



Infinity/Sales Terminal Interface Manual

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BERG COMPANY, LLC

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SECTION

1

Getting Started

Creating a link between the ECUs that comprise Berg’s **Infinity** beverage control system and the sales terminal of an ECR or POS system isn’t difficult. However, each **Interface** installation requires a certain amount of preparation. The general guidelines provided in this section can help you take the necessary steps to make each installation run as smoothly as possible.

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Interface System Components

Interface is a communication link that allows rapid transfer of drink information from a Berg ECU to a sales terminal. Sharing sales information already generated by a Berg ECU can significantly reduce a bartender's labor and time spent per drink. Once **Interface** software and necessary hardware is installed, drink information for each pour is translated into a numerical code and sent to the sales terminal. (These numerical codes are collectively referred to as PLU/Modifier strings.) The sales terminal then rings up all drinks poured exactly as if someone were pressing the sales terminal keys.

Infinity Software Manages all aspects of beverage dispensing for an **Infinity** system. You use **Infinity** software to enter PLUs for each drink so the ECU(s) can send correct sales information to the sales terminal.

Interface Software The software that provides communication between a sales terminal and the ECUs in an **Infinity** system. **Interface** software is packaged with **Infinity** software on the **Infinity** installation CD. You use **Interface** to define settings for the specific driver file associated with your sales terminal and to send the driver file to the ECUs so they can communicate with the sales terminal.

Sales Terminal The generic term used in this manual to refer to your ECR or POS system. For a list of makes and models of both ECR and POS systems that work with the Berg system, see the *Interface Specifications* section.

Driver A computer file included with **Interface** software that knows how to communicate with the hardware of your specific sales terminal. The type of system you have determines the driver you need. POS drivers support two-way communication between the ECU and sales terminal. ECR driver communication is limited to one-way from the ECU to the sales terminal.

Interface Equipment The equipment necessary to link an **Infinity** system ECU with a sales terminal will vary depending on the sales terminal and type of ECU. It may be just a single cable connecting the sales terminal to the ECU(s). Or you may need to install other hardware (such as circuit boards) in the ECU(s) and/or the sales terminal.

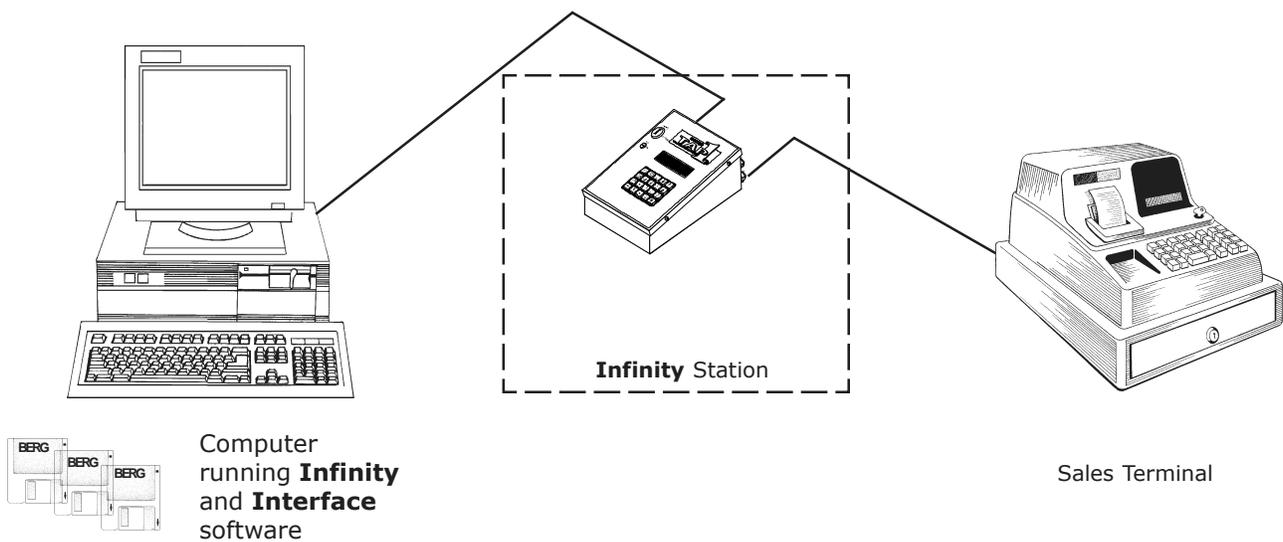
ECU A box containing circuit boards that controls the operation of dispensers connected to it. You use **Interface** software to send a driver file to the ECU(s) so drink information can be sent in the correct format to the sales terminal.

- Station or Group** Stations and groups are defined with **Infinity** software. A station consists of one or multiple ECUs and a group is made up of multiple stations or other groups. You select a station or group when you send driver files to the ECUs.
- Options** Specific features of the **Interface** driver file that you can customize for your own **Infinity**/sales terminal setup.
- PLU** Stands for Price Look Up. The location in the sales terminal where the specific price of an item is stored. The PLUs used by your sales terminal must be assigned to the brands and cocktails in use at the ECU for the correct sales information to be sent for every drink.
- NLU** Stands for Number Look Up. Used by some sales terminals instead of the term PLU.
- Modifier** A numerical code linked to a PLU to give the sales terminal additional information about a drink. Your sales terminal may or may not use modifiers.

Interface software is accessed through the **Infinity Manager** program and is used to configure and send driver files to the ECUs.

The **Interface** driver files are sent to and reside on the ECUs. The driver files send sales information to the sales terminal for each pour.

The sales terminal rings up pours using sales information received from the ECUs. The PLUs and modifiers sent from the ECUs must match those defined at the sales terminal.



Installation Game Plan and Checklist

We've provided a checklist to help each **Interface** installation go as smoothly as possible. The most important thing you can do to prepare for a successful installation is learn all you can about the specific sales terminal requirements at each site. To help you locate information quickly, related tasks are grouped throughout the manual.

- Getting Started**
- 1. Contact the local sales representative for your sales terminal. Discuss your installation plans and describe necessary hardware to order for the terminal. See *Gather Hardware Information*.
 - 2. Set an installation date when the sales terminal representative can be present.
 - 3. Order software and specific cables for your sales terminal from Berg. Check for correct software serial number and EPROM version numbers.
 - 4. Assemble the tools:
 - small standard screwdriver
 - 3/16" nut driver
 - small needlenosed pliers
 - Phillips screwdriver (#2 pt)
 - Infinity** tools (loopback tester)
 - 5. Meet with the sales terminal representative and determine the sales terminal PLUs and any required modifiers. See *Gather PLU Information*.
- Installation**
- 6. Install necessary hardware both at the sales terminal and the ECU with the help of the sales terminal representative. Make cable connections. See *Connect the ECU(s) to the Sales Terminal(s)*.
 - 7. Install **Interface** software as part of an **Infinity** software installation. See *Install Interface Software at a New Site* and *Interface Software Basics*.
 - 8. Assign the correct PLUs. See *Assign PLUs to Brands and Cocktails* (in the *Getting Started* section).
- Drivers**
- 9. Select options affecting **Interface** performance. See *About Options* and *Enter Driver Settings*.
 - 10. Enter PLU modifiers (if necessary for your sales terminal). See *About Modifiers* and *Enter Driver Settings*.

- ❑ 11. Load the driver file to the **Infinity** stations or groups. See *Load a Driver* in the *Drivers* section.
- ❑ 12. Test each station or group and verify drinks are ringing properly at the sales terminal with each pour. See *Driver Test*.

Gather Hardware Information

Hardware setup differs somewhat depending on the sales terminal. At a minimum, you need to order the correct cables to connect the ECU to the sales terminal. Some sales terminals require additional hardware in the ECU and/or in the sales terminal. Check local wiring and fire codes for any additional cable requirements (plenum cabling, conduit, etc.).

EPROM Version in ECUs	Verify the version number of the EPROMs in the ECUs. You need version 2.13 or later in Infinity ECUs, version 1.08 or later in TAP 1 ECUs and version 3.0 or later in 1544 Infinity ECUs to support Interface .
Cables	<p>If your sales terminal is an ECR type, a circuit board must be installed in the sales terminal. The circuit board vendor supplies a cable with the board. Berg offers the cables listed in the <i>Interface Specifications</i> section of this manual.</p> <p>If your sales terminal is a POS type and is not listed in the specifications, check with the sales terminal representative to see if a specific cable is required. Berg PN 8007993 is a cable that works as a generic choice. Before ordering a generic cable, verify with the sales terminal representative and Berg that the cable works for your system.</p>
TAP 1 ECUs	A circuit board with a pigtail must be added to TAP 1 ECUs to provide a connection for the sales terminal. This circuit board must be installed by Berg company. If you didn't order TAP 1 ECUs with the required circuit board, contact the Berg Company.
Sales Terminal	Contact the local sales representative for the sales terminal. Verify the sales terminal is capable of supporting a Berg liquor dispenser interface and arrange a time when you can get together to install the interface. Check the <i>Interface Specifications</i> section of this manual for specific requirements that may be listed for your sales terminal. If the sales terminal representative doesn't know or can't find out what configuration is required by the sales terminal, check with Berg.

Ordering

If you or the sales terminal representative need to order additional hardware components, be sure to order them well in advance. Some parts may take several weeks to arrive.

Specifications

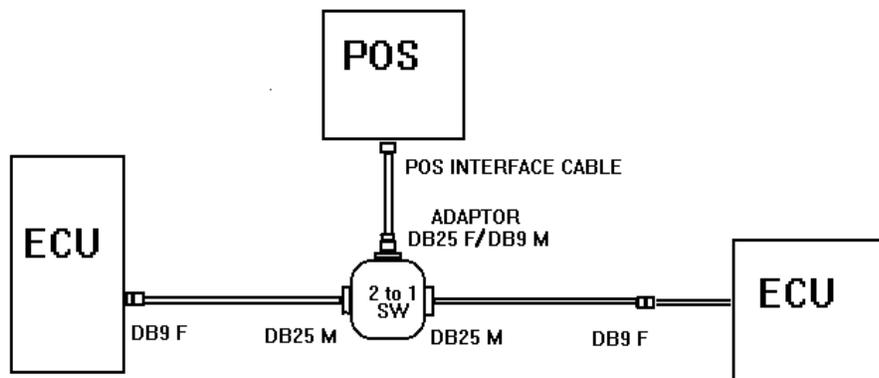
For more detailed information specific to the ECR/POS type you need to install see the *Interface Specifications* section.

Auto Switchers

If you need to connect more than one ECU to a sales terminal, Berg offers auto switchers and cables to connect ECUs to the switcher. The maximum distance from the sales terminal to any single ECU is 50 ft.

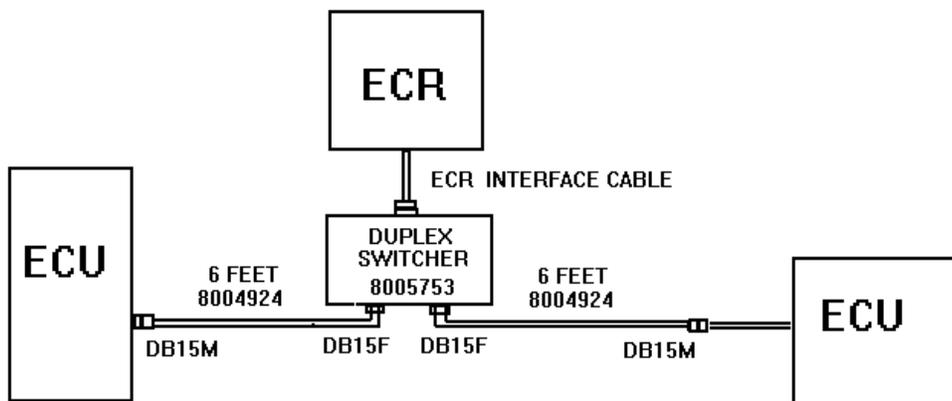
2 to 1 Switcher

The 2 to 1 switcher is used for POS terminals. It can be used with Infinity, TAP 1 or 1544 Infinity ECUs and connects two ECUs to one sales terminal. You can use additional switchers to connect more ECUs to one sales terminal, but if the ECUs are heavily used, you may experience noticeable delays. Berg can't precisely control the switching speed of the switcher, so if two pour requests occur at the same time, one of them will be delayed anywhere from a fraction of a second up to 2 seconds.



