

Codonics® Safe Label System® Administration Tool Software

Release Notes

Version 3.3.0 Safe Label System Administration Tool Release Notes

Summary

Version 3.3.0 is a software release for the Codonics Safe Label System® (SLS) Administration Tool (AT). The software is compatible with SLS Point of Care Stations (PCS) installed with 3.3.0 software. As of this release, this version of software is considered the most current, stable, safe and effective version for SLS PCS.

This document provides information about New Features (i.e., Adaptive Updates), Product Improvements (i.e., Perfective Updates) and Product Corrections (i.e., Corrective Updates) in 3.3.0 SLS AT software.

NOTE: The AT Server application provides all the same capabilities as the previous AT Stand-alone application. As of 2.5.0, the AT Stand-alone application is no longer supported.

WARNING: If you're using WIN 10 as your computer's operating system to run the AT, pay careful attention to uninstalling previous versions (prior to 2.5.0) of the AT. WIN 10 can inadvertently uninstall the current version (i.e., 2.5.0) of the AT. Contact Codonics Tech Support with questions about the correct process.

The SLS AT User's Manual version 1.3.0 and User's Manual Addendum 1.8.0 provides further information about the AT.

Recommended - Requirements for AT Server:

Processor: Core i7-11700K / Xeon E-2336

RAM: 8 GB for application.

Application Disk Space: 100 GB total at install.

Minimum - Requirements for AT Server:

Processor: Core i7-4790K / Xeon E3-1286 v3

RAM: 6GB for application.

Application Disk Space: 10 GB total at install.

Additional Information for AT Server:

Computer OS: Windows® 10 and 11, Windows Server 2016, 2019 or 2022. 64-bit required.

Concurrent access: Not supported.

Notes:

- ◆ For best performance hosting the SLS AT data directory, use a locally attached SSD or high speed RAID.
- ◆ When running the SLS AT on a Virtual Machine (VM), allocate at least two CPU cores to the VM.
- ◆ When running more than one instance of the SLS AT on the same hosting system, increase the system RAM by at least 3 GB for each additional instance.
- ◆ Both configurations shown are sufficient for running the SLS Email Notifier (EN) on the same system hosting the SLS AT.

Recommended requirements for AT Client:

Browser support: Edge, Chrome.

Screen Resolution: Minimum 1440 x 900; use default browser fonts.

Computer OS: Windows 11.

Applications: Excel 2007 or newer to open reports.

New Features

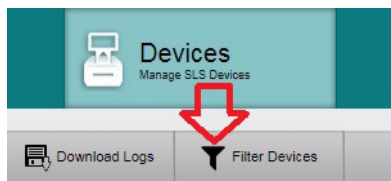
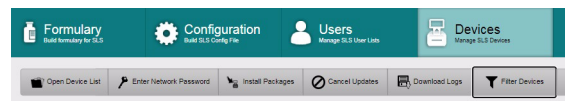
- ◆ **Provided capability to filter and group devices in the AT Device Manager (AT-DM).** This provides the ability to filter SLS PCs together by sites or hospital locations allowing users to view and work with the units installed at specific locations. The format for grouping devices in the MDL is IP Address, Hostname, Group name (e.g., 10.1.135.16, OR1, Main Campus).

Clicking on the Filter Devices icon (see picture below)

will open up a Device Group filter to select specific

Groups, All or None.

Device ID	Device Group	Device Status	Install Status	User Name	User ID
OR-1	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-002		
OR-2	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-003		
OR-3	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-004		
OR-4	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-005		
OR-5	Main Campus	Offline	OK: SLS-PCFORMULARY-UP-006		
OR-6	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-007		
OR-7	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-008		
OR-8	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-009		
OR-9	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-010		
OR-10	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-011		
OR-11	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-012		
OR-12	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-013		
OR-13	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-014		
OR-14	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-015		
OR-15	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-016		
OR-16	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-017		



A Device Group interface will open and you can select which groups you want to select.



