enter ramp settings.

INFORMATION
These settings are only available when Ramp mode is selected in step *9*.

Setting	Description
Total Volume To Be Infused (VTBI)	Total Volume To Be Infused (VTBI) during a Ramp Infusion. The combined volume of 'Ramp Up', Plateau, and 'Ramp Down'.
Ramp Up Duration	The amount of time to reach 'Plateau Flow Rate' from the start of an infusion.
Plateau Flow Rate	The peak flow rate of the Ramp mode
Ramp Down Duration	The amount of time to complete an infusion from 'Plateau Flow Rate'.
Total Duration	This is the calculated total duration for the ramp mode, includes ramp up, ramp down and plateau durations.

18. Enter sequential infusion mode settings.

INFORMATION
These settings are only available when Sequential mode is selected in step *9*.

Setting	Description
Sequence {0} Type	Choose the type of sequence: - Volume/Rate: to parameter an infusion - Pause: to parameter a pause - KVO: to maintain the Vein Open at the end of the sequence
Volume/Rate	
VTBI	This is the Volume to Be Infused (VTBI) that will be displayed on the pump screen when selecting the drug.
Flow Rate Unit	The unit 'mL' will be the volume unit used for this sequence.
Rate	Flow rate
Rate Duration	The amount of time needed to complete an infusion at the specified flow rate.
Beep?	When enabled, an alert will be heard at the completion the task.

Setting	Description
Pause	
Pause Duration	The amount of time to pause from infusion.
Beep?	When enabled, an alert will be heard at the completion the task.
KVO	
KVO Duration	Specifies KVO duration.
Beep?	When enabled, an alert will be heard at the completion the task.
Repeat	
Number of Repetitions	Specifies the number of times the full sequence is to be repeated. Used with Sequence Type Repeat.

INFORMATION

- A sequential infusion must be terminated with the following sequence type: End.
- The calculated total sequence volume and duration of all sequence steps is displayed under the programmed settings.

19. Enter air-in-line settings.

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Total Air Volume over 15 minutes	Above this volume of air, the 'air-in-line' alarm is triggered.
Bubble Filter	This is the minimum bubble size taken into account in Total Air Volume over a 15-minute measurement.

20. Enter pressure management settings.

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Pressure Mode	In variable mode, you can adjust the pressure limit during an infusion by 25 mmHg increments from 50 to 250 mmHg, then by 50 mmHg increments from 250 mmHg up to the maximum allowable limit. In 3-level mode, you can adjust the pressure limit during an infusion to the low, medium or high pre-set pressure limit. In automatic mode, the pressure levels are managed by the pump. (Note: This function is available only for Exelia pumps)
3 Levels	Defines the values of the three pre-set levels in the 3-level mode (a difference of 100 mmHg is mandatory between 2 values).
Variable	When variable pressure mode is selected, this value defines the default and maximum pressure limit. (Note: Maximum pressure limit is available only for Agilia pumps).

21. Enter therapy near end alert settings.

Setting	Description
Near End of Infusion Alert	When 'Use the Settings in Device Configuration' is selected, the Near End of Infusion Alert settings configured in Device Configuration will be applied to this designated Therapy. When 'Disable Near End of Infusion Alerts' is selected, Near End of Infusion Alert feature will be disabled for this designated Therapy, no matter what settings are configured in Device Configuration.

22. Enter Exelia VP secondary mode settings.

Setting	Description
Allow Infuse with Secondary Drug	If checked, a primary drug infused in mL/h can be associated with a secondary drug. The user will be able to start a secondary infusion in mL/h by pressing the 'Pri/Sec' key on the pump. If unchecked, the 'Pri/Sec' key will not be functional for that drug.

23. Enter drop sensor settings.

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

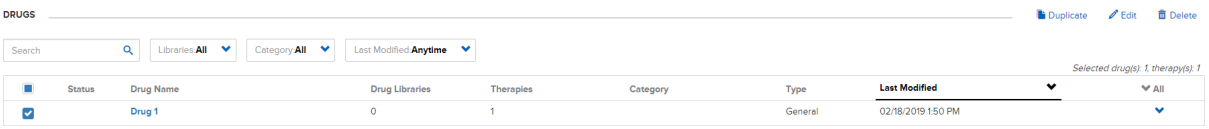
WARNING
Drop Sensor settings are not available for the North America customers.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Drop Sensor Mandatory	Check the box to force the use of a drop sensor.
Drop Volume	Enter the volume of a drop of a drug

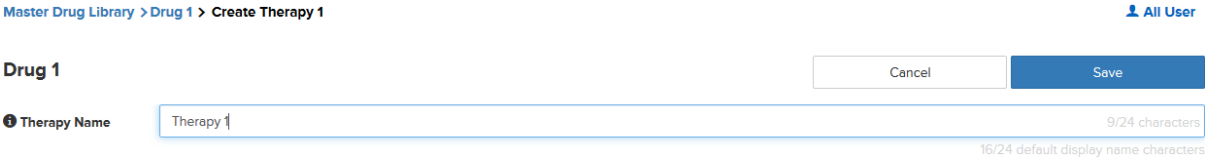
24. Click **Save**.
The therapy is created.

5.3.2 Create a therapy for PCA infusion

1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of two ways:
- Check the box next to the drug name and click **Edit**.
- Click the drug name.



3. Click **Create Therapy**.
4. Enter a therapy name.



NOTE: A therapy name must be unique within a drug.

5. In the device list, only select a PCA device.
6. Enter therapy infusion mode settings as "PCA infusion".

Setting	Description
Mode	Select the type of infusion mode. PCA infusion refers to a Patient Controlled Analgesia infusion. When PCA infusion is selected, the specific PCA parameters will be displayed below. When General infusion is selected, the General parameters will be displayed below.

7. Enter dilution / concentration settings.

Setting	Description
Dose Unit	This is the unit that will be used to enter concentration values.
Type	When 'Fixed' is selected, the drug will be configured with up to 20 fixed concentrations (Concentration 1, 2, ... 20). When 'Range' is selected, the drug will be configured with minimum, default and maximum values.
Dilution	**Fixed** Fixed drug dilution will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set dilution cannot be modified by the user. **Range** Minimum, default and maximum dilution values configured when 'Type' is set to 'Range'.
Concentration	**Fixed** Fixed drug concentration will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set concentration cannot be modified by the user. If a dilution was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value. **Range** Minimum, default and maximum concentration values configured when 'Type' is set to 'Range'. If a dilution range was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value.

8. Enter clinical messages.

Setting	Description
Clinical Advisory	This advisory will be displayed in the pump screen after the drug name is selected.
Clinical Reminder	Message that will appear on Pump screen with a frequency defined by the Clinical Reminder Duration interval. This message is intended to help the caregiver of infusion monitoring and/or check-ups to perform.
Clinical Reminder Frequency	Interval of time between two Clinical Reminders

9. Enter continuous settings.

Setting	Description
Flow Rate Unit / Dose Rate Unit	This is the unit that will be used to enter Flow rate values. A message will be displayed on the pump for values outside the range. / This is the unit that will be used to enter Dose rate values.
Dose Rate Decimals Management	This is the precision of dose rate values entered at the pump. For values between 10 and 100, one decimal point is allowed. When set to 2 digits, for values less than 10, 2 decimal points are allowed. When set to 3 digits, for values less than 5, 3 decimal points are allowed. For values between 5 and 10, 2 decimal points are allowed.

10. Enter PCA delivery modes settings.

Setting	Description
PCA Bolus Only	PCA Bolus only' is an infusion mode which allow to infuse a drug through boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus Only' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
PCA Bolus + Continuous	PCA Bolus + Continuous' is an infusion mode which allows to infuse a drug through a continuous background infusion in addition to boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus + Continuous infusion' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
PCA Bolus + Variable Rates	PCA Bolus + variable rates' is an infusion mode which allows to infuse a drug through a background infusion which may have a variable rate and additional boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus + Variable rates' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
Continuous Only	Continuous Only' is an infusion mode which allows to infuse a drug through a continuous infusion only. Activate the 'Continuous only' infusion mode by checking the box. This infusion mode will then become available on the pump for this particular drug.
Default Mode	Select the infusion mode which will be selected by default when selecting this drug for an infusion in PCA delivery mode.
Clinician Bolus	Allow the infusion of a clinician bolus by checking the box.
PCA Loading Dose	Activate the use of a loading dose by checking the box.

11. Enter PCA bolus settings.

Setting	Description
Volume Unit / Dose Unit	Select the unit which will be displayed on the pump to configure the infusion of the boluses in PCA modes. / This is the Dose unit that will be used to the PCA bolus for this particular drug. A message will be displayed on the pump for values outside the range.
PCA Bolus Flow Rate	Define the flow rate which will apply to the infusion of the PCA boluses.
PCA Bolus Lockout Time	Define the minimum, default and maximum duration of the Lockout Period in between 2 PCA boluses.

12. Enter variable rate settings.

Setting	Description
Flow Rate Unit / Dose Rate Unit	This is the Volume unit that will be used to the Variable Rates mode for this particular drug. A message will be displayed on the pump for values outside the range. / This is the Dose unit that will be used to the Variable Rates mode for this particular drug. A message will be displayed on the pump for values outside the range.
Phase 1 Rate	Set the rate and the start time of the first phase.
Phase 2 Rate	Set the rate and the start time of the second phase.
Phase 3 Rate	Set the rate and the start time of the third phase (optional).

13. Enter clinician bolus settings.

Setting	Description
Volume Unit / Dose Unit	This is the Volume unit that will be used to the Clinician Boluses for this particular drug. A message will be displayed on the pump for values outside the range. / This is the Dose unit that will be used to the Clinician Boluses for this particular drug. A message will be displayed on the pump for values outside the range.
PCA Bolus Flow Rate	Define the flow rate which will apply to the infusion of the Clinician boluses.

14. Enter loading dose settings.

Setting	Description
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Duration	Enter the hard minimum, default, and hard maximum of the Duration.

15. Enter cumulated limits settings.

Setting	Description
Duration	Select the time period for assessing the cumulated limits by checking one of the boxes.
Maximum Cumulated Volume per {0}	Limit the maximum PCA bolus.
Maximum Number of PCA Bolus per {0}	Manage and Limit the Maximum Number of PCA Bolus over the selected period of time. Activate this limit by checking the box.

16. Enter pressure management settings.

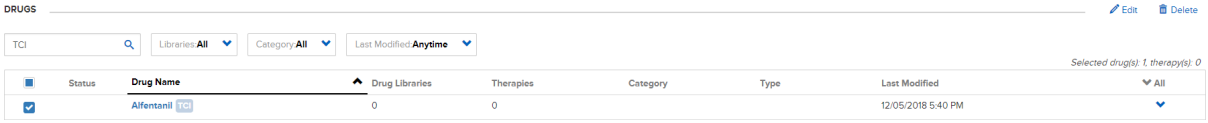
WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Pressure Mode	In variable mode, you can adjust the pressure limit during an infusion by 25 mmHg increments from 50 to 250 mmHg, then by 50 mmHg increments from 250 mmHg up to the maximum allowable limit. In 3-level mode, you can adjust the pressure limit during an infusion to the low, medium or high pre-set pressure limit. In automatic mode, the pressure levels are managed by the pump. (Note: This function is available only for Exelia pumps)
3 Levels	Defines the values of the three pre-set levels in the 3-level mode (a difference of 100 mmHg is mandatory between 2 values).
Variable	When variable pressure mode is selected, this value defines the default and maximum pressure limit. (Note: Maximum pressure limit is available only for Agilia pumps).

5.3.3 Creating a TCI therapy

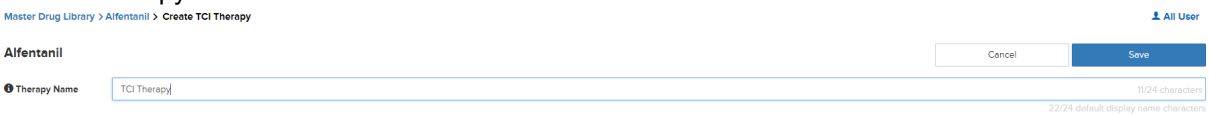
WARNING
- A TCI therapy can only be created under TCI drugs.
- This feature is not available for the North America customers.

1. On the navigation sidebar, click **Master Drug Library**.
2. Select a TCI drug from the list in one of two ways:
- Check the box next to the drug name with "TCI" indicator and click **Edit**.
- Click the drug name with "TCI" indicator.



NOTE: You can type the letters "TCI" in the search box to only display TCI drugs.

3. Click **Create Therapy**.
4. Enter a therapy name.



NOTE: A therapy name must be unique within a drug.

5. In the device list, select one or more destination device that support TCI.
6. Enter therapy infusion mode settings as "TCI".

INFORMATION
To create a therapy for general infusion see *Creating a therapy for general infusion* on page 26.

Setting	Description
Mode	Select the type of infusion mode. TCI refers to a Target Controlled Infusion. When TCI is selected, the specific TCI parameters will be displayed below. When General infusion is selected, the General parameters will be displayed below.

7. Enter TCI model settings.

INFORMATION
The list of available TCI models depends on the selected pumps and the selected drug.

Setting	Description
TCI Model	This is the TCI model that will be used for this drug. Select one pharmacokinetic model among those available for this drug.
Plasma	Select the type of TCI model. When Plasma type is selected, the specific Plasma concentration parameter will display below.
Effect	Select the type of TCI model. When Effect type is selected, the specific Effect concentration parameter will display below.

8. Enter TCI view settings.

Setting	Description
TCI View	If this is enabled, user is allowed to program the pump in a generic way (using Dose Rates, Loading Dose, Boluses etc), while using the model to compute the estimated concentrations (Plasma and Effect) to provide user with feedback.

9. Enter dilutions / concentrations settings.

Setting	Description
Dose Unit	This is the unit that will be used to enter concentration values.
Type	When 'Fixed' is selected, the drug will be configured with up to 20 fixed concentrations (Concentration 1, 2, ... 20). When 'Range' is selected, the drug will be configured with minimum, default and maximum values.
Dilution	**Fixed** Fixed drug dilution will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set dilution cannot be modified by the user. **Range** Minimum, default and maximum dilution values configured when 'Type' is set to 'Range'.
Concentration	**Fixed** Fixed drug concentration will be displayed on the pump screen when the user selects the drug and acknowledges the clinical advisories. These pre-set concentration cannot be modified by the user. If a dilution was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value. **Range** Minimum, default and maximum concentration values configured when 'Type' is set to 'Range'. If a dilution range was entered, the calculated concentration is also displayed. If the calculated value is less than 0.001, '<0.001' is shown as the value.

WARNING
For the TCI pumps to function properly, the dilutions / concentrations for TCI therapies must be programmed within the following ranges:

- Propofol: 1 → 40 mg/mL
- Remifentanil: 5 → 100 microg/mL
- Sufentanil: 0.5 → 5 microg/mL
- Alfentanil: 50 → 500 microg/mL

10. Enter clinical messages.

Setting	Description
Clinical Advisory	This is the clinical advisory message that will appear, when the drug is selected.
Clinical Advisory Additional Note	This is the additional note that will appear below the default Clinical Advisory.
Clinical Reminder	Message that will appear on Pump screen with a frequency defined by the Clinical Reminder Duration interval. This message is intended to help the caregiver of infusion monitoring and/or check-ups to perform.
Clinical Reminder Frequency	Interval of time between two Clinical Reminders

11. Enter concentration target settings.

Setting	Description
Target Plasma Concentration (Cpt) and/or Target Effect-site Concentration (Cet)	This is the Target Plasma Concentration (Cpt) or Target Effect-site Concentration (Cet).
Wake up Concentration	Wake up concentration is the estimated drug concentration at which the patient will wake up. The pump will automatically calculates the wake up duration (time to reach the wake up concentration).
Max Flow Rate	This is the maximum flow rate that the user cannot override. A message will be displayed on the upper part of the pump screen if the threshold is reached. If this field is left empty, the default value available on the pump will be used.

12. Enter induction settings.

WARNING
These settings are only applicable when Plasma is selected in TCI model settings.

Setting	Description
Induction Duration	These values are the induction time during which the target concentration progressively increases to finally reach the programmed value.

13. Enter plasma concentration limit settings.

WARNING
These settings are only applicable when Effect is selected in TCI model settings.