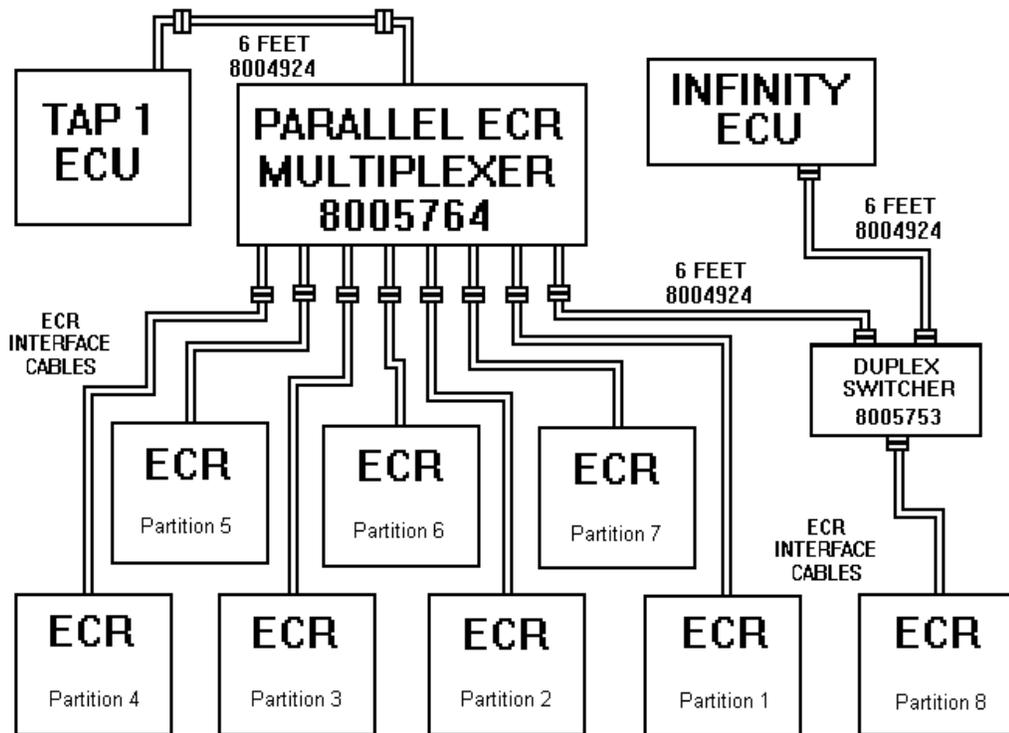
Duplex Switcher

The duplex switcher is used for ECR terminals. It can be used with Infinity, TAP 1 or 1544 Infinity ECUs and connects two ECUs to one sales terminal. However, the Duplex switcher can't be cascaded, so the limit is two ECUs per sales terminal. The duplex switcher connects one ECU to the sales terminal for the length of time it takes to send an entire drink code. Then it switches to the other ECU. The time needed to send a drink code is dependent on the number of key presses in the code and the timing requirements of the sales terminal.



TAP 1 Parallel Multiplexer

Using the TAP 1 Multiplexer, you can connect the partitions of one TAP 1 ECU to multiple sales terminals using an ECR interface. The maximum distance from the TAP 1 ECU to the Multiplexer is 50 ft and the maximum distance from the multiplexer to any sales terminal is also 50 ft. In the event multiple pour requests reach the ECU at about the same time, all will pour immediately and each PLU will be sent to the appropriate sales terminal. By combining a Multiplexer with a duplex switcher, an Infinity ECU can share a sales terminal with one of the TAP 1 partitions.



BERG PN	ITEM DESCRIPTION
8005740	2 to 1 switcher, port adapter, two 15 ft adapter cables to connect switcher to ECUs
8005736	2 to 1 switcher
8005734	port adapter
8005735	15 ft adapter cable
8005766	Duplex switcher, two 6 ft molded cables to connect switcher to ECUs
8005753	Duplex switcher
8004924	6 ft molded cable
8005749	TAP 1 Parallel ECR Multiplexer, one 6 ft molded cable to connect multiplexer to TAP 1 ECU
8005764	TAP 1 Parallel ECR Multiplexer

Gather PLU and Modifier Information

Since the purpose of **Interface** software is to configure an **Infinity** system ECU to provide price information to a sales terminal, it is essential that the PLUs and modifiers used by the sales terminal be correctly identified. You don't need to be an expert in sales terminals to perform this task; a sales terminal representative will help you. However, you do need to know the right questions to ask to get the information needed.

What are PLUs?

- A PLU is a numerical code that points to the exact price of an item stored in the sales terminal.
- Depending on the sales terminal configuration, a unique PLU may be assigned to every brand of drink or to every pour of a different portion size or price level of that brand.
- **Infinity** software accepts any number between 1 and 32,767 as a PLU. (If you need higher numbers, check with Berg to see if your driver supports PLUs to 65,535.)

What are Modifiers?

- A modifier is a numerical code that can be linked to a PLU to convey additional information about a specific drink.
- Modifiers may pass drink information such as price level, portion size, complimentary, canceled or cocktail status when that information is not conveyed with a unique PLU.
- The numerical codes for any “bookend” key presses required by the sales terminal to signal the start or end of a transaction or the start or end of the PLU are modifiers.
- Modifiers can be 1 or 2 numerical codes to allow for two key presses for each modifier (e.g., pressing an Enter key after each function key). Each numerical code can be any number from 0 to 255.

Modifier Order

- Modifiers can occur before or after the PLU. The order of the key presses required by the sales terminal determines where a modifier fits in the PLU/Modifier string. You must specify the modifier order so sales information can be sent correctly.

How Interface software uses PLUs and Modifiers

- **Interface** uses PLUs and modifiers to send a string of sales information to the sales terminal when a drink is poured with an **Infinity** system ECU.

Modifier Worksheet

Record PLUs on the *Getting Ready for Infinity Worksheets* from the *Infinity Installation/Service /User Manual*.

Select items from the list and record them in the order required by the sales terminal.

PLU/Modifier List

- PLU
- Cancel Modifier
- Comp Modifier
- Price Level Modifier
- Size Modifier
- Type Modifier

PLU/Modifier Order

Transaction Bookends

Begin

--	--

End

--	--

PLU Bookends

Begin

--	--

End

--	--

For help with this form see *About Modifiers* in the *Drivers* section.

Price Level Modifier

A

--	--

B

--	--

C

--	--

Size Modifier

1

--	--

2

--	--

3

--	--

Tap Size Modifier

1

--	--

2

--	--

3

--	--

4

--	--

5

--	--

6

--	--

7

--	--

8

--	--

Comp Modifier

Comp

--	--

Paid

--	--

Add to PLU

--

Cancel Modifier

Cancel

--	--

Regular

--	--

Add to PLU

--

Type Modifier

Brand

--	--

Cocktail

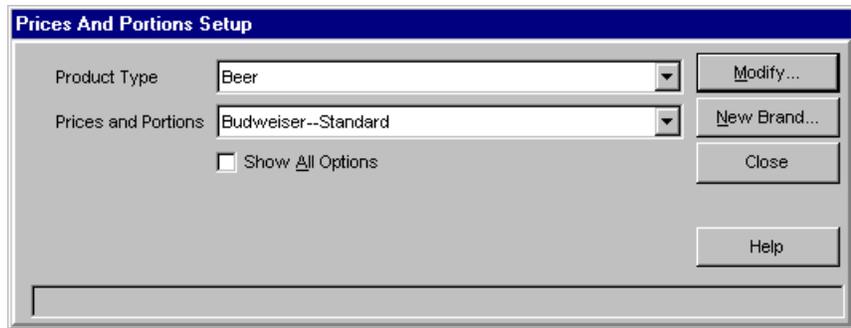
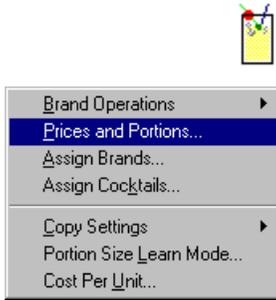
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Assign PLUs to Brands and Cocktails

You can assign PLUs to brands and cocktails at the same time you enter a brand's prices and portions or you can go back and enter or change them at any time. **Interface** software must be installed before PLUs can be entered.

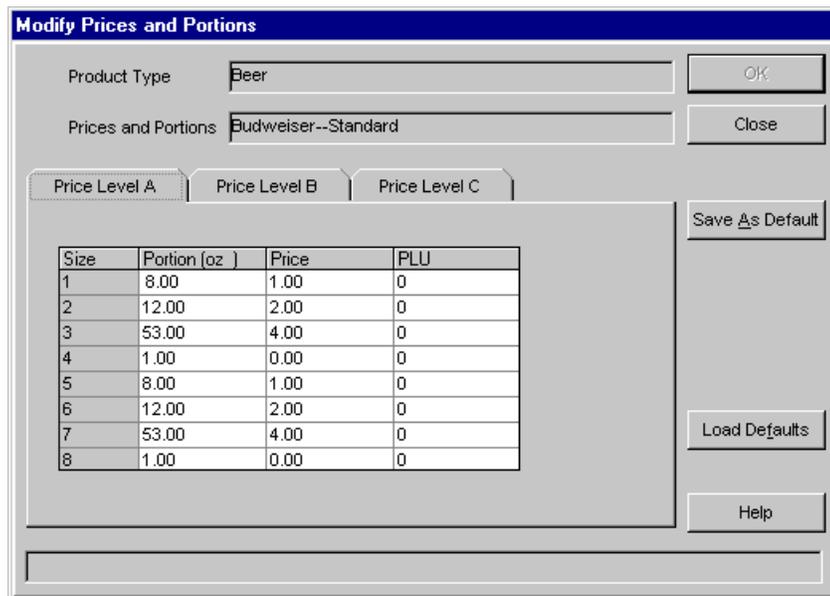
■ **To assign PLUs to brands and cocktails:**

1. Run **Manager**.
2. Pull down the **Pouring** menu and click **Prices and Portions...**



3. Select the **Product Type**.
4. Select the brand's **Prices and Portions** you want to give a PLU. (If you haven't defined any other price/portion categories, Standard is the only choice.)
5. Click **Modify...**

Beer prices, portions and PLUs



Liquor, Wine and Mixer prices, portions and PLUs

Size	Portion (oz)	Price	PLU
1	0.50	1.00	0
2	1.00	2.00	0
3	1.50	3.00	0

PLUs

- Depending on your driver, **Infinity** accepts numbers to 32,767 or 65,535 as a PLU.
- Depending on the sales terminal, the PLU may be the same for every size at a certain price level or it may be different.

Defaults

- There are no factory default PLUs.
- If you click **Save As Default** after you've entered prices, portions and PLUs, only the prices and portions on all tabs become the defaults for that product type. PLUs are not saved as defaults.

6. Click a **Price Level** tab that has PLUs you want to enter or change.
7. Type the correct **PLU** for each **Size** listed on the tab. **Sizes 1-3** correspond to the three possible portion sizes (small, regular and large) for All-Bottle 7 and Laser dispensers. **Sizes 1-8** correspond to the eight possible sizes on TAP 1 taps if alternate sizes are enabled. (If you don't use alternate sizes don't worry about sizes 5-8.) **Sizes 1-4** correspond to the four possible portions (small, regular, large and special) for 1544 Infinity ECU dispensers.
8. Repeat steps 6 and 7 for any **Price Level** tab that needs PLUs.
9. Click **OK** to save your entries on all tabs. Click **Cancel** to exit the screen without saving.
10. Repeat steps 3-9 for every brand that needs PLUs.
11. Click **Close** to exit the **Prices and Portions Setup** screen.

2 Installation

Refer to this section for help with the following hardware and software installation tasks:

Connect the ECU(s) to the Sales Terminal(s)	2-2
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Connect the ECU(s) to the Sales Terminal(s)

Before you attach the cables connecting an ECU to a sales terminal, be sure any additional hardware components have been installed in the ECUs and/or the sales terminal. If you're connecting more than one ECU to a single sales terminal, see *Install a 2 to 1 Switcher (for POS terminals)* or *Install a Duplex Switcher (for ECR terminals)* in this section.

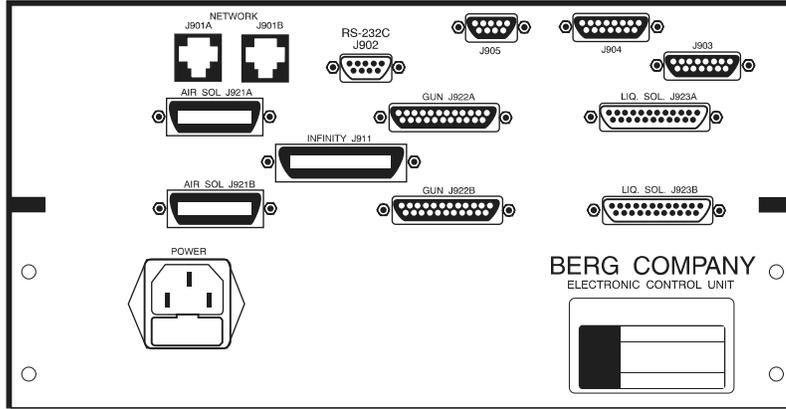
To connect the ECU(s) to the sales terminal(s):

1. Unplug the ECU.
2. Connect one end of the interface cable to the appropriate port on the back of the Infinity, 1544 Infinity or TAP 1 ECU and tighten the cable hold-downs.
3. Connect the other end of the interface cable to the sales terminal and tighten the cable hold-downs.
4. Program the sales terminal.
5. Repeat steps 1-4 for each ECU you're connecting to a sales terminal.

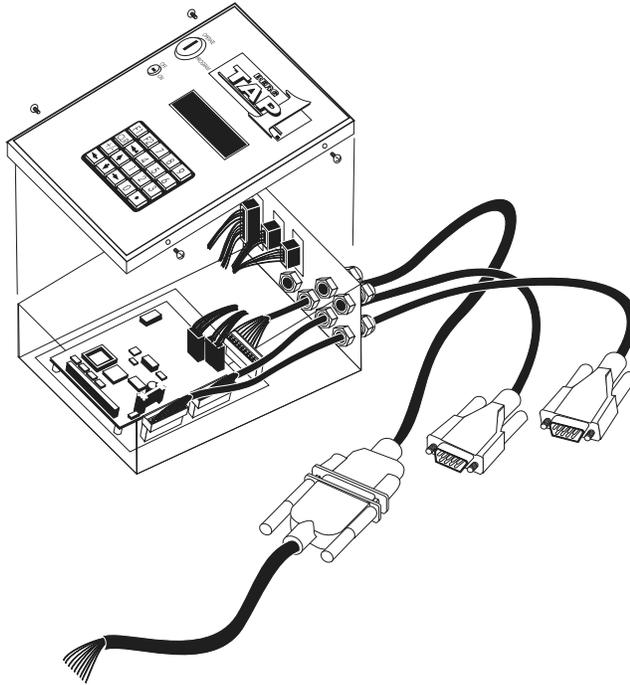
Note

- Avoid sharp objects, heat sources, high moisture areas, and anything that may damage the cable. Also, avoid high current devices (transformers, dishwashers, blenders, etc.).

