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Orion

**Graphical Software
Package**

User Guide

ORION

SQUID INK[®]
MANUFACTURING

Orion

Graphical Software Package

User Guide

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Contents:

Introduction	9
Description	9
System Requirements	9
Basic Concepts	10
Getting Started	12
Installation	12
Orion License Model	12
Software License.....	12
Activation.....	13
Adding a Print Station	15
Adding a Printer	16
Configuring an Assigned Printer.....	19
Orion and Windows Firewall.....	22
Creating a Message	23
Placing Elements in a Message	24
Printing the Message	34
Static Menu Tabs.....	35
File	35
File>New	36
File>Open.....	36
File>Save	36
File>Save As	36
File>Save Selected as Bitmap.....	37
File>Close	37
File>Send To Printer.....	38
Send Message To Printer Window.....	38
File>Export To USB Disk	40
Export To USB Disk Window	40
Export To USB Disk Generic Printer:	41
File>Print	42
File>Print Preview.....	42
File>Help	43
File>Activation	44
License Activation Window	44
File>Options	47
Home.....	55
Home>Message Group.....	55
Home>Print Station Group.....	67
Home>Tools Group	72
View	73
View>Print Station Explorer	73
View>Message Explorer	74
View>Printer Connections	74
Printer Configuration Tab.....	75
Printer Configuration>Tools Tab	82
Configuration Group	82

Tools Group.....	83
Status Group	85
Message Tabs.....	86
Message.....	86
Message Tab>New.....	86
Message Tab>Open	86
Message Tab>Save.....	86
Message Tab>Save As.....	87
Message Tab>Close.....	87
Message Tab>Send To Printer	87
Send Message To Printer Window.....	87
Message Tab>Export To USB Disk	89
Export To USB Disk Window	89
Message Tab>Ink Usage.....	90
Message Tab>Clipboard Group.....	90
Message Tab>Arrange Group	90
Message Tab>Element Group.....	91
Message Tab>Printhead Group.....	91
Message Tab>Printer Group.....	92
Inserting Elements in a Message.....	95
Text/Barcode Element Group.....	95
Text.....	95
Date.....	101
Time	104
Custom Date/Time Configuration.....	107
Shift.....	110
Counter.....	112
Barcodes	115
Graphic Element Group.....	127
Horizontal or Vertical Line.....	127
Line	128
Rectangle	129
Ellipse.....	129
Image File.....	131
Image File Tools.....	135
A General Note about Image Quality	137
Element Manipulation.....	138
Selecting Multiple Elements.....	139
Clipboard Group	140
Arrange Group.....	141
Element Group	142
User Data	143
Assigning User Data to a Text Element.....	143
Assigning User Data to a Barcode Element	147
Custom Keyboards.....	151
Auto Data	157
One Shot Mode	157
Repeat Mode.....	158

Database Message Server	159
Example Database	159
Create a Template Message	160
Create a Database Connection	161
Database Type:	162
Creating a Place Holder	164
Home Screen Database Message Server	166
Server Settings	168
At the Printer	176
Auto Data Server	180
Auto Data Server Description	180
Create a Template Message	180
Server Settings	183
Data Source	184
Print Mode	186
Print Quantity:	187
Printer status frequency:	187
Log all activity to this folder:	188
Message:	188
Data Assignments:	188
Start Server:	189
Adding a Graphic	190
Template Message:	190
Configure the Graphic Element:	190
Data Assignment:	192
Sending the graphic Files to the Printer:	192
Print Station/Message Data Transfer	195
Print Station/Message Export:	195
Print Station/Message Import:	199
Operator Mode	202
Operator Mode Change Message	204
Message Export Operator Mode	205
Message Import Operator Mode	206
Selecting a Different Printer in Operator Mode	207
Operator Mode Settings	208
Return to Design Mode	209
Generating Random Code Files	210
Random String Tab	211
Random Numbers Tab	212
Saving the Random Code	213
Installing System Updates	215
Downloading Updates	215
Updating Software/Firmware to Connected Printers	219
Export Updates to USB	223
Customer Support	228
Squid Ink Technical Service	228

Introduction

Description

The Orion Graphical Package allows the user to easily connect to Squid Ink manufacturing printers and create industrial inkjet message files using a powerful graphical user interface.

Orion is a 32-bit Windows application that executes on any host computer running the following operating systems: Windows XP Service Pack 3, Windows Server 2003 Service Pack 2, Windows Vista Service Pack 1 or later, Windows Server 2008 (not supported on Server Core Role), Windows 7, Windows Server 2008 R2 (not supported on Server Core Role), Windows 7 Service Pack 1, Windows Server 2008 R2 SP1, Windows 8, Windows 8.1.

System Requirements

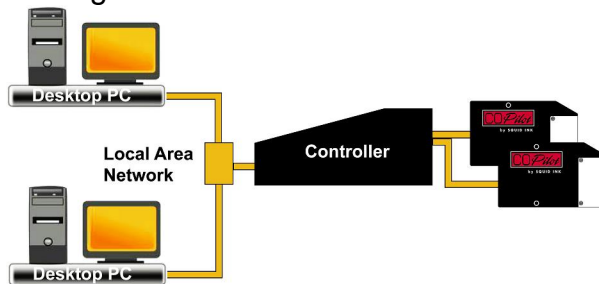
Operating System:	Windows [®] XP Service Pack 3 (SP3) or later
Processor:	Pentium [®] II, 1 GHz (or higher)
Memory:	512 MB
Hard Disk Space:	50 MB (512 MB if Microsoft .NET Framework 4 and Adobe Acrobat [®] Reader are also installed)
Video:	4 MB, Windows [®] XP compatible SVGA
Resolution:	800 x 600
Color Depth:	16-Bit recommended
Ethernet Port:	IEEE 802.3 10BASE-T, 10 Mbps minimum, RJ-45
Firewall:	Orion needs access to the printer though Port 21 for FTP connections, Port 4000 for TCP/IP connections and Port 46810 for multicast communications.
Privileges:	Must have Administrator privileges to install. Non-administrators may run the applications if the appropriate privileges are applied to the folder where the applications are installed (when installed under "\\Program Files"). For example: <ul style="list-style-type: none">• Right-click the \Orion folder and select Properties.• Select the Security tab*.• Select the user group you want to modify (usually "Users").• Allow Modify and Write privileges and click the OK button. The modified group will now be able to run the Orion software without any problems. * If the Security tab is not visible, open an Explorer window and select Tools→Folder Options, select the View tab, scroll down to the bottom of the list and uncheck the "Use simple file sharing" option, then click "OK" button.

If your system does not meet these requirements, the software may not operate as expected. You should cancel the installation and re-run on a system that meets these requirements.

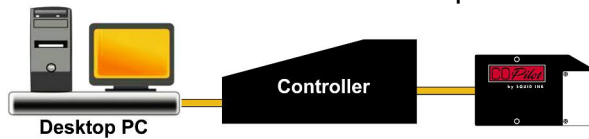
Basic Concepts

Messages created using the Orion[®] Software package can be transported to printers four ways:

Through a local area network:



Direct connection from a desktop device:



Saving to a USB device and physically moving to the printer:



Through a WiFi connection:



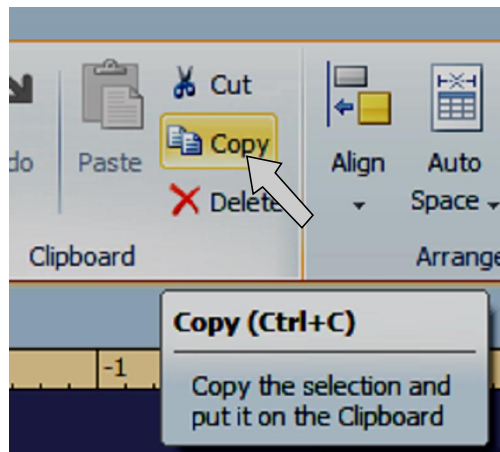
A note about print stations and printers

Orion[®] Software is easy and simple to use. A print station is created and printers are assigned to the print station. Print stations are not printers. A print station is where printing will occur. Printers are then assigned to print stations.

Understand how print stations are created and how printers are connected.

The Good News

You probably won't need to read much of this manual. After you have developed a good understanding of print stations and printer connections the Orion[®] Graphical Software Package is very intuitive and easy to use. A description of most functions and tools can usually be seen by letting the mouse pointer hover over an icon in the Orion message editor.



The **Getting Started** section of this manual will provide brief instructions for quickly creating and printing messages.

With a little practice and experience an operator can become comfortable using the Orion[®] Message creation Software.

Getting Started

Installation

To Install the Orion[®] Graphical Software Package:

Go to www.squidink.com.

Hover over the **Product** tab and from the drop down menu click on Orion.

Mouse click on the highlighted link to download the Orion setup package **Squid Ink Orion Setup.exe** file.

Run the downloaded **Squid Ink Orion Setup.exe** on the desired computer and follow the screen prompts to complete installation.

Orion License Model

Orion License Model includes a *Software License* to enable Orion to send messages to multiple printers at a time and a *Feature License* to enable/disable Orion to connect to special printer types (PRO2, AutoPilot2) called **Special Printer Support**.

Software License

Basically, there are 3 levels of Software License for Orion product:

Tier 1 – Printer License (Free)

Includes **Operator Mode** functionality for customers using their own Windows[®] tablet. This software is included in the Squid Ink Tablet kit.

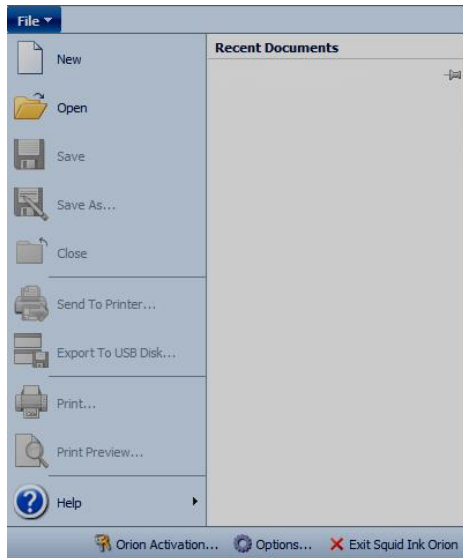
Tier 2 – Unlimited Printer Licenses and Message Design

Tier 2 Includes Tier 1 and allows for connection to an unlimited number of printers.