Setting	Description
Maximum Plasma Concentration	This is the maximum limit of the plasma concentration.

14. Enter TCI patient parameters.

Setting	Description
Patient Age	This is the patient's age range that will be allowed for this model.
Patient Weight	This is the patient's weight range that will be allowed for this model.

15. Enter continuous settings.

Setting	Description
Flow Rate Unit / Dose Rate Unit	This is the unit that will be used to enter Flow rate values. A message will be displayed on the pump for values outside the range. / This is the unit that will be used to enter Dose rate values.
Force Flow Rate Programming	When enabled, the pump(s) will allow the user to enter the value in flow rate.

16. Enter Volume To Be Infused (VTBI) settings.

Setting	Description
Volume	This is the Volume to Be Infused (VTBI) that will be displayed on the pump screen when selecting the drug.
Exelia KVO	When enabled, the Keep Vein Open feature is activated by default for the designated drug (the feature can still be deactivated on the device).
Exelia KVO Flow Rate	Sets the Keep Vein Open rate for the designated drug. If the drug is infusing at a rate below this value, the rate will not change. If the infusion rate is greater than this value, the rate will be lowered to the value entered here.

17. Enter loading dose settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Duration	Loading Dose infusion time. Characterized by Minimum, Default, and Maximum.

18. Enter accuracy settings

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Exelia Flow Rate Decimals Management	This is the precision of flow rate values entered at the pump. When set to 1 digit, 1 decimal point is allowed. When set to 2 digits, 2 decimal points are allowed.
Exelia Dose Rate Decimals Management	This is the precision of dose rate values entered at the pump. When set to 2 digits, 2 decimal points are allowed. When set to 3 digits, 3 decimal points are allowed.

19. Enter programmed bolus settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Dose or Volume Unit	This is the unit that will be used to enter either volume or dose values.
Duration	Programmed Bolus infusion time. Characterized by Minimum, Default, and Maximum.

20. Enter direct bolus settings.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Flow Rate	This is the pre-set rate that will be displayed on the pump screen when pressing the direct bolus key. For Agilia, the entered value will be a fixed value on the device(s). For Exelia, the entered value will be the Default Flow Rate value on the device(s). It cannot be exceeded.

Setting	Description
Max Volume	This is the maximum volume that can be infused each time a user presses and holds the direct bolus key. A message will be displayed on the pump screen if this threshold is reached.

21. Enter pressure management settings.

WARNING
These settings override the settings defined in the device configuration.
They are only applicable to the current therapy.

Setting	Description
Disable/Enable	The feature on the pump will be turned on if enabled.
Pressure Mode	In variable mode, you can adjust the pressure limit during an infusion by 25 mmHg increments from 50 to 250 mmHg, then by 50 mmHg increments from 250 mmHg up to the maximum allowable limit. In 3-level mode, you can adjust the pressure limit during an infusion to the low, medium or high pre-set pressure limit. In automatic mode, the pressure levels are managed by the pump. (Note: This function is available only for Exelia pumps)
3 Levels	Defines the values of the three pre-set levels in the 3-level mode (a difference of 100 mmHg is mandatory between 2 values).
Variable	When variable pressure mode is selected, this value defines the default and maximum pressure limit. (Note: Maximum pressure limit is available only for Agilia pumps).

22. Enter therapy near end alert settings.

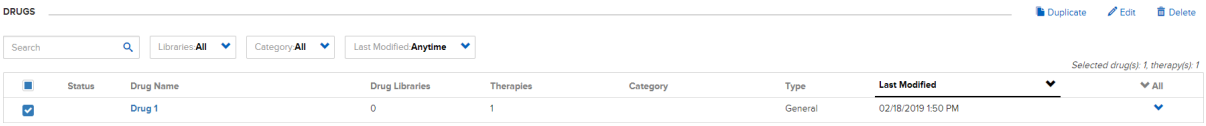
Setting	Description
Near End of Infusion Alert	When 'Use the Settings in Device Configuration' is selected, the Near End of Infusion Alert settings configured in Device Configuration will be applied to this designated Therapy. When 'Disable Near End of Infusion Alerts' is selected, Near End of Infusion Alert feature will be disabled for this designated Therapy, no matter what settings are configured in Device Configuration.

23. Click **Save**.
The therapy is created.

5.3.4 Editing a therapy

1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of three ways:

- Check the box next to the drug name and click **Edit**.
- Click the drug name.
- Click the down arrow to expand the drug, and click, **Edit** then go to step *4*.



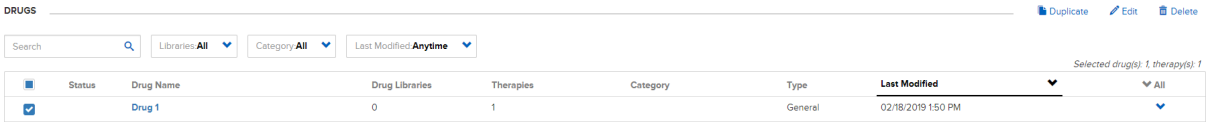
3. Click next to the therapy to be edited.

4. Edit the therapy settings.

5. Click **Save**.
   The settings are saved.

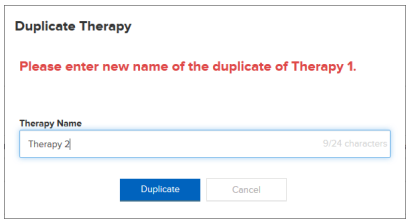
5.3.5 Duplicating a therapy

1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of two ways:
   - Check the box next to the drug name and click **Edit**.
   - Click the drug name.



3. Click next to the therapy to be duplicated.

4. Enter a new name.

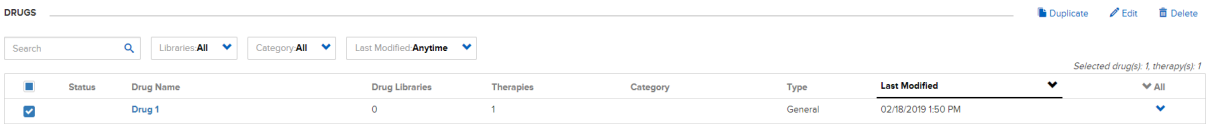


5. Click **Duplicate**.
   A new therapy is created. Settings from the original therapy are duplicated.

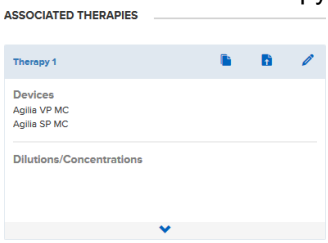
5.3.6 Duplicating a therapy and sending it to another drug

INFORMATION
This section is not applicable to TCI therapies.

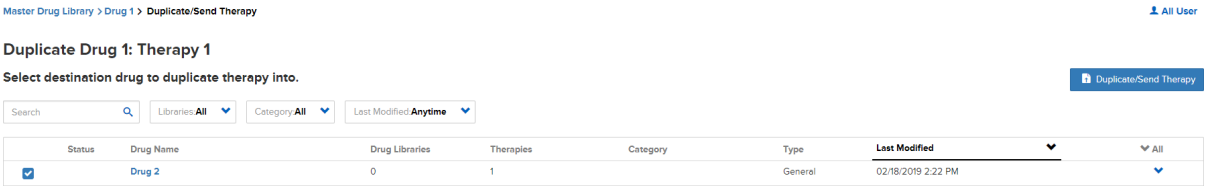
1. On the navigation sidebar, click **Master Drug Library**.
2. Select a drug from the list in one of two ways:
   - Check the box next to the drug name and click **Edit**.
   - Click the drug name.



3. Click next to the therapy to be sent to another drug.



4. Check the box next to the drug to duplicate the therapy into.



5. Click **Duplicate/Send Therapy**
   The therapy is ready to be saved into the destination drug.

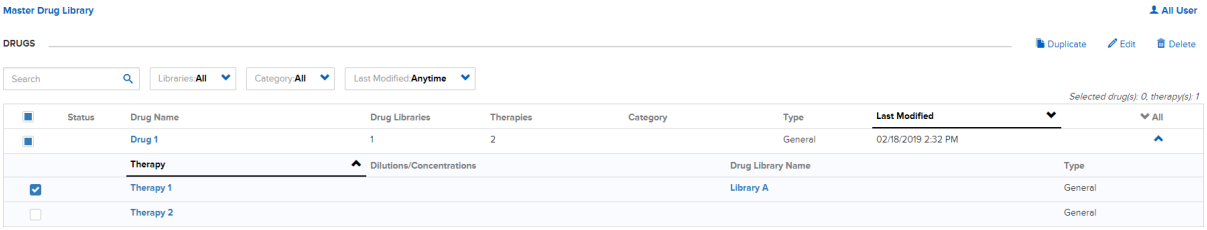
6. Click **Save**.
   The therapy is duplicated into the destination drug.

INFORMATION

- If the duplicated therapy name is not unique in the destination drug, you are required to enter a new name.
- If the destination drug has only one therapy that does not have any name, you must name that existing therapy first before the therapy can be sent to the drug.

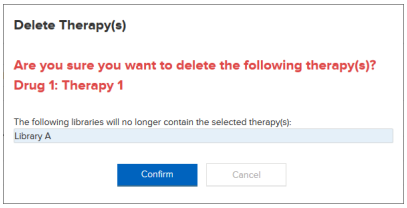
5.3.7 Deleting a therapy

1. On the navigation sidebar, click **Master Drug Library**.
2. Identify the drug that contains the therapy to be deleted, and click the down arrow on the right to expand it.
3. Check the box next to the therapy or the therapies to be deleted.



WARNING
If there is only one therapy within a drug, deleting the therapy also deletes the drug.

4. Click **Delete**.
   A confirmation message is displayed.



5. Click **Confirm**.
   The therapy is deleted. The therapy is no longer contained by any drug library.

INFORMATION
You can also delete a therapy by selecting a drug, then clicking the therapy name and clicking **Delete** on the therapy screen.

5.4 Drug libraries

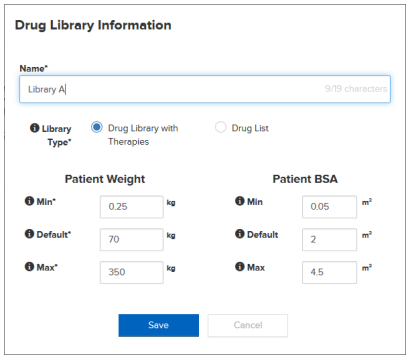
This section explains how to perform the following procedures:

- *Modifying the display name for a therapy in a drug library* on page 43
- *Duplicating a drug library* on page 43.
- *Deleting a drug library* on page 44.

INFORMATION
You can perform these procedures from the **Drug Libraries** tab.

5.4.1 Creating a drug library

1. On the navigation sidebar, click **Drug Libraries**.
2. Click **Create**.
   The drug library creation form is displayed.

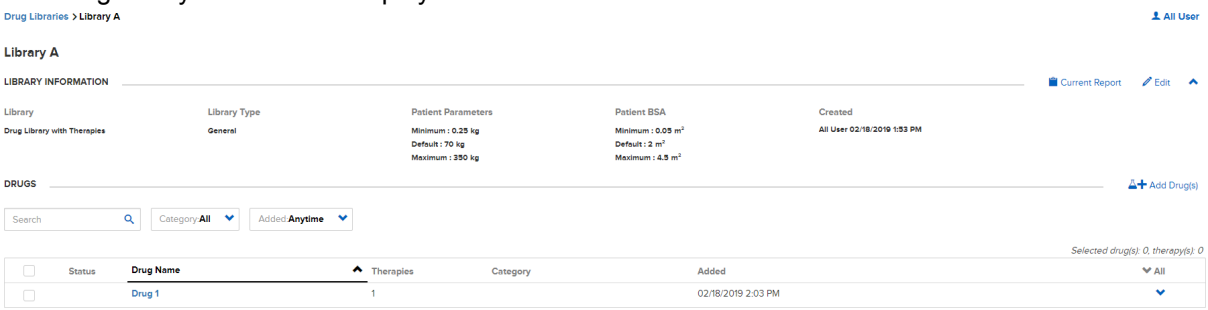


3. Enter a drug library name.
4. Select the library type.

   NOTE: The library type cannot be changed after creation.
5. For drug libraries with therapies, enter patient's weight range (mandatory) and body surface area range (optional).
6. Click **Save**.
   The drug library is created.

5.4.2 Editing a drug library

1. On the navigation sidebar, click **Drug Libraries**.
2. In the list, click the drug library to be edited.
   The drug library's details are displayed.



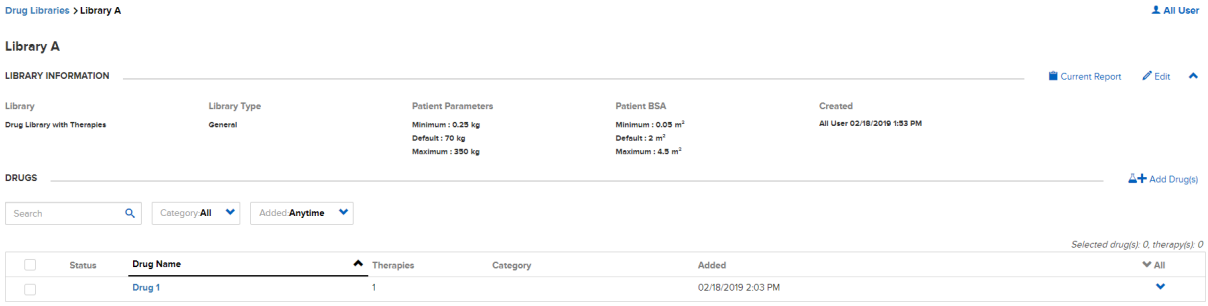
3. Click **Edit**.
4. Edit the drug library settings.
5. Click **Save**.
   The settings are saved.

5.4.3 Adding drugs and selected therapies to a drug library

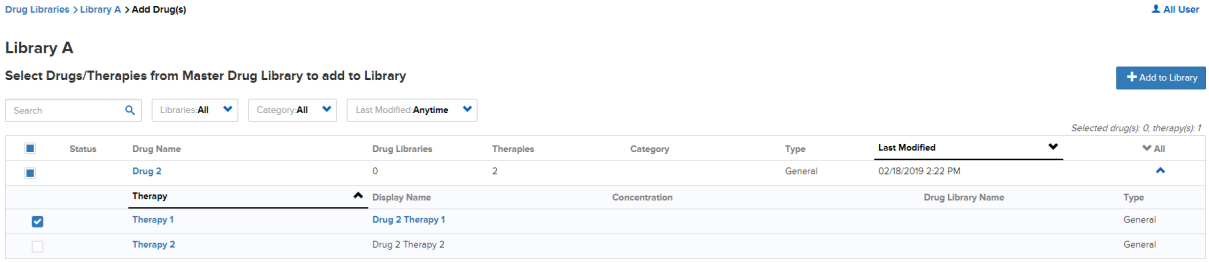
This function allows you to add one or more drugs with the therapies associated to the selected drugs.

INFORMATION
Adding drugs to a drug library adds selected drugs and the associated therapies.
Adding drugs to a drug list does not add the drug's associated therapies.
You can unselect therapies under a drug if you do not want to add those therapies with the drug.

1. On the navigation sidebar, click **Drug Libraries**.
2. In the list, click a drug library.
   The drug library's details are displayed.



3. Click **Add Drug(s)**.



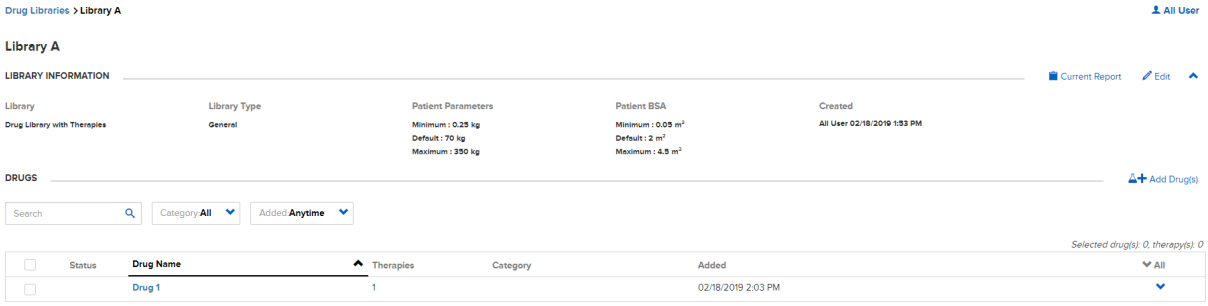
4. Check the box next to drugs or therapies to be added.
5. Click **Add to Library**.
   The drug is added to the drug library.