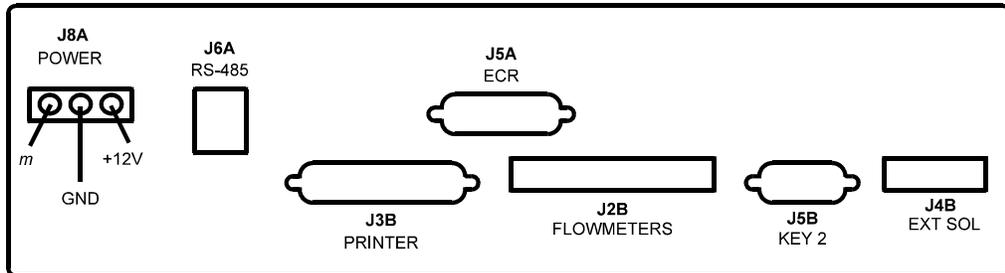
See the Specifications section for the specific port to connect your sales terminal.



Infinity ECU front panel



A circuit board with a pigtail must be added to a TAP 1 ECU by Berg engineers to provide a connection for the sales terminal.



1544 Infinity ECU back panel

Install a 2 to 1 Switcher (for POS terminals)

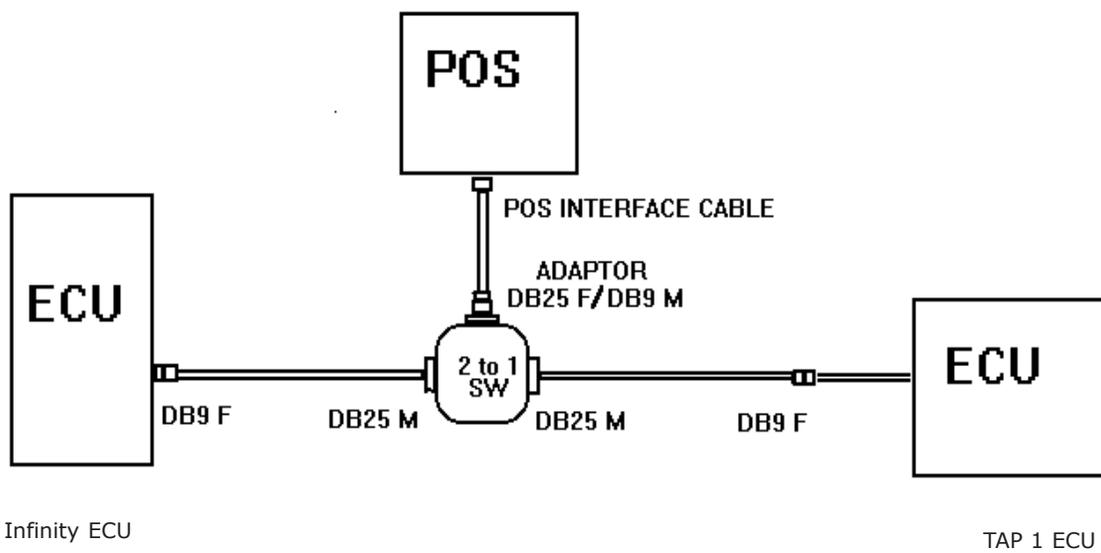
You can use a 2 to 1 switcher to connect two ECUs (TAP 1, Infinity or 1544 Infinity) to a single sales terminal that uses serial communication. The switcher routes two serial communications channels to one port. With additional switchers, you can connect 3 or more ECUs to a single sales terminal. However, if you connect 3 or more ECUs that are heavily used, you may experience noticeable delays between a pour request (button push) and the subsequent pour.

■ To install a 2 to 1 switcher:

1. Unplug the ECUs and the sales terminal.
2. Install the 2 to 1 switcher (PN 8005736) within 15 ft of each ECU.
3. Attach one end of a 15 ft adapter cable (PN8005735) to an IN port on the switcher. Attach the other end to the J902 port of an Infinity ECU, the POS pigtail of a TAP 1 ECU or the J3B port of a 1544 Infinity ECU.
4. Attach another 15 ft adapter cable to the second IN port on the switcher. Attach the other end to the J902 port of an Infinity ECU, the POS pigtail of a TAP 1 ECU or the J3B port of a 1544 Infinity ECU.
5. Attach the port adapter (PN 8005734) to the OUT port on the switcher.
6. Attach one end of the sales terminal interface cable (ordered from Berg or the sales terminal provider) to the port adapter. Attach the other end to the sales terminal.
7. Plug in the ECUs and the sales terminal.

Notes

- The maximum distance from the sales terminal to any ECU is 50 ft.
- The 2 to 1 switcher is a generic, off the shelf device which Berg modifies to decrease switching delays. Since Berg engineers do not control the origin or design of the switcher, they can't precisely control the switching speed. If two pour requests occur at the same time, one of them will be delayed anywhere from a fraction of a second up to two seconds.



The picture above shows a TAP 1 ECU and an Infinity ECU connected via the switcher to an ECR terminal. The switcher can also connect two TAP 1 ECUs or two Infinity ECUs or two 1544 Infinity ECUs to a ECR terminal.

Install a Duplex Switcher (for ECR terminals)

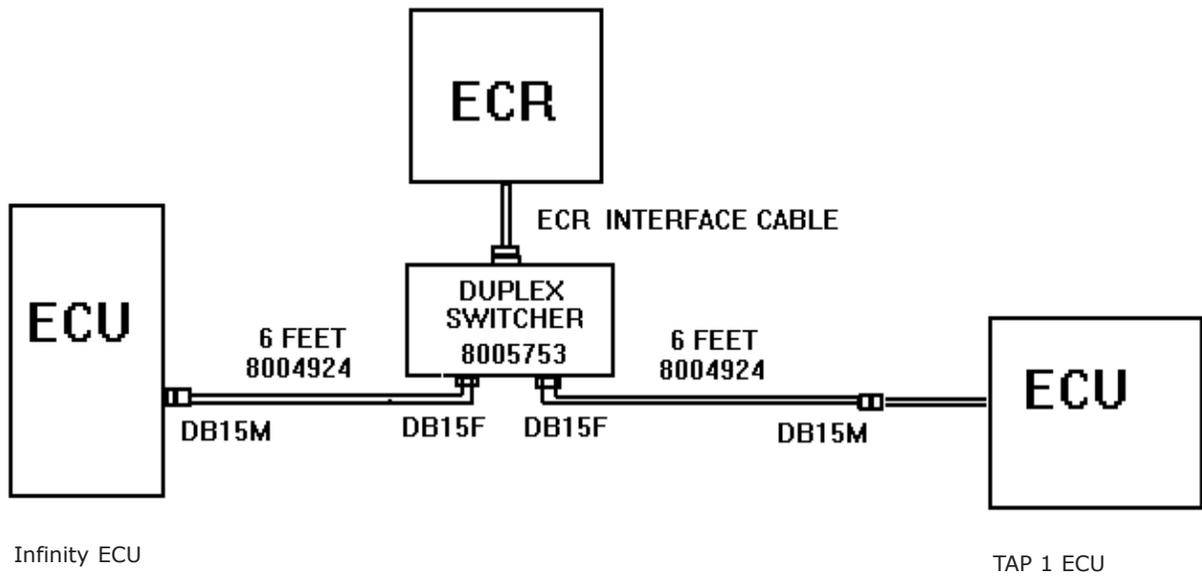
You can use a duplex switcher to connect two ECUs (TAP 1, Infinity or 1544 Infinity) to a single sales terminal that uses parallel communication. The switcher routes two parallel communications channels to one port. The limit is two ECUs connected to one sales terminal using the duplex switcher (you can't cascade this switcher).

■ To install a duplex switcher:

1. Unplug the ECUs and the sales terminal.
2. Install the duplex switcher (PN 8005753) within 6 ft of each ECU.
3. Attach one end of a 6 ft molded cable (PN8004924) to an IN port on the switcher. Attach the other end to the J903 port of an Infinity ECU, the ECR pigtail of a TAP 1 ECU, or the J5A port of a 1544 Infinity ECU.
4. Attach another 6 ft molded cable to the second IN port on the switcher. Attach the other end to the J903 port of an Infinity ECU, the ECR pigtail of a TAP 1 ECU, or the J5A port of a 1544 Infinity ECU.
5. Attach the sales terminal interface cable (supplied by the provider of the board installed in the sales terminal) to the OUT port on the switcher.
6. Plug in the ECUs and the sales terminal.

Notes

- The maximum distance from the sales terminal to any ECU is 50 ft.
- The duplex switcher connects one ECU to the sales terminal for as long as it takes to send an entire drink code. Only after it sends the entire packet of sales information does it switch to the other ECU. The time needed to send a drink code is dependent on the number of key presses in the code and the timing requirements of the sales terminal.
- You must have TAP 1 EPROM version 1.09 or later to use the duplex switcher.



The picture above shows a TAP 1 ECU and an Infinity ECU connected via the switcher to a POS terminal. The switcher can also connect two TAP 1 ECUs or two Infinity ECUs or two 1544 Infinity ECUs to a POS terminal.

Install a TAP 1 Parallel ECR Multiplexer

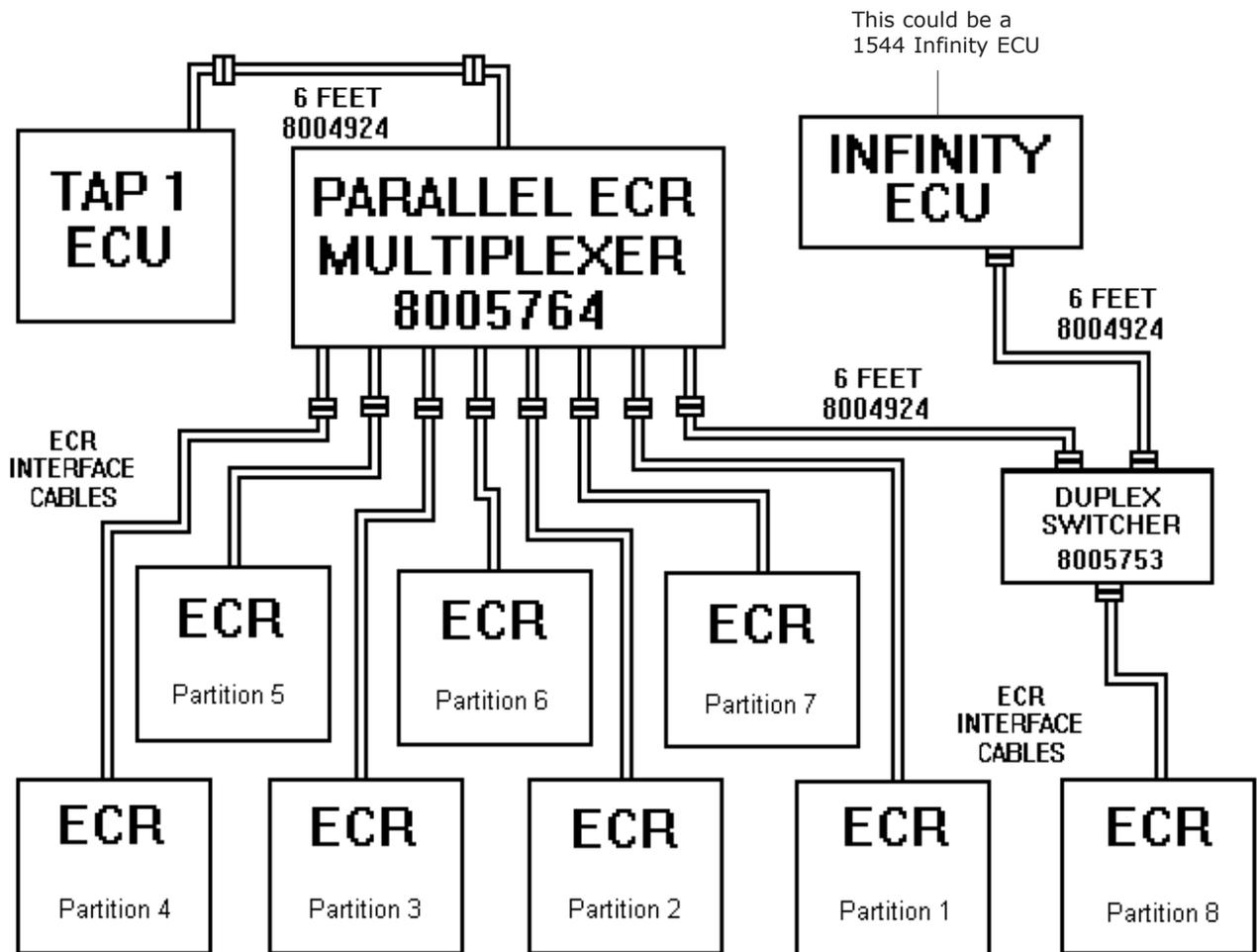
You can use a multiplexer to connect the partitions of a TAP 1 ECU to multiple sales terminals that use parallel communication. The limit is eight partitions connected to eight sales terminals using the multiplexer.

