

### Version 1.8.1 SLS Administration Tool Release Notes

#### Summary

Version 1.8.1 is a software release for Codonics Safe Label System™ (SLS) Administration Tool (AT) only. The software is compatible with SLS 500i™ Point of Care Stations (PCS) installed with 1.8.0 software.

This document provides information about new product features, improvements and defects corrected in 1.8.1 SLS AT software. The SLS AT User's Manual version 1.3.0 provides further information about the AT.

#### Recommended PC requirements for AT:

Intel Core™ 2 Duo Processor 2.66 GHz (or faster)  
4 GB RAM  
Windows® XP or newer  
Internet Explorer (IE8 or newer)  
Excel 2003 or greater to open reports

#### Defects Corrected

- ◆ The EmailNotifier could not query SLS devices with 1.8.0 software. The EmailNotifier now properly works with 1.8.1 software.
- ◆ You could not SmartCopy a drug that had Dilution set to Other. Other was not being copied over from an existing drug to the new drug being added. For example, if the drug entry had only Other as a dilution, when using SmartCopy and selecting Save, a message would be displayed indicating Undefined. If the drug entry had Other and another value as a dilution, then the dilution value would be copied over to the new entry but not Other. Now, in both cases Other is copied over to the new drug entry.
- ◆ When performing SmartCopy, the list would include combination and non-combination drugs. For example, SmartCopying bupivacaine would list both bupivacaine and bupivacaine-epinephrine. The same issue would occur when selecting a combination drug. For example, SmartCopying bupivacaine-epinephrine would list both bupivacaine-epinephrine and bupivacaine. Now, the AT only lists the proper drugs.

- ◆ When group editing drug entries (e.g., bupivacaine 0.5%) in the formulary Unedited filter, the label preview displayed placeholder values (e.g., {Name}) for drug name, concentration, and message fields. The AT now properly displays the drug name (e.g., Bupivacaine), concentration (e.g., 0.5%) and message (e.g., Preservative Free) on the label preview consistent with the existing group editing functionality.
- ◆ SmartCopying now list entries with a Message (e.g., Preservative Free) first in the list followed by those entries without a Message. If you select, Copy First Match, and the first entry has a Message, the new drug entry will have the same Message copied to its Message field.

**NOTE:** It is recommended that you look at whether a Message is copied and determine whether the new drug entry requires the same message. For example, if the first drug in the SmartCopy list is Preservative Free but the new drug entry that you are adding is not Preservative Free, you will need to delete the message before saving the new drug entry.

#### Known Common Issues

This section details common issues with 1.8.1 AT software that are likely to be experienced by most users.

- ◆ **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 duplicate drug entry on the MDD changes the other entry properly. 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.
- ◆ **Scanning a barcode on a label can be difficult or not possible if the barcode on the label doesn't have sufficient white space around the barcode.** For example, Heparin 5,000 units NDC 25021-402-10, Heparin 1,000 units NDC 25021-400-30, Heparin 1,000 units NDC 25021-400-10, and Penicillin 0781-6153-94 are vials which have difficulty scanning on SLS PCS.
- ◆ **An exception dialogue for allowing Java through the firewall may be displayed when first installing the 1.8.1 AT.** You should click Allow.
- ◆ **Using medium and large font sizes in Windows 7 distorts AT startup dialogs.** Parts of the dialog boxes will be cut off. You should use the small font sizes when using Windows 7.
- ◆ **The AT Device Manager system information window does not refresh while open.** In order to have the information screen update, close and reopen the window.
- ◆ **Saving and downloading a report will default to the location from previous versions of the AT.** When running a formulary report for the first time in a new version of the AT software and then clicking Download to save the file to disk, the AT will open the previous folder where reports were saved. You should clearly locate and name your reports for easy identification.
- ◆ **If a package transfer fails (e.g., Wi-Fi connection disconnects or Ethernet cable becomes unplugged during transfer), the AT Device Manager that sent the package will indicate Failed while any other AT Device Managers that are opened will indicate Transferring.** You can resend the same named package from the same AT Device Manager which originally sent the package only if the same AT session is running. If you have logged out of the AT that sent the package, refreshed the AT Device Manager, or opened the Device List again, you will need to cycle the power on SLS PCS to transfer a package.
- ◆ **The AT will stop working if the AT Device Manager is left open for greater than six hours when using Windows 7 with Internet Explorer 9 (IE9).** Do not leave the AT-DM open for extended periods of time (e.g., overnight) or when not in use. If the AT stops working, close the AT and then restart it.
- ◆ **If the AT is used on a PC with Internet Explorer 7 (IE7), the AT may exhibit slow performance if the AT is left open for multiple hours.** To correct the issue, close the AT application and restart it. No data should be lost because the AT updates as data is entered. For better performance results, install IE8 on the PC.
- ◆ **When using IE8, leaving the AT open and idle with the Pre-Import Results window displayed for more than 15 hours can cause the AT to lock up.** Leaving the AT open and idle for more than 15 hours in this case can lead to a blank Import Results window. The only way to exit is to click Discard and Confirm the discard.
- ◆ **Both the post-import user interface notification and the report shows the incorrect Total # of drugs with no changes that were skipped.** The number reported is actually the number of import operations being skipped. To confirm what was actually imported, you should look at the post-import report which shows exactly what was imported.
- ◆ **Importing 万単位 (i.e., man-tani) in the default (en-US) locale and then changing to the Japanese (ja-JP) locale causes the units to remain custom units.** There will be two man-tani units, the new one that is added by default and the custom unit that show up in the drop down. To prevent this from occurring, a user should first change to the Japanese locale and then import.
- ◆ **Searching for either the value (e.g., 0.2) or the units (mg/mL) of the concentration works as expected, but searching for both in the Formulary Manager does not return any results.**
- ◆ **Searching for the string 万単位 (i.e., man-tani) does not return any values, but a subset of man-tani (i.e., 万単) does search correctly.** You can also select a different identifier (e.g., drug name) to search.
- ◆ **Searching for PE or Unspecified will return all drugs in the MDD or formulary.** You should select a different identifier (e.g., drug name) to search.