When you select Save, the Device Manager will display the devices from the Group(s) you have selected.

SLS Device	Device Group	Device Status	Install Status	User Name	User ID
OR-1	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-002		
OR-2	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-003		
OR-3	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-004		
OR-4	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-005		
OR-5	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-006		
OR-6	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-007		
OR-7	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-008		
OR-8	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-009		
OR-9	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-010		
OR-10	Main Campus	Ready	OK: SLS-PCFORMULARY-UP-011		
OR-11	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-012		
OR-12	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-013		
OR-13	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-014		
OR-14	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-015		
OR-15	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-016		
OR-16	Ridge Rd Site	Ready	OK: SLS-PCFORMULARY-UP-017		

WARNING: When deploying Formulary and Configuration packages, make sure that you are selecting and sending the intended package(s) to the intended SLS PCs.

NOTE: If an SLS PCS is moved from one location to another at your site (e.g., swapping for an SLS PCS not working), remember to update the Group name for the unit if required.

- ◆ **Provided capability to filter and group Drug Not Found (i.e., DNF) by device groups.** This provides the ability to filter DNFs together by sites or hospital locations allowing users to investigate DNFs at specific locations or SLS PCs.

Clicking on the filter icon (see picture below) in the DNF tab will open up a Filter Devices, Device Group filter to select specific Groups, All or None.

When you select Save, the Device Manager will display the DNFs from the Group(s) you have selected.

Master Drug Database	Formulary	Configuration	Users	Devices
42900	Build formulary for SLS	Build SLS Config File	Manage SLS User List	Manage SLS Devices
SLS Drug Found Events	Learn Drugs	Verify Drugs	Create Report	Undo
12619	01/15/2025 13:21	Formulary Package	Drug Name	Master ID
DNF Drug Not Found Events	01/15/2024 14:23	MEMLEAK-1		2234567890
208				0409318231

You can then select a DNF entry and choose the information i button to the right to gather further information.

Drug Not Found Information									
Master ID:									
Container ID:	2234567890								
Name:									
Tallman:									
Concentration:									
Route:									
Status:									
Event Created:	01/15/2025 13:19								
Events (4)									
Date/Time	Event Type	Details	Event 1	User Name	User Init	Formulary	SLS Device	Device Group	IP Address
01/15/2025 13:21	DRUG_NOT_FOUND	CID = 2234567890 Formulary: UP-2	191	Q	Q	UP-2	OR-10	Main Campus	10.1.132.11
01/15/2025 13:20	DRUG_NOT_FOUND	CID = 2234567890 Formulary: UP-2	114	Q	Q	UP-2	RDR-6	Ridge Rd Site	10.1.136.12
01/15/2025 13:19	DRUG_NOT_FOUND	CID = 2234567890 Formulary: UP-2	194	D	d	UP-2	OR-2	Main Campus	10.1.133.36
01/15/2025 13:19	DRUG_NOT_FOUND	CID = 2234567890 Formulary: UP-2	119	Q	Q	UP-2	RDR-1	Ridge Rd Site	10.1.134.84

- ◆ **Provided capability to filter and group Verifications by device groups.** This provides the ability to filter Verifications together by sites or hospital locations allowing users to investigate Verifications on specific locations or SLSs.

Clicking on the filter icon (see picture below) in the Verifications tab will open up a Filter Devices, Device Group filter to select specific Groups, All or None.

When you select Save, the Device Manager will display the Verifications from the Group(s) you have selected.

Master Drug Database	Formulary	Configuration	Users	Devices
42900	Build formulary for SLS	Build SLS Config File	Manage SLS User List	Manage SLS Devices
SLS Drug Found Events	Learn Drugs	Verify Drugs	Create Report	Undo
12619	01/15/2025 13:21	Formulary	Drug Name	Master ID
DNF Drug Not Found Events	01/15/2025 13:21	UP-2	naloxone	00409121501
208	01/15/2025 13:18	UP-2	fentanyl	00409909425
402	01/15/2025 13:17	UP-2	glycopyrrolate	00517460525
	01/15/2025 13:17	UP-2	glycopyrrolate	00517460525

You can then select a Verification entry and choose the information i button to the right to gather further information.