■ To install a multiplexer:

1. Unplug the TAP 1 ECU and the sales terminals.
2. Install the multiplexer (PN 8005764) within 6 ft of the TAP 1 ECU.
3. Attach one end of a 6 ft molded cable (PN8004924) to the multiplexer. Attach the other end to the ECR pigtail of the TAP 1 ECU.
4. Attach the sales terminal interface cable (supplied by the provider of the boards installed in the sales terminals) from each sales terminal to the multiplexer.
6. Plug in the ECUs and the sales terminal.

Notes

- The maximum distance from the TAP 1 ECU to the multiplexer is 50 ft. The maximum distance from the multiplexer to any sales terminal is 50 ft.
- In the event multiple requests reach the TAP 1 ECU at the same time, there will be no delay. All taps will pour immediately. During the pours, each PLU will be sent to the appropriate sales terminal.
- You must have TAP 1 EPROM version 1.09 or later to use the multiplexer.
- The TAP 1 ECU must be divided into partitions using **Infinity** software to use the multiplexer.



The picture above shows a TAP 1 ECU connected via the multiplexer to eight ECR terminals. Note that one of the multiplexer outputs is connected to the ECR terminal via a parallel duplex switcher. This is not part of the multiplexer package and is only shown as an example.

Install Interface Software at a New Site

Interface software is packaged with **Infinity** software on the **Infinity** installation CD. You don't need to perform a separate installation for **Interface**; simply respond to the setup prompts regarding **Interface** during your **Infinity** installation. Once installed, **Interface** menus become part of **Infinity's Manager** program.

■ To install Interface software at a new site:

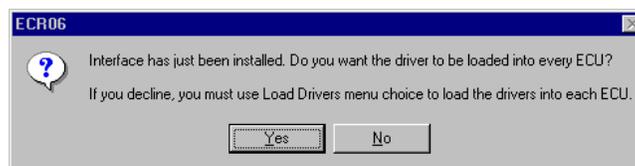
1. Follow the steps outlined in *Install Infinity Software at a New Site* in the *Software Installation* section of the *Infinity Installation/Service and User Manual*.

Interface Type

- In most cases, you can find the name of your terminal, software package or POS system and select it. If you find both the sales terminal and the software package, select the software package.
- If you've installed a Postech interface board on your POS terminal, select Postech board. If you've installed some other interface board, select Berg Parallel.
- Finally, if none of the above apply, select Berg Generic.



2. When prompted, select the appropriate **POS/ECR Interface Type** for the sales terminal. This determines which driver file is loaded to the ECUs for communication with the sales terminal. (Click **Help** for a description of each type.)
3. Once the software is installed, run **Manager** to access **Interface** menu items.



4. The first time you run **Manager** after installing **Interface**, you'll have a chance to load drivers to the ECUs.

Click **Yes** to load drivers. This is just a convenient way to automatically communicate with the ECUs and load the drivers. You can still change your default options and modifiers later and send any changes to the ECUs.

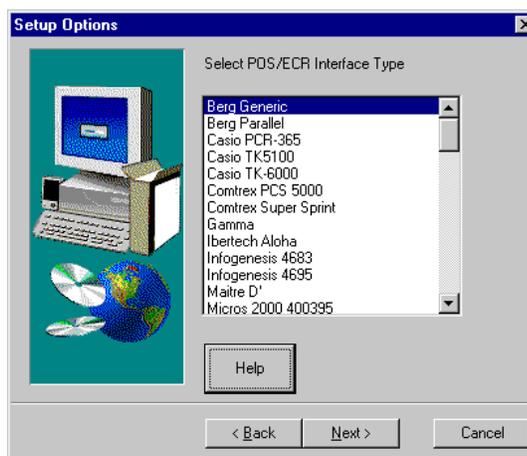
Click **No** if you prefer not to load the drivers at this time. You can load them later using the **Load Driver...** menu item.

Upgrade Existing Interface Software

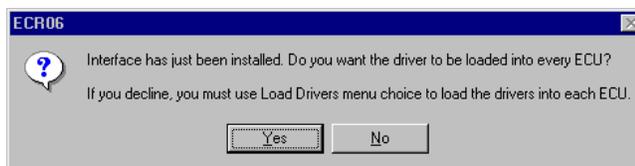
You upgrade **Interface** software as part of an **Infinity** software upgrade. Upgrading is easy and allows you to keep your currently defined options and modifiers.

■ To upgrade existing Interface software:

1. Follow the steps outlined in *Upgrade Existing Infinity Software* in the *Software Installation* section of the *Infinity Installation/Service and User Manual*.



2. When prompted, select the appropriate **POS/ECR Interface Type** for the sales terminal. This determines which driver file is loaded to the ECUs for communication with the sales terminal. (See *Install Interface Software at a New Site* in this section for a description of each type.)
3. Once the software is installed, run **Manager** to access **Interface** menu items.



4. The first time you run **Manager** after installing **Interface**, you'll have a chance to load drivers to the ECUs.

Click **Yes** to load drivers. This is just a convenient way to automatically communicate with the ECUs and load the drivers. You can still change your default options and modifiers later and send any changes to the ECUs.

Click **No** if you prefer not to load the drivers at this time. You can load them later using the **Load Driver...** menu item.

Uninstall Interface Software

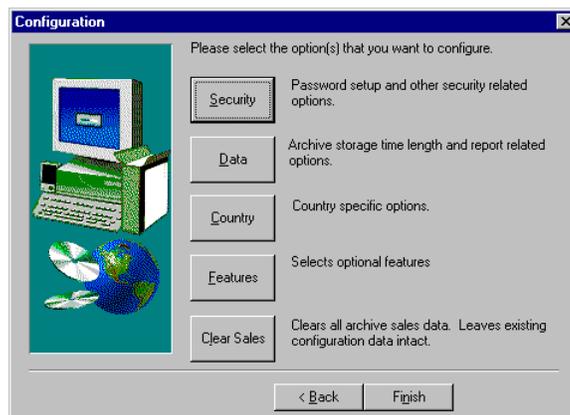
If you uninstall **Infinity** software, **Interface** software is automatically uninstalled also. See *Uninstall Infinity Software* in the *Software Basics* section of the *Infinity Installation/Service and User Manual*. If you want to remove **Interface** features from your **Infinity** software, perform this task.

■ To disable Interface:

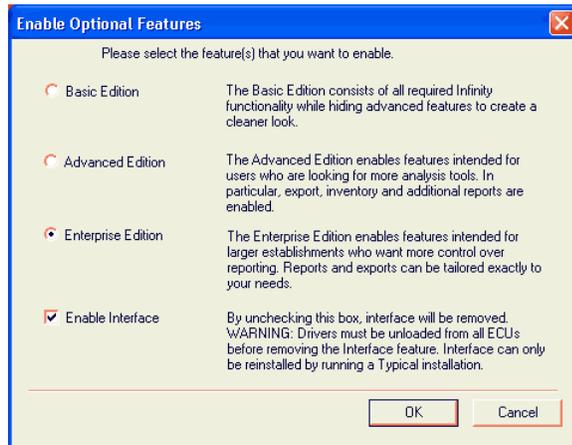
1. Remove drivers from every ECU. See *Remove a Driver* in the *Drivers* section.
2. Insert the **Infinity** CD in the CD drive. (Use the same CD used to install **Infinity** or the serial numbers won't match.)



3. If the setup program doesn't automatically start, click **Start**. Click **Run**. Type **e:\setup** (where **e** is the CD drive letter), and click **OK**.
4. Follow the instructions on your screen. Click **Next** to continue through the setup process or **Back** to return to a previous screen. Click **Cancel** to stop the setup process.
5. Click **Configure** on the **Setup Options** screen.
6. Click **Next** to accept the path of the database. To select a different path, type it in the entry field or click **Browse**.
7. Click **Next** to verify the operation. The **Configuration** screen appears.



8. Click **Features**.



9. Uncheck the **Enable Interface** field.
10. Click **OK** to save your entry and return to the **Configuration** screen.
11. Click **Finish** to exit the **Configuration** screen.
12. Remove the CD from the CD drive.

The next time you run **Manager**, **Interface** will not appear in the main menu.

3 Drivers

The appropriate driver file must be downloaded to the ECUs if they are to communicate with a sales terminal. The driver file gives the ECUs the necessary format for sending sales information to a specific terminal. After you download the driver to the ECUs in your stations and/or groups, it's a good idea to test the interface to verify correct drink information is passed to the sales terminal when you pour drinks. To edit or download drivers or driver settings to a station or group if password protection is enabled, you must have an **Infinity** access level of 1 or 2.

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Enter Non-Default Driver Settings (Options and Modifiers)	3-10
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About Options

You can customize the way specific pouring needs are met by selecting appropriate options. These options alter the way communication occurs between the ECUs and the sales terminal. You can establish default options for the system, and then change them for a particular station or group if you need to. For help with entering options, see *Enter Default Driver Settings (Options and Modifiers)* in this section.

Transaction Mode	This option (used only by NCR) requires the operator to be signed in at the mainframe computer before Infinity can pour. In most cases, Berg recommends not selecting transaction mode. The sales terminal can better handle this option.
Wait For Release	Wait For Release means the ECU sends pour information to the sales terminal and then waits for approval (or release) before initiating a pour. (This communication occurs in hundredths of seconds.) Waiting for release ensures the drink isn't poured without ringing up at the sales terminal. ECR terminals do not send an approval, so this feature is not available if you're using an ECR compatible driver.
Pour Without Release	Pour without release lets the ECU pour a drink without waiting for approval (or release) from the sales terminal. You may want to select Pour Without Release if the sales terminal is slowing down the pouring of drinks at a specific station or group. If you select this option and communication errors occur between the ECU and sales terminal, drinks may pour without being rung up at the sales terminal.
Send After Pour	Send After Pour tells the ECU to pour a drink and then send sales information to the sales terminal. You may want to select this option so dispensers begin pouring immediately upon pressing the dispenser button or tilting the bottle. This is especially useful with ECR systems where it may take a second or two to ring up the pour. Note that this option may affect the handling of cancelled pours.
Timeout Value	For all POS drivers, Timeout Value is the maximum number of seconds the ECU waits for sales terminal release of a drink code. (If you select Pour Without Release or Send After Pour, the timeout value becomes irrelevant for POS drivers.) Berg sets a factory default timeout value for each driver. Leave this value set at the default initially (typically 3 seconds). The ideal Timeout Value may vary from sales terminal to sales terminal. If you set it too low, drinks may ring at the sales terminal but never pour at Infinity (the ECU gives up waiting for approval and abandons the pour).

Setting the Timeout Value lower will not speed up the pouring of a drink after its request. It simply describes how long the ECU waits for the sales terminal to respond. It does not dictate how fast the sales terminal responds.

If you repeatedly have problems with drinks ringing at the sales terminal but not pouring on Infinity, increase the Timeout Value. This should solve the problem. If it doesn't, you might consider using the Pour Without Release option.

Timeout Value and the ECR Interface

If you're using an ECR compatible driver, the Timeout Value is a calculated numerical code representing a particular combination of the Key Press Time and Key Delay Time. (Key Press Time controls how long the simulated key press lasts and Key Delay Time is the interval between key presses.)

Use only the specific Timeout Values calculated by Berg. The default Timeout Value of 25.70 should work for most sales terminals, but you may be able to increase the speed with which the sales terminal rings up drinks by using a lower value. To determine an appropriate lower value use the following procedure:

1. Start with the first Timeout Value at the top of the following table and test the interface.

Key Press Time (ms)	Key Delay Time (ms)	Time Out Value
100	100	25.70
90	90	23.13
80	80	20.56
70	70	17.99
60	60	15.42
50	50	12.85
40	40	10.28
30	30	7.71
20	20	5.14

2. If pours ring correctly, go to the next Timeout Value in the table and test the interface again. Repeat this step until you reach a Timeout Value that no longer rings correctly.
3. Move back up the table 2 lines and use that Timeout Value.

About Modifiers

Modifiers distinguish one drink from another if separate PLUs are not used for this purpose. If the sales terminal you selected at **Interface** installation doesn't use modifiers, the modifier fields are disabled on the **Driver Settings** screen. (ECR terminals do not use modifiers). However, you may still be using comp or cancel increments to the PLU if the sales terminal supports them. For help with entering modifiers, see *Enter Default Driver Settings (Options and Modifiers)* in this section.

Modifier Order

The string of modifiers sent in a drink code to the sales terminal must be arranged in a particular order. Some sales terminals require the PLU first, or a size modifier first and price level modifier second, and so on. Learn from the sales terminal representative the order required by the sales terminal so you can enter it correctly in **Interface** software. The **Driver Settings** screen includes a **Show Example** button that can help you double-check the modifier order. After you've added the modifiers you want to the **Current Modifier Order** list, click the **Show Example** button. You'll see an example string of sales information using the modifiers in the order you've entered them. Make sure that order matches the order required by the sales terminal.

Bookends

Bookends describe the codes that may be required by the sales terminal to signal the beginning and/or end of a transaction or PLU. For example, if the sales terminal requires a key press before you ring up a drink and one after you've rung up the drink, you'll need to enter the codes for those key presses as **Transaction Bookends**. You don't have to include bookend modifiers in the modifier order list, since their position in the drink code is already defined.

Size and Price Level Modifiers

If the sales terminal doesn't use separate PLUs to identify the size and/or price level of a brand, you need to determine the size and/or price level modifiers the sales terminal uses. Learn from the sales terminal representative what the modifiers are.

Interface software accepts modifier codes from 1 to 255. You can enter 2 codes for each modifier if necessary. You must include the size and/or price level modifier in the **Current Modifier Order** list before you can enter the modifiers.