WARNING
The maximum number of drugs and therapies allowed in a drug library is 200.

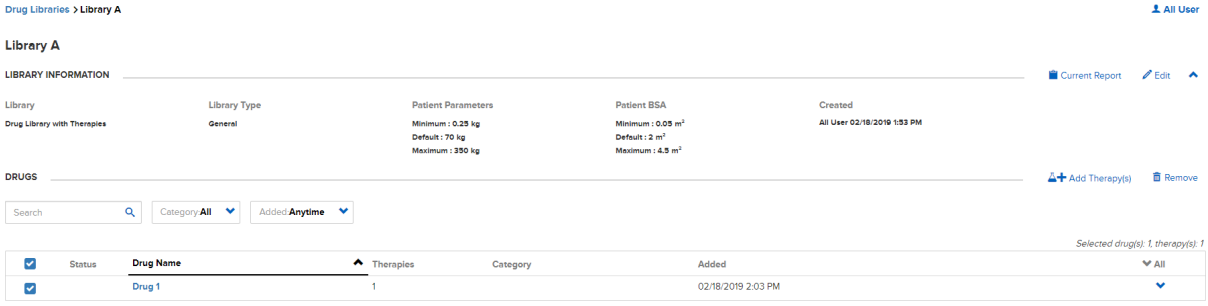
5.4.4 Adding therapies to a drug library

This function allows you to add one or more therapies to a drug that is already added to a drug library.

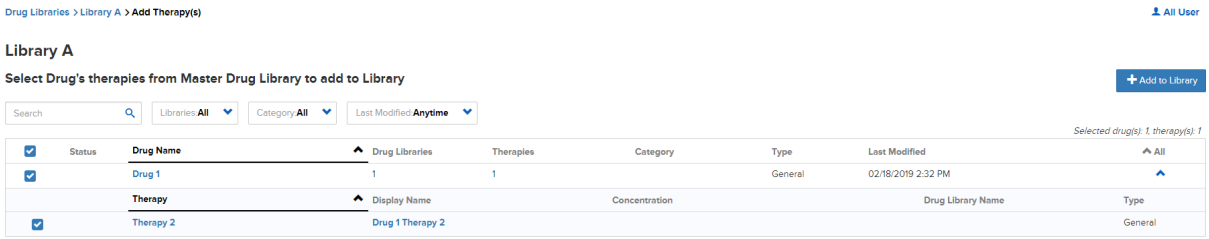
1. On the navigation sidebar, click **Drug Libraries**.
2. In the list, click a drug library.
   The drug library's details are displayed.



3. Select a drug which contains the therapies that you want to add into the drug library.



4. Click **Add Therapy(s)**

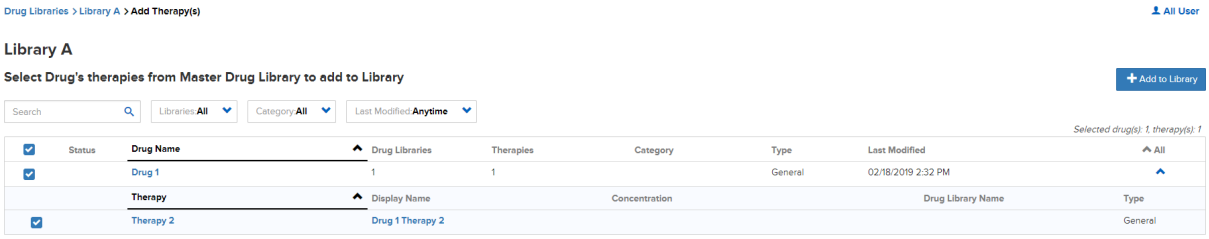


5. Check the box next to the therapies to be added.

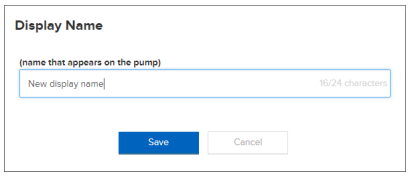
6. Click **Add to Library**.
   The therapy is added to the drug library. Vigilant Master Med automatically generates a display name for the therapy within the drug library.

5.4.5 Modifying the display name for a therapy in a drug library

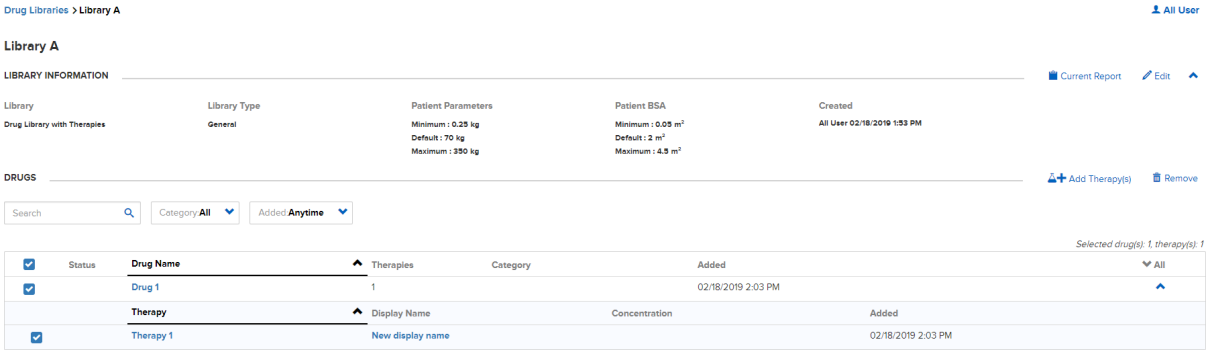
1. On the navigation sidebar, click **Drug Libraries**.
2. In the list, click a drug library with at least one therapy.
   The drug library's details are displayed.
3. Identify the drug that contains the therapy whose display name must be modified, and click the down arrow on the right to expand it.



4. Click the therapy display name.
   The display name form is displayed.



5. Enter a new display name.
6. Click **Save**.
   The settings are saved.

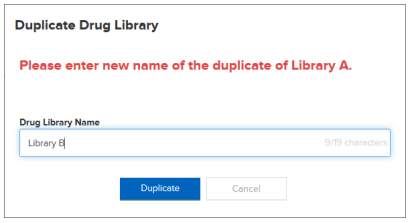


NOTE: Display name for a therapy must be unique within a drug library.

5.4.6 Duplicating a drug library

1. On the navigation sidebar, click **Drug Libraries**.
2. Check the box next to the drug library to be duplicated.

3. Click **Duplicate**.
4. Enter a new name.



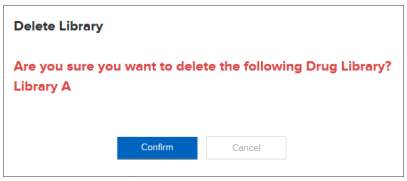
5. Click **Duplicate**.
   A new drug library is created. Settings from the original drug library are duplicated.

5.4.7 Deleting a drug library

1. On the navigation sidebar, click **Drug Libraries**.
2. Check the box next to the drug library to be deleted.

NOTE: You can only delete one drug library at a time.

3. Click **Delete**.
   A confirmation message is displayed.



4. Click **Confirm**.
   The drug library is deleted.

5.5 Device configurations

This section explains how to perform the following procedures:

- *Creating a device configuration* on page 44.
- *Editing a device configuration* on page 51.
- *Duplicating a device configuration* on page 51.
- *Deleting a device configuration* on page 52.

INFORMATION
You can perform these procedures from the **Device Configurations** tab.

5.5.1 Creating a device configuration

1. On the navigation sidebar, click **Device Configurations**.
2. On the device configuration screen, click **Create**.
3. Enter a device configuration name.

NOTE: A device configuration name must be unique.

INFORMATION
Exelia Therapy Manager cannot be used without an Exelia pump. When selecting Exelia Therapy Manager, you must also select at least one other Exelia destination device.

4. In the device list, select one or more destination device.
   A pop-up message indicates that the default values may not reflect the healthcare facility's clinical practices or policies.

5. Read the pop-up message, and click **OK** to acknowledge.
6. Enter pressure management settings.

Setting	Description
Pressure	

Setting	Description
Pressure Mode	In variable mode, you can adjust the pressure limit during an infusion by 25 mmHg increments from 50 to 250 mmHg, then by 50 mmHg increments from 250 mmHg up to the maximum allowable limit. In 3-level mode, you can adjust the pressure limit during an infusion to the low, medium or high pre-set pressure limit. In automatic mode, the pressure levels are managed by the pump. (Note: This function is available only for Exelia pumps)
3 Levels	Defines the values of the three pre-set levels in the 3-level mode (a difference of 100 mmHg is mandatory between 2 values).
Variable	When variable pressure mode is selected, this value defines the default and maximum pressure limit. (Note: Maximum pressure limit is available only for Agilia pumps).
Save Pressure Limit Settings	When enabled, the pump will keep the Pressure Limit settings entered by user manually after the power cycle. When disabled, the pump will not save the manual changes made on the Pressure Limit settings and will go back to the settings configured in Vigilant Master Med after a power cycle.
Pressure Unit	Select the unit for Pressure management. This unit will be displayed on the Infusion System.
DPS	
Save DPS Setting	The feature enables saving of the Dynamic Pressure System (DPS) settings. When enabled, the pump DPS settings will default to the saved settings during the power on.
Dynamic Pressure System (DPS) Setting	The Dynamic Pressure System informs the user of any sudden rise or drop in pressure before the pressure limit is reached. When enabled, pump will use DPS function.
DPS Raise Threshold	The pump generates an alert when the pressure in the disposable has risen above the average pressure by the defined value.
DPS Drop Threshold	The pump generates an alert when the pressure in the disposable has dropped below the average pressure by the defined value.
Auto Restart After Occlusion	
Auto Restart After Occlusion: Allow User Option to Enable/Disable Alert	When enabled, the user can enable/disable the auto restart after occlusion on the pump.
Enable Alert on Device Startup	When enabled, the device startup setting is to automatically restart the current infusion when occlusion condition clears.
Sliding Duration for Number of Restarts	Determines the sliding period during which the pump can auto restart up to the max number before triggering an alarm.
Maximum Number of Auto Restarts	Specifies the maximum number of auto restart that the pump can attempt before triggering an alarm.
Maximum Low Pressure Duration Before Auto Restart	Specifies the waiting time for the Pressure to reach low enough point.
Infusion Restart Threshold	Specifies the threshold of pressure under which the pump can attempt to auto restart.
Maximum Pressure for Disabling Auto Restart	Specifies the maximum Pressure under which the auto restart feature is prohibited.
Maximum Flow Rate for Disabling Auto Restart	Specifies the maximum Flow rate under which the auto restart feature is prohibited.

7. Enter air-in line settings.

Setting	Description
Total Air Volume over 15 minutes	Above this volume of air, the 'air-in-line' alarm is triggered.
Bubble Filter	This is the minimum bubble size taken into account in Total Air Volume over a 15-minute measurement.

Setting	Description
Advance Air Bubble	When enabled, this feature allows you to use the Bolus key to advance the air bubble past the air-in-line sensor, at the same set rate and for a volume equal to the volume of air defined in the alarm setting. Note: This feature is available only when an air alarm is triggered (air volume exceeded or air bubble in front of the air detector). The air bubble is advanced without the need to open the pump door and remove the administration set.

8. Enter end of infusion settings.

Setting	Description
Silence Key Duration	Defines duration of the silence key at the end of infusion.
VP Near End of Infusion Alert Duration	Enables the adjustable duration for alert before end of infusion. Either volume or duration must be enabled to activate VP Near End of Infusion alert. Note: For Exelia pumps, this setting can be disable under 'Therapy Near End Alert' in Therapy.
Alert Duration	Adjustable duration for alert before end of infusion.
VP Near End of Infusion Alert Volume	Enables the adjustable volume for alert before end of infusion. Either volume or duration must be enabled to activate VP Near End of Infusion alert. Note: For Exelia pumps, this setting can be disabled under 'Therapy Near End Alert' in Therapy.
Alert Volume	Adjustable volume for alert before end of infusion.
Inhibition of VP Near End of Infusion Alert for Drop Sensor	When enabled, Drop Sensor is inhibited at end of infusion.
SP Near End of Infusion Alert Duration	Adjustable time for alert before end of infusion. Note: This setting can be disable under 'Therapy Near End Alert' in Therapy.
Secondary Mode Management	When 'Manual' is selected, the user will have to switch manually from secondary to primary infusion using instructions on pump screen. When 'Automatic' is selected, the pump will automatically switch to primary drug infusion settings.
End of Secondary Infusion Alarm	When enabled, a message appears on the pump to warn the user regarding the good infusion practices at the end of the secondary infusion. This message has to be acknowledged by the user. When disabled, no message appears on the pump after the end of the secondary infusion.
VP KVO	The flow rate to maintain the vein open at the end of the infusion can be enabled here. This flow rate will apply to the volumetric pumps only and at a Profile level. (Note: KVO parameters are ignored by the pump when it is in the secondary mode.)
VP KVO Flow Rate	The flow rate to maintain the vein open at the end of the infusion can be set up here. This flow rate will apply to the volumetric pumps only and at a Profile level. (Note: KVO parameters are ignored by the pump when it is in the secondary mode.)
SP KVO	The flow rate to maintain patient's vein open at the end of an infusion for syringe pumps can be enabled here.
SP KVO Flow Rate	The flow rate to maintain patient's vein open at the end of an infusion for syringe pumps can be set up here.
SP Continuous Instead of KVO Option	When enabled, after the VTBI is completed, the infusion continues at the programmed flow rate.
Empty Syringe Mode	When enabled, the infusion continues until the syringe is completely emptied. The flow rate decreases when the plunger reaches the tip of the syringe.

9. Enter device general definition settings.

Setting	Description
Flow Rate Decimals Management	This is the precision of flow rate values entered at the pump. For values between 10 and 100, one decimal point is allowed. When set to 2 digits, for volume less than 10 mL or flow rate less than 10 mL/h are specified with hundredths precision (2 digits below the decimal point). When set to 1 digit, tenths precision (1 digit below the decimal point) is used.
Exelia Flow Rate Decimals Management	This is the precision of flow rate values entered at the pump. When set to 1 digit, 1 decimal point is allowed. When set to 2 digits, 2 decimal points are allowed.

Setting	Description
Exelia Dose Rate Decimals Management	This is the precision of dose rate values entered at the pump. When set to 2 digits, 2 decimal points are allowed. When set to 3 digits, 3 decimal points are allowed.
Rate Titration Mode	When 'While stopped and during infusion' is selected, you can adjust the infusion rate at any time. When 'While stopped only' is selected, you can adjust the infusion rate only when the infusion is stopped.
Enable VP Priming	When enabled, the pump allows you to use the bolus key to prime the IV line before starting an infusion.
Enable SP Priming	When 'Not displayed' is selected, the pump will not remind the user to prime the IV line before starting an infusion. When 'Advised' is selected, a message will be displayed on the pump screen to prime the IV line before starting an infusion. When 'Mandatory' is selected, a message will be displayed on the pump screen and the user is required to use the Bolus key to prime the infusion line before starting the infusion.
Key Press Sound	When 'On', a sound is emitted for each key press on the pump's user interface. When 'Off' is selected, no sound is generated.
Alarm Volume	Adjust the level of audio alarms generated by the pump (1 is low and 7 is high).
Display Infusion Duration Remaining	Check the box to display the remaining infusion duration on the infusion system.

10. Enter night mode settings.

Setting	Description
Manual Mode	If manual mode is enabled, you can switch to or from night mode by pressing the Menu key and scrolling to the 'Night Mode' icon.
Auto Mode	If auto mode is enabled, the pump automatically switches to and from night mode according to the times entered in the Time Frame fields.
Time Frame	Time at which the pump will automatically switch to and exit night mode.
Screen Brightness	If 'Low' is selected, the brightness of the pump screen will be reduced while in night mode.
Infusion Indicator Brightness	If 'Low' is selected, the brightness of the LED infusion indicators located in front will be reduced while in night mode.
Key Press Sound Muted	When 'On', the pump generates a sound each time a key is pressed on the pump's user interface while in night mode. When 'Off', no sound is generated while in night mode.