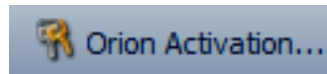
Tier 3 – Required for Database Server and Auto Data Server Functions

Tier 3 has all Tier 1 and 2 message creation and editing functions and also includes the Database Server and Auto Data Server options.

Activation



From the **File** drop down menu click the **Orion Activation** button located at the bottom of the menu.



The Orion Activation window will open.

There is a license number located on the **DOWNLOAD INSTRUCTIONS** card that came with your CoPilot, SoloPilot or Jetline Printing System.

DOWNLOAD INSTRUCTIONS FOR **ORION**

CODING & MARKING SOFTWARE

- 1) Go to www.squidink.com/orion
- 2) Click on the “CLICK HERE TO DOWNLOAD THE ORION SOFTWARE” link.
- 3) Run the downloaded software to install the Squid Ink Orion Software.
- 4) Once installed, run the Squid Ink Orion Software then select File - Orion Activation
- 5) On the License Activation dialog, enter the license number from below.
This license number will activate all of the Orion features purchased.

#####

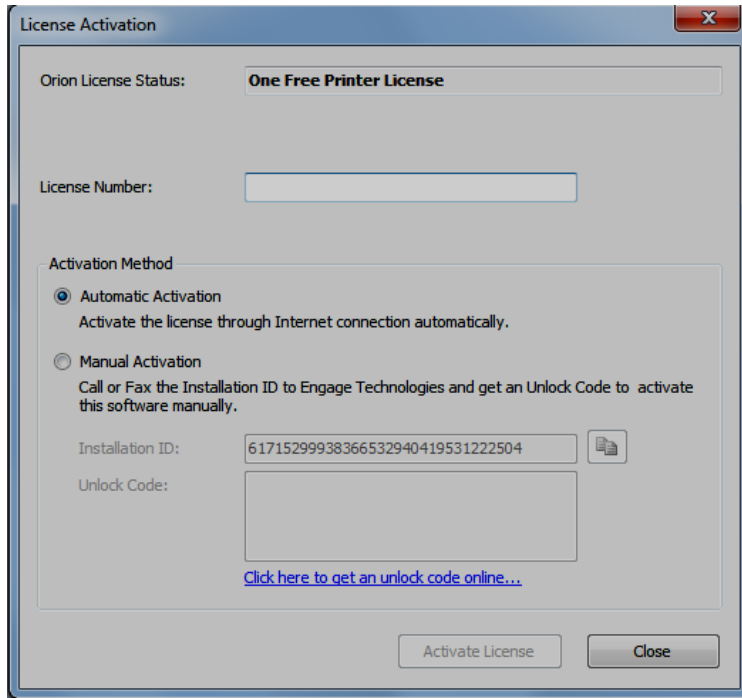
License Number

Any Questions?
Contact us at:
1-800-877-5658

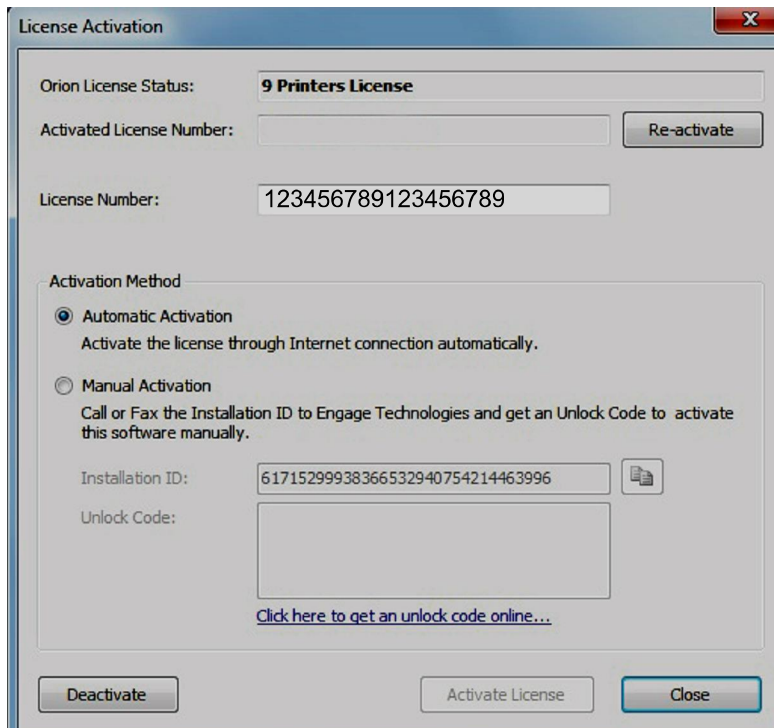
License Number

14 Getting Started

The Orion Software is shipped with a free license for one printer. If a higher level of license was purchased follow the instructions for activating the multiple printer license.



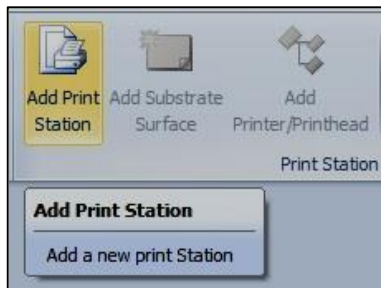
For additional printers beyond the free license, enter the License Number from the **DOWNLOAD INSTRUCTIONS** card in the **License Number:** box and click the **Activate License** button. You will then be able to connect to more than one printer.



Adding a Print Station

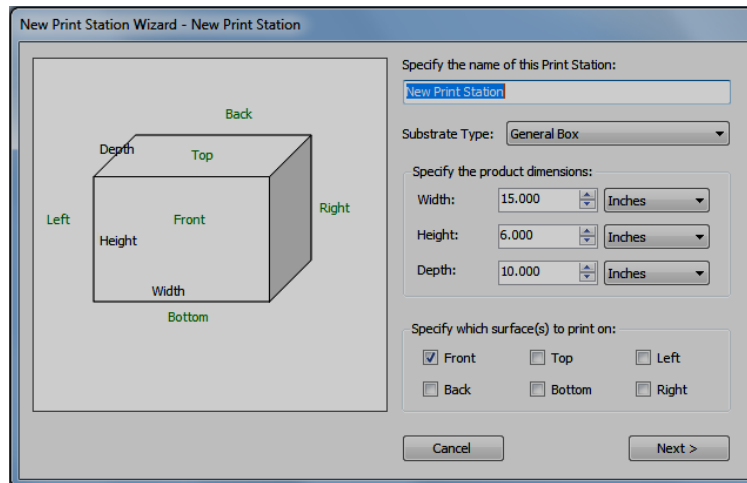
The Print Station is the surface and production location where printing will occur. Keep in mind that the Print Station is not a printer. Printers are added to print stations after a print station has been created.

Note: If there are no existing print stations the Print Station Wizard/New Print Station dialogue box will automatically open when Orion[®] is launched.



To add a print station, click the **Add a Print Station** icon from the top menu bar.

The **Add Print Station** dialog box will open.

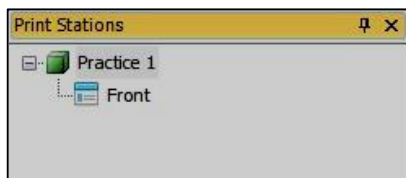


In the print station dialog box you can:

- Give the print station a unique name.
- Specify the substrate type.
- Define the product dimensions.
- Specify the surface(s) to be printed on.

In this example we will name our print station **Practice 1**. We will be printing on a **General Box**. To keep this example simple we will retain the default dimensions and print on the front surface only.

Select **OK** to save the print station.

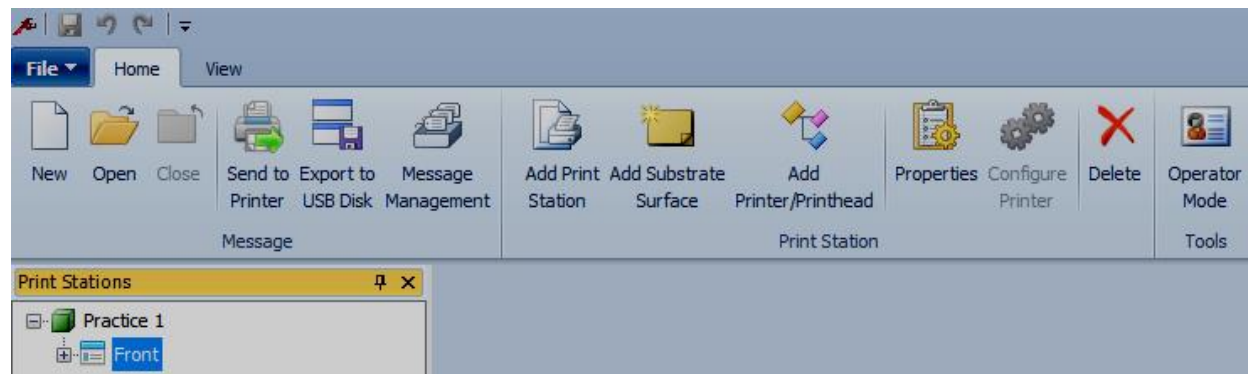


The print station now appears in the **Add Print Station** list on the left of the screen as **Practice 1**.

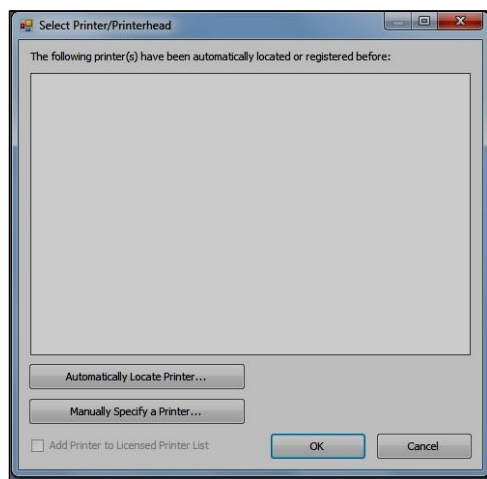
Adding a Printer

Now we are going to add a printer to print at our Print Station (Practice 1).

In the Print Stations list, select **Front**, then click the **Add Printer/Printhead** icon from the top ribbon menu bar.