Size Placekeeper for Cocktails

If your sales terminal uses size modifiers, a number is sent to the sales terminal in the drink code that defines the drink as small, medium or large. Since a cocktail doesn't usually have a size modifier, its drink code is shorter than that of other pours. If your sales terminal requires all drink codes to be the same length, you can tell **Interface** to insert a "placekeeper" in a cocktail drink

code to make it the same length as other pours. If your sales terminal can handle drink codes of variable length, don't use the placekeeper. This avoids sending unnecessary information to the sales terminal.

Comp and Cancel Modifiers

Your sales terminal may use modifiers to identify comp or canceled drinks. If so, find out what the modifiers are and the order they appear in the drink code. You must include the comp and/or cancel modifier in the **Current Modifier Order** List before you can enter the modifiers.

Comp and Cancel Increments (Add to PLU)

Your sales terminal may derive separate PLUs for comp or canceled drinks using increments rather than identifying these pours with modifiers. For example, using a comp increment of 1000 means all PLUs under 1000 are regular drinks and all PLUs over 1000 are comp drinks. If you want to enter a comp or cancel increment, do not include the comp or cancel modifier in the **Current Modifier Order** list. Simply enter the increment in the **Add to PLU** box under **Comp Modifier** or **Cancel Modifier** on the **Auxiliary Modifiers** tab. If you define both comp and cancel increments, they are both added to the base PLU of a canceled comp drink.

Type Modifier

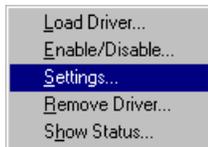
A type modifier may be required by your sales terminal to distinguish a cocktail pour from a typical brand pour. If so, learn what the modifiers are and the order they appear in the drink code. You must include the type modifier in the **Current Modifier Order** list before you can enter the modifiers.

Enter Default Driver Settings (Options and Modifiers)

Driver settings include options you can select for **Interface's** performance and any PLU modifiers that may be required by the sales terminal. The driver settings available to you depend on your type of driver. If you have questions about options or modifiers see *About Options* or *About Modifiers* in this section. Once you've entered your options and modifiers, you can save them as your default settings. Saving as defaults does not send the settings to the ECU(s).

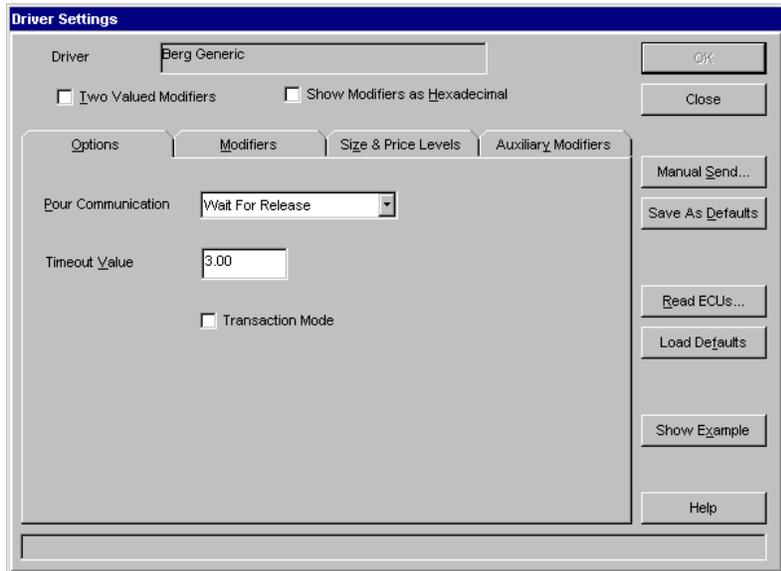
■ **To enter default driver settings:**

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Settings....**



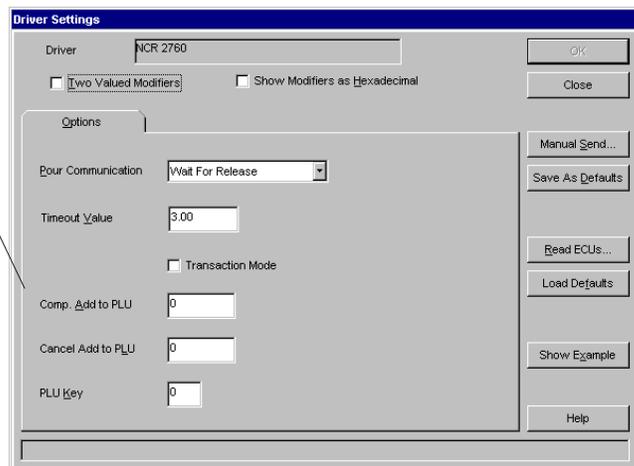
Your Tabs May Look Different

- Depending on your driver, you may not have access to tabs for features not supported by your sales terminal.
- Some features you see may not be supported by your sales terminal.
- Some features for your driver may appear on the **Options** tab if you don't see other tabs.



NCR only

- Select **Transaction Mode** only if you want the bartender to be signed in at an NCR terminal's mainframe computer before **Infinity** will pour.
- Enter the **PLU Key** modifier required by your sales terminal.



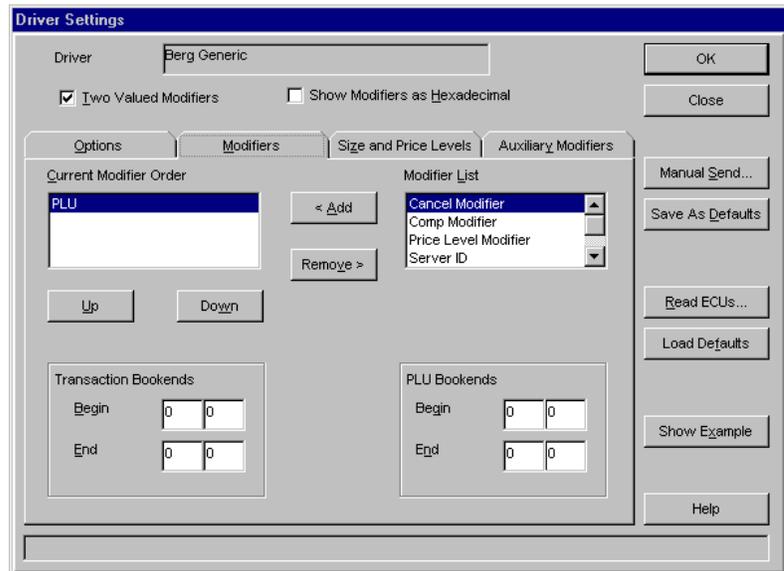
3. Select a **Pour Communication** option. See *About Options* in this section if you need help.

Communication Option	Effect
Wait For Release	The ECU sends drink information to the sales terminal and waits for approval (release) before pouring the drink.
Pour Without Release	The ECU sends drink information to the sales terminal before pouring a drink, but doesn't wait for sales terminal approval to start the pour.
Send After Pour	The ECU pours the drink before sending drink information to the sales terminal.

4. Enter a new **Timeout Value** only if you've already tested the default one.
5. Click the **Modifiers** tab if your sales terminal requires any PLU modifiers.

Load Defaults

- Use this button to view the default options and modifiers for your driver type. If you haven't saved any defaults, the defaults displayed are Berg's.



Show Example

- Click this button after you've completed the **Current Modifier Order** list. You'll see an example drink code using the modifiers in the order you've placed them. Make sure the order of the modifiers meets the requirements of the sales terminal.

6. Select a modifier from the **Modifier List** and click **<Add** to move the modifier to the **Current Modifier Order** list.

The modifier is added to the list above **PLU**. If you want the modifier after **PLU**, select the modifier and drag it to the desired position or use the **Up** and **Down** buttons. Continue adding modifiers to the **Current Modifier Order** list as required by the sales terminal. Verify the modifiers appear in the list in the correct order.

7. Enter any **Transaction Bookends** required by the sales terminal. The **Begin** code signals the start of a transaction and the **End** code completes the transaction.
8. Enter any **PLU Bookends** that signal the **Beginning** and **End** of a **PLU** if the sales terminal requires them.

- Click the **Size and Price Levels** tab if the sales terminal requires size or price level modifiers.

Two Valued Modifiers

- Select this feature if the sales terminal requires 2 codes for each modifier.

Modifiers as Hexadecimal

- Select this feature if you want to enter and view the modifier codes in hexadecimal rather than decimal format. This doesn't change the codes—it may be more convenient if the sales terminal codes are documented in hexadecimal.
- Selecting this feature does not affect increments added to the PLU or the Timeout Value.

The screenshot shows the 'Driver Settings' dialog box with the 'Size and Price Levels' tab selected. The 'Driver' field is set to 'Berg Generic'. There are two checkboxes: 'Two Valued Modifiers' and 'Show Modifiers as Hexadecimal', both of which are currently unchecked. The dialog is divided into four tabs: 'Options', 'Modifiers', 'Size and Price Levels', and 'Auxiliary Modifiers'. Under the 'Modifiers' tab, there are three sections: 'Price Level Modifier' with fields for A, B, and C; 'Size Modifier' with fields for 1, 2, and 3; and 'Tap Size Modifier' with fields for 1, 2, 3, and 4. A checkbox for 'Size Placekeeper for Cocktails' is located at the bottom. On the right side, there are several buttons: 'OK', 'Cancel', 'Manual Send...', 'Save As Defaults', 'Read ECUs...', 'Load Defaults', 'Show Example', and 'Help'.

- Type in the **Price Level Modifiers** and/or **Size Modifiers**. **Interface** accepts modifiers from 1-255.

- Select **Size Placekeeper for Cocktails** only if the sales terminal requires it.

- Click the **Auxiliary Modifiers** tab if the sales terminal requires comp, cancel or type modifiers or increments.

The screenshot shows the 'Driver Settings' dialog box with the 'Auxiliary Modifiers' tab selected. The 'Driver' field is set to 'Berg Generic'. There are two checkboxes: 'Two Valued Modifiers' and 'Show Modifiers as Hexadecimal', both of which are currently unchecked. The dialog is divided into four tabs: 'Options', 'Modifiers', 'Size & Price Levels', and 'Auxiliary Modifiers'. Under the 'Auxiliary Modifiers' tab, there are three sections: 'Comp Modifier' with fields for 'Comp', 'Paid', and 'Add to PLU'; 'Cancel Modifier' with fields for 'Cancel', 'Regular', and 'Add to PLU'; and 'Type Modifier' with fields for 'Brand' and 'Cocktail'. On the right side, there are several buttons: 'OK', 'Cancel', 'Manual Send...', 'Save As Defaults', 'Read ECUs...', 'Load Defaults', 'Show Example', and 'Help'.

- Type in the **Comp, Cancel** and/or **Type Modifiers**. **Interface** accepts modifiers from 1-255.

Read ECUs

- Use this button to view the options and modifiers already loaded to the ECUs in a station or group.

The screenshot shows the 'Driver Settings' dialog box with the 'Auxiliary Modifiers' tab selected. The driver name is 'Berg Generic'. There are two checkboxes: 'Two Valued Modifiers' and 'Show Modifiers as Hexadecimal'. The 'Auxiliary Modifiers' tab contains three sections: 'Comp Modifier', 'Cancel Modifier', and 'Type Modifier'. Each section has a 'Comp' or 'Cancel' field, a 'Regular' field, and an 'Add To PLU' field, all with a value of 0. On the right side, there are buttons for 'OK', 'Cancel', 'Manual Send...', 'Save As Defaults', 'Read ECUs...', 'Load Defaults', 'Show Example', and 'Help'.

14. If the sales terminal requires a PLU increment to signal comp or cancel drinks instead of a modifier, enter the increment in the **Add to PLU** box.

The increment plus the PLU should not exceed the PLU limit for your driver (either 32,767 or 65,535). The comp or cancel modifier should not be included in the **Current Modifier Order** list if you're using comp or cancel increments.

15. Click **Save as Defaults** to save your entries on all tabs as your default settings.

OR

Click **OK** to save your entries as your default settings AND send them to all ECUs that have a driver loaded (this doesn't load the driver).

If you're defining default settings before you've loaded any drivers, you don't need to send the settings to the ECUs from this screen. When you load drivers to the ECUs, your default settings are automatically loaded.

16. Click **Close** to exit the **Driver Settings** screen.

Note

- ☐ If you have a specific station or group that needs non-default settings, see *Enter Non-Default Driver Settings (Options and Modifiers)* in this section.

Manual Send

- To send the driver settings on the screen to a specific station or group (rather than the whole system) click **Manual Send...**

Enter Non-Default Driver Settings (Options and Modifiers)

You may have a specific station or group that needs settings other than your default settings. You can enter the non-default settings and send them directly to the specific station or group without affecting your default settings. Do not perform this operation while drinks are being poured.