Verification Event Information									
Master ID:	00409909425								
Container ID:	0409909425								
Name:	fentanyl								
Tallman:	fentanyl								
Concentration:	50 mcg/mL								
Route:	intrathecal								
Status:	ACTIVE								
Event Created:	01/15/2025 13:17								
Events (4)									
Date/Time	Event Type	Details	Event 1	User Name	User Init	Formulary	SLS Device	Device Group	IP Address
01/15/2025 13:21	VERIFIED	CID = 0409909425 Drug Verification: 1 Name: fentanyl Concentration: 50 Formulary: UP-2	182	Q	Q	UP-2	OR-10	Main Campus	10.1.132.11

Product Improvements

- ◆ The AT now automatically attempts resuming/retrying failed package transfers. This is very helpful if a site is having network connectivity issues. If a package fails to install, either initially or after it has initiated transferring, the AT will perform a retry/resume operation to attempt that the package can be fully transferred to the SLS.

NOTE: The overall transfer time may seem longer than previous releases. However, that could be because the AT is retrying to send a package. Previously, the package would have failed to transfer and you may have been alerted sooner. Now the system is more likely to have successful transfers.

- ◆ The current Master Device List (i.e., MDL) file is now included in the AT Backup. This information will now help troubleshoot SLS issues. For example, including the MDL assists in associating SLS logs with the device name.
- ◆ The AT supports new drug names. The drug names are Baclofen and Perflutren Protein Type A.
- ◆ The AT supports a new number. The new number is 0.22.

Product Corrections

- ◆ AT-DM information screen shows blank events for an SLS PCS. This was corrected and information is now properly displayed in the information screen.
- ◆ Cancelling a multipackage deployed to multiple SLS PCS units could cause units to become stuck in the Preparing state. If a user queued a multipackage to multiple devices, cancelling the process on one unit while the package is still being built (Preparing stage) causes the other unit to be stuck in the Preparing stage forever.

Known Common Issues

This section details common issues with 3.3.0 AT software that are likely to be experienced by most users. These issues are specific to the current release; previous issues can be found in previous Release Notes. None of the issues included in the document are considered to render the product unsafe or ineffective for clinical use.

- ◆ **WARNING:** The formulary report does not sort duplicates. Duplicate Container IDs in the formulary are reported but are displayed in a way that may not put the duplicates together. You can sort the Excel spreadsheet on Container ID.
- ◆ **WARNING:** Replacing drug names with non-Latin characters (e.g., Kanji, Hebrew) causes duplicate drug entries in the MDD. When the MDD screen is sorted by drug name, changing a drug name to start with a non-Latin character causes the drug to display twice. When the issue occurs, editing either of the duplicate drug entries on the MDD properly changes the other entry. Re-sorting the MDD list or refreshing the MDD by switching to another page in the AT and then back causes the drug name to only display once, sorted after the names that start with Latin characters. If the drug is already in the SLS PCS formulary, then the drug name will display with the changed characters in the formulary and will be listed only once.
- ◆ **WARNING:** The pre-import report does not identify duplicate drug IDs when importing via a CSV. You are required to run a formulary report before generating an approved formulary and should review the Duplicate reports in the Safety worksheet to make sure all duplicates or potential duplicates in the MDD and formulary are identified.
- ◆ LDAPS does not work with a load balancer and/or Virtual IP (VIP) configuration. You will not be able to use LDAPS with the AT in conjunction with a load balancer using a wildcard SSL certificate. You should use a single-domain SSL certificate for LDAPS instead of using a wildcard certificate.
- ◆ When copying a drug entry with a custom drug classification template (DCT) from one formulary to another, the second formulary drug entry template is set to None even though it uses the same template. Make sure to set the drug entry in the second formulary to the required drug classification.