11. Enter Drug X settings.

Setting	Description
Drug X in Flow Rate	Allow the infusion of a 'Drug X' in mL/h by checking the box.
Drug X in Dose Rate	Allow the infusion of a 'Drug X' in weight based rate (mg/Kg/h for example) by checking the box.
Drug X position on Drug List	Define the position of 'Drug X': on top of a Drug Library or at the bottom of a drug library.

12. Enter infusion modes settings.

WARNING
The settings below apply to drug lists, Drug X, and when no drug library is defined. For infusion settings applicable to drugs from drug libraries, see *Creating a therapy for general infusion* on page 26.

WARNING
PCA settings are not available for the North America customers.

Setting	Description
Infusion modes	

Setting	Description
Dose/Dose Rate within Modes	When enabled, Dose and Dose Rate within all infusion modes that support them are activated on the pump.
Loading Dose	When enabled, Loading Dose Infusion mode is activated on the pump.
Programmed Bolus	When enabled, Programmed Bolus Infusion mode is activated on the pump.
Direct Bolus	When enabled, Direct Bolus Infusion mode is activated on the pump.
Dose or Volume/Time	When enabled, Volume/Time option becomes a selectable infusion mode.
Volume Limit	Total Volume To Be Infused (VTBI) is managed here.
Save VP infusion mode	When enabled, saves the last infusion mode across power cycle.
Volume/Time	When enabled, Volume/Time option becomes a selectable infusion mode.
Volume/Rate	When enabled, Volume/Rate option becomes a selectable infusion mode.
Time/Rate	When enabled, Time/Rate option becomes a selectable infusion mode.
Volume/Time/Rate	When enabled, Volume/Time/Rate option becomes a selectable infusion mode.
Rate	When enabled, Rate option becomes a selectable infusion mode. Only available when a Drop Sensor is connected to the Device
Drop/min	When enabled, Drop/min option becomes a selectable infusion mode.
Ramp Mode	Infusion defined by a total volume, a total infusion time, a ramp-up and ramp-down time and a plateau flow rate. This mode allows the flow rate to be increased gradually by intermediate stages in order to reach the plateau flow rate.
Sequential Infusion Mode	When enabled, Sequence option becomes a selectable infusion mode.
PCA modes	
PCA Generic	Check this box to activate the General infusion mode for PCA pump.
PCA Infusion	Enable this feature to display the PCA infusion modes. (Note: This feature is available only for PCA pump)
Save PCA infusion mode	The feature enables saving of the PCA infusion modes. Activate this feature by checking the box.
PCA Default Infusion Mode	Select the default infusion mode for this drug for an infusion in PCA delivery mode.
PCA Bolus Only	PCA Bolus only' is an infusion mode which allow to infuse a drug through boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus Only' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
PCA Bolus + Continuous	PCA Bolus + Continuous' is an infusion mode which allows to infuse a drug through a continuous background infusion in addition to boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus + Continuous infusion' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
PCA Bolus + Variable Rates	PCA Bolus + variable rates' is an infusion mode which allows to infuse a drug through a background infusion which may have a variable rate and additional boluses requested by the patient thanks to the patient handset. Activate the 'PCA Bolus + Variable rates' infusion mode by checking the box. Then this infusion mode will become available in the PCA pump for this particular drug.
Continuous Only	Continuous Only' is an infusion mode which allows to infuse a drug through a continuous infusion only. Activate the 'Continuous only' infusion mode by checking the box. This infusion mode will then become available on the pump for this particular drug.
Clinician Bolus	Allow the infusion of a clinician bolus by checking the box.
PCA Loading Dose	Activate the use of a loading dose by checking the box.

13. Enter infusion options settings.

Setting	Description
VP Flow Rate Max Hard Limit in Primary Mode	Specifies the maximum hard limit of flow rate in primary mode.
VP Flow Rate Max Hard Limit in Secondary Mode	Specifies the maximum hard limit of flow rate in secondary mode.
Syringe Flow Rate Max Hard Limit	Specifies the maximum hard limit of flow rate for a syringe pump.

14. Enter bolus and loading doses settings.

WARNING
PCA settings are not available for the North America customers.

Setting	Description
mL authorized	When enabled, volume (mL) based Bolus and Loading Dose is activated.
Direct Bolus VP Flow Rate Limit	Specifies the flow rate for Volumetric device(s) when Direct Bolus button is pressed. For Agilia, the entered value will be a fixed value on the device(s). For Exelia, the entered value will be the Default Flow Rate Limit value for Direct Bolus allowed on the device(s). It cannot be exceeded.
Direct Bolus Syringe Flow Rate Limit	Specifies the flow rate for Syringe device(s) when Direct Bolus button is pressed. For Agilia, the entered value will be a fixed value on the device(s). For Exelia, the entered value will be the Default Flow Rate Limit value for Direct Bolus allowed on the device(s). It cannot be exceeded.
Programmed Bolus and Loading Dose VP Flow Rate Max Hard Limit	The flow rate maximum hard limit in Programmed Bolus or Loading Dose infusion for volumetric pumps.
PCA Bolus and Clinician Bolus Syringe Flow Rate Max Hard Limit	Specifies the Maximum Hard Limit of Flow Rate per syringe size for PCA and Clinician boluses (Note: This function is available only for a PCA pump).

15. Enter menu items settings.

Setting	Description
View Event Log	When enabled, the 'View Event Log' icon is displayed on the pump screen when the Menu key is pressed.
Sound Level	When enabled, the 'Sound Level' icon is included in the pump menu.
Data Set	When enabled, the 'Data Set' icon is displayed on the pump screen when the Menu key is pressed.
Current Profile	When enabled, the 'Current Profile' icon is included in the pump menu.
Pause	When enabled, the 'Pause' icon is displayed on the pump screen when the Menu key is pressed.
Infusion Mode	When enabled, the 'Infusion Mode' icon is included in the pump menu.
View Flow Rate History	When enabled, the 'View Flow Rate History' icon is displayed on the pump screen when the Menu key is pressed.
Call Back Alert	When enabled, the 'Call Back Alert' icon is includes in the pump menu.
View Pressure History	When enabled, the 'View Pressure History' icon is displayed on the pump screen when the Menu key is pressed.
Drug Change	When enabled, the 'Drug Change' icon is included in the pump menu.
Infused Volume History	When enabled, the 'Infused Volume History' icon is included in the pump menu.
Syringe Name	When enabled, the 'Syringe Name' icon is included in the pump menu. For PCA pump, this option is always enabled.

16. Enter screen and keypad items settings.

WARNING
PCA settings are not available for the North America customers.

Setting	Description
Pressure Icon	When enabled, the 'Pressure Indicator' is displayed on the pump screen.
Battery Indicator	When enabled, the 'Battery Indicator' is displayed on the pump screen.
Enable Auto Keypad Lock on Device Startup	When enabled, activates the automatic keypad lock.
Allow User Option to Enable/Disable Auto Keypad Lock	When enabled, user can enable/disable the 'Keypad Lock' function on pump.
Auto Keypad Lock Delay	Specifies duration for the keypad to be locked. Note: This value will be used ONLY if "Enable Auto Keypad Lock on Device Startup" or "Allow User Option to Enable/Disable Auto Keypad Lock" is enabled.
Same Infusion screen	When enabled, the pump will retain the current infusion information and asks to resume the infusion when switched on.
Same Infusion Duration	Specifies the duration of time which the pump retains the current infusion information.
PCA Mandatory Code For Unlock	When enabled, a code is required to access to the PCA modes.
General Infusion	Check the box to enable the secured parameters when used in General Infusion. When Auto Keypad Lock is enabled, closing the protective cover will result in locking the keypad. When Auto Keypad Unlock is enabled and if the keypad is locked, opening the protective cover will results in unlocking the keypad.
PCA Infusion	Check the box to enable the secured parameters when used in PCA Infusion. When PCA Cover Mandatory is enabled, the presence of the protective cover is required to use the pump for PCA infusions. Then, if PCA Cover Mandatory is enabled, the Optional Lock could be enabled. When Optional Lock is enabled, the infusion can be started while the protective cover is installed but not closed. When Auto Keypad Lock is enabled, closing the protective cover will result in locking the keypad. When Auto Keypad Unlock is enabled and if the keypad is locked, opening the protective cover will results in unlocking the keypad.

17. Enter drop sensor settings.

WARNING
Drop Sensor settings are not available for the North America customers.

Setting	Description
Drop Sensor Mandatory	Check the box to force the use of a drop sensor.
Drop Sensor Mandatory During Primary/Secondary Mode	If Both, Drop Sensor is required for both Primary and Secondary infusion. If 'Only on Primary', Drop Sensor is required for the primary infusion only.
Drop Sensor Forces Simple Rate Mode	When enabled, Drop Sensor forces simple rate mode.

18. Enter PCA treatment settings.

WARNING
PCA settings are not available for the North America customers.

Setting	Description
Hide PCA Bolus Availability	Check the box to hide the PCA bolus.
Hide PCA Bolus Lockout Time	Check the box to hide the PCA bolus lockout time.
Treatment Modification forbidden after Start	When enabled, no modification will be possible during treatment. Check the box to enable it.
Automatic Mass Flow Unit Generation	When enabled, the mass flow unit will be automatically generated and suggested on pump screen. Applicable only to General infusion and not to drug libraries. Check the box to enable it.
Handset Press Sound	Check the box to activate the sound when the handset is pressed.
Handset Press Infusion Indicator	Check the box to activate the signal when the handset is pressed.

Setting	Description
Near Maximum Cumulative Dose Alert	Defines in % left of the cumulated limit in dose (or maximum dose left) that will trigger a near end of infusion alarm. Leave the field blank to disable it.

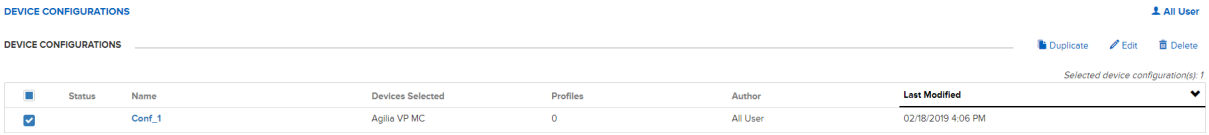
19. Enter Therapy Manager settings.

Setting	Description
TCI	When enabled, TCI functionality is activated on the Therapy Manager.
TCI Interactions	When enabled, information regarding the interactions between different TCI drugs is displayed.
TCI Switch	When enabled, switch between Plasma/Effect/TCI View is possible during an infusion.
Channel Relay	When enabled, the channel relay function is accessible on the Therapy Manager and drugs configured to be used for channel relay will be available.
Allow Relay Dilution Change	When enabled, allow the concentration to be different in both containers.
Imminent Relay Alarm	When enabled, an alarm is triggered when the relay is imminent.
Imminent Relay Alarm Duration	Adjustable duration for alert before relay.

20. Click **Save**.
    The device configuration is created.

5.5.2 Editing a device configuration

1. On the navigation sidebar, click **Device Configurations**.
2. Select a device configuration from the list in one of two ways:
   - Check the box next to the device configuration name.
   - Click the device configuration name.



3. Click **Edit**.
4. If necessary, add or remove destination devices.

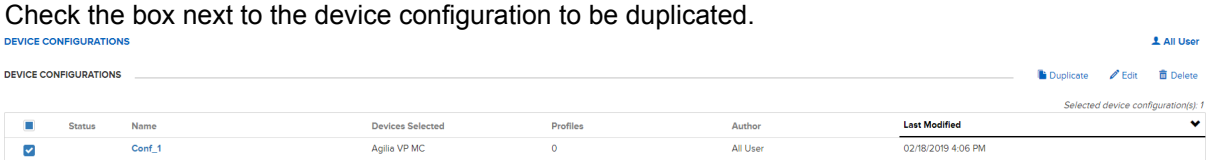
   NOTE: At least one destination device is required.

INFORMATION
Exelia Therapy Manager cannot be used without an Exelia pump. When selecting Exelia Therapy Manager, you must also select at least one other Exelia destination device.

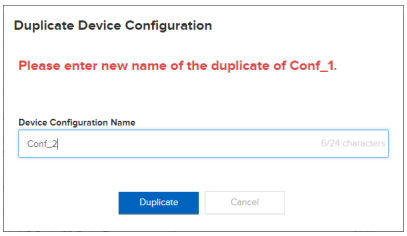
5. Edit the device configuration settings.
6. Click **Save**.
   The settings are saved.

5.5.3 Duplicating a device configuration

1. On the navigation sidebar, click **Device Configurations**.
2. Check the box next to the device configuration to be duplicated.



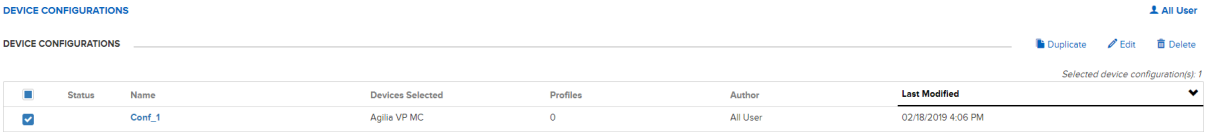
3. Click **Duplicate**.
4. Enter a new name.



5. Click **Duplicate**.
   A new device configuration is created. Settings from the original device configuration are duplicated.

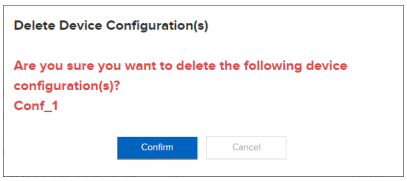
5.5.4 Deleting a device configuration

1. On the navigation sidebar, click **Device Configurations**.
2. Check the box next to the device configuration to be deleted.



NOTE: It is possible to delete several device configurations simultaneously.

3. Click **Delete**.
   A confirmation message is displayed.



4. Click **Confirm**.
   The device configuration is deleted.

5.6 Profiles

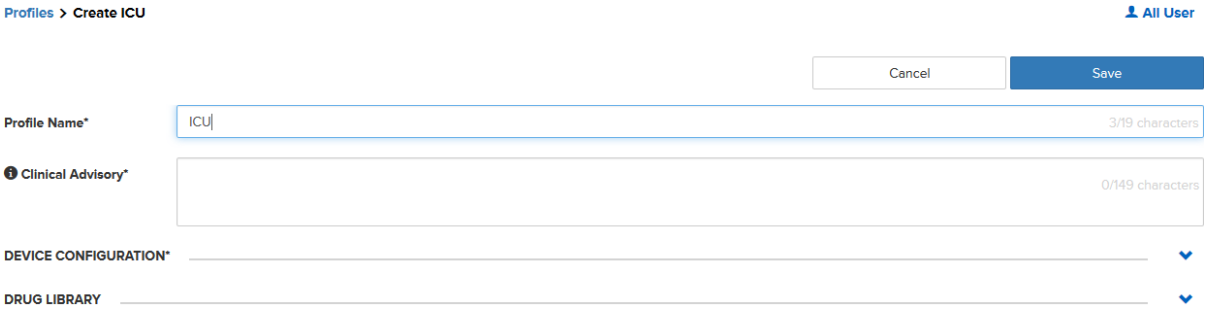
This section explains how to perform the following procedures:

- *Creating a profile* on page 52.
- *Editing a profile* on page 53.
- *Validating a profile* on page 53.
- *Deleting a profile* on page 53.

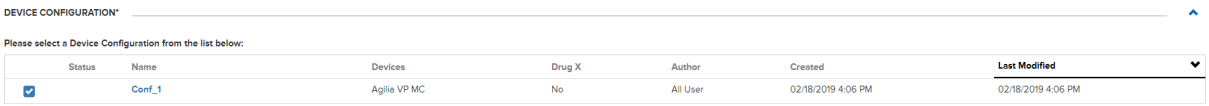
INFORMATION
You can perform these procedures from the **Profiles** tab.

5.6.1 Creating a profile

1. On the navigation sidebar, click **Profiles**.
2. On the profile screen, click **Create**.
   The profile creation screen is displayed.



3. Enter a profile name.
4. Enter a clinical advisory (optional).
5. Click the down arrow to expand the device configuration list.
6. Select a device configuration to be associated with the profile by checking the corresponding box.