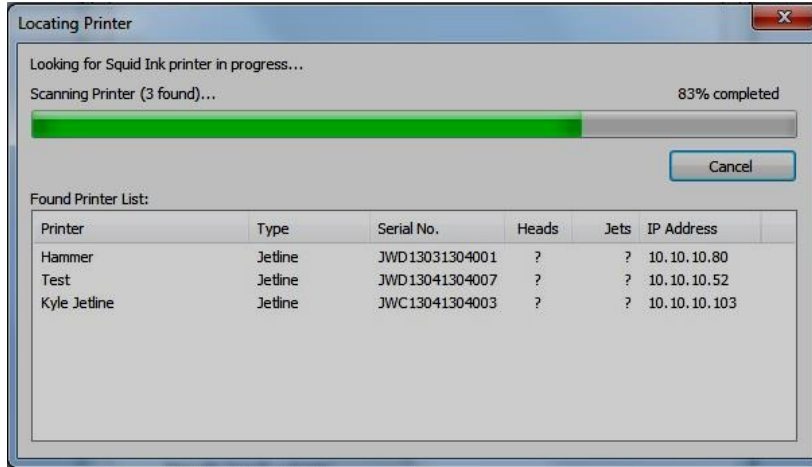
The **Add Printer/Printhead** dialog box will open.



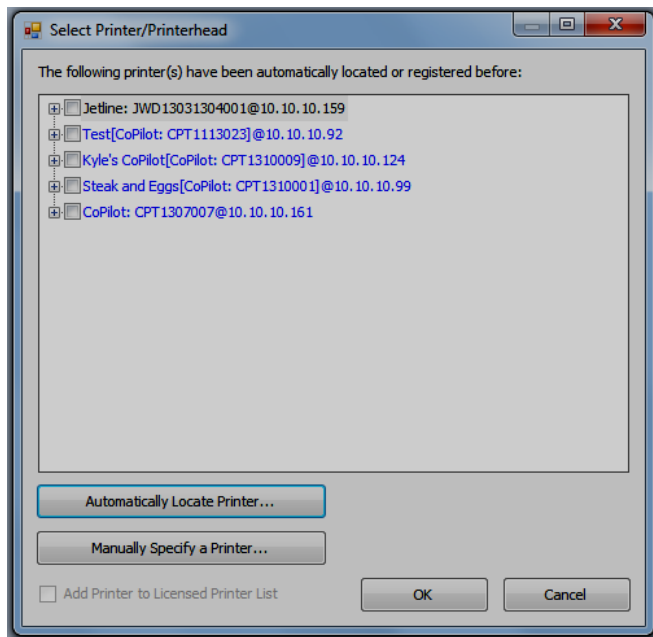
This is a new installation so there are no existing printers listed.

Orion can find all online printers in the LAN scope automatically. To search for a printer click the **Automatically Locate Printer** button.

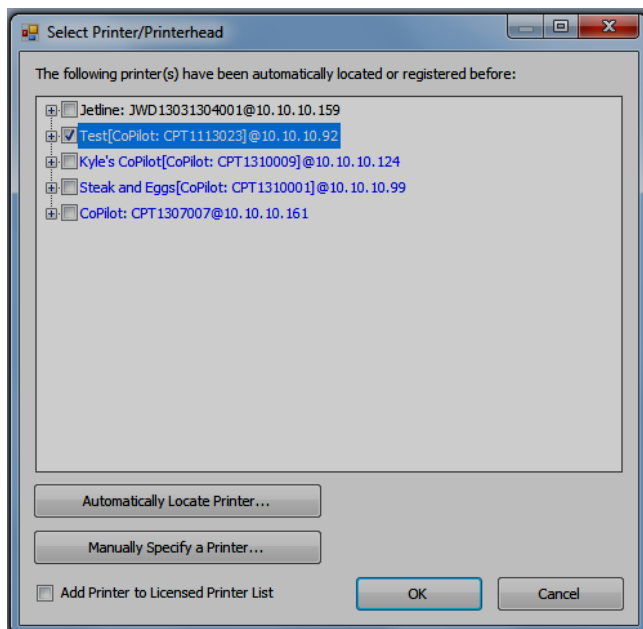
Note: When you first run **Automatically Locate Printer** Windows Security might pop up an alert for you to allow Orion access Windows firewall. You should choose **Allow access** here. Or you can't locate any printer.



The Orion Software Package will then begin a search of all printers connected to the Local Area Network.

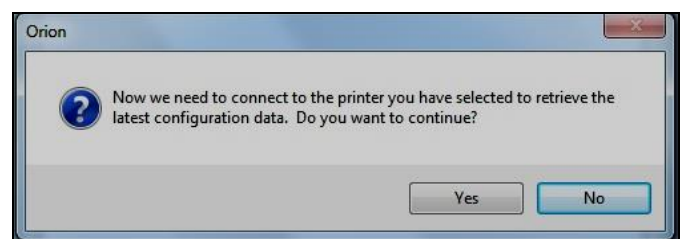


A list of all available located printers will be displayed.

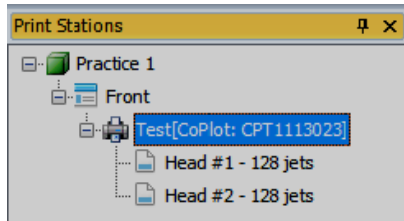


Check the printer you wish to use and click **OK**.

A dialog box will open asking if you want to continue to retrieve the printer's configuration data. Select **Yes** to continue.



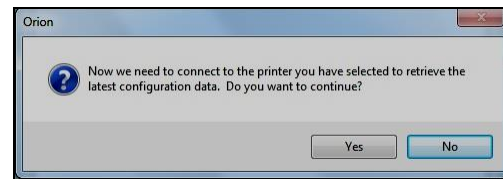
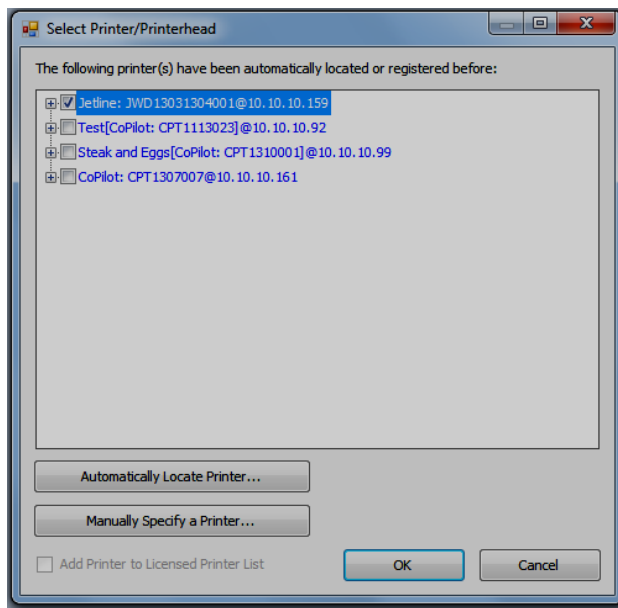
18 Getting Started



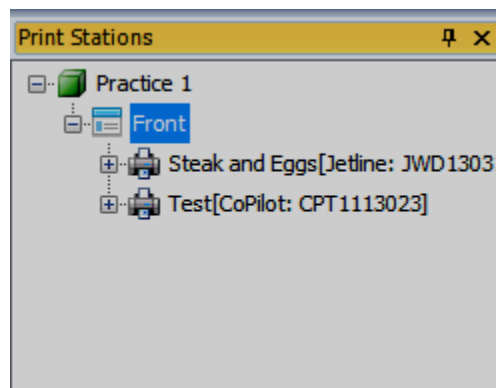
The selected printer will now appear in the Print Stations list under Practice 1+.

A CoPilot printer has now been defined to print the front surface at Practice 1+ print station.

To select an additional printer open the Add Printer/Printerhead dialog box again and select an additional printer to add to the print station.



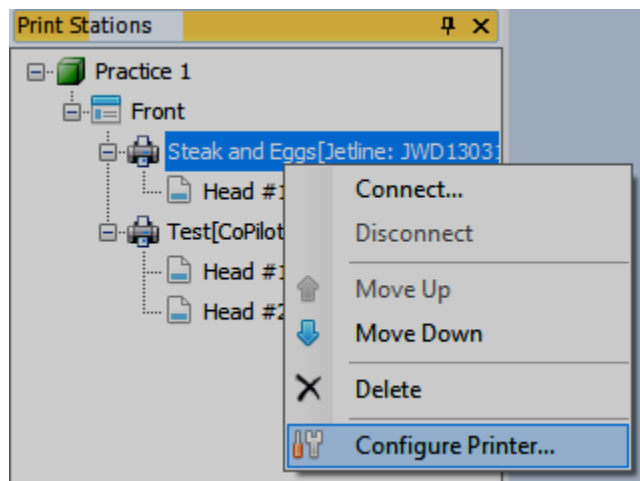
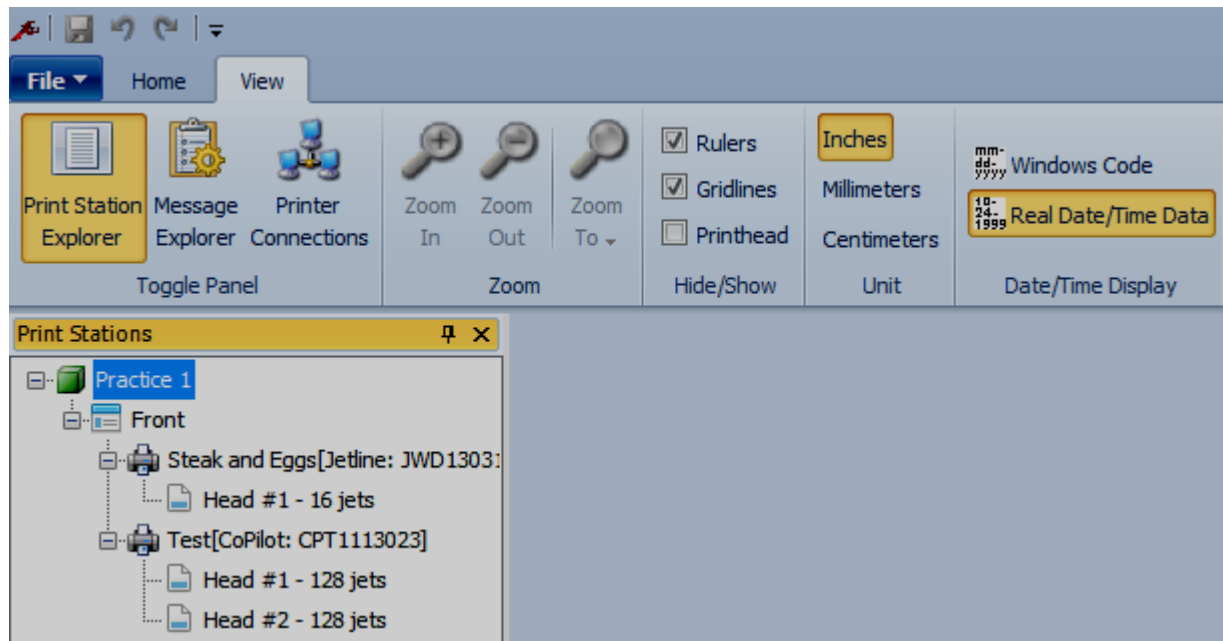
A CoPilot and a Jetline printer have now been defined to print the front surface at Practice 1+ print station.