- ◆ **Not all MDD fields are searchable.** Searching in the MDD on drug name (e.g., Propofol), Master IDs, Container IDs, Concentration values, or Tallman works as expected, but searching on Status (e.g., Active), Verification (e.g., verified) and Route (e.g., Intravenous) terms do not return any results.
- ◆ **Not all formulary fields are searchable.** Searching in the formulary on Master ID, Container ID, Drug Name (e.g., Propofol), Concentration values, Tallman, Template Name, Warnings, Dilutions, Audio or Audio2 values work as expected, but searching on Dilutions (e.g., Other), Expire Time (e.g., 24), Route (e.g., Intravenous), Verification level (e.g., verified), Dilution Status (e.g., Allowed), and Status (e.g., Active) values do not return any results. You should select a different search parameter or sort the column first to find the information.
- ◆ **Saving and downloading a report will default to the location from previous versions of the AT.** When running a formulary report the first time in a new version of the AT software and clicking Download to save the file to disk causes the AT to open the previous folder where reports were saved. You should clearly locate and name your reports for easy identification.
- ◆ **As dilutions are created in the Edit Formulary Drug user interface, they are saved to the group of available dilutions for all drugs.** All dilutions (e.g., 5 mg/mL, 1 mcg/mL, 1000 units) created in Edit Formulary Drug in the formulary remain as options to be selected for the next drug edited. You should scroll through the existing dilution options and check an existing box before creating new dilution entries.
- ◆ **Deleting a drug from MDD and then undoing the deletion clears TD/TV values to defaults in the formulary.** For example, if a drug is configured with TD/TV settings in the formulary, then deleted from the MDD, and then the undo button is selected, the drug is added back to the MDD and the formulary. However, the formulary will be set to the defaults (i.e., Dilution Status: Not Allowed, Preparation Method: Normal Dilutions, Dilutions: none, Total Dose /Total Volume: none).
- ◆ **WARNING: Drug Dilution Status of Not Allowed allows dilutions (e.g., 5 mg/mL, 1 mg/mL) to be defined.** However, when trying to create a formulary package on the AT, the package will not be created and an error message will be displayed.
- ◆ **WARNING: Drug Dilution Status of Not Allowed allows dilutions of only Other to be used in creating a formulary package.** However, when the formulary is installed on SLS PCS, a dilution will not be allowed to occur for that drug when scanned.
- ◆ **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: 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: 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.
- ◆ **The EAN-13 symbology is hidden from US NDC custom preset default view of the Configure Barcode Parsing window.** If you slide the grid line to the right, EAN-13 will appear.
- ◆ **If the computer that the AT is running on has its Windows temporary folder fill up, the AT will not start.** An error will occur when starting the AT. You should contact your system administrator and have them open the temp folder to determine which, if any, files can be deleted.

### **Known Uncommon Issues**

This section details uncommon issues with 1.8.1 AT software that are unlikely to be experienced by most users.