7. Click the down arrow to expand the drug library list.
8. Select a drug library to be associated with the profile by checking the corresponding box (optional).

WARNING
A common destination device is required in both drug library and device configuration.

9. Click **Save**.
   The profile is created.

INFORMATION
A profile consists of one device configuration and zero or one drug library.

5.6.2 Editing a profile

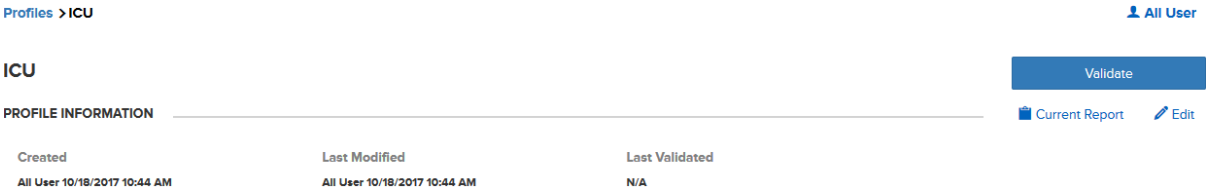
1. On the navigation sidebar, click **Profiles**.
2. Select a profile from the list in one of two ways:
   - Check the box next to the profile name.
   - Click the profile name.

3. Click **Edit**.
4. Edit the profile settings.
5. Click **Save**.
   The settings are saved.

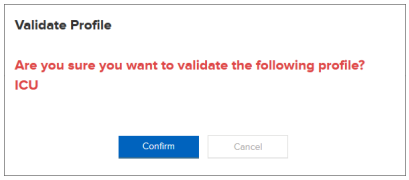
NOTE: When a validated profile is edited, its status icon changes from (validated) to (not validated).

5.6.3 Validating a profile

1. On the navigation sidebar, click **Profiles**.
2. In the list, click the profile name.
   Profile information is displayed.



3. Click **Validate**.
   A confirmation message is displayed.



4. Click **Confirm**.
   The profile is validated. A profile version report is generated.

5.6.4 Deleting a profile

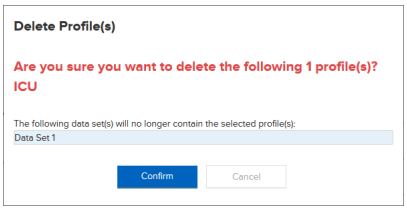
INFORMATION
A profile cannot be deleted in the following cases:
- The profile is used in a pre-released data-set.

- The profile is the only profile within a data set.

1. On the navigation sidebar, click **Profiles**.
2. Check the box next to the profile to be deleted.

NOTE: It is possible to delete several profiles simultaneously.

3. Click **Delete**.
   A confirmation message is displayed.



4. Click **Confirm**.
   The profile is deleted. The profile is no longer contained by any data set.

5.7 Data sets

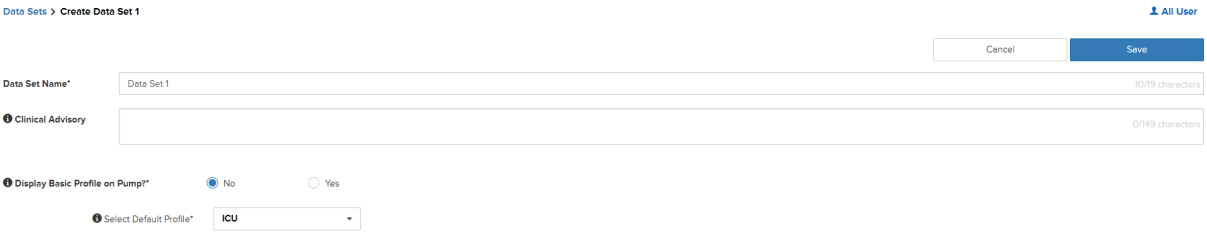
This section explains how to perform the following procedures:

- *Creating a data set* on page 54.
- *Editing a data set* on page 55.
- *Pre-releasing a data set* on page 55.
- *Releasing a data set* on page 55.
- *Deleting a data set* on page 56.

INFORMATION
You can perform these procedures from the **Data Sets** tab.

5.7.1 Creating a data set

1. On the navigation sidebar, click **Data Sets**.
2. On the data set screen, click **Create**.
   The data set creation screen is displayed.



3. Enter a data set name.
4. Enter a clinical advisory (optional).
5. Select one or more validated profiles to be associated to the data set by checking the corresponding box.

6. Select the availability of the Basic Profile within the data set (only if one of the checked profiles contains an Agilia destination device).
7. Select a default profile from the drop-down menu (only applicable if one of the checked profiles contains an Exelia destination device).
8. Click **Save**.
   The data set is created.

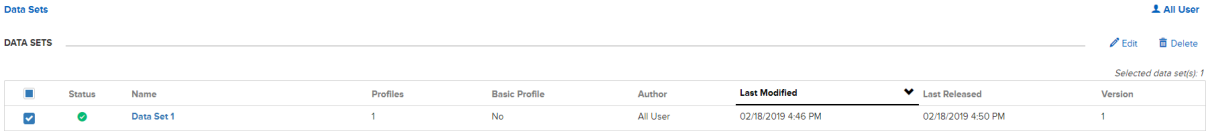
WARNING
- The maximum number of profiles allowed in one data set is 19.

- Only one standard-device compatible profile is allowed per device type within a data set. A standard-device compatible profile contains a drug list or no drug library.

5.7.2 Editing a data set

INFORMATION
You cannot edit a pre-released data set. For more information on data set pre-release, see *Pre-releasing a data set* on page 55.

1. On the navigation sidebar, click **Data Sets**.
2. Select a data set from the list in one of two ways:
   - Check the box next to the data set name.
   - Click the data set name.

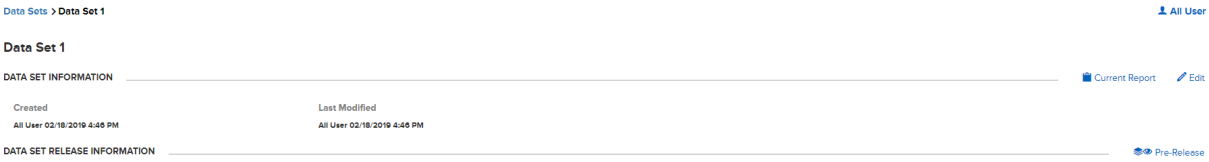


3. Click **Edit**.
4. Edit the data set settings.
5. Click **Save**.
   The settings are saved.

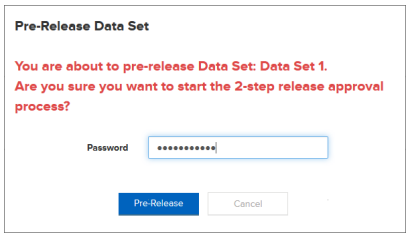
NOTE: When a validated data set is edited, its status icon changes from (validated) to (not validated) on data set list screen.

5.7.3 Pre-releasing a data set

1. On the navigation sidebar, click **Data Sets**.
2. In the list, click the data set to be pre-released.
   The data set details are displayed.



3. Click **Pre-Release**.
   A confirmation message is displayed.
4. Enter your password.



5. Click **Pre-Release**.
   The data set is pre-released. A report is generated.

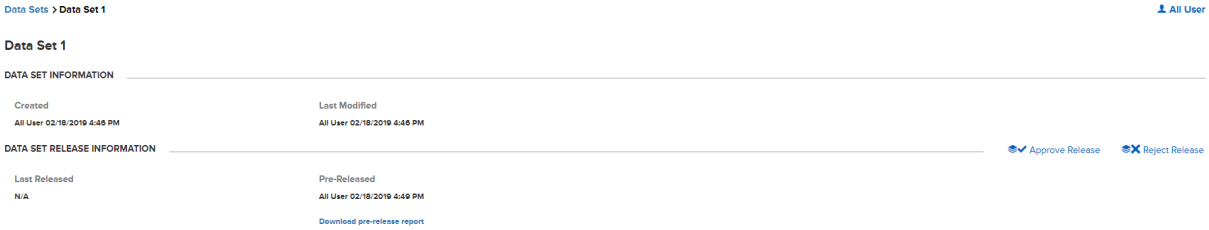
INFORMATION
Data set pre-release only includes the latest validated profile version. Changes made to a profile between its latest validation and data set pre-release are not taken into account in the pre-release.

5.7.4 Releasing a data set

WARNING
Depending on your Vigilant Master Med configuration, data set release may require two users (one user to pre-release the data set, one user to approve the data set).

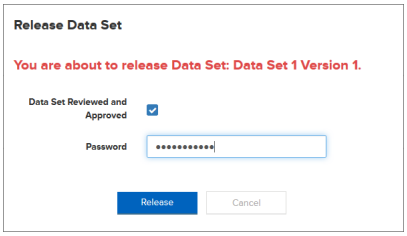
INFORMATION
Review the data set offline before approving it.

1. On the navigation sidebar, click **Data Sets**.
2. In the list, select a pre-released data set.
   The data set details are displayed.



3. Click **Approve Release**.

   NOTE: To reject the data set release, click **Reject Release**.
4. Check the box to confirm that the data set is reviewed and approved.
5. Enter your password.



6. Click **Release**.
   The data set is released. A version report is generated. The data set appears in the **Distribution** tab and is ready for distribution.

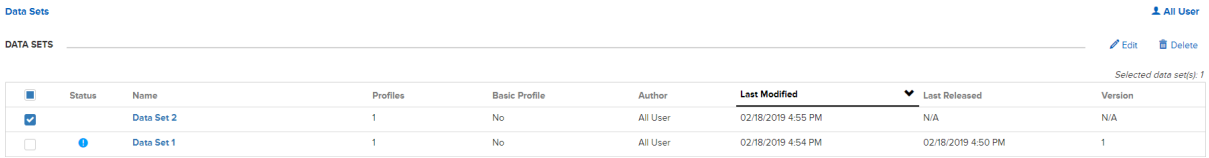
5.7.5 Deleting a data set

INFORMATION
You cannot delete a data set in the following cases:

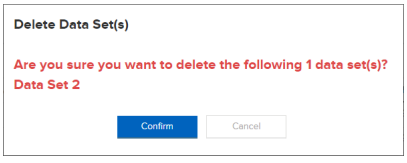
- Pre-released data set
- Data set with a valid distribution policy

Deleting a data set in the **Data Sets** tab also deletes all released versions of this data set in the **Distribution** tab.

1. On the navigation sidebar, click **Data Sets**.
2. Check the box next to the data set to be deleted.



   NOTE: It is possible to delete several data sets simultaneously.
3. Click **Delete**.
   A confirmation message is displayed.



4. Click **Confirm**.
   The data set is deleted.

5.8 Distribution

This section explains how to perform the following procedures:

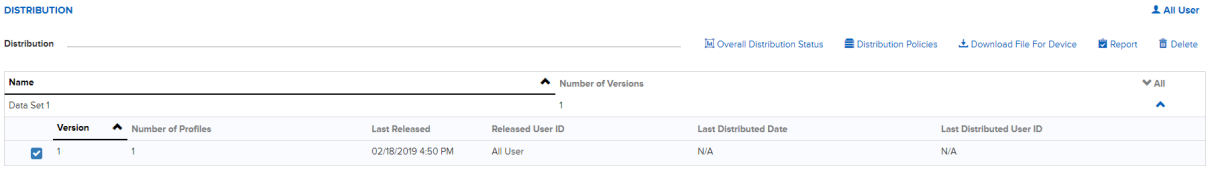
- *Deleting a version of a released data set* on page 57
- *Viewing distribution policies for a data set version* on page 57
- *Creating a distribution policy by organization for a data set version* on page 58

INFORMATION
You can perform these procedures from the **Distribution** tab.

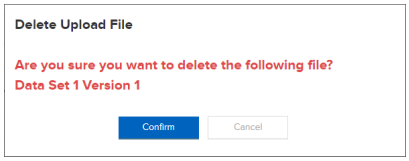
5.8.1 Deleting a version of a released data set

WARNING
A data set version with a valid distribution policy cannot be deleted.

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to be deleted, and click the down arrow on the right to expand it.
3. Check the box next to the data set version to be deleted.



4. Click **Delete**.
   A confirmation message is displayed.

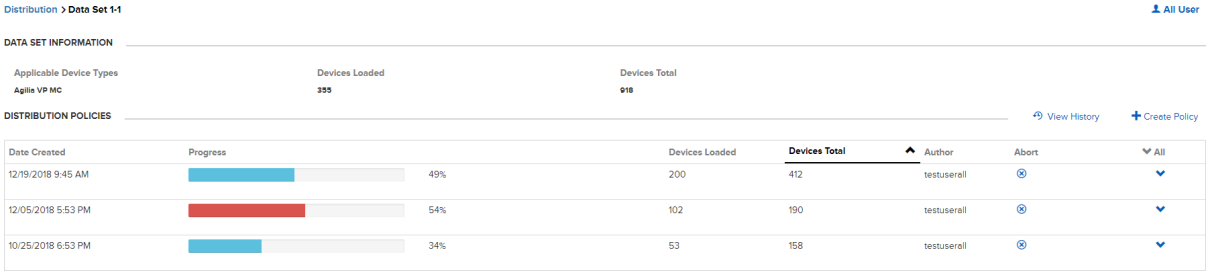


5. Click **Confirm**.
   The data set version is deleted.

5.8.2 Viewing distribution policies for a data set version

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to whose distribution policies are to be viewed, and click the down arrow on the right to expand it.
3. Check the box next to the data set version whose distribution policies are to be viewed.

4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.



NOTE: Click the down arrow on the right to expand details for a distribution policy.

Status	Description
Pending	Data set distribution policy has been created.
In Progress	Data set has started to be distributed.

Status	Description
Completed	Data set has been distributed to all devices impacted by the data set distribution policy and remains active.
No Progress	No progress on the data set distribution in a configured time frame.

INFORMATION
The progress bar for the data set version is shown in red when all valid distribution policies have the "No Progress" status.

5.8.3 Creating a distribution policy by organization for a data set version

This section describes how to create a distribution policy for a data set version in your health organization.

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to create a distribution policy for, and click the down arrow on the right to expand it.
3. Check the box next to the data set version to create a distribution policy for.

4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.
   See *Viewing distribution policies for a data set version* on page 57.
5. Click **Create Policy**, and select **By Organization**.
   The list of hospitals and wards in your health organization is displayed.
6. Review the hospitals and wards information.
7. Click **Save**.
   A confirmation page is displayed.
8. Click **Confirm**.
   The distribution policy is created for your health organization.

5.8.4 Creating a distribution policy by hospital for a data set version

This section describes how to create a distribution policy for a data set version in a selection of hospitals in your health organization.

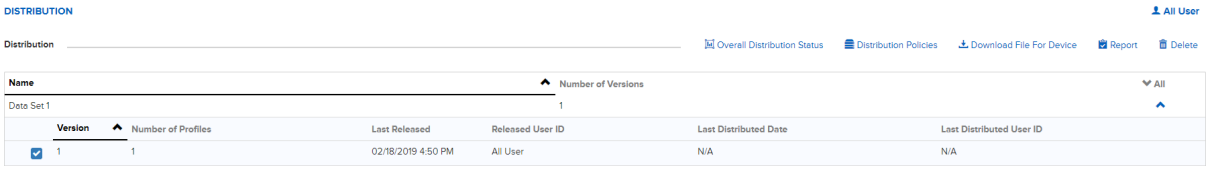
1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to create a distribution policy for, and click the down arrow on the right to expand it.
3. Check the box next to the data set version to create a distribution policy for.

4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.
   See *Viewing distribution policies for a data set version* on page 57.
5. Click **Create Policy**, and select **By Hospital**.
   The list of hospitals in your health organization is displayed.
6. Check the box next to the hospital to create the distribution policy for.
7. Click **Save**.
   A confirmation page is displayed.
8. Click **Confirm**.
   The distribution policy is created for the selected hospitals in your health organization.

5.8.5 Creating a distribution policy by ward for a data set version

This section describes how to create a distribution policy for a data set version in a selection of wards in your health organization.