Reminder! A print station is not a printer. It is a location where printing will occur. Printers are added to print stations.

Configuring an Assigned Printer

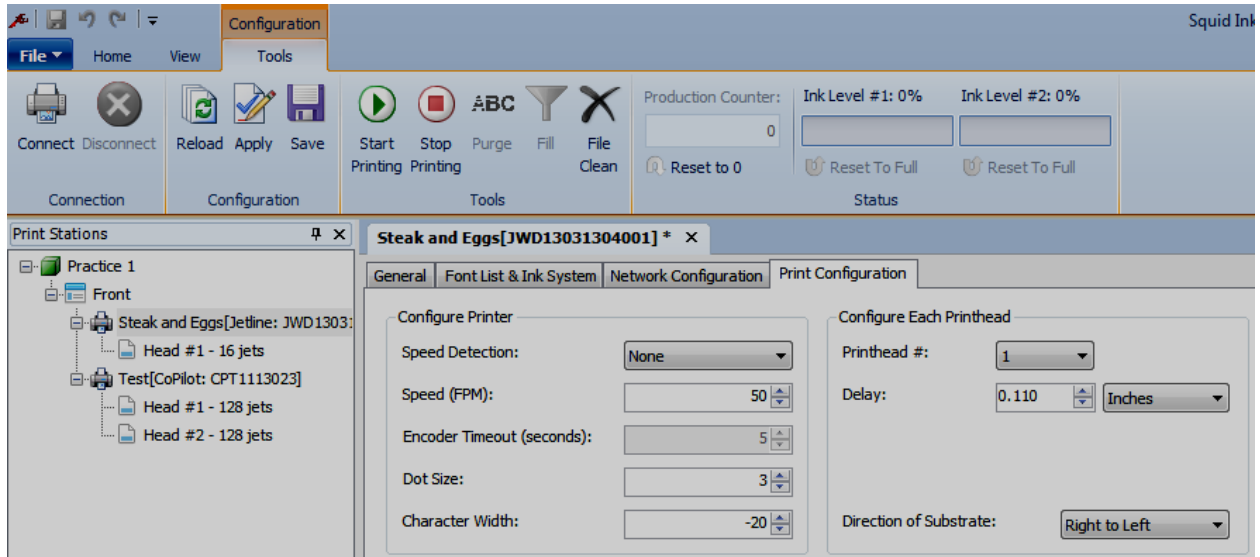
To configure a printer that has been assigned to a print station, make sure **Print Stations+** list is displayed. If not, from the **View+** tab click **Print Station Explorer+** button. A list of print stations and assigned printers will be displayed at the left side.



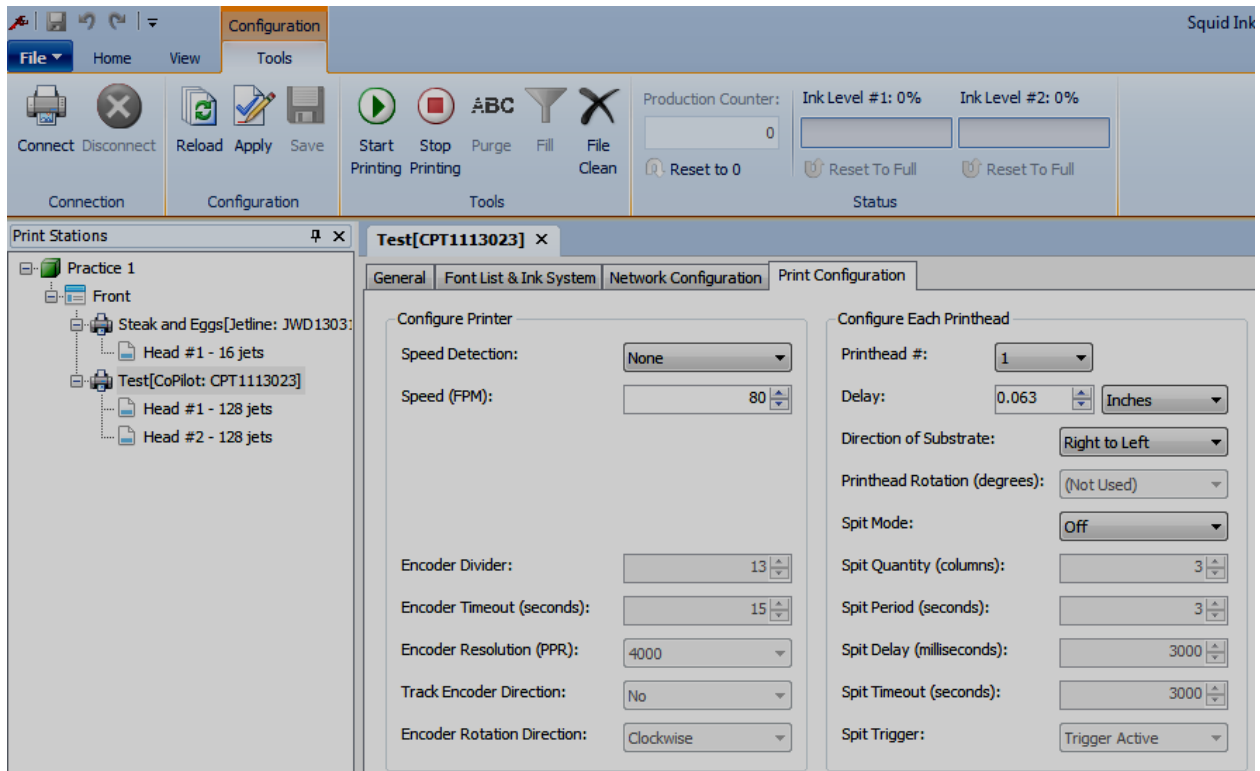
In the print station explorer right click on the printer to be configured. From the drop down menu select **Configure Printer...**

A printer configuration window will be opened in Orion workspace titled with the printer name and serial number. In the window can be found several tabs and options for setting the printer properties.

Click on the **Print Configuration+** tab in the Printer Configuration window. The **Print Configuration+** page for the selected printer will open. Here you can make changes to the printer.



Print Configuration for the Assigned Jetline Printer



Print Configuration for the Assigned CoPilot Printer



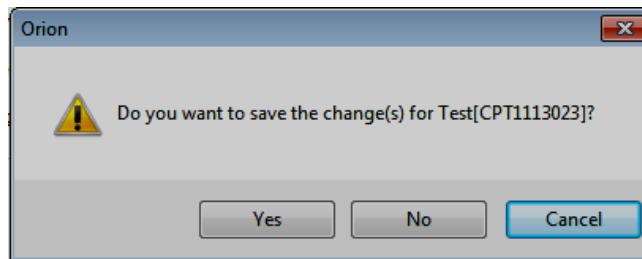
If any changes have been made to the printer configuration select the **%Apply+** button in the configuration section of the tools ribbon to apply the defined properties to the printer.



To Save the current print configuration in Orion select the **%Save+** icon in the configuration section of the tools ribbon.

Attention! The save icon in the print configuration only saves to the local configuration file in Orion. It does not apply the changes to the printer yet.

If you make changes and close the printer configuration display without saving you will be asked if you want to save the configuration changes for the selected printer.



Orion and Windows Firewall

In Orion, when you try to locate printers automatically for the first time, Windows Security might pop up a Windows Security Alert (see screen shot below). You must choose Allow access here.



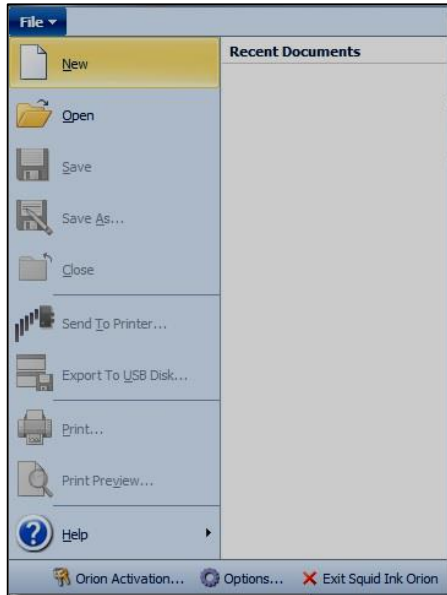
If you should accidentally close the dialog box by clicking on Cancel or X, you may go to Control Panel => System and Security => Allow a program through Windows Firewall.

In the Allowed programs and features list, find Squid Ink Orion System and click to highlight it and click Change Settings.

Then the list will be enabled for edit. Make sure all the check boxes in the Orion line are checked. Click OK to close the dialog.

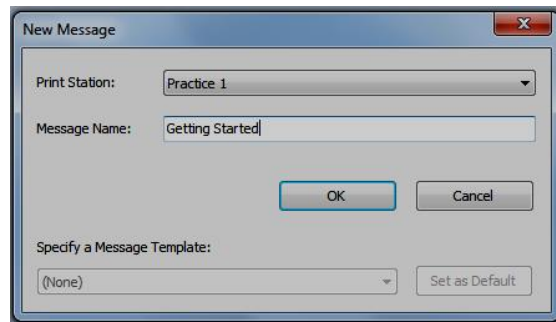
Creating a Message

Message creation using the Orion Software Package is very simple.