- ◆ **Test Print Every in the Configuration tab cannot be set to zero (i.e. 0).** If you want to disable Test Prints, uncheck Enable Test Prints in the Configuration tab, create a configuration package, and deploy it to SLS PCS's that require no test prints.
- ◆ **Entering a Master ID without any zero is accepted in the MDD.** When the database mode is US NDC, an 11-digit Master ID without any zero is accepted but cannot be mapped to a scanned 10-digit Container ID on SLS PCS (or the AT). Thus, you can define an invalid drug that will never be used and still successfully generate a formulary.
- ◆ **A valid Formulary Report will not be created if you don't select Open, Save or Cancel within three minutes after selecting Download.** If a corrupt Excel file is generated (indicated by an Excel error message), create a new formulary report in a timely manner.
- ◆ **The AT may experience errors or stop functioning if you perform consecutive imports without restarting the AT.** If a file or filter is between 10,000 and 50,000 entries, you need to restart the AT before importing the file or filter the second time. Contact Codonics Technical Support if there are questions.
- ◆ **The AT doesn't support consecutive imports of large files (i.e. > 50,000 entries) even when restarting the AT.** If you try consecutive imports of files or filters > 50,000 entries, the AT will not work the second time you try to import a file even if you restart the AT. It will display an error. Do not use a file this large. Contact Codonics Technical Support for support importing Oral drugs or for further questions.
- ◆ **An invalid barcode scan in Learn Mode does not provide information.** Occasionally, when an invalid barcode is scanned (e.g. one without an AIM code) in Learn mode, the window is simply dismissed and the focus is on the main screen again. There is no indication that the barcode is invalid or that the scanner needs to be configured properly.
- ◆ **Undo re-sorts MDD and formulary entries when the drugs are filtered or sorted on drug name.** For example, filtering on a list of fentanyl, deleting one of the entries, then undoing it does not place the drug in the same location in the list as it was prior to being deleted.
- ◆ **In Japanese, group editing drugs in the Formulary Manager has some fields in English.** After selecting multiple drugs, the fields that are different will show on the label template as "{CONCENTRATION}" and "{NAME}" instead of a translated version of these fields.
- ◆ **Deleting drugs one at a time can cause an error contacting server message.** This occurs with large (35K+) MDDs and a message Confirm: Delete this drug from the Master Drug Database "undefined (undefined)" is also present. If you want to delete multiple drugs from the MDD, select all the drugs and then group delete them.
- ◆ **Group editing large numbers (e.g., 35K+) of drugs at once causes Error Contacting Server error.** Clear the error by clicking the X and then select a smaller number of drugs to group edit.
- ◆ **Unable to edit drugs in a formulary if there are > 100K drugs in a formulary.** If you try to edit a drug, an Error Contacting Server message appears.
- ◆ **Unable to create a formulary report in a formulary if there are > 64K drugs in formulary.** Excel 2003 does not support greater than 65,536 entries. The formulary report creation status bar will complete. However, the download button will be grayed out and a message Writing report data will appear in red in the formulary report creation dialog.
- ◆ **Not all drugs appear selected even though you selected a large group of drug entries and then scrolled through them.** After a large number of drugs in the AT are checked and highlighted, sometimes drugs load in a manner where every other drug is highlighted and a group of contiguous drugs is not checked if you scroll through the list. Scrolling up or down so that the list loads again resolves the issue.
- ◆ **Custom labels in the BLANK tab of the configuration manager can be deleted.** Deleting any of the default Custom labels is not recommended. If you accidentally delete all the Custom Blank Labels, contact Codonics Technical Support.
- ◆ **After shift clicking large amounts of drug entries (e.g., 25,000) in the MDD, some may look like they are unchecked when scrolling through the list.** If you select the first drug in the MDD and then scroll down and shift click at the bottom selecting 25,000 drugs in total, when scrolling up through the list, you may find some that appear not to be selected. Although it appears that they are not selected if you chose to Add to Formulary, all of the drugs would then be added to the formulary (e.g., 25,000).
- ◆ **Search for Other will not find drugs with Other as a valid dilution.** You should select a different search parameter or sort the dilutions column and scroll to find Other.

- ◆ An error message can be caused by moving a custom label from one section (e.g., Lines) to another section (e.g., IV). Close the error by selecting the X in the banner and then retry.
- ◆ The AT will not accept csv files if the specified path contains an extension that is capitalized (e.g., CSV). If this occurs, rename the file with the extension in lower case (e.g., csv).

### **Technical Support**

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

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