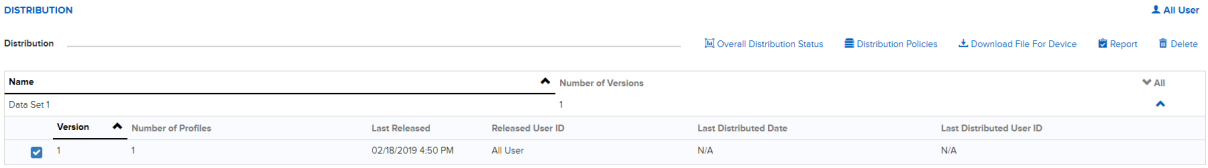
1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to create a distribution policy for, and click the down arrow on the right to expand it.
3. Check the box next to the data set version to create a distribution policy for.



4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.
   See *Viewing distribution policies for a data set version* on page 57.
5. Click **Create Policy**, and select **By Ward**.
   The list of hospitals and wards in your health organization is displayed.
6. If necessary, use the Hospital filter to filter the displayed hospitals.
7. Check the box next to the wards to create the distribution policy for.
8. Click **Save**.
   A confirmation page is displayed.
9. Click **Confirm**.
   The distribution policy is created for the selected wards in your health organization.

5.8.6 Aborting an existing distribution policy

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set whose distribution policy is to be aborted and click the down arrow on the right to expand it.
3. Check the box next to the data set version whose distribution policy is to be aborted.

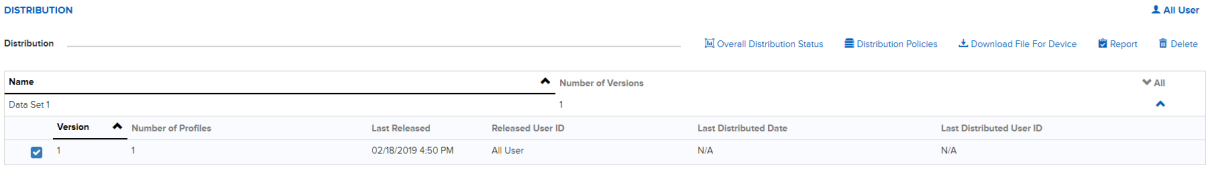


4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.
5. Identify the distribution policy to abort, and click .
   A confirmation page is displayed
6. Click **Confirm**.
   The distribution policy is aborted.

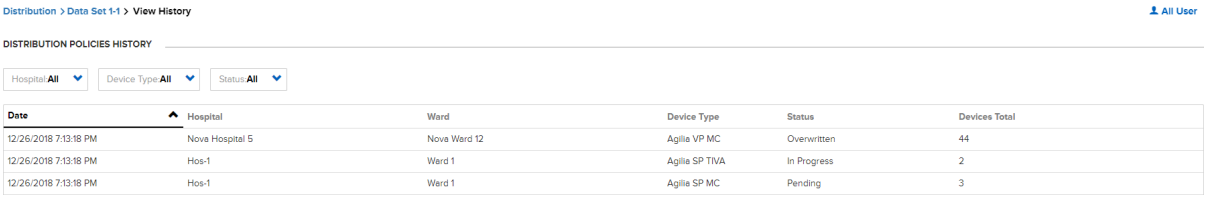
INFORMATION
Once a distribution is aborted, it becomes invalid.

5.8.7 Viewing history of distribution policies for a data set version

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set for which distribution policy history is to be viewed and click the down arrow on the right to expand it.
3. Check the box next to the data set version for which distribution policy history is to be viewed.



4. Click **Distribution Policies**.
   Valid distribution policies and information about distribution progress are displayed for the selected data set version.
5. Click **View History**.
   The distribution policies history page is displayed for the selected data set version.



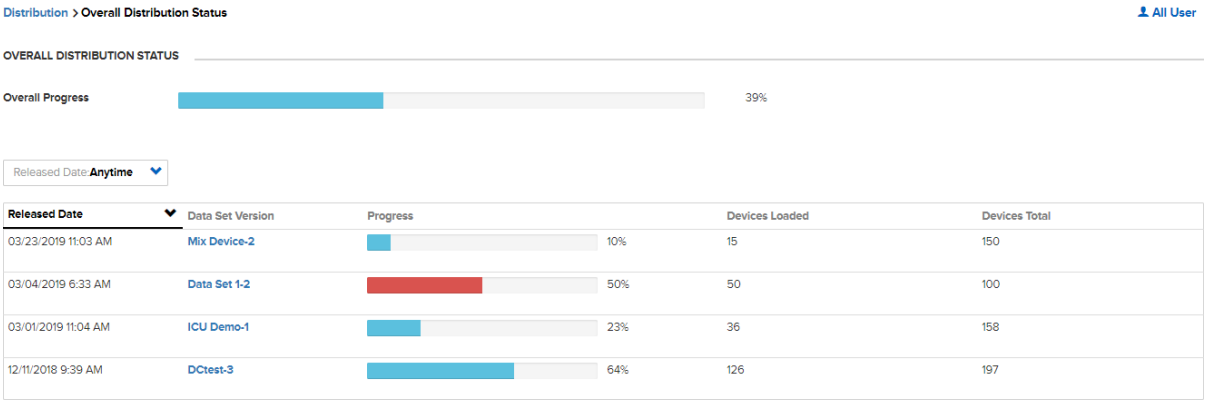
Distribution policy status	Description
Pending	Data set distribution policy has been created
In Progress	Data set distribution has started to be distributed to the impacted devices
Completed	Data set has been distributed to all devices impacted by the data set distribution policy and remains active
Aborted	Data set distribution according to the related policy has been stopped
Overwritten	The device type impacted by a policy (i.e. locations and a data set) that is overwritten by a new policy

6. If necessary, use one of the filters (Hospital, Device Type and Status) to filter displayed distribution policies history.

5.8.8 Viewing overall data set distribution status

Overall data set distribution status page shows the list of data sets with valid ditribution policies.

1. On the navigation sidebar, click **Distribution**.
2. Click **Overall Distribution Policies**.
   The overall distribution status page is displayed.



INFORMATION
The progress bar for the data set version is shown in red when all valid distribution policies have the "No Progress" status.
The overall progress bar is shown in red when all valid distribution policies in all data sets versions have the "No Progress" status.

5.8.9 Uploading a data set to a directly connected device

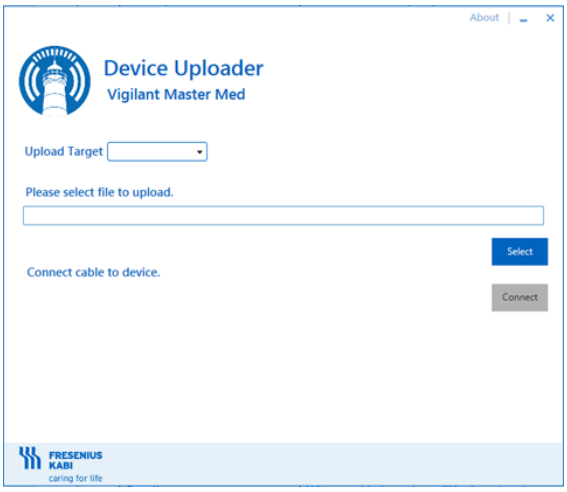
INFORMATION
The upload procedure to a directly connected pump requires the Device Uploader for Vigilant Master Med application to be installed on your PC. For more information, contact your Fresenius Kabi sales representative.

1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to be uploaded, and click the down arrow on the right to expand it.
3. Check the box next to the data set version to be uploaded.
4. Click **Download File For Device**.
   An archive file (.zip) that contains the data set information is downloaded to your PC.

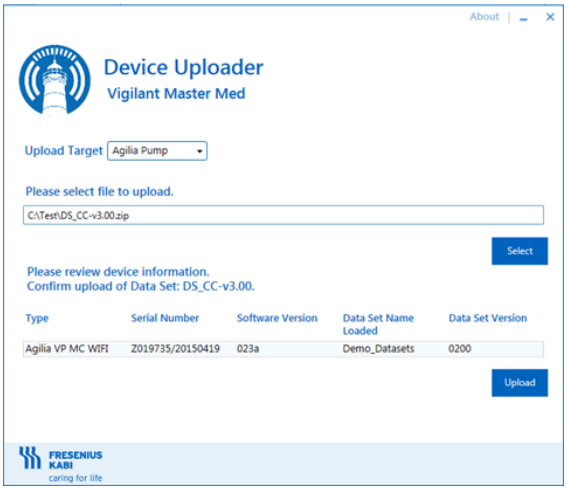
INFORMATION

To upload a data set to an Exelia Combox, you must run the Device Uploader for Vigilant Master Med as Windows administrator and have the IP address of your computer set in static. See *Setting your IP Address as static* on page 78.

5. On your computer, open the Device Uploader for Vigilant Master Med application.



6. Select the upload target from the drop-down menu (Agilia pump or Exelia Combox).
7. Click **Select**.
   A Windows explorer selection popup is displayed.
8. On your computer, select the .zip file that contains the data set you just downloaded, and click **Open**.



9. Use a compatible communication cable to connect your PC to the Agilia pump or Exelia Combox.

INFORMATION

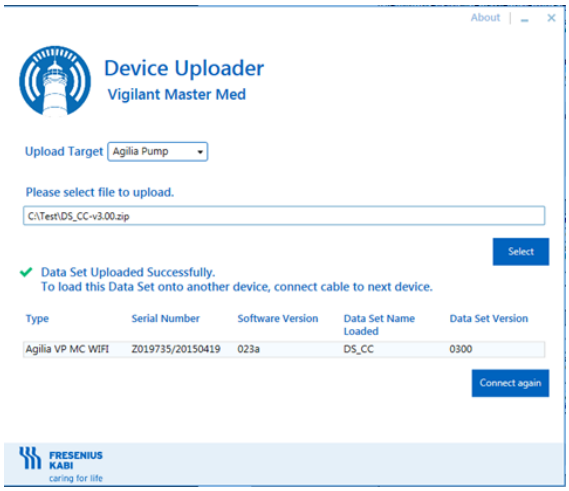
When uploading to an Agilia pump:

- Make sure the pump is plugged into an AC power supply.
- Make sure the pump is powered off.

When uploading to an Exelia Combox:

- Refer to Exelia Combox IFU.
- Make sure the association mode is activated on the Exelia Combox before connection.
- Make sure the Exelia Combox is connected to the power.
- Make sure the Exelia Combox is in operational mode.

10. Click **Connect**.
    The data set information is displayed.
11. Click **Upload**.
    The data set is uploaded to the connected device.



INFORMATION
To upload the data set onto another device, connect the cable to next device, and click **Connect again**.

5.9 Generating reports

A report is a PDF file that details the settings associated to a drug library, device configuration, profile or data set.

There are different kind of reports:

Report type	Description
Current Report	A report that shows the latest file modifications.
Report	A report that shows the details of a validated data set.
Version report	A report that only shows the latest validated file changes.

WARNING
It is mandatory to generate, save, print and store the reports of a data set and of all its associated objects (drug library, device configuration and profile) for review and approval before data set upload.

INFORMATION

- Reports are generated in the default language set by the administrator. Default language may be different than the language set on your workstation.
- Report date format (mm/dd/yyyy or dd/mm/yyyy) and time format (12 or 24-hour clock format) are based on the computer installed operating system's culture.
- The time on the reports (hh:mm) is the Vigilant Master Med Server local time.

5.9.1 Generating a drug library report

1. On the navigation sidebar, click **Drug Libraries**.
2. In the list, click the drug library to be generated as a report.
   The drug library details are displayed.
3. Click **Current Report**.
   The drug library report is generated.
4. Click **View current report** in the upper right corner of the user interface.
   The drug library report is displayed.

5.9.2 Generating a device configuration report

1. On the navigation sidebar, click **Device Configurations**.
2. In the list, click the device configuration to be generated as a report.
   The device configuration details are displayed.
3. Click **Current Report**.
   The device configuration report is displayed.

5.9.3 Generating a profile report

1. On the navigation sidebar, click **Profiles**.
2. In the list, click the profile to be generated as a report.
   The profile details are displayed.
3. Click **Current Report**.
   The profile report is generated.
4. Click **View current report** in the upper right corner of the user interface.
   The profile report is displayed.

5.9.4 Generating a validated profile report

1. On the navigation sidebar, click **Profiles**.
2. In the list, click the validated profile to be generated as a report.
   The validated profile details are displayed.
3. Click **View validated report**.
   The validated profile report is displayed.

INFORMATION
For more information on validated profiles, see *Validating a profile* on page 53.

5.9.5 Generating a data set report

1. On the navigation sidebar, click **Data Sets**.
2. In the list, click the data set to be generated as a report.
   The data set details are displayed.
3. Click **Current Report**.
   The data set current report is downloaded to your computer (.zip format)

5.9.6 Generating a pre-released data set report

1. On the navigation sidebar, click **Data Sets**.
2. In the list, click the pre-released data set to be generated as a report.
   The pre-released data set details are displayed.
3. Click **Download pre-release report**.
   The pre-released drug library report is generated.
4. Click **Download pre-release report** in the upper right corner of the user interface.
   The pre-released data set report is downloaded to your computer (.zip format)

5.9.7 Generating a released data set report

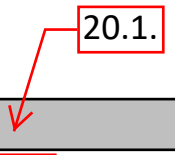
1. On the navigation sidebar, click **Distribution**.
2. Identify the data set to be generated as a report, and click the down arrow on the right to expand it.
3. Select a data set version.
4. Click **Report**.
   The released data set report is downloaded to your computer (.zip format)

6 Software rules

Overall Vigilant Master Med capacity

Entry	System capacity
Drugs & therapies	10000 (combined entries)
Drug categories	50
Drug libraries	50
Device configurations	50
Profiles	50
Data sets	50

Data set rules



Data set sub-element	Data set capacity
Drugs & therapies	1 to 3800 (combined entries)
Drug libraries / Drug list	0 or 1
Device configurations	1
Profiles	1 to 19

Profile rules

Profile sub-element	Profile capacity
Drug libraries / Drug list	0 or 1
Device configurations	1

Device configuration rules

Device configuration sub-element	Device configuration capacity
Drug X	0 or 1

Drug library

Drug library sub-element	Drug library capacity
Drugs & therapies	1 to 200 (combined entries)

Drug rules

Drug sub-element	Drug capacity
Therapies	1 to 30
Number of dilutions in a drug	0 to 20

A Glossary

AC	Alternating Current
AM	Ante Meridiem
BA	Bachelor of Arts
BS	Bachelor of Science
BSA	Body Surface Area
cal	Calorie
DBMS	DataBase Management System
DERS	Dose-Error Reduction Software
DPS	Dynamic Pressure System
FIFO	First In First Out
FK	Fresenius Kabi
h	Hours
IFU	Instructions for Use
IIS	Internet Information Services
IP	Internet Protocol
IT	Information Technology
kg	Kilograms
kPa	Kilopascals
KVO	Keep Vein Open
LED	Light-Emitting Diode
m	Minutes
mcL	Microliters
mEq	Milliequivalents
mL/h	Milliliters per hour
mmHg	Millimeters of mercury
N/A	Not Applicable
PC	Personal Computer
PDF	Portable Document Format
PM	Post Meridiem
PSI	Pounds per Square Inch
REF	Product reference / Part number
s	Seconds
SOP	Standard Operating Procedure
SP	Syringe Pump
SQL	Structured Query Language
TCP	Transmission Control Protocol
TLS	Transport Layer Security
URI	Universal Resource Identifier

USAN	United States Adopted Name
VP	Volumetric Pump
VSS	Vigilant Software Suite
VTBI	Volume To Be Infused

B Therapy settings

WARNING

- Choosing the wrong measurement unit might lead to overdose or underdose. Be sure to select the recommended measurement unit for each drug or therapy based on clinical practice.
- The measurement units available to selection depend on the selected unit for the Dilution/Concentration setting.