Known Uncommon Issues

This section details uncommon issues with 3.3.0 AT software that are unlikely to be experienced by most users. These issues are specific to the current release; previous issues can be found in previous Release Notes. None of the issues included in the document are considered to render the product unsafe or ineffective for clinical use.

- ◆ **WARNING:** A concentration length of greater than 15 characters is converted to an incorrect value in the MDD when imported. For example, a number such as 12345678901234567890 is converted to 92,233,720,368,547.77.
- ◆ **WARNING:** SLS can be muted with a **Minimum Volume** higher than 0%. You can still mute the SLS if you manually enter a number of between 1 and 9 in the field. Only use the arrow buttons to set the **Minimum Value**.
- ◆ **WARNING:** If a drug record is modified in the MDD after it has been added to the formulary, the AT does not automatically update the audio file association. If the drug name is changed in the MDD, the associated audio file will not change, resulting in a possible incorrect association. As a work around, you can either remove and then add the drug to the formulary to trigger a new audio file association, or manually select the correct audio file from the formulary edit dialog box.
- ◆ **WARNING:** Combination drugs with long drug names do not display the second drug name. Combination drugs with very long drug names only display the first drug name as truncated. There is no indication as to what the second drug name is. Users should look to modify the entry of the drug name (e.g. Calcium can be entered as Ca). Another option is to enter the drug name in the **Tallman** field of the AT which will reduce the font size.
- ◆ **WARNING:** Dilution units that are different from the parenteral container do not always provide a warning. When the initial parenteral unit (e.g., mg) is the same as the first unit in the dilution (e.g., mg/mL) a warning is not provided. However, when the parenteral drug unit is different than the initial dilution units (e.g., parenteral container is g -> diluted container is mg/mL), the AT does provide a warning that they are different units.
- ◆ Zooming potentially causes a minor row offset in the AT. This issue occurs only at 110% zoom in Chrome, and Edge (Chromium based). It does not occur in IE 11, Firefox, or older Edge. The AT actions column rows become slightly offset from the rest of the grid in all grids of the AT.
- ◆ Adding invalid feature keys displays an Error Contact Server (ECS). When adding a feature key that has any of the following properties (e.g., Empty field, single or double or special characters, all numbers or mix of numbers and characters) results in the AT displaying an ECS instead of **Invalid Feature Key Error** message.
- ◆ SLS PCS can lock-up when updating with a software app package (e.g., SLS-APP-2_6_0-001.pkg). When installing a multi-package on the SLS PCS that contains a software APP package, the SLS PCS can become stuck on the dialog indicating that the SLS PCS was shutting down. If this occurs, power off and restart the SLS PCS, and reinstall the multi-package.
- ◆ For 3.2.0 and newer software releases, hidden (i.e., nonbroadcasted) SSIDs for enterprise WiFi require different configuration settings. The set up for the **conf** and **conf.debug** file within the certificates folder of each WiFi MAC Folder require an updated entry. Here are the additional network configuration settings required for the files:


```
wifi.conf
wpa-ssid [HiddenSsid]
wpa-ap-scan 1
wpa-scan-ssid 1
wifi.conf.debug
ap_scan=1
network={
scan_ssid=1
```

Refer to AT User's Manual, Codonics Part Number 905-063-030 section 6, for all other network configuration file settings.
- ◆ Changing barcode parsing rule presets from **US_NDC** to **Custom** does not warn you that custom rules will be removed.
- ◆ Second preparer's initials are not supported on a small label template pack (e.g., STD-S1 and ZH-S1). Small labels do not support preparer's initials.
- ◆ **Failed Verifications** will not appear in the **Verifications** tab unless you navigate back to **Devices** tab after a server restart.

Technical Support

If problems occur during software installation or operation, contact Codonics Technical Support at any time.

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