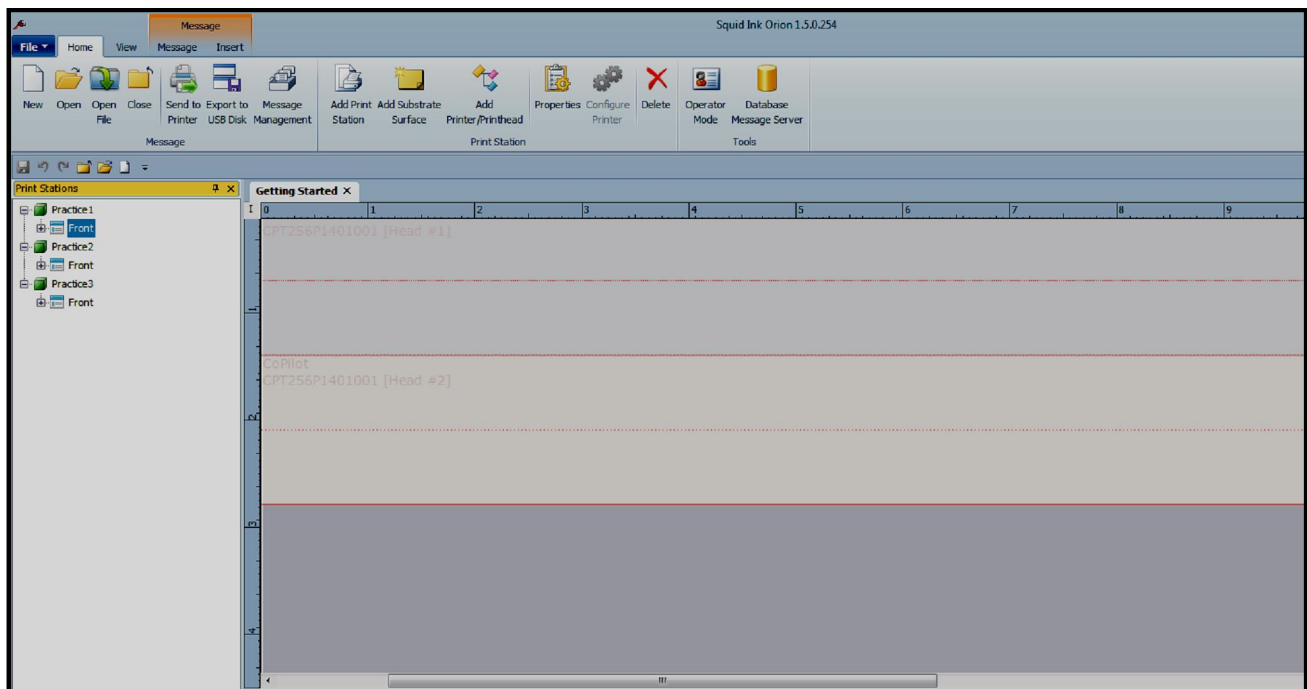


Select **New+** from the drop down File Menu.

The **New Message+** dialog box will open. Here we can name the message file. Input the message name then click **OK+**.



The Message creation screen will appear in Orion workspace. Here is where elements are placed in the message.

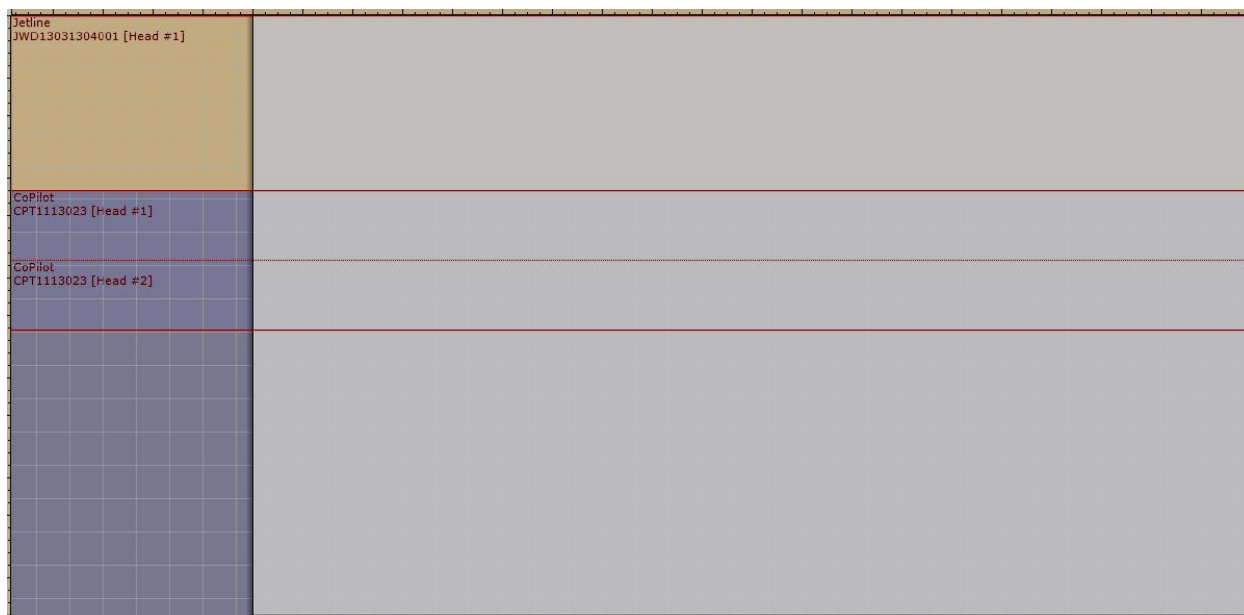


Placing Elements in a Message

Place a Text Element in the Jetline Printhead

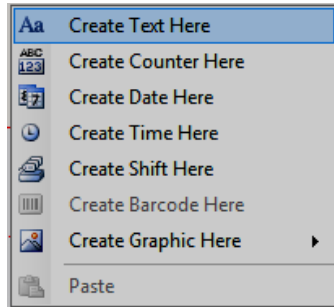
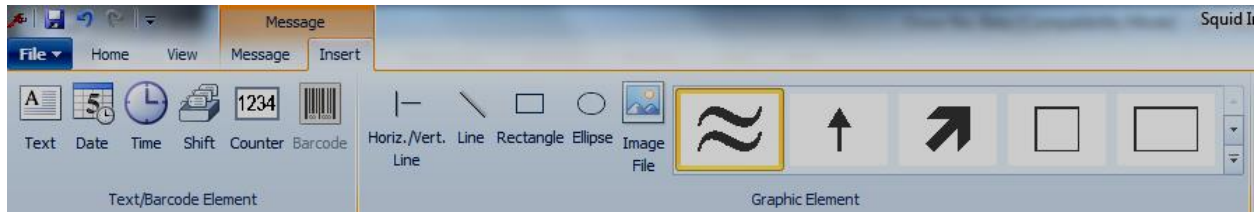
The message creation screen will display printheads for all the printers defined for the current print station.

In the following example there is one printhead displayed for the connected Jetline printer and two printheads displayed for the connected CoPilot.



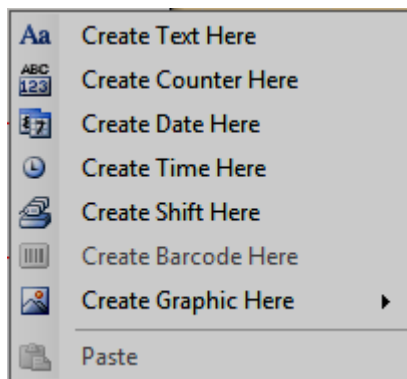
Use the mouse to click in the Jetline Head #1 printing area where you wish to place an element. The printhead will be highlighted indicating it's currently selected. Notice in the above example the Jetline printhead is highlighted.

To place an element into the message select the **Insert** tab on the top menu ribbon for a display of available elements. Click the type of element to be placed in the message.

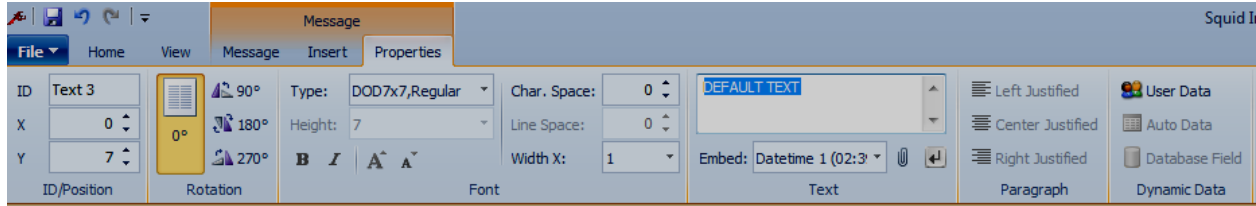


You can also right click the mouse on the substrate (printing surface) and a drop down list of available elements will appear on the screen.

For example to create a text element, right click the mouse on the printing area and select **Create Text Here** from the drop down context menu. Or click the **Text** icon from the **Insert** tab.



The Text properties menu will display on the screen.

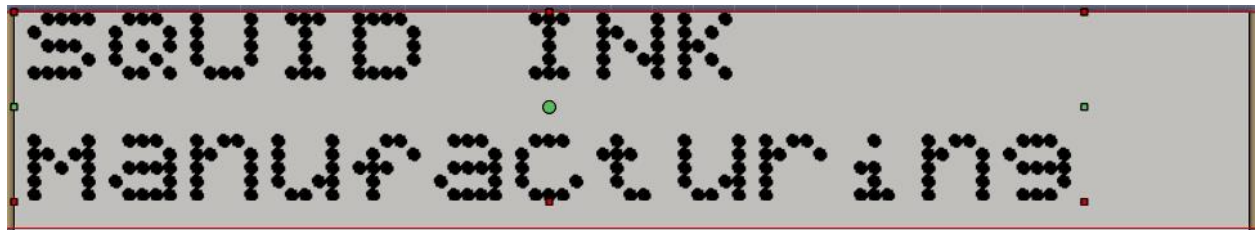


Here the text element can be edited. All the associated attributes connected with the selected text element can be changed.

For example: to print %SQUID INK Manufacturing+ on two lines using DOD7X5 Regular font left justified the properties menu would look like this:



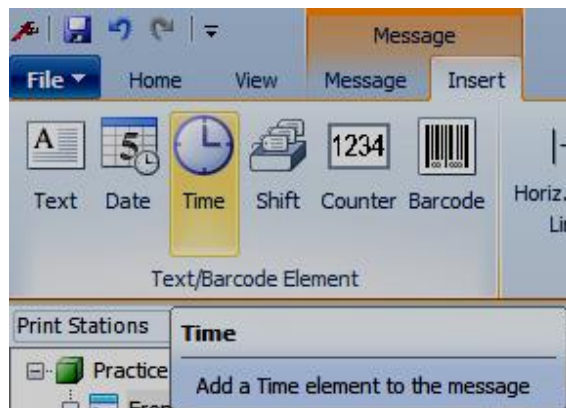
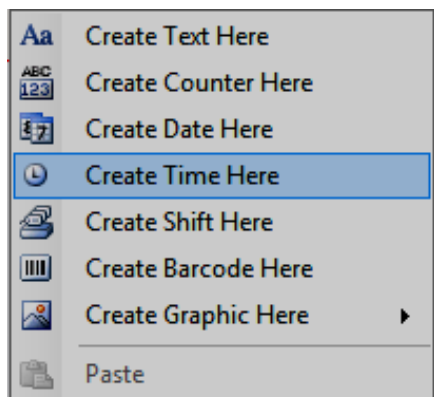
Text Properties Menu



To print two lines of text as in the above example, in the text string box use the Control + Enter to wrap to the second line or click the %New Line+button.