Setting	Programmable Range of Values
Therapy infusion mode	■ Mode: PCA Infusion | TCI | General Infusion |
Dilution / Concentration	■ Dose Unit: nanog | mcg | mg | gram | mmol | munit | unit | cal | kcal | mEq ■ Type: Fixed | Range ■ Dilution (dose): – Agilia VP range: 0.01 → 70000 (Dose unit) – Exelia VP: 0.01 → 999999 (Dose unit) – Agilia SP range: 0.01 → 70000 (Dose unit) – Exelia SP: 0.01 → 999999 (Dose unit) ■ Dilution (diluent volume): – Agilia VP range: 0.01 → 9999 mL – Exelia VP: 0.01 → 9999 mL – Agilia SP range: 0.01 → 60 mL – Exelia SP: 0.01 → 60 mL ■ Concentration: – Agilia VP range: 0.01 → 70000 (Dose unit) – Exelia VP: 0.01 → 999999 (Dose unit) – Agilia SP range: 0.01 → 70000 (Dose unit) – Exelia SP: 0.01 → 999999 (Dose unit)
Clinical messages	■ Clinical Advisory: Text (149 character max) ■ Clinical Advisory Additional Note: Text (60 character max) ■ Clinical Reminder: Text (79 character max) ■ Clinical Reminder Frequency: 00:01:00 → 24:00:00 hh:mm:ss
VP Infusion modes	■ Primary/Secondary Mode: Primary | Secondary | Both ■ Allow Infuse with Secondary Drug: Enabled | Disabled ■ Volume/Time: Enabled | Disabled ■ Volume/Rate: Enabled | Disabled ■ Time/Rate: Enabled | Disabled ■ Volume/Time/Rate: Enabled | Disabled ■ Ramp Mode: Enabled | Disabled ■ Sequential Infusion Mode: Enabled | Disabled ■ VP Default Infusion Mode: Volume/Time | Volume/Rate | Time/Rate | Volume/Time/Rate | Ramp Mode | Sequential Infusion Mode ■ Enable VP Priming: Enabled | Disabled

Setting	Programmable Range of Values
Continuous	■ Flow Rate Unit / Dose Rate Unit: – mL/h | mL/kg/min | mL/kg/h | mL/kg/24h | nanog/h | nanog/kg/min | nanog/kg/h | mcg/min | mcg/h | mcg/kg/min | mcg/kg/h | mg/min | mg/h | mg/24h | mg/kg/min | mg/kg/h | mg/kg/24h | mg/m²/h | mg/m²/24h | g/h | g/kg/min | g/kg/h | g/kg/24h | munit/kg/min | munit/kg/h | munit/min | unit/min | unit/h | unit/kg/min | unit/kg/h | kcal/h | kcal/24h | kcal/kg/h | mEq/min | mEq/h | mEq/kg/min | mEq/kg/h | mmol/h | mmol/kg/h | mmol/kg/24h – Flow Rate Unit (settings): • Agilia VP range: 0.1 → 1500 mL/h • Exelia VP: 0.1 → 1800 mL/h • Agilia SP range: 0.1 → 1200 mL/h • Exelia SP: 0.1 → 1200 mL/h – Dose Rate Unit (settings): • Agilia VP range: 0.01 → 9999 (Dose unit) • Exelia VP: 0.01 → 999999 (Dose unit) • Agilia SP range: 0.01 → 9999 (Dose unit) • Exelia SP: 0.01 → 999999 (Dose unit) ■ Dose Rate Decimals Management : 2 digits | 3 digits ■ Force Flow Rate Programming: Enabled | Disabled
Dose or volume over time	■ Disable/Enable: On | Off ■ Dose or Volume Unit: – mL | nanog | mcg | mg | g | cal | kcal | mmol | munit | unit | mEq – For dose unit: 0.01 → 9999 (Dose unit) – For unit = mL: 0.1 → 99.9 mL ■ Dose Duration: 00:01:00 → 96:00:00 hh:mm:ss ■ KVO: Enabled | Disabled ■ KVO Flow Rate: 0.1 → 5 mL/h
VTBI	■ Volume: – Agilia VP range: 0.1 → 9999 mL – Exelia VP: 0.1 → 9999 mL – Exelia SP: 0.1 → 90 mL ■ Agilia KVO: Enabled | Disabled ■ Agilia KVO Flow Rate: 1 → 20 mL/h ■ Exelia KVO: Enabled | Disabled ■ Exelia KVO Flow Rate – Exelia VP: 1 → 20 mL/h – Exelia SP: 1 → 5 mL/h
Loading dose	■ Disable/Enable: On | Off ■ Dose or Volume Unit: – mL | mL/kg | mL/m² | nanog | nanog/kg | nanog/m² | mcg | mcg/kg | mcg/m² | mg | mg/kg | mg/m² | g | g/kg | g/m² | munit | munit/kg | munit/m² | unit | unit/kg | unit/m² | cal | cal/kg | cal/m² | kcal | kcal/kg | kcal/m² | mEq | mEq/kg | mEq/m² | mmol | mmol/kg | mmol/m² – For unit = mL • Agilia VP range: 0.1 → 1000 mL • Exelia VP: 0.1 → 1000 mL • Agilia SP range: 0.1 → 99.9 mL • Exelia SP: 0.1 → 99.9 mL – For dose unit: • Agilia VP range: 0.01 → 9999 (Dose unit) • Exelia VP: 0.001 → 999999 (Dose unit) • Agilia SP range: 0.01 → 9999 (Dose unit) • Exelia SP: 0.001 → 999999 (Dose unit) ■ Duration: – Agilia VP range: 00:00:01 → 24:00:00 hh:mm:ss – Exelia VP: 00:00:01 → 02:00:00 hh:mm:ss – Agilia SP range: 00:00:01 → 24:00:00 hh:mm:ss – Exelia SP: 00:00:01 → 02:00:00 hh:mm:ss

Setting	Programmable Range of Values
Accuracy	■ Disable/Enable: On | Off ■ Exelia Flow Rate Decimals Management: 1 digit | 2 digits ■ Exelia Dose Rate Decimals Management: 2 digits | 3 digits
Programmed bolus	■ Disable/Enable: On | Off ■ Dose or Volume Unit: – mL | mL/kg | mL/m² | nanog | nanog/kg | nanog/m² | mcg | mcg/kg | mcg/m² | mg | mg/kg | mg/m² | g | g/kg | g/m² | munit | munit/kg | munit/m² | unit | unit/kg | unit/m² | cal | cal/kg | cal/m² | kcal | kcal/kg | kcal/m² | mEq | mEq/kg | mEq/m² | mmol | mmol/kg | mmol/m² – For unit = mL • Agilia VP range: 0.1 → 1000 mL • Exelia VP: 0.1 → 1000 mL • Agilia SP range: 0.1 → 99.9 mL • Exelia SP: 0.1 → 99.9 mL – For dose unit: • Agilia VP range: 0.01 → 9999 (Dose unit) • Exelia VP: 0.001 → 999999 (Dose unit) • Agilia SP range: 0.01 → 9999 (Dose unit) • Exelia SP: 0.001 → 999999 (Dose unit) ■ Duration: – Agilia VP range: 00:00:01 → 24:00:00 hh:mm:ss – Exelia VP: 00:00:01 → 02:00:00 hh:mm:ss – Agilia SP range: 00:00:01 → 24:00:00 hh:mm:ss – Exelia SP: 00:00:01 → 02:00:00 hh:mm:ss
Direct bolus	■ Disable/Enable: On | Off ■ Flow Rate: – Agilia VP range: 50 → 1500 mL/h – Exelia VP: 50 → 1800 mL/h – Agilia SP range: 50 → 1200 mL/h – Exelia SP: 10 → 1200 mL/h ■ Max Volume: 0.1 → 60 mL
Ramp	■ Total Volume To Be Infused (VTBI): 0.1 → 9999 mL ■ Ramp Up Duration: 00:01:00 → 06:00:00 hh:mm:ss ■ Plateau Flow Rate: 2 → 1500 mL/h ■ Ramp Down Duration: 00:01:00 → 06:00:00 hh:mm:ss ■ Total Duration: N/A (calculated)
Sequential infusion mode	■ Sequence {0} Type: Volume/Rate | Pause | KVO | Repeat | End ■ Volume/Rate – VTBI: : 0.1 → 9999 mL – Rate: : 0.1 → 1500 mL/h – Beep?: Enabled | Disabled ■ Pause – Pause Duration: 00:01:00 → 96:00:00 hh:mm:ss – Beep?: Enabled | Disabled ■ KVO – Pause Duration: 00:01:00 → 96:00:00 hh:mm:ss – Beep?: Enabled | Disabled
Air-in-line	■ Disable/Enable: On | Off ■ Total Air Volume over 15 minutes: 10 → 2000 mcL ■ Bubble Filter: 0 → 250 mcL

Setting	Programmable Range of Values
Pressure management	■ Disable/Enable: On | Off ■ Pressure Mode: 3 Levels | Variable | Automatic ■ 3 Levels: – Low limit: 50 → 300 mmHg – Medium limit: 150 → 600 mmHg – High limit: • Agilia VP range: 250 → 750 mmHg • Exelia VP: 250 → 900 mmHg • Agilia SP range: 250 → 900 mmHg • Exelia SP: 250 → 900 mmHg ■ Variable: – Variable: • Agilia VP range: 50 → 750 mmHg • Exelia VP: 50 → 750 mmHg • Agilia SP range: 50 → 900 mmHg • Exelia SP: 50 → 900 mmHg – Max Hard Limit: • Agilia VP range: 300 → 750 mmHg • Agilia SP range: 450 → 900 mmHg
Therapy near end alert	■ Near End of Infusion Alert: Disable Near End of Infusion Alert(s) | Use the Setting(s) in Device Configuration
Exelia VP secondary mode	■ Allow Infuse with Secondary Drug: Enabled | Disabled
Drop sensor	■ Disable/Enable: On | Off ■ Drop Sensor Mandatory: Enabled | Disabled ■ Drop Volume: 15 → 120 mcL
PCA delivery modes	■ PCA Bolus Only: Enabled | Disabled ■ PCA Bolus + Continuous: Enabled | Disabled ■ PCA Bolus + Variable Rates: Enabled | Disabled ■ Continuous Only: Enabled | Disabled ■ Default Mode: PCA Bolus Only | PCA Bolus + Continuous | PCA Bolus + Variable Rates | Continuous Only ■ Clinician Bolus: Enabled | Disabled ■ PCA Loading Dose: Enabled | Disabled
PCA bolus	■ Volume Unit / Dose Unit: mL | mL/kg | mL/m² | nanog | nanog/kg | nanog/m² | mcg | mcg/kg | mcg/m² | mg | mg/kg | mg/m² | g | g/kg | g/m² | munit | munit/kg | munit/m² | unit | unit/kg | unit/m² | cal | cal/kg | cal/m² | kcal | kcal/kg | kcal/m² | mEq | mEq/kg | mEq/m² | mmol | mmol/kg | mmol/m² – For unit = mL: 0.1 → 99.9 mL – For dose unit: 0.01 → 9999 mL ■ PCA Bolus Flow Rate: 50 → 1200 mL/h ■ PCA Bolus Lockout Time: 00:01:00 → 02:00:00 hh:mm:ss
Variable rates	■ Flow Rate Unit / Dose Rate Unit: mL/h | mL/kg/min | mL/kg/h | mL/kg/24h | nanog/h | nanog/kg/min | nanog/kg/h | mcg/min | mcg/h | mcg/kg/min | mcg/kg/h | mg/min | mg/h | mg/24h | mg/kg/min | mg/kg/h | mg/kg/24h | mg/m²/h | mg/m²/24h | g/h | g/kg/min | g/kg/h | g/kg/24h | munit/kg/min | munit/kg/h | munit/min | unit/min | unit/h | unit/kg/min | unit/kg/h | kcal/h | kcal/24h | kcal/kg/h | mEq/min | mEq/h | mEq/kg/min | mEq/kg/h | mmol/h | mmol/kg/h | mmol/kg/24h – For unit = mL: 0.1 → 1200 mL/h – For dose unit: 0.01 → 9999 (Dose unit) – Start Time: 00:00 → 23:59 hh:mm
Clinician bolus	■ Volume Unit / Dose Unit: mL | mL/kg | mL/m² | nanog | nanog/kg | nanog/m² | mcg | mcg/kg | mcg/m² | mg | mg/kg | mg/m² | g | g/kg | g/m² | munit | munit/kg | munit/m² | unit | unit/kg | unit/m² | cal | cal/kg | cal/m² | kcal | kcal/kg | kcal/m² | mEq | mEq/kg | mEq/m² | mmol | mmol/kg | mmol/m² – For unit = mL: 0.1 → 99.9 mL – For dose unit: 0.01 → 9999 mL ■ PCA Bolus Flow Rate: 50 → 1200 mL/h

Setting	Programmable Range of Values
Cumulated limits	■ Duration: 1 hour | 2 hours | 4 hours | 8 hours | 12 hours | 24 hours ■ Maximum Cumulated Volume per {0}: – Enable Alert on Device Startup: Enabled | Disabled – Allow User Option to Enable/Disable Alert: Enabled | Disabled – Default & Maximum: • For unit = mL: 1 → 400 mL/duration • For dose unit: 1 → 9600 Dose unit/duration ■ Maximum Number of PCA Bolus per {0}: – Enable Alert on Device Startup: Enabled | Disabled – Allow User Option to Enable/Disable Alert: Enabled | Disabled – Default & Maximum: 1 → 1200 /duration
TCI model	■ TCI Model: Schnider | Kataria | Paedfusor | Scott | Gepts | Minto | Marsh 1.21 | Marsh 0.26 (depends on the TCI drug) ■ Plasma: Enabled | Disabled ■ Effect: Enabled | Disabled
TCI view	■ TCI View: Enabled | Disabled
Concentration target	■ Target Plasma Concentration (Cpt) and/or Target Effect-site Concentration (Cet) : – For TCI model = Marsh | Schnider: 0.01 → 15 mcg/mL – For TCI model = Kataria | Paedfusor: 0.01 → 10 mcg/mL – For TCI model = Scott: 0.01 → 500 nanog/mL – For TCI model = Gepts: 0.01 → 3 mcg/mL – For TCI model = Minto: 0.01 → 20 mcg/mL ■ Wake up Concentration: Same as Target Plasma Concentration (Cpt) and/or Target Effect-site Concentration (Cet) ■ Max Flow Rate: 0.1 → 1200 mL/h
Induction	■ Induction Duration: 00:01:00 → 01:00:00 hh:mm:ss
Plasma concentration limit	■ Maximum Plasma Concentration: – For TCI model = Marsh: 0.01 → 50 mcg/mL – For TCI model = Schnider: 0.01 → 30 mcg/mL – For TCI model = Scott: 0.01 → 500 nanog/mL – For TCI model = Gepts: 0.01 → 3 mcg/mL – For TCI model = Minto: 0.01 → 20 mcg/mL
TCI patient parameters	■ Patient Age: – For TCI model = Schnider | Scott | Gepts | Minto | Marsh 1.21 | Marsh 0.26: 15 → 100 years – For TCI model = Kataria | Paedfusor: 1 → 16 years ■ Patient Weight: – For TCI model = Schnider | Scott | Gepts | Minto | Marsh 1.21 | Marsh 0.26: 30 → 200 kg – For TCI model = Kataria | Paedfusor: 5 → 60 kg

C Device configuration settings

Pressure management

Setting	Programmable Range of Values	Default Value
Pressure Mode	3 Levels | Variable | Automatic threshold	3 Levels
3 Levels - Low limit	50 → 300 mmHg	200 mmHg
3 Levels - Medium limit	150 → 600 mmHg	450 mmHg
3 Levels - High limit	■ Agilia VP range: 250 → 750 mmHg ■ Exelia VP: 250 → 900 mmHg ■ Agilia SP range: 250 → 900 mmHg ■ Exelia SP: 250 → 900 mmHg	550 mmHg
Variable - Default	■ Agilia VP range: 50 → 750 mmHg ■ Exelia VP: 50 → 900 mmHg ■ Agilia SP range: 50 → 900 mmHg ■ Exelia SP: 50 → 900 mmHg	450 mmHg
Variable - Max Hard Limit	■ Agilia VP range: 300 → 750 mmHg ■ Exelia VP: 450 → 900 mmHg ■ Agilia SP range: 450 → 900 mmHg ■ Exelia SP: 450 → 900 mmHg	750 mmHg
Save Pressure Limit Settings	Enabled | Disabled	Disabled
Pressure Unit	mmHg | kPa | PSI	mmHg
Save DPS Setting	Enabled | Disabled	Disabled
Dynamic Pressure System (DPS) Setting	Enabled | Disabled	Enabled
DPS Raise Threshold	50 → 400 mmHg	200 mmHg
DPS Drop Threshold	Enabled | Disabled	Disabled
DPS Drop Threshold	100 → 400 mmHg	200 mmHg
Auto Restart After Occlusion: Allow User Option to Enable/Disable Alert	Enabled | Disabled	Disabled
Enable Alert on Device Startup	Enabled | Disabled	Disabled
Sliding Duration for Number of Restarts	00:01:00 → 05:00:00 hh:mm:ss	N/A
Maximum Number of Auto Restarts	1 → 10	N/A
Maximum Low Pressure Duration Before Auto Restart	00:00:05 → 00:00:30 hh:mm:ss	N/A
Infusion Restart Threshold	25 → 500 mmHg	N/A
Maximum Low Pressure Duration Before Auto Restart	25 → 500 mmHg	N/A
Maximum Flow Rate for Disabling Auto Restart	■ Agilia VP: 0.1 → 1200 mL/h ■ Agilia VP MC: 0.1 → 1500 mL/h	N/A