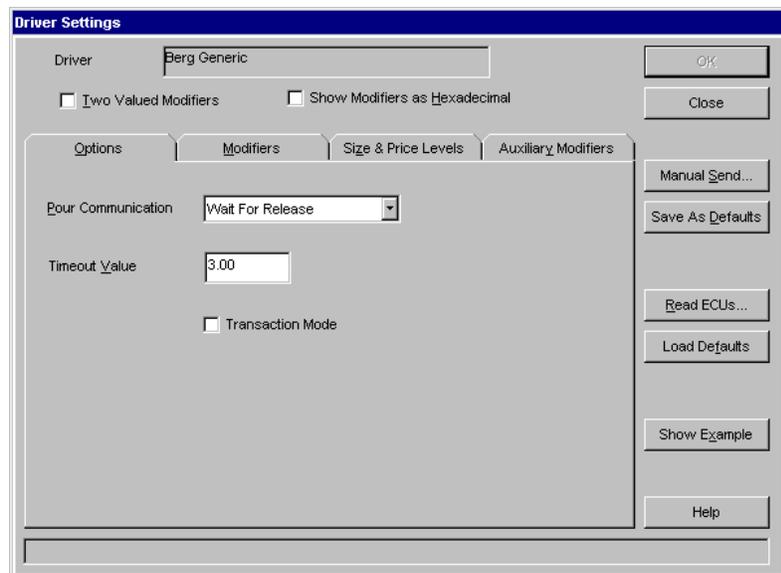
■ To enter non-default driver settings:

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Settings.....**



Read ECUs

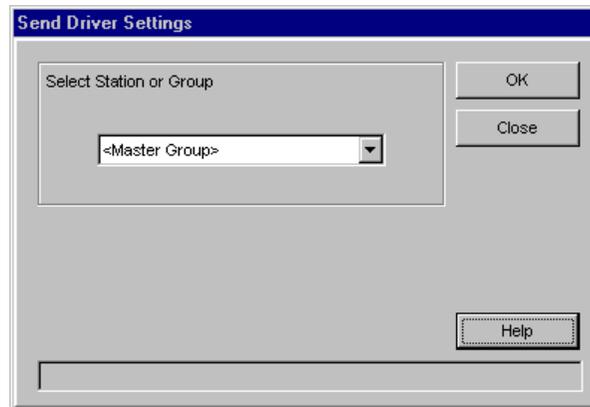
- To view the settings currently loaded at the station or group, click **Read ECUs....**



3. Click **Load Defaults** if you want to view your default settings on all tabs.
4. Enter the changes you want to make to your default settings. If you need help, see *About Options*, *About Modifiers* or *Enter Default Driver Settings (Options and Modifiers)* in this section.
5. Click **Manual Send**.

TAP 1 Partitions

- You can't send different settings to partition 1 and partition 2 of the same TAP 1 ECU. Although you can select a single partition when you send settings, the settings will be sent to all partitions of the TAP 1 ECU.



6. Select the name of the **Station or Group** where you want to send the settings you've entered.
7. Click **OK**. (Click **Cancel** to exit the send process.)
Wait while communication with the ECU(s) occurs.
8. Click **Close** to exit the **Driver Settings** screen.

Send Driver Settings (Options and Modifiers) to ECUs

Default driver settings are automatically sent to an ECU when a driver is loaded at the ECU for the first time. Perform this task if you need to send non-default settings to a station or group. Do not perform this operation while drinks are being poured.

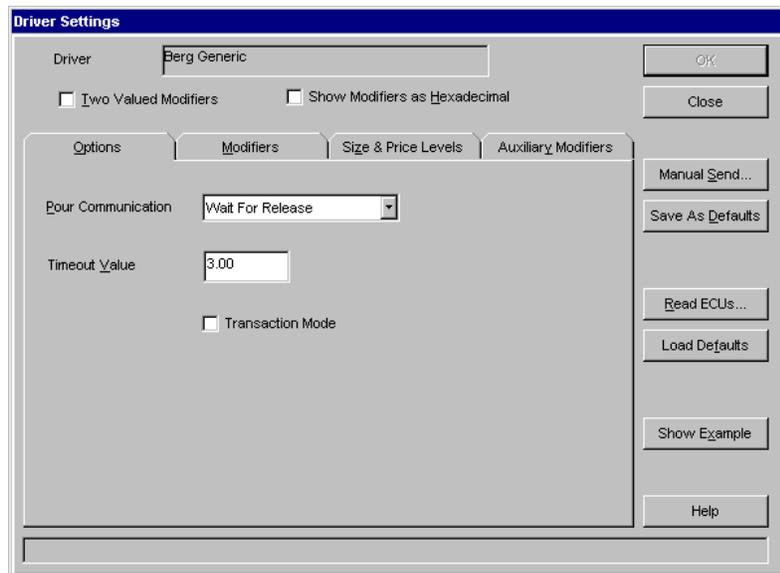
■ To send driver settings to ECUs:

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Settings.....**



Read ECUs

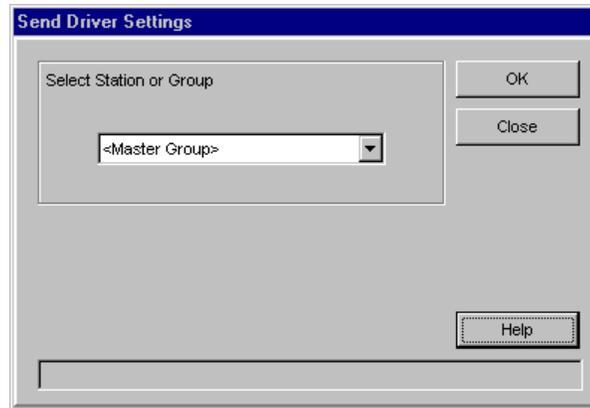
- To view the settings currently loaded at the station or group, click **Read ECUs.....**



3. Enter the driver settings you want on all tabs. (Click **Load Defaults** if you want to view your default settings.) If you need help, see *About Options*, *About Modifiers* or *Enter Default Driver Settings (Options and Modifiers)* in this section. The entries you see on the screen for all tabs are the ones that will be sent to the ECU(s).
4. Click **Manual Send**.

TAP 1 Partitions

- You can't send different settings to partition 1 and partition 2 of the same TAP 1 ECU. Although you can select a single partition when you send settings, the settings will be sent to all partitions of the TAP 1 ECU.



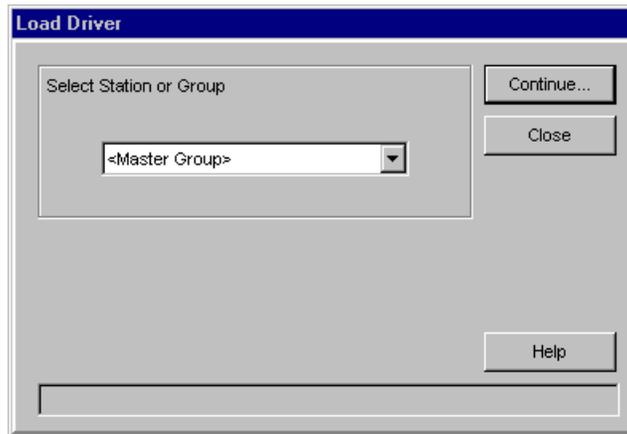
5. Select the name of the **Station or Group** where you want to send the driver settings.
6. Click **OK**. (Click **Cancel** to exit the send process.)
Wait while communication with the ECU(s) occurs.
7. Click **Close** to exit the **Driver Settings** screen.

Load a Driver

A driver is a computer file included with your **Interface** software that knows how to communicate with the specific hardware of your sales terminal. Each sales terminal interface requires a unique driver. You should have selected the appropriate driver for your sales terminal when you installed **Interface** software. If you said **Yes** to the automatic loading of drivers (when running **Manager** after installing **Interface**), you don't need to perform this task. Do not perform this task while drinks are being poured. If you're installing drivers in your stations or groups for the first time, test the driver. See *Driver Test* in this section.

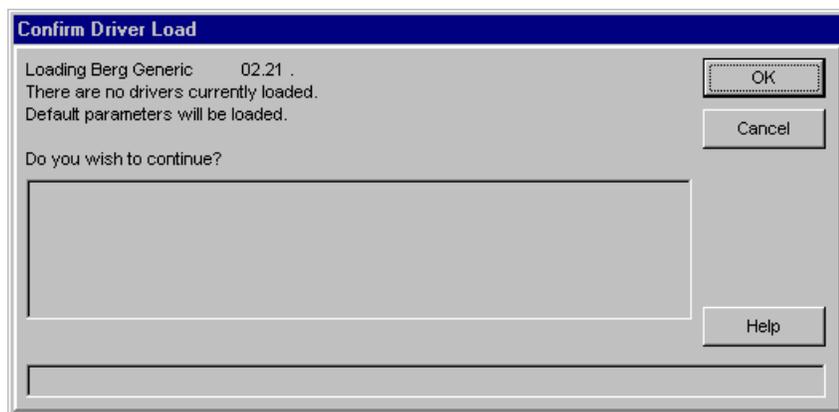
■ To load a driver:

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Load Driver....**

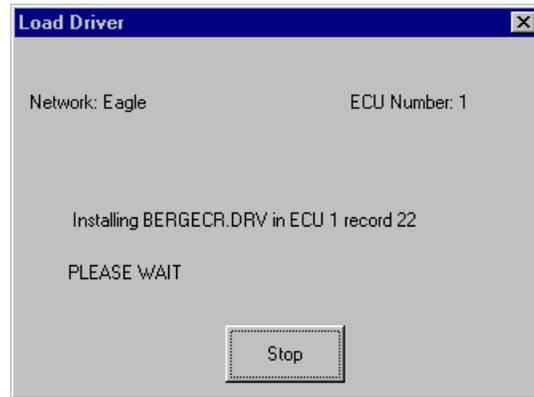


3. Select the name of the **Station or Group** where you want to load a driver.
4. Click **Continue....**

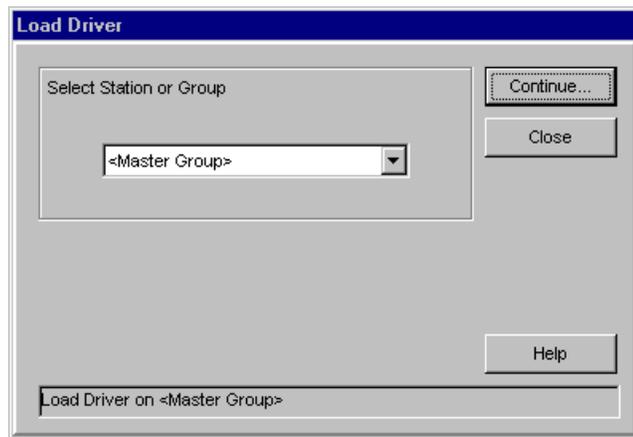
A confirmation screen lists the driver version, whether a driver is currently loaded, and whether default settings (options and modifiers) for the driver will be loaded.



5. Click **OK** to confirm loading of the driver. (Click **Cancel** to cancel loading the driver.)



Wait while communication with the ECU(s) occurs. A message informs you when the procedure is complete.



6. Click **Close** to exit the **Load Driver** screen.

Note

- ❑ If you're installing drivers in your stations or groups for the first time, follow the test procedure outlined in *Driver Test* in this section.

Driver Test

When you load a driver to a station or group for the first time, it's a good idea to test each station to verify correct drink information is ringing at the sales terminal.

Pour W/O Release

It's a good idea to set the **Pour Communication** option to **Pour Without Release** for testing.

You can then reset to **Wait for Release** or **Send After Pour** when you've finished testing.

POSTest

To check the output of the driver, use the **POSTest** utility found on the Infinity installation disk.

Run `E:\tools\postest\setup.exe` (where E is your CD drive).

■ To test the driver at a station:

1. Load the driver to the station. See *Load a Driver* in this section.
2. Pour drinks at the station. Verify the correct price is ringing at the sales terminal for each drink poured.
3. If the station isn't ringing up drinks properly, try to determine the source of the problem:

Is communication between the ECU and sales terminal failing?

Check all hardware and cable connections.

Are drinks ringing at the sales terminal, but at the wrong price?

Verify you've entered PLUs into Infinity that match the PLUs at the sales terminal. Re-enter PLUs if necessary. If your sales terminal uses modifiers, verify you've entered modifiers that match the sales terminal's.

Are you having trouble with timing?

Check the default or station options you've set and adjust them if necessary.

See the *Troubleshooting* section for detailed help with specific problems.

4. Once the station is ringing up drinks correctly, save any changes you've made to options and modifiers as your defaults.
5. Install the driver to any remaining stations.
6. Test each station individually, making any necessary changes. Make sure each station is pouring and ringing up drinks correctly.

Enable or Disable a Driver

Once you've loaded a driver to a station or group, you can disable it if you need to and then re-enable it at any time. If you want to completely remove the driver from the ECUs in the station or group, see *Remove a Driver* in this section.



- The **Unknown** field is selected if **Show Actual** is not selected. (The software has no way of knowing the current driver enable status unless it communicates with the ECU.)
- The **Unknown** field may also be selected if the drivers in some ECUs within a group you've selected are enabled and others are disabled.

TAP 1 Partitions

- If you change the driver enable status of a TAP 1 partition, you are changing the status for all partitions of that ECU.

■ To enable or disable a driver:

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Enable/Disable....**



3. Select the name of the **Station or Group** with drivers you want to enable or disable.
4. Select **Show Actual** if you want the software to communicate with the ECUs to determine their current status. Wait while the communication occurs.
5. Select **Enabled** to enable the driver in the station or group you have selected.

OR

Select **Disabled** to disable the driver in the station or group you have selected.

6. Click **Run** to send the enable or disable message to the ECUs.

Wait while the communication occurs. A message informs you when the procedure is complete.