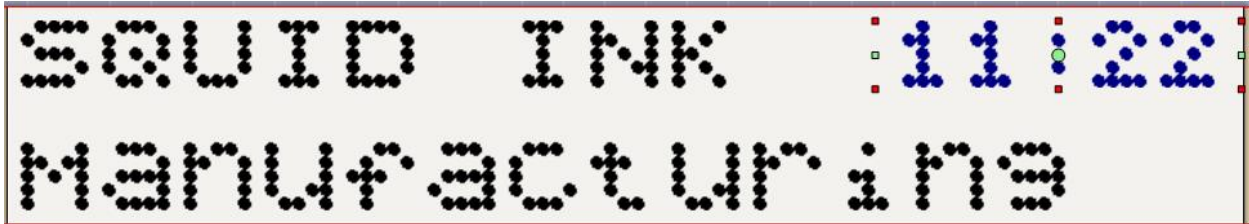
Another Element

To place a Time element in the Jetline printhead right click the mouse on the printing area and select %Create Time Here+ from the drop down context menu. Or select the %Time+icon from the %Insert+tab.





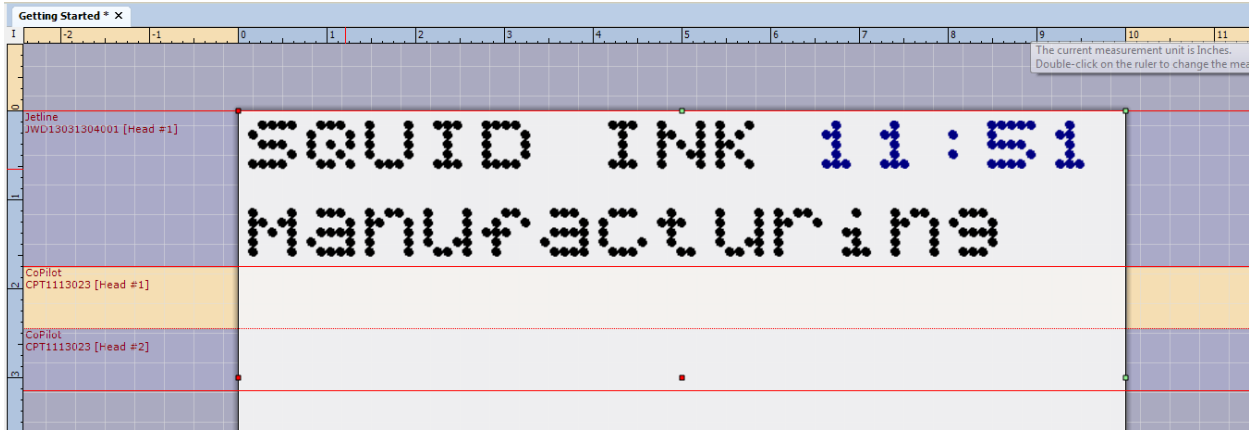
Time Element Properties Menu



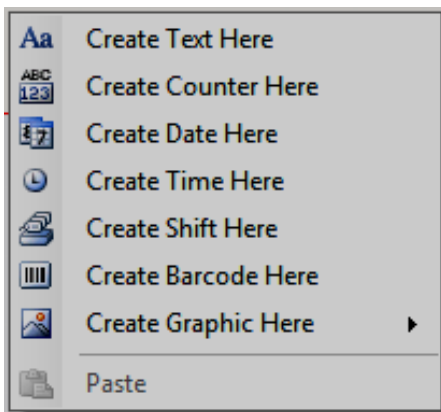
The Time element has been added to the message.

Placing Elements in the CoPilot Printheads

To place an element in a CoPilot Printhead click on the CoPilot Head #1 area on the message creation screen. The CoPilot printhead will be selected and highlighted.

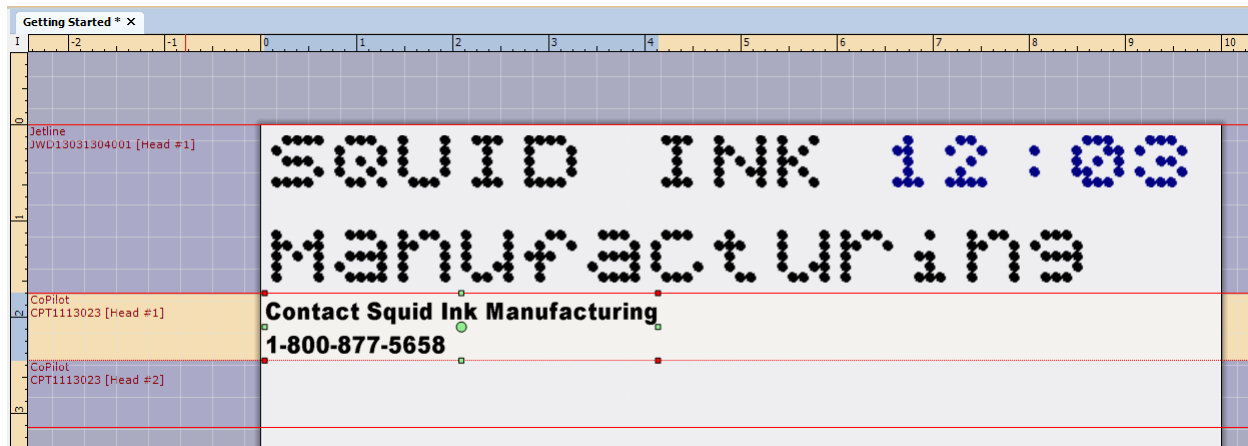
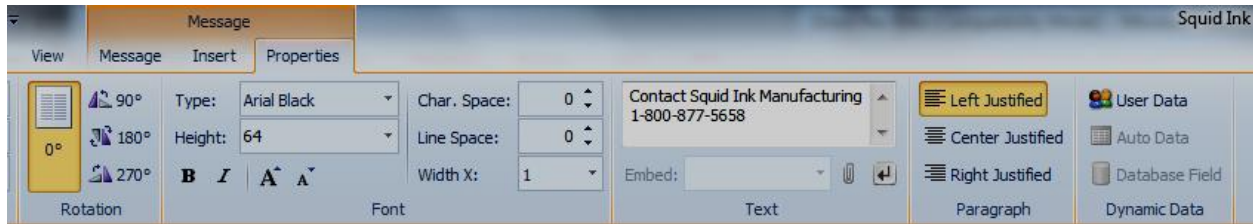


With the CoPilot Head #1 highlighted, select the **Insert** tab on the top ribbon menu for a display of available elements. Click the type of element to be placed in the message.



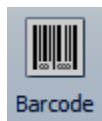
You can also right click the mouse on the substrate (printing surface) for CoPilot Head #1 and a drop down list of available elements will appear on the screen.

Create a text element and the Text properties display will open for you to change text attributes.



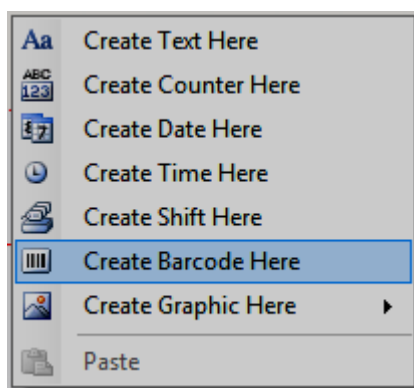
In the above example we have placed two lines of Arial Black text, 64 jets in height. Remember to wrap text into two lines press the **Ctrl + Enter** keys to wrap text to a second line.

Place a barcode in the message



With CoPilot printhead #1 highlighted in the message creation screen, click the **Barcode** icon from the insert ribbon tab.

Or



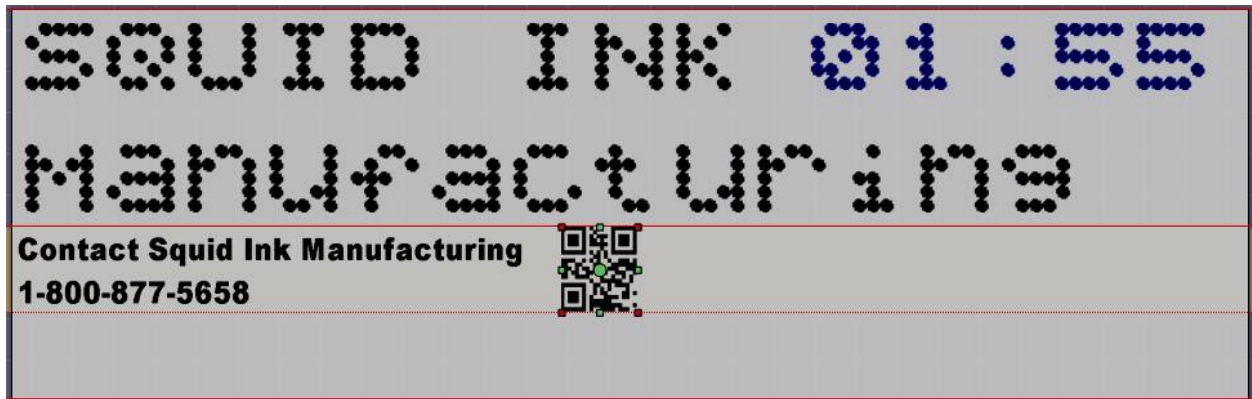
Right click in the CoPilot Head #1 printing area and select Barcode from the drop down context menu.

The Barcode Properties ribbon will display.

30 Getting Started



Here we have created a QR-Code for the Squid Ink Manufacturing web site on CoPilot Head #1.



Here we have entered another text string `%www.squidink.com+` on Head #1.