Air-in-line

Setting	Programmable Range of Values	Default Value
Total Air Volume over 15 minutes	10 → 2000 mcL	250 mcL
Bubble Filter	0 → 250 mcL	50 mcL
Advance Air Bubble	Enabled | Disabled	Disabled

End of infusion

Setting	Programmable Range of Values	Default Value
Silence Key Duration	00:01:00 → 12:00:00 hh:mm:ss	00:05:00 hh:mm:ss
VP Near End of Infusion Alert Duration	Enabled | Disabled	Disabled
Alert Duration	00:01:00 → 00:30:00 hh:mm:ss	00:05:00 hh:mm:ss
VP Near End of Infusion Alert Volume	Enabled | Disabled	Disabled
Alert Volume	1 → 50 mL	N/A
Inhibition of VP Near End of Infusion Alert for Drop Sensor	Enabled | Disabled	Enabled
SP Near End of Infusion Alert Duration	00:01:00 → 00:30:00 hh:mm:ss	00:05:00 hh:mm:ss
Secondary Mode Management	Automatic | Manual	Automatic
End of Secondary Infusion Alarm	Enabled | Disabled	Disabled
VP KVO	Enabled | Disabled	Disabled
VP KVO Flow Rate	■ Agilia VP range: 1 → 20 mL/h ■ Exelia VP: 0.1 → 20 mL/h	N/A
SP KVO	Enabled | Disabled	Disabled
SP KVO Flow Rate	0.1 → 5 mL/h	N/A
SP Continuous Instead of KVO Option	Enabled | Disabled	Disabled
Empty Syringe Mode	Enabled | Disabled	Disabled

Device general definition

Setting	Programmable Range of Values	Default Value
Flow Rate Decimals Management	1 digit | 2 digits	1 digit
Exelia Flow Rate Decimals Management	1 digit | 2 digits	1 digit
Exelia Dose Rate Decimals Management	2 digits | 3 digits	2 digits
Rate Titration Mode	While stopped and during infusion | Only while stopped	While stopped and during infusion
Enable VP Priming	Disabled | Enabled	Disabled
Enable SP Priming	Not displayed | Advised | Mandatory	Not displayed
Key Press Sound	On | Off	On
Alarm Volume	1 (Low) → 7 (High)	4
Display Infusion Duration Remaining	Enabled | Disabled	Enabled

Night mode

Setting	Programmable Range of Values	Default Value
Manual Mode	Enabled | Disabled	Enabled
Auto Mode	Enabled | Disabled	Enabled
Time Frame	12:00 AM → 11:59 PM	7:00 PM → 7:00 AM
Screen Brightness	Low | High	Low
Infusion Indicator Brightness	Low | High	Low
Key Press Sound Muted	Enabled | Disabled	Enabled

Drug X

Setting	Programmable Range of Values	Default Value
Drug X in Flow Rate	Enabled | Disabled	Disabled
Drug X in Dose Rate	Enabled | Disabled	Disabled
Drug X position on Drug List	Top | Bottom	Bottom

Infusion modes

Setting	Programmable Range of Values	Default Value
Dose/Dose Rate within Modes	Enabled | Disabled	Enabled
Loading Dose	Enabled | Disabled	Enabled
Programmed Bolus	Enabled | Disabled	Enabled
Direct Bolus	Enabled | Disabled	Enabled
Dose or Volume/Time	Enabled | Disabled	Enabled
Volume Limit	Enabled | Disabled	Enabled
Save VP infusion mode	Enabled | Disabled	Enabled
Volume/Time	Enabled | Disabled	Enabled
Volume/Rate	Enabled | Disabled	Enabled
Time/Rate	Enabled | Disabled	Enabled
Volume/Time/Rate	Enabled | Disabled	Enabled
Rate	Enabled | Disabled	Enabled
Drop/min	Enabled | Disabled	Enabled
Ramp Mode	Enabled | Disabled	Enabled
Sequential Infusion Mode	Enabled | Disabled	Enabled
PCA Generic	Enabled | Disabled	Enabled
PCA Infusion	Enabled | Disabled	Enabled
Save PCA infusion mode	Enabled | Disabled	Enabled
PCA Default Infusion Mode	PCA Bolus Only | PCA Bolus + Continuous | PCA Bolus + Variable Rates | Continuous Only	PCA Bolus + Continuous
PCA Bolus Only	Enabled | Disabled	Enabled
PCA Bolus + Continuous	Enabled | Disabled	Enabled
PCA Bolus + Variable Rates	Enabled | Disabled	Enabled
Continuous Only	Enabled | Disabled	Enabled
Clinician Bolus	Enabled | Disabled	Enabled
PCA Loading Dose	Enabled | Disabled	Enabled

Infusion options

Setting	Programmable Range of Values	Default Value
VP Flow Rate Max Hard Limit in Primary Mode	■ Agilia VP: 50 → 1200 mL/h ■ Agilia VP MC: 50 → 1500 mL/h ■ Exelia VP: 50 → 1800 mL/h	N/A
VP Flow Rate Max Hard Limit in Secondary Mode	50 → 1000 mL/h	N/A

Setting	Programmable Range of Values	Default Value
Syringe Flow Rate Max Hard Limit	■ 1mL: 0.1→ 30 mL/h ■ 2mL: 0.1→ 120 mL/h ■ 3mL: 0.1→ 120 mL/h ■ 5mL: 0.1→ 250 mL/h ■ 10mL: 0.1→ 350 mL/h ■ 20mL: 0.1→ 600 mL/h ■ 30mL: 0.1→ 600 mL/h ■ 50mL: 0.1→ 1200 mL/h	■ 1mL: 30 mL/h ■ 2mL: 120 mL/h ■ 3mL: 120 mL/h ■ 5mL: 60 mL/h ■ 10mL: 60 mL/h ■ 20mL: 120 mL/h ■ 30mL: 120 mL/h ■ 50mL: 200 mL/h

Bolus and loading dose

Setting	Programmable Range of Values	Default Value
mL authorized	Enabled | Disabled	Enabled
Direct Bolus VP Flow Rate Limit	■ Agilia VP: 50 → 1200 mL/h ■ Agilia VP MC: 50 → 1500 mL/h ■ Exelia VP: 50 → 1800 mL/h	N/A
Direct Bolus Syringe Flow Rate Limit	■ 1mL: 10→ 30 mL/h ■ 2mL: 10→ 60 mL/h ■ 3mL: 10→ 60 mL/h ■ 5mL: 50→ 250 mL/h ■ 10mL: 50→ 350 mL/h ■ 20mL: 50→ 600 mL/h ■ 30mL: 50→ 600 mL/h ■ 50mL: 50→ 1200 mL/h	■ 1mL: 30 mL/h ■ 2mL: 120 mL/h ■ 3mL: 120 mL/h ■ 5mL: 60 mL/h ■ 10mL: 60 mL/h ■ 20mL: 120 mL/h ■ 30mL: 120 mL/h ■ 50mL: 200 mL/h
Programmed Bolus and Loading Dose VP Flow Rate Max Hard Limit	■ Agilia VP range: 50 → 1500 mL/h ■ Exelia VP: 50 → 1800 mL/h	1000 mL/h
PCA Bolus and Clinician Bolus Syringe Flow Rate Max Hard Limit	■ 5mL: 50→ 250 mL/h ■ 10mL: 50→ 350 mL/h ■ 20mL: 50→ 600 mL/h ■ 30mL: 50→ 600 mL/h ■ 50mL: 50→ 1200 mL/h	■ 5mL: 60 mL/h ■ 10mL: 60 mL/h ■ 20mL: 120 mL/h ■ 30mL: 120 mL/h ■ 50mL: 200 mL/h

Menu items

Setting	Programmable Range of Values	Default Value
View Event Log	Enabled | Disabled	Enabled
Sound Level	Enabled | Disabled	Enabled
Data Set	Enabled | Disabled	Enabled
Current Profile	Enabled | Disabled	Enabled
Pause	Enabled | Disabled	Enabled
Infusion Mode	Enabled | Disabled	Enabled
View Flow Rate History	Enabled | Disabled	Disabled
Call Back Alert	Enabled | Disabled	Disabled
View Pressure History	Enabled | Disabled	Disabled
Drug Change	Enabled | Disabled	Disabled
Infused Volume History	Enabled | Disabled	Enabled
Syringe Name	Enabled | Disabled	Enabled

Screen and keyboards items

Setting	Programmable Range of Values	Default Value
Pressure Icon	Enabled | Disabled	Enabled
Battery Indicator	Enabled | Disabled	Enabled
Enable Auto Keypad Lock on Device Startup	Enabled | Disabled	Disabled
Allow User Option to Enable/Disable Auto Keypad Lock	Enabled | Disabled	Disabled
Auto Keypad Lock Delay	■ Agilia VP range: 00:00:15 → 00:01:00 hh:mm:ss ■ Exelia VP: 00:00:15 → 00:10:00 hh:mm:ss ■ Agilia SP range: 00:00:15 → 00:01:00 hh:mm:ss ■ Exelia SP: 00:00:15 → 00:10:00 hh:mm:ss	00:00:30 hh:mm:ss
Same Infusion screen	Enabled | Disabled	Enabled
Same Infusion Duration	01:00:00 → 24:00:00 hh:mm:ss	10:00:00 hh:mm:ss
PCA Mandatory Code For Unlock	Enabled | Disabled	Enabled
PCA Cover - Mandatory	PCA Infusion: Enabled | Disabled	PCA Infusion: Disabled
PCA Cover- Optional Lock	PCA Infusion: Enabled | Disabled	PCA Infusion: Disabled
PCA Cover - Auto Keypad Lock	■ General Infusion: Enabled | Disabled ■ PCA Infusion: Enabled | Disabled	■ General Infusion: Disabled ■ PCA Infusion: Enabled
PCA Cover - Auto Keypad Unlock	■ General Infusion: Enabled | Disabled ■ PCA Infusion: Enabled | Disabled	■ General Infusion: Disabled ■ PCA Infusion: Disabled

Drop sensor

Setting	Programmable Range of Values	Default Value
Drop Sensor Mandatory	Enabled | Disabled	Disabled
Drop Sensor Mandatory During Primary/Secondary Mode	None | Both | Only on Primary	Both
Drop Sensor Forces Simple Rate Mode	Enabled | Disabled	Disabled

PCA treatment

Setting	Programmable Range of Values	Default Value
Hide PCA Bolus Availability	Enabled | Disabled	Disabled
Hide PCA Bolus Lockout Time	Enabled | Disabled	Disabled
Treatment Modification forbidden after Start	Enabled | Disabled	Disabled
Automatic Mass Flow Unit Generation	Enabled | Disabled	Enabled
Handset Press Sound	Enabled | Disabled	Enabled
Handset Press Infusion Indicator	Enabled | Disabled	Enabled
Near Maximum Cumulative Dose Alert	1 → 15 %	10 %

Therapy manager

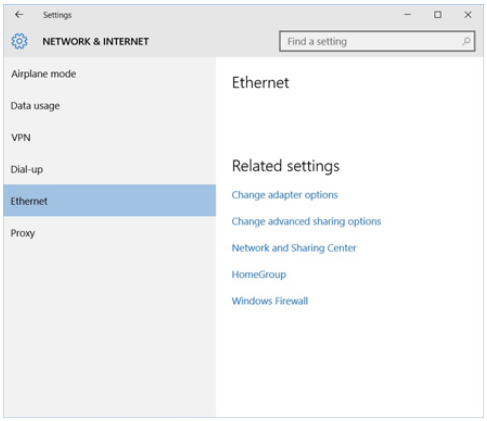
Setting	Programmable Range of Values	Default Value
TCI	Enabled | Disabled	Disabled
TCI Interactions	Enabled | Disabled	Disabled

Setting	Programmable Range of Values	Default Value
TCI Switch	Enabled | Disabled	Disabled
Channel Relay	Enabled | Disabled	Enabled
Allow Relay Dilution Change	Enabled | Disabled	Enabled
Imminent Relay Alarm	Enabled | Disabled	Enabled
Imminent Relay Alarm Duration	00:01:00 → 00:20:00 hh:mm:ss	00:10:00 hh:mm:ss

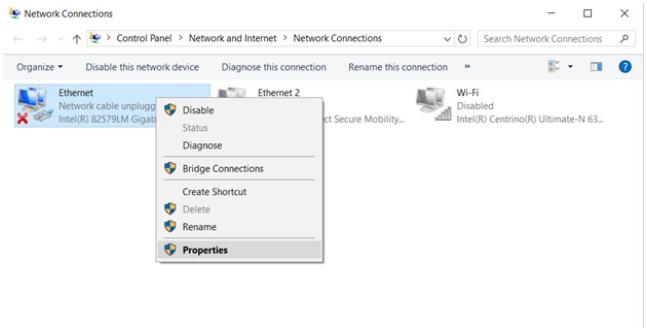
D Setting your IP Address as static

This procedure explains how to set up a static IP address on your computer. You must perform this procedure before uploading a data set to an Exelia Combox.

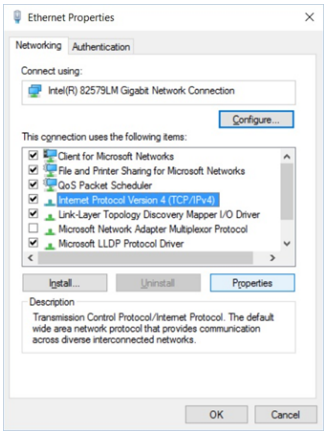
1. On your computer, go to **Settings** > **Ethernet** > **Change adapter options**.



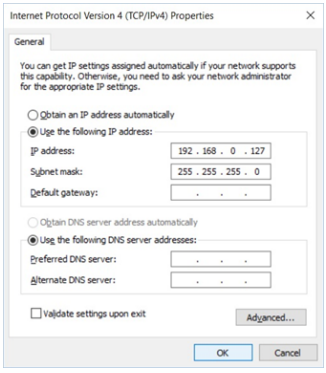
2. Find the Ethernet item, then right-click and select **Properties**.



3. In the connection list, highlight **Internet Protocol Version 4 (TCP/Ipv4)**, then click **Properties**.

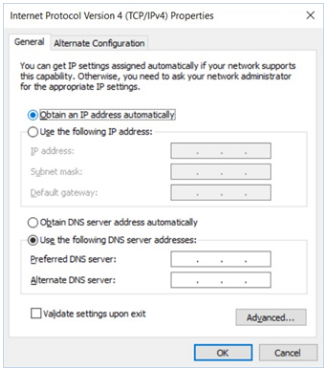


4. Click **Use the following IP address**.
5. Enter the following information:
   - IP address: `192.168.0.127`
   - Subnet mask: `255.255.255.0`



6. Click **OK**.
   The IP address is set up as static.

After the data set upload to an Exelia Combox is complete, repeat steps *1* to *3* to open the **Internet Protocol Version 4 (TCP/Ipv4)** window, then select **Obtain an IP address automatically** and click **OK**.



Index

Additional information

Date	Vigilant Software Suite software version	Description
07/2019	1.0	Creation

CE 0123

First CE Mark: August 2019

Made in France

Rx only

Also see the software Release Notes for additional information.

Tel.: +49 (0) 61 72 / 686-0

www.fresenius-kabi.com

Local contacts for servicing

FRESENIUS KABI
caring for life

Fresenius Kabi AG
61346 Bad Homburg
Germany

Fresenius Vial S.A.S
Le Grand Chemin
38590 Brézins - France