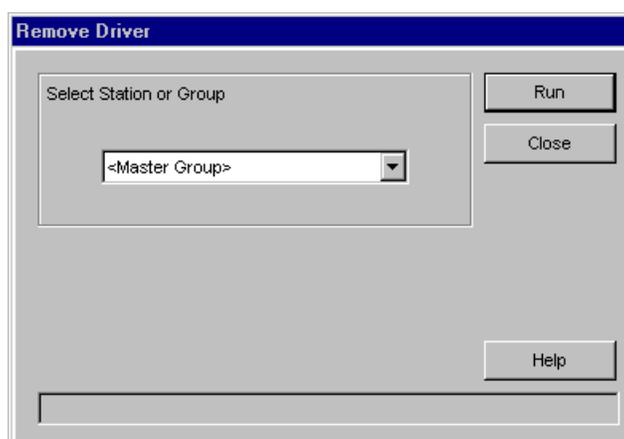
7. Click **Cancel** to exit the **Enable/Disable Driver** screen.

Remove a Driver

When you remove a driver from a station or group, the ECUs in the station or group no longer have the capacity to send drink information to the specific sales terminal associated with the driver. Do not perform this operation while drinks are being poured.

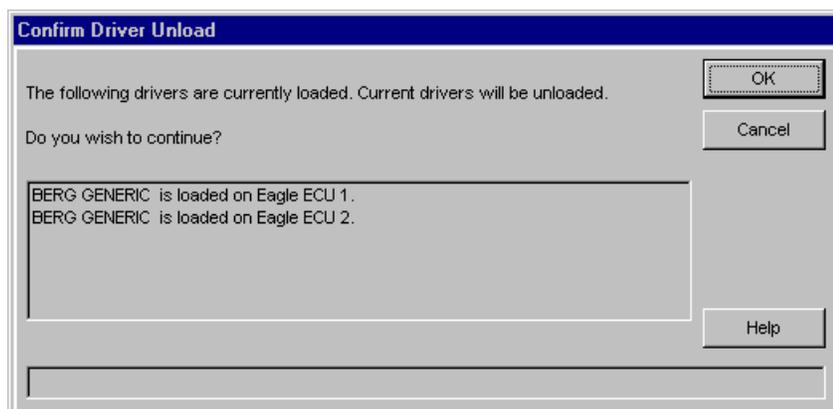
■ To remove a driver:

1. Run **Manager**.
2. Pull down the **Interface** menu and click **Remove Driver....**



3. Select the name of the **Station or Group** with drivers you want to remove.
4. Click **Continue....**

A confirmation screen lists the currently loaded drivers in the station or group.



5. Click **OK** to confirm unloading of the driver. (Click **Cancel** to cancel unloading the driver.)

Wait while communication with the ECU(s) occurs. A message informs you when the procedure is complete.

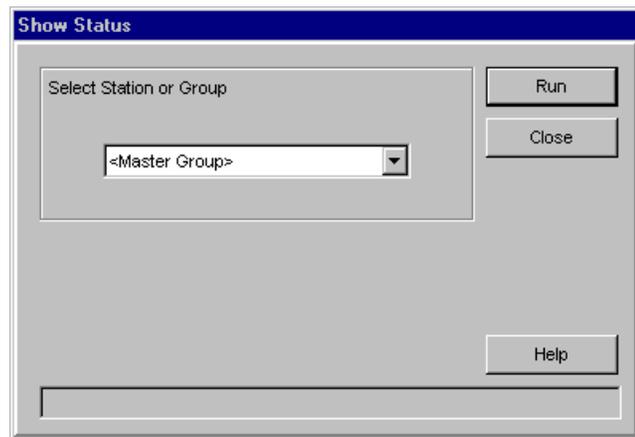
6. Click **Close** to exit the **Remove Driver** screen.

Show Driver Status

Use this feature of **Interface** software to find out if drivers are loaded and enabled at the ECUs in a station or group.

■ To show driver status:

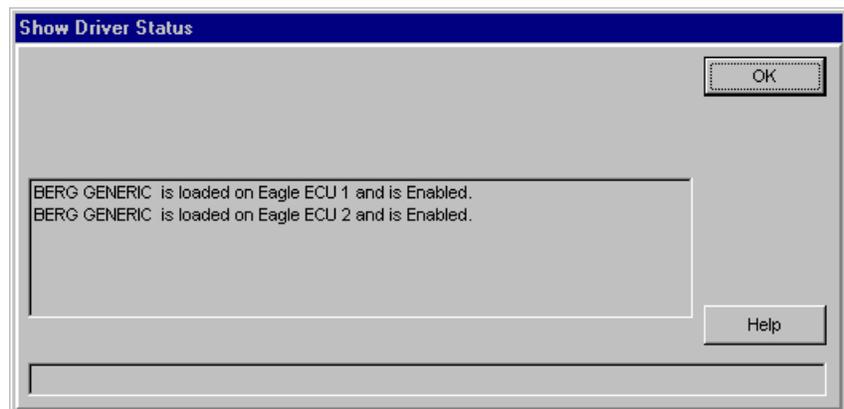
1. Run **Manager**.
2. Pull down the **Interface** menu and click **Show Status.....**



3. Select the name of the **Station or Group** whose driver status you want to view.
4. Click **Run**.

Wait while communication with the ECU(s) occurs.

A status screen lists the currently loaded drivers and their enable status.



5. Click **OK** after viewing the driver status.
6. Click **Close** to exit the **Show Status** screen.

4 Example PLU & Modifier Configurations

To help you become more familiar with the different ways sales terminal may be set up to work with PLUs we've put together four examples. Each example illustrates a different combination of PLUs and modifiers. Before you tackle your first **Interface** installation, it might be helpful to study these examples.

Example #1: Size, Price Level and Brand PLUs	4-2
Example #2: Size and Brand PLUs	4-4
Example #3: Price Level and Brand PLUs	4-6
Example #4: Brand PLUs	4-8

Example #1: Size, Price Level and Brand PLUs

This example demonstrates what your worksheet looks like if you have unique PLUs for every drink. This format has no need for size or price level modifiers because every size pour of every brand at every price level has its own PLU. This example configuration works well for the Infogenesis, Micros 4700 or any other sales terminal that does not use modifiers.

(If you're using this format, but you also want to define an increment or some other modifier, see the other examples in this section.)

PLU/Modifier Order

PLU

Since we're not sending any modifiers in this example, we don't have to add anything to the **Current Modifier Order** list.

Brand Name: _____ Price/Portion Category: Standard _____
 Product Type: Liquor Wine Mixer

Price Level A

Size	Portion	Price	PLU
1 (S)			1
2 (R)			2
3 (L)			3

Price Level B

Size	Portion	Price	PLU
1 (S)			4
2 (R)			5
3 (L)			6

Price Level C

Size	Portion	Price	PLU
1 (S)			7
2 (R)			8
3 (L)			9

Use as default prices and portions for this product type

Options Modifiers Size and Price Levels Auxiliary Modifiers

Current Modifier Order

PLU

< Add

Remove >

Modifier List

Comp Modifier

Price Level Modifier

Server ID

Size Modifier

Transaction Bookends

Begin 0

End 0

PLU Bookends

Begin 0

End 0

Leave zeros in the fields you're not using to define modifiers.

Options Modifiers Size and Price Levels Auxiliary Modifiers

Price Level Modifier

A 0

B 0

C 0

Size Modifier

1 0

2 0

3 0

Tap Size Modifier

1 0

2 0

3 0

4 0

5 0

6 0

7 0

8 0

Size Placeholder for Cocktails

Options Modifiers Size & Price Levels Auxiliary Modifiers

Comp Modifier

Comp 0

Paid 0

Add to PLU 0

Cancel Modifier

Cancel 0

Regular 0

Add To PLU 0

Type Modifier

Brand 0

Cocktail 0

Transfer the PLUs from the *Getting Ready for Infinity Worksheet* to the correct **Prices and Portions Setup** screen using Manager software. Take care to enter each PLU in the correct space, both on the worksheet and in Infinity.

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	2
3	1.50	3.00	3

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	4
2	1.00	2.00	5
3	1.50	3.00	6

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	7
2	1.00	2.00	8
3	1.50	3.00	9

Example #2: Size and Brand PLUs

In this example, no distinction is made in the PLU for drinks at different price levels. A large, happy hour whiskey has the same PLU as a large dinner whiskey. Since no distinction is made for price in the PLU, the sales terminal receives that information in the form of a price level modifier. That means, in addition to entering all your PLUs on the worksheet, you need to fill out the price level modifier boxes and determine if the modifier should be sent before or after the PLU.

PLU Bookends

Begin

--	--

End

40	
----	--

PLU/Modifier Order

PLU
Price Level Modifier
Comp Modifier

The PLU/Modifier Order list from the worksheet provides the sequence for the **Current Modifier Order** list.

You may or may not have Begin and End PLU Bookends and a Comp Modifier.

Comp Modifier

Comp

33	
----	--

Paid

--	--

Add to PLU

--

Setting just one of these two results in variable length strings.

Price Level Modifier

A

26	
----	--

B

0	
---	--

C

31	
----	--

Price level B has no modifier in this case. (This results in variable length strings.)

Brand Name: _____ Price/Portion Category: Standard _____

Product Type: Liquor Wine Mixer

Price Level A

Size	Portion	Price	PLU
1 (S)			1
2 (R)			2
3 (L)			3

Price Level B

Size	Portion	Price	PLU
1 (S)			1
2 (R)			2
3 (L)			3

Price Level C

Size	Portion	Price	PLU
1 (S)			1
2 (R)			2
3 (L)			3

Use as default prices and portions for this product type

Options Modifiers Size & Price Levels Auxiliary Modifiers

Current Modifier Order

PLU
Price Level Modifier
Comp Modifier

< Add
Remove >

Up Down

Modifier List

Cancel Modifier
Server ID
Size Modifier
Type Modifier

Transaction Bookends

Begin 0
End 0

PLU Bookends

Begin 0
End 40

Leave zeros in the fields you're not using to define modifiers.

Options Modifiers Size and Price Levels Auxiliary Modifiers

Price Level Modifier

A 26
B 0
C 31

Size Modifier

1 0
2 0
3 0

Tap Size Modifier

1 0
2 0
3 0
4 0
5 0
6 0
7 0
8 0

Size Placeholder for Cocktails

Options Modifiers Size & Price Levels Auxiliary Modifiers

Comp Modifier

Comp 33 0
Paid 0 0
Add to PLU 0

Cancel Modifier

Cancel 0 0
Regular 0 0
Add To PLU 0

Type Modifier

Brand 0 0
Cocktail 0 0

Transfer the PLUs from the *Getting Ready for Infinity Worksheet* to the correct **Prices and Portions Setup** screen using Manager software. Take care to enter each PLU in the correct space, both on the worksheet and in Infinity.

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	2
3	1.50	3.00	3

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	2
3	1.50	3.00	3

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	2
3	1.50	3.00	3

Example #3: Price Level and Brand PLUs

If your sales terminal does not distinguish small, regular and large pours with separate PLUs, but it does distinguish price levels, use this example to fill out your worksheet. Note that in this configuration a small dinner vodka has the same PLU as a large dinner vodka. That means you have to find out what size modifiers the sales terminal uses to ring these drinks at different prices. Enter the PLUs in the correct spaces, fill out the size modifier boxes and determine whether the size modifier goes before or after the PLU.

Size Modifier		Tap Size Modifier		PLU/Modifier Order					
1	<table border="1"><tr><td>88</td><td></td></tr></table>	88		1	<table border="1"><tr><td>91</td><td></td></tr></table>	91		_____	The PLU/Modifier Order list from the worksheet provides the sequence for the Current Modifier Order list.
88									
91									
2	<table border="1"><tr><td>89</td><td></td></tr></table>	89		2	<table border="1"><tr><td>92</td><td></td></tr></table>	92		PLU _____	
89									
92									
3	<table border="1"><tr><td>90</td><td></td></tr></table>	90		3	<table border="1"><tr><td>93</td><td></td></tr></table>	93		Size Modifier _____	
90									
93									
		4	<table border="1"><tr><td>94</td><td></td></tr></table>	94		Cancel Modifier _____			
94									

				_____	We've entered Size Modifiers for Infinity and TAP 1 dispensers. (We're not using the Alt Sizes feature of TAP 1.)				

Cancel Modifier		Transaction Bookends					
Cancel	<table border="1"><tr><td>39</td><td></td></tr></table>	39		Begin	<table border="1"><tr><td>26</td><td></td></tr></table>	26	
39							
26							
Regular	<table border="1"><tr><td></td><td></td></tr></table>			End	<table border="1"><tr><td></td><td></td></tr></table>		
Add to PLU	<table border="1"><tr><td></td><td></td></tr></table>						

You may or may not have Transaction Bookends and a Cancel Modifier.

Brand Name: _____ Price/Portion Category: Standard _____

Product Type: Liquor Wine Mixer

Price Level A	Price Level B	Price Level C																																																
<table border="1"> <thead> <tr><th>Size</th><th>Portion</th><th>Price</th><th>PLU</th></tr> </thead> <tbody> <tr><td>1 (S)</td><td></td><td></td><td>1</td></tr> <tr><td>2 (R)</td><td></td><td></td><td>1</td></tr> <tr><td>3 (L)</td><td></td><td></td><td>1</td></tr> </tbody> </table>	Size	Portion	Price	PLU	1 (S)			1	2 (R)			1	3 (L)			1	<table border="1"> <thead> <tr><th>Size</th><th>Portion</th><th>Price</th><th>PLU</th></tr> </thead> <tbody> <tr><td>1 (S)</td><td></td><td></td><td>2</td></tr> <tr><td>2 (R)</td><td></td><td></td><td>2</td></tr> <tr><td>3 (L)</td><td></td><td></td><td>2</td></tr> </tbody> </table>	Size	Portion	Price	PLU	1 (S)			2	2 (R)			2	3 (L)			2	<table border="1"> <thead> <tr><th>Size</th><th>Portion</th><th>Price</th><th>PLU</th></tr> </thead> <tbody> <tr><td>1 (S)</td><td></td><td></td><td>3</td></tr> <tr><td>2 (R)</td><td></td><td></td><td>3</td></tr> <tr><td>3 (L)</td><td></td><td></td><td>3</td></tr> </tbody> </table>	Size	Portion	Price	PLU	1 (S)			3	2 (R)			3	3 (L)			3
Size	Portion	Price	PLU																																															
1 (S)			1																																															
2 (R)			1																																															
3 (L)			1																																															
Size	Portion	Price	PLU																																															
1 (S)			2																																															
2 (R)			2																																															
3 (L)			2																																															
Size	Portion	Price	PLU																																															
1 (S)			3																																															
2 (R)			3																																															
3 (L)			3																																															

Use as default prices and portions for this product type

Options | Modifiers | Size and Price Levels | Auxiliary Modifiers

Current Modifier Order

PLU
Size Modifier
Cancel Modifier

< Add Remove >

Modifier List

Comp Modifier
Price Level Modifier
Server ID
Type Modifier

Transaction Bookends

Begin: 42 End: 43

PLU Bookends

Begin: 0 End: 0

Leave zeros in the fields you're not using to define modifiers.