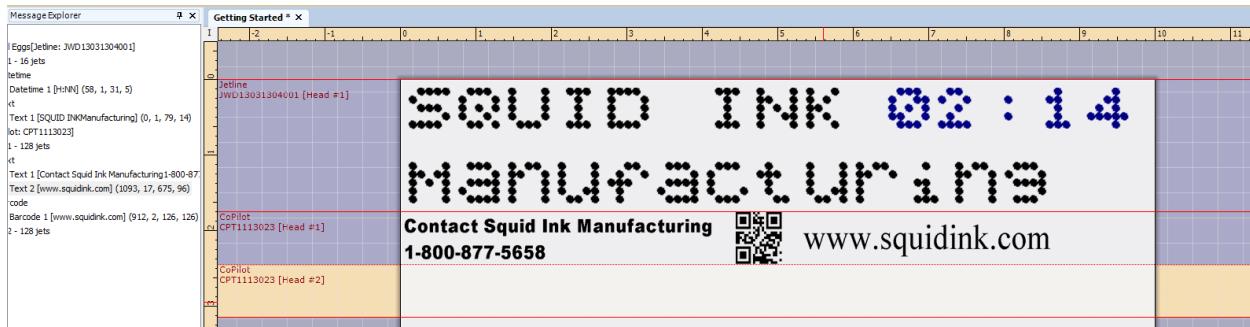


Notice that the properties ribbon for the selected element is displayed.



Place an Element on CoPilot Printhead #2

Select and highlight CoPilot Printhead #2 in the message creation screen.

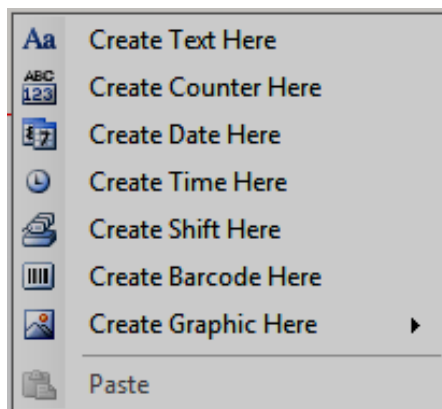


We are going to add a graphic from an existing image file to CoPilot Head #2 in the message.

With CoPilot Head #2 highlighted, select the **Insert+** tab on the top menu ribbon for a display of available elements.



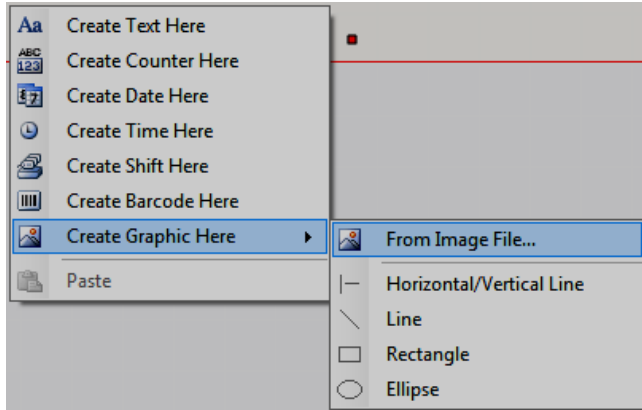
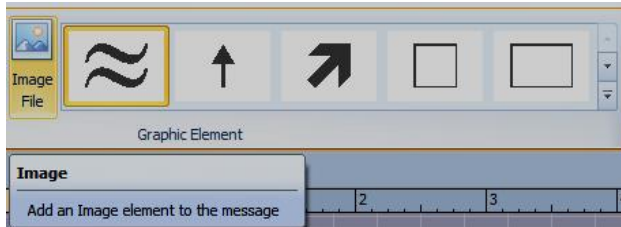
Or



You can also right click the mouse on the substrate (printing surface) for CoPilot Head #2 and a drop down list of available elements will appear on the screen.

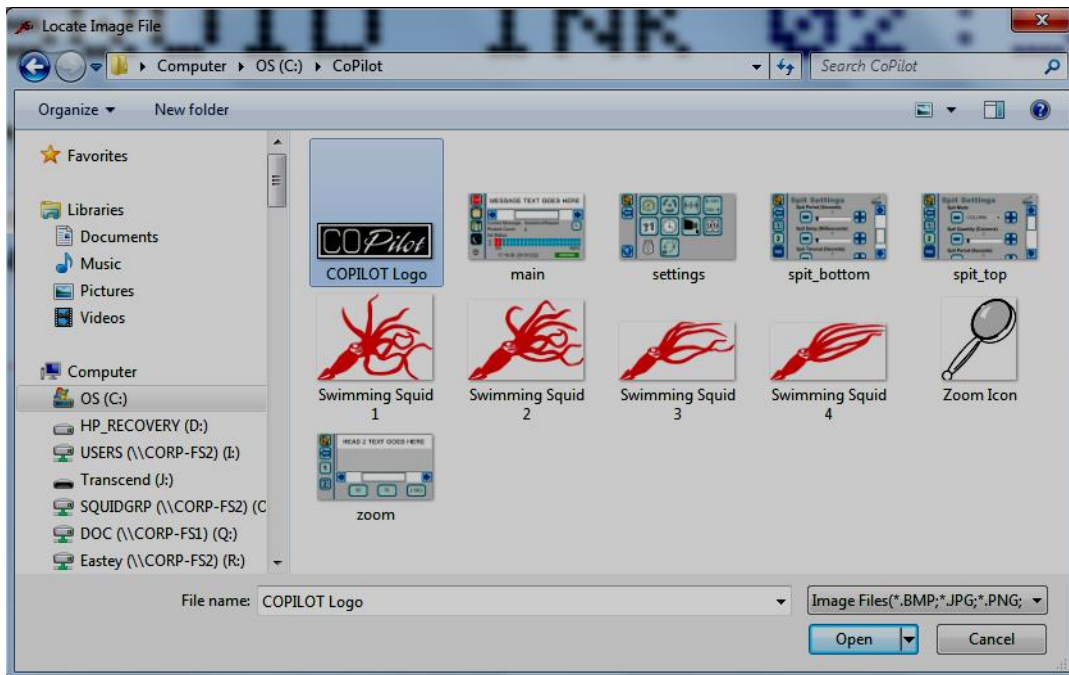
32 Getting Started

Click the **Image File** icon from the **Insert** ribbon.



You can also right click in the CoPilot Head #2 print area and select **Create Graphic Here** > **From Image File** from the drop menu.

A navigation window will open and you can navigate to the location where the image resides. In this case to keep things simple I have selected a COPILOT logo stored on drive (C:) in a **CoPilot** directory I created.

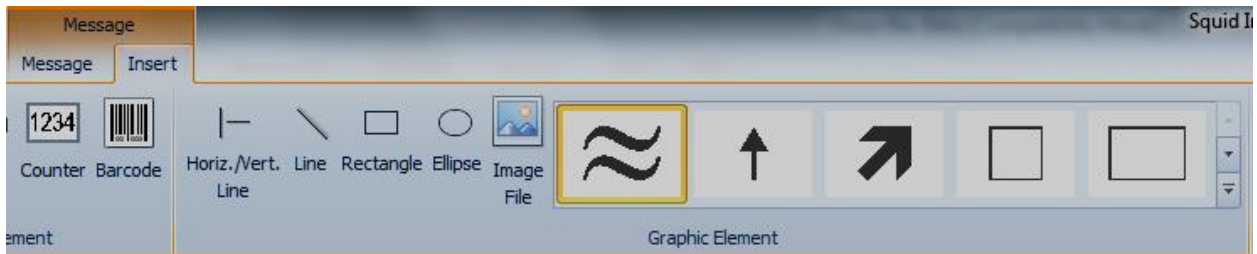


Select **Open** to retrieve the graphic.

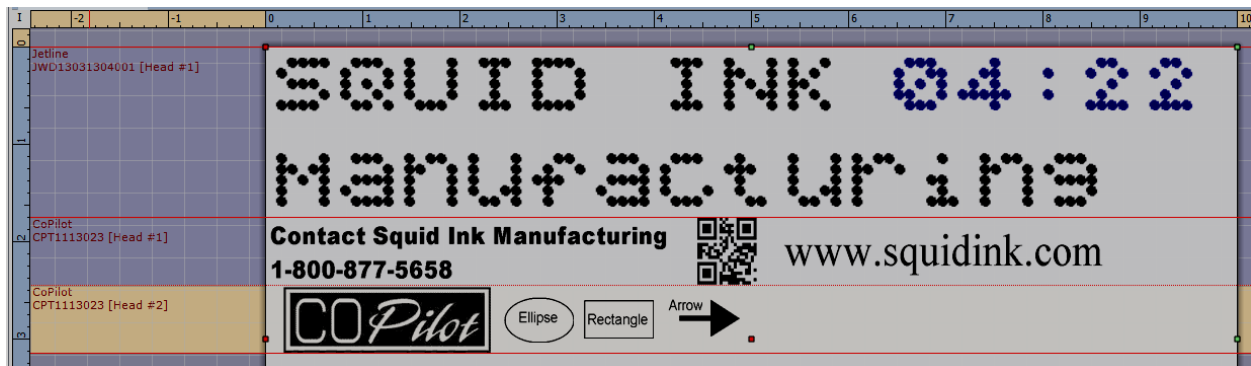


The graphic will be placed in CoPilot Head #2 in the message. You can click and drag the graphic to a new position or resize it.

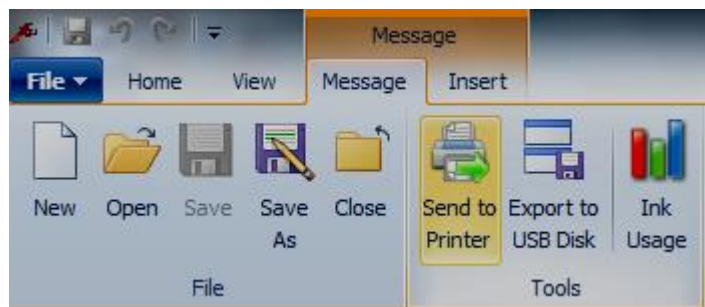
There are some native graphic tools like line, rectangle and a built in graphics gallery in Orion that can be used directly. Click on corresponding tool icon or select an existing graphic from the drop down gallery list in %**Graphic Element**+ ribbon group while the desired printhead is selected.



Here I have placed an ellipse, a rectangle and an arrow logo in the CoPilot Head #2 print area.

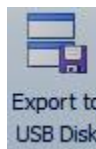


Printing the Message



Send to Printer

To print the current message, select the **Send to Printer** icon in the Message tab. The message will be sent to corresponding printer(s) ready to print.



Export to USB Disk

You can select the **Export to USB Disk** to save the message on a removable USB disk. The USB disk can then be physically moved. When plugged into USB port of a corresponding printer, the message can be loaded into the printer ready to select and print.

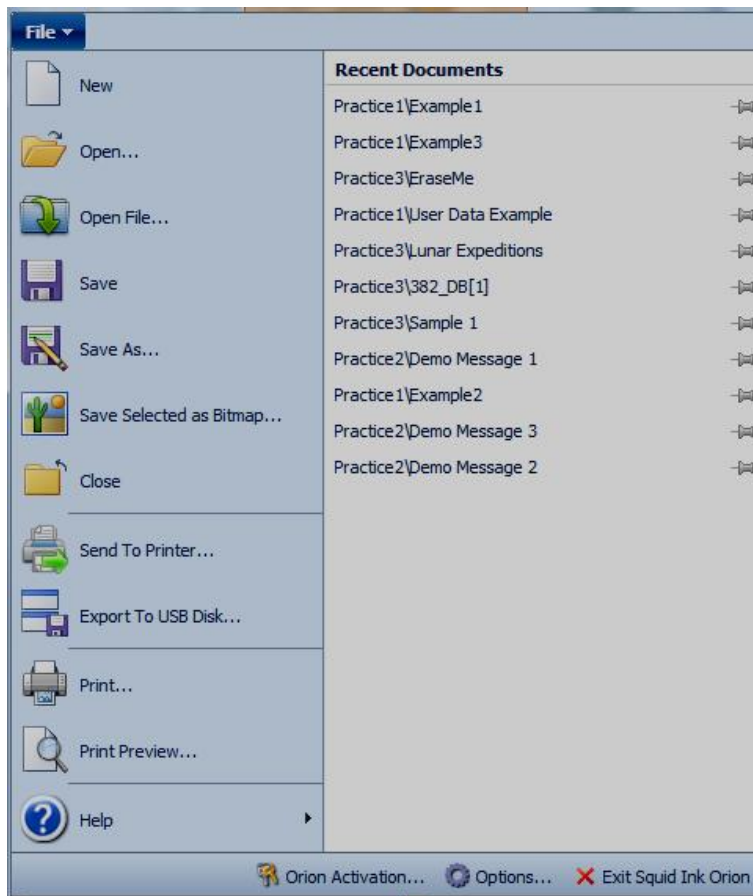
Static Menu Tabs

When the Orion Graphical Software Package is first opened there will be three menu tabs in the top left corner of the Orion Window.

- File
- Home
- View



File



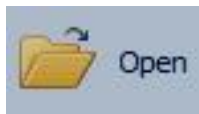
The **%file+** tab contains normal message operation and related functions such as opening, saving and printing messages also some system function buttons.

File>New



%**N**ew+ will open a new message creation window.

File>Open



%**O**pen+ is for opening an existing message that has been already been created in Orion.

File>Save

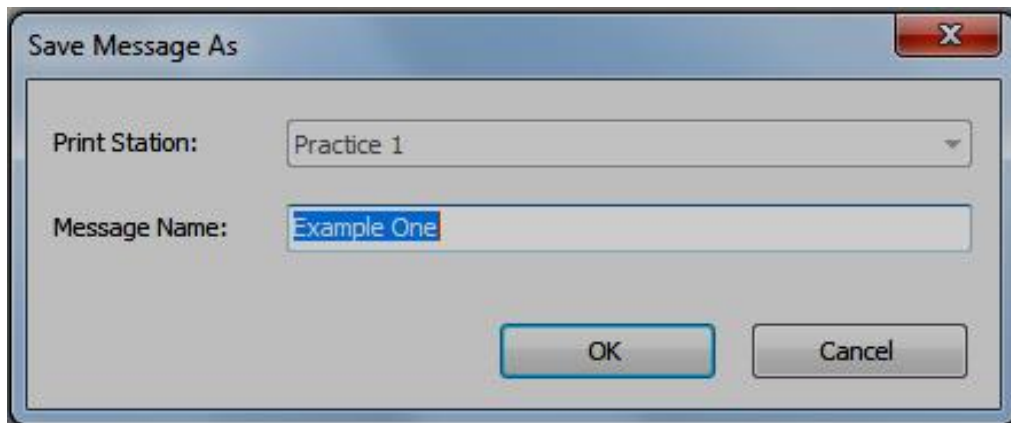


Select %**S**ave+ to save changes to the current message.

File>Save As



Select %**S**ave **A**s+ to save the current message with a different name.

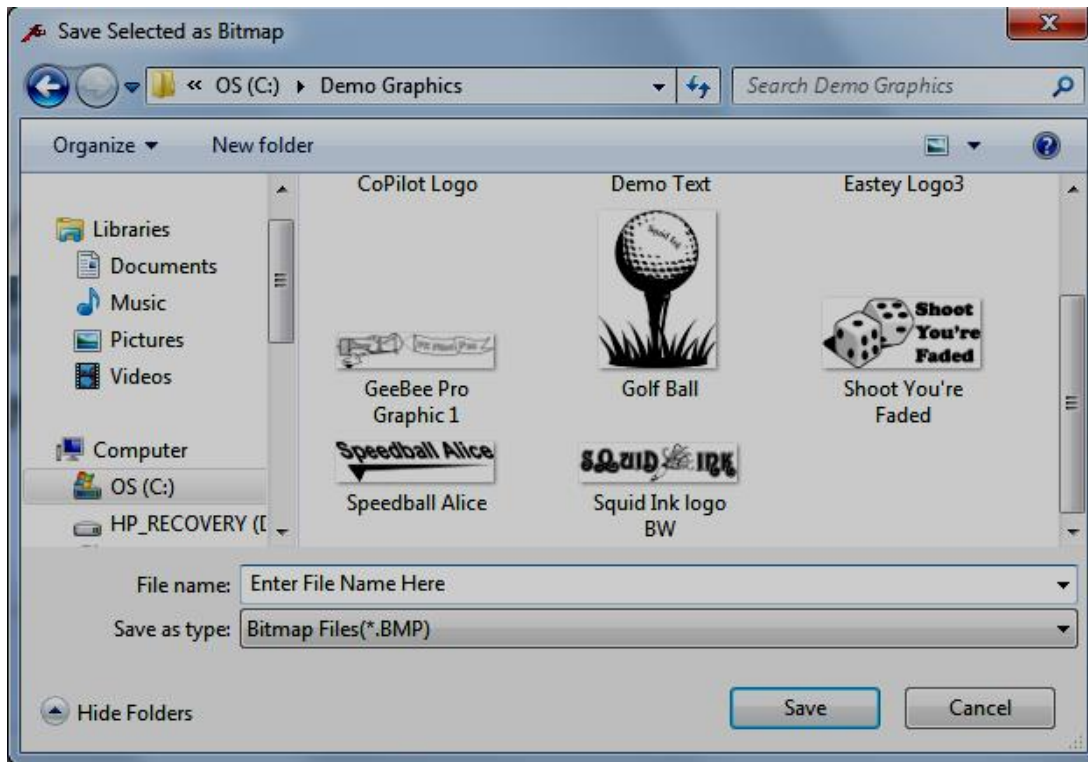


File>Save Selected as Bitmap



Save Selected as Bitmap...

Any selected elements in an open message can be saved as a bitmap image. The bitmap file can be saved to any location. To save an element as a bitmap file navigate to the location where you would like to save the file and enter a file name in the **File name** box. Select **Save** to save the file.



File>Close



Close

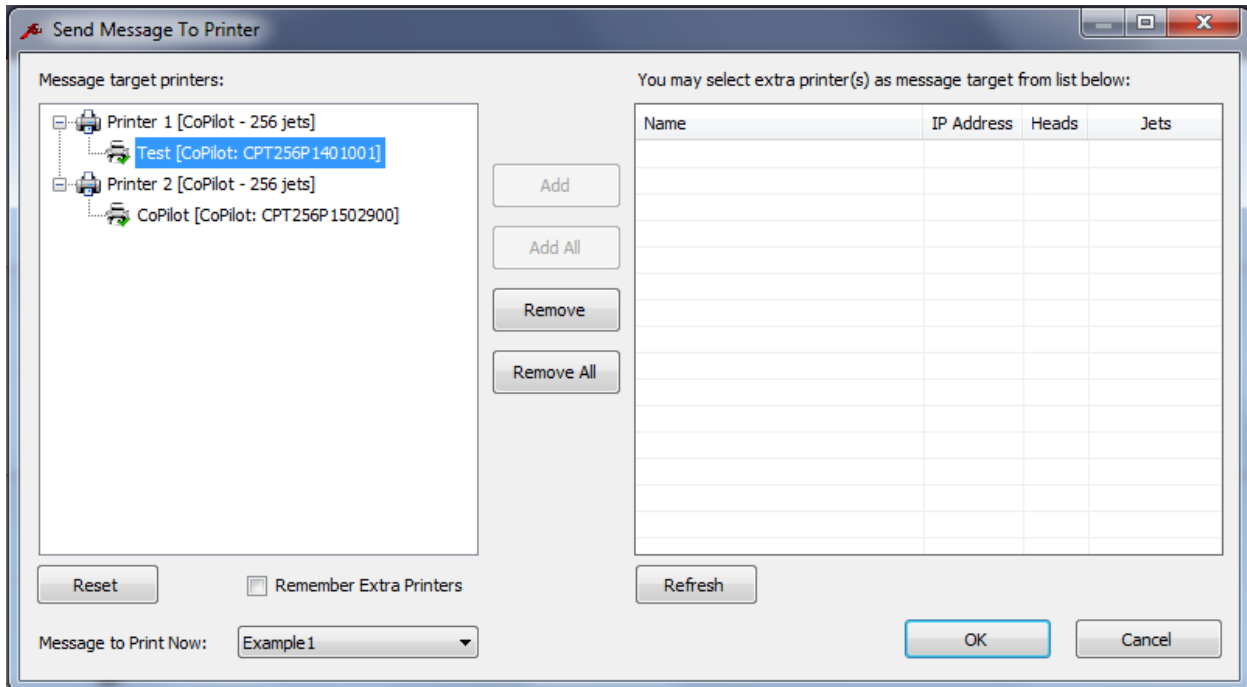
Select **Close** to close the current message. After selecting **Close** you will be asked if you want to