Codonics SLS B.Braun Barcode Support

Overview

Version 1.5.0 software for Codonics Safe Label System™ (SLS) includes support for B.Braun barcodes.

B.Braun barcodes can be included on printed SLS syringe labels. The barcodes are used to transfer data to a B.Braun Space Infusion Pump System using a barcode reader on the pump. (The B.Braun Space pump is referred to as *pump* in the remainder of this Technical Brief).

> **NOTE:** This function requires a feature key on each SLS 500i™ printing B.Braun barcodes. For information on purchasing the B.Braun feature key, contact your Codonics Sales Representative.

> **NOTE:** The 500i Administer Mode is not supported when a B.Braun barcode is scanned.

> **NOTE:** The B.Braun Space Infusion Pump System requires software revision J or higher.

Workflow for Implementing and Using Labels with B.Braun Barcodes

The following steps describe the general workflow for enabling and using labels with B.Braun barcodes:

1. Configure support for B.Braun barcodes in an SLS configuration package in the Codonics Safe Label System™ SLS Administration Tool (AT).

2. Deploy the configuration package or the formulary containing the configuration package to 500i devices.

3. Print syringe labels with a B.Braun barcode on a 500i.

4. Adhere the label to the syringe or infusion line.

5. Place the labeled syringe or infusion line in the pump and scan the barcode so that the pump can read the data.

Data Included in a B.Braun Barcode

The following data is included in a B.Braun barcode:

- **Drug name.** 1 to 15 alphanumeric ASCII characters. The following characters are not allowed:
  - Embedded blanks
  - Control characters such as %, $, /

- Characters outside the ASCII 128 definition, such as ä, ü, ö, ß

- **Concentration values.** The pump can support concentration values with some limitations. The following concentration values are not supported:

  - 1 in 100,000 (combination drugs only)
  - 1 in 200,000 (combination drugs only)
  - Concentration values with more than 5 characters
  - Concentration values less than 0.001 or greater than 99999
  - Concentration volume values less than 1 or greater than 9999
  - Concentration volume values that include non-numeric characters
  - Concentration values that include non-numeric characters or more than one decimal point

> **NOTE:** Concentration values will always use a decimal point to indicate a fractional value (e.g., 2.5), even if a comma is used as a fractional separator on 500i displayed or printed label information. The use of a comma or decimal point by 500i is determined based on the localization pack selected in the AT.

- **Concentration units.** The following units are supported: ng, mg, mcg, Units, mEq. Concentration units are always considered to be per milliliter (mL).

- **Concentration volume.** An integer from 1 to 9999. The concentration volume unit is always considered to be milliliter (mL).
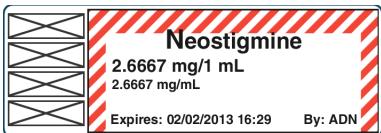
> **NOTE:** Only drugs in the SLS formulary with Total Dose/Total Volume entries will produce labels with B.Braun barcodes. SLS Total Dose value is equivalent to the B-Braun Amount value. SLS Total Volume value is equivalent to the B.Braun Volume value.

> **NOTE:** If the concentration units on an SLS syringe label is Units and the pump is configured for British English, the pump will display units as IU (international Units). If the pump is configured for US English, it will display units as U.

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If Barcode Information Is Not Compliant with the Pump

If the AT detects that the barcode data for a drug entry in the 500i formulary is not compliant with the B.Braun pump requirements, a warning message will be included in the formulary report. For more information, refer to "B.Braun Barcode Warnings in the Formulary Report" later in this Technical Brief.

If 500i detects data in the formulary that is not compliant with the B.Braun pump requirements, it will print a label with a special "X" graphic, as shown in the example below. This will prevent a non-compliant B.Braun barcode from being read by the pump.

500i will not display any error or warning dialog boxes when non-compliant data is detected. It will also not prompt the user to scan the printed barcode when post-print confirmation is enabled, since no barcode will be included on the label. The "X" barcode graphic is the only indication to the user that the drug information on the label is not compatible with the pump and will have to be manually entered at the pump.
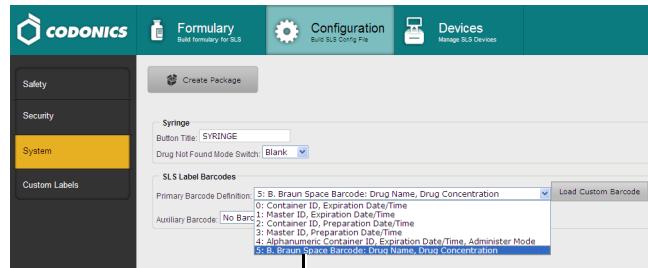
> **NOTE:** The pump also performs a data compliance check on barcodes that are scanned by the pump.

Configuring Support for B.Braun Barcodes

To support B.Braun barcodes, you have to configure them in the AT and then deploy the configuration or formulary package to the appropriate 500i devices.