Options | Modifiers | Size and Price Levels | Auxiliary Modifiers

Price Level Modifier

A	0	0
B	0	0
C	0	0

Size Modifier

1	88	0
2	89	0
3	90	0

Tap Size Modifier

1	91	0
2	92	0
3	93	0
4	94	0
5	0	0
6	0	0
7	0	0
8	0	0

Size Placekeeper for Cocktails

Options | Modifiers | Size & Price Levels | Auxiliary Modifiers

Comp Modifier

Comp: 0 Paid: 0 Add to PLU: 0

Type Modifier

Brand: 0 Cocktail: 0

Cancel Modifier

Cancel: 39 Regular: 0 Add To PLU: 0

Transfer the PLUs from the *Getting Ready for Infinity Worksheet* to the correct **Prices and Portions Setup** screen using Manager software. Take care to enter each PLU in the correct space, both on the worksheet and in Infinity.

Price Level A | Price Level B | Price Level C

Size	Portion (oz.)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	1
3	1.50	3.00	1

Price Level A | Price Level B | Price Level C

Size	Portion (oz.)	Price	PLU
1	0.50	1.00	2
2	1.00	2.00	2
3	1.50	3.00	2

Price Level A | Price Level B | Price Level C

Size	Portion (oz.)	Price	PLU
1	0.50	1.00	3
2	1.00	2.00	3
3	1.50	3.00	3

Example #4: Brand PLUs

This example is for sales terminals with a limited number of PLUs. Every brand has its own PLU, but no distinction is made for size or price levels. Every brandy, no matter what size or price level, has the same PLU. That means this terminal probably uses modifiers with every PLU to provide more information about the pour. After you've entered the PLUs on the worksheet, find out what modifiers are used and fill out the modifier boxes. Determine what order the modifiers take in the PLU/modifier string and enter the order in the modifier order boxes.

Price Level Modifier

A

7	
---	--

B

8	
---	--

C

9	
---	--

PLU/Modifier Order

Price Level Modifier
Size Modifier
PLU
Type Modifier

The PLU/Modifier Order list from the worksheet provides the sequence for the **Current Modifier Order** list.

We've entered modifiers for price levels, sizes and type of drink in this case.

Size Modifier

1

2	
---	--

2

3	
---	--

3

4	
---	--

Tap Size Modifier

1

10	
----	--

2

11	
----	--

3

12	
----	--

4

13	
----	--

Type Modifier

Brand

20	
----	--

Cocktail

21	
----	--

Brand Name: _____ Price/Portion Category: Standard _____

Product Type: Liquor Wine Mixer

Price Level A

Size	Portion	Price	PLU
1 (S)			1
2 (R)			1
3 (L)			1

Price Level B

Size	Portion	Price	PLU
1 (S)			1
2 (R)			1
3 (L)			1

Price Level C

Size	Portion	Price	PLU
1 (S)			1
2 (R)			1
3 (L)			1

Use as default prices and portions for this product type

Options Modifiers Size and Price Levels Auxiliary Modifiers

Current Modifier Order

- Price Level Modifier
- Size Modifier
- PLU
- Type Modifier

< Add Remove >

Modifier List

- Cancel Modifier
- Comp Modifier
- Server ID

Transaction Bookends

Begin 0 End 0

PLU Bookends

Begin 0 End 0

Leave zeros in the fields you're not using to define modifiers.

You may or may not have comp and cancel drink increments.

Options Modifiers Size and Price Levels Auxiliary Modifiers

Price Level Modifier

A 7 B 8 C 9

Size Modifier

1 2 2 3 3 4

Tap Size Modifier

1 10 2 11 3 12 4 13 5 0 6 0 7 0 8 0

Size Placeholder for Cocktails

Options Modifiers Size & Price Levels Auxiliary Modifiers

Comp Modifier

Comp 0 Paid 0 Add to PLU 100

Cancel Modifier

Cancel 0 Regular 0 Add To PLU 200

Type Modifier

Brand 20 Cocktail 21

Transfer the PLUs from the *Getting Ready for Infinity Worksheet* to the correct **Prices and Portions Setup** screen using Manager software. Take care to enter each PLU in the correct space, both on the worksheet and in Infinity.

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	1
3	1.50	3.00	1

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	1
3	1.50	3.00	1

Price Level A Price Level B Price Level C

Size	Portion (oz)	Price	PLU
1	0.50	1.00	1
2	1.00	2.00	1
3	1.50	3.00	1

SECTION

5

Interface Specifications

Interface Specifications

When you install **Infinity** plus **Interface** software, you'll see a list of all makes and models confirmed to be supported. However, Berg does not control these companies' decisions nor are we always even aware of them. Firmware and hardware may change without notice. You are cautioned and encouraged to verify the information with the sales terminal provider and with Berg before ordering. The following are specifications for makes and models which have unique requirements. For any parallel/ ECR interface not listed, use the **Berg Parallel ECR** interface. For any POS interface not listed, use the **Berg Generic POS** interface. For the latest set of interfaces supported see our website: www.berg-controls.com/interface.html.

POS Interfaces

ECU Connections

Infinity ECU/POS connection:	RS232C J902
TAP 1 ECU/POS connection:	Additional interface card required
1544 ECU/POS connection:	POS

BERG Generic POS Interface

Interface cable:	Berg Sales Terminal Interface Cable (PN 8007993) or supplied by sales terminal manufacturer
Sales terminal connection:	Depends on sales terminal

Casio QT-2000 Series POS Interface

Interface cable:	Berg Interface Cable Assy (PN 8007969)
------------------	--

Casio QT-7000 Series POS Interface

Interface cable:	Berg Sales Terminal Interface Cable (PN 8007993)
Sales terminal connection:	Contact Casio. Supports pre-checking, C.A.R.S. software 3.3 or later.

Comtrex PCS 5000, Super Sprint POS Interface

Digital Dining POS Interface

Interface cable:	Berg Sales Terminal Interface Cable (PN 8007993)
------------------	--

Ibortech Aloha POS Interface

Interface cable:	Use standard null modem cable
Sales terminal connection:	RJ-45 connector

Infogenesis 4683 POS Interface

Interface cable:	Berg Infogenesis Interface Cable Assy (PN 8007985) 25 ft. (7.6m)
Sales terminal connection:	Personality Card 25-pin connector

Infogenesis 4695 Touchscreen POS Interface

Interface cable:	Berg Sales Terminal Interface Cable (PN 8007993) 25 ft. (7.6m)
Sales terminal connection:	Personality Card 9-pin connector PLU numbers 1-255 only

Micros 2700 POS Interface

Interface cable: Berg Micros 4700 Interface Cable Assy (PN 8007986)
25 ft. (7.6m), one per station
Sales terminal connection: Contact Micros

Micros 3700, 9700 POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m), one per station
Sales terminal connection: Contact Micros

Micros 4700 POS Interface

Interface cable: Berg Micros 4700 Interface Cable Assy (PN 8007986)
25 ft. (7.6m), one per station
Sales terminal connection: UWS2 or UWS 3 terminal
Liquor Dispenser System Interface running
at 2400 baud (not North American)

Micros 8700 POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m), one per station
Sales terminal connection: North American Liquor Dispenser System running
at 9600 baud

Microsale POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact Microsale. Supports pre-checking. Software
version 3.3 or later.

NCR 2760 POS Interface

Interface cable: Berg NCR 2760 Interface Cable Assy (PN 8007991)
25 ft. (7.6m)
Sales terminal connection: Interface hardware configured as a beverage dispenser
running at 2400 baud, no parity, one stop bit
NCR 9-pin ASYNC cable (NCR ID 1139-C002-0280)

Panasonic 7500 Plus, 7700 Plus POS Interface

Interface cable: Supplied by sales terminal manufacturer
Sales terminal connection: Use cable to 8-pin modular port supplied by Panasonic

PDQ Restaurant Systems POS Interface

Pixel Point POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact Pixel Point. Supports pre-checking.

Posera Maitre D' POS Interface

RDC POSitouch POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact RDC. Requires special PLU bookend setup.

Remanco POS Interface

Interface cable: Berg Remanco Interface Cable Assy (PN 8007987)
25 ft. (7.6m)
Sales terminal connection: Port 2 of a 1460A terminal running Series-L
(Release 10) or Series-M (Release 11) software

Remanco Vision POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: 25 pin CBDS port (Computerized Beverage
Dispensing System). Supports pre-checking.

Royal Alpha 587-CX, CMX 482 Plus POS Interface

Samsung 650/6500/6540 POS Interface

Interface cable: Berg Samsung 6500/6540 Interface Cable Assy
(PN 8007996)
Sales terminal connection: 9-pin female connector

Samsung 1000 POS Interface

Interface cable: Berg Interface Cable Assy (PN 8007970)
Sales terminal connection: 9-pin female connector

SeQL POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact SeQL. Supports pre-checking.

Sharp 4500 Series, 880, 5700 with Maitre D' POS Interface

Squirrel POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
Sales terminal connection: Uses special adapter from Squirrel with standard 9-pin
to 9-pin cable. Supports pre-checking.

System 3 POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact System 3.

TEC America FS 3600 POS Interface

Interface cable: Berg Sales Terminal Interface Cable (PN 8007993)
25 ft. (7.6m)
Sales terminal connection: Contact TEC America.

Trim-POS Flashpoint POS Interface

Interface cable: Cable supplied by Trim-POS
Sales terminal connection: Contact Trim-POS. Supports pre-checking.

ECR Interfaces

ECU Connections

Infinity ECU/ECR connection:	PARALLELJ903
TAP 1 ECU/POS connection:	Additional interface card required
1544 ECU/POS connection:	ECR

Berg Parallel ECR Interface

Interface cable:	Supplied by interface board manufacturer contact Postech, Inc. (608) 271-0658
Sales terminal connection:	Depends on sales terminal

Casio TK5100, TK-6000, PCR-365 ECR Interface

Micros 2000 Series 400395 ECR Interface

NCR 1101 ECR Interface

Omron RS 3010, RS4841/4341, RS4541 ECR Interface

Panasonic JS-5000 ECR Interface

Postech, Inc. ECR Interface

Royal Alpha 587 ECR Interface

Samsung 240, 550, 4900, 4915, 4940, 5100, 5140 ECR Interface

Sharp ER-3220, ER-3310, ER-4230M, ER-A330 ECR Interface

(cont.) Sharp ER-A460S, ER-A470, ER-A550S, ER-A570, ER-A610 ECR Interface

TEC America CRS 3000, FS 1450-1, FS 1650, MA 1350, ECR Interface

(cont.) TEC America MA 1350-F, MA1400, MA 1450-1, MA 516-100 ECR Interface

Uniwell UX-43F ECR Interface

Supported EPROMs

Infinity EPROM:	2.13 or later*
TAP 1 EPROM:	1.08 or later
1544 EPROM:	3.00 or later

*There are several features of Interface software which require an Infinity EPROM of 2.15 or later:

Options

- Send After Pour
- Size Placekeeper on Cocktails

Modifiers

- Comp drinks (with modifier or PLU increment)
- Type of drink (normal brand pour or cocktail)
- Tray total (may also require hardware modification or extra hardware)

If you attempt to use these features with an Infinity EPROM Version 2.13 or earlier, you may get warning messages at the bottom of the screen telling you changes you made were ignored. This simply indicates you don't have an Infinity EPROM that can utilize that particular feature.

SECTION

6 Troubleshooting

Drinks ring at the sales terminal without pouring

- Is the Timeout Value set too low?
- Is the sales terminal sending ACK?

Drinks ring at the wrong price

- Do the PLUs assigned to the Berg ECU brands match the PLUs at the sales terminal?
- Do the modifiers entered as driver settings for the Berg ECUs match the modifiers used at the sales terminal?
- Try manually entering PLUs at the sales terminal.

Drinks won't ring at the sales terminal

POSTest

To check the output of the driver, use the **POSTest** utility found on the Infinity installation disk.

Run `E:\tools\postest\setup.exe` (where E is your CD drive).

- Are all cables securely connected between the ECU and the sales terminal?
- Have you disabled the Interface software?
- Have you enabled Pour Without Release and there is no check in the terminal or the terminal is busy?

I get an error message that doesn't help

- Press Alt + D (Diagnostics) for a popup window with additional information. Record this information and call Berg for assistance.

I get an error message that says my access level is denied

- Is your access level entered correctly in Infinity software?



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