To configure B.Braun barcodes:

1. In the Configuration Manager section of the AT, go to the System tab.

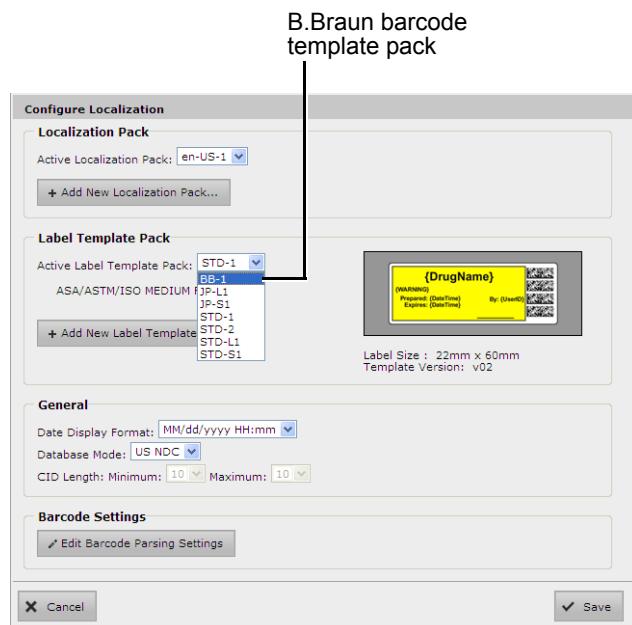2. In the Primary Barcode Definition list, select the B.Braun Space barcode option.

B.Braun barcode definition option

A dialog box displays, indicating that the B.Braun barcode requires an appropriate label template be selected. Click the OK button to close the dialog box.

3. The Primary Barcode Definition is a part of the SLS configuration package. Create a configuration package and install it on 500i to activate the B.Braun barcode. For more information about the other configuration settings and how to create a configuration package, refer to the SLS Administration Tool User's Manual.

4. Go to the Formulary tab.

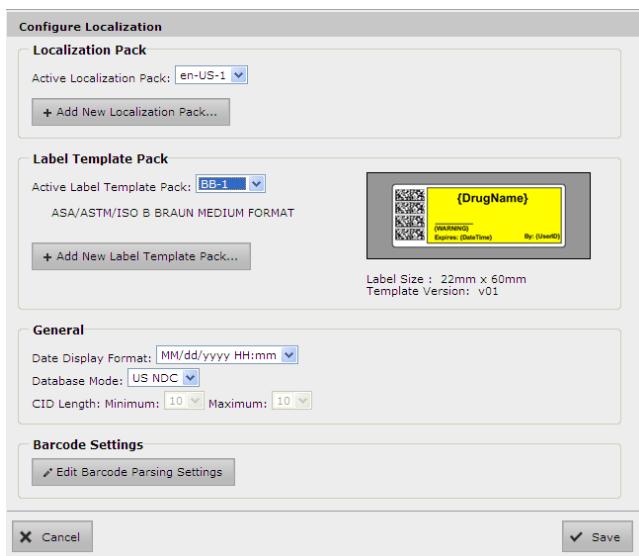5. Click the Configure Locale button at the bottom left corner of the Formulary tab.

   The Configure Localization dialog box displays.

6. In the Active Label Template Pack list, select the B.Braun barcode template pack (BB-1).

B.Braun barcode template pack

The sample label template image in the dialog box updates to reflect the selected template pack.

7. Modify other localization options as needed, then click the Save button to save your selection. For more information about the localization options, refer to the Codonics SLS Administration Tool Localization Enhancements Technical Brief (part number 901-261-001) and to the SLS Administration Tool User's Manual.

8. If there is an existing formulary on the Administration Tool when the label template pack is changed, a warning message will be displayed. Read this message carefully and select the appropriate option. A confirmation message might also display based on the option selected for the warning message.

9. Create the formulary package and deploy it to 500i devices. For more information about these tasks, refer to the SLS Administration Tool User's Manual.

NOTE: If the label template pack selected for a configuration package does not include support for the B.Braun barcode, and a B.Braun barcode was selected in the System tab in the AT, then the barcode will not print on the syringe labels. No errors or warnings will be displayed on 500i.

NOTE: The B.Braun label template pack has the barcode printed on the left side of the label so it is visible when the label is locked into the pump.
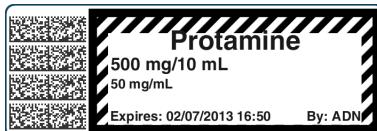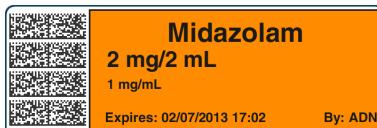
B.Braun Barcode Warnings in the Formulary Report

The formulary report in the AT includes a Barcode Compatibility tab that will display warning messages about barcode compatibility. This includes warning messages for any drug entries that do not comply with B.Braun barcode requirements.

You can continue promoting and deploying a formulary package even if barcode compatibility warnings exist in the formulary report.

Printing B.Braun Barcode Labels on 500i

B.Braun barcode labels are printed in the same way as other syringe labels on 500i. After printing a B.Braun barcode label, adhere it to the syringe or infusion line. Then insert the labeled syringe or line and scan the label in the pump for use. For information about inserting and scanning labels at the pump, refer to the pump user documentation.

B.Braun Barcode Labels

The label template pack for B.Braun barcodes is BB-1.

The standard size for B.Braun barcode labels is 22 x 60 mm.

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B.Braun Barcode Label Examples

Following are B.Braun barcode label examples.

Midazolam
2 mg/2 mL
1 mg/mL
Expires: 02/07/2013 17:02   By: ADN

Protamine
500 mg/10 mL
50 mg/mL
Expires: 02/07/2013 16:50   By: ADN

Technical Support

If problems occur when using the AT or 500i, contact Codonics Technical Support.

Phone: +1.440.243.1198

Email: support@codonics.com

Website: www.codonics.com

Get it all with just one call
800.444.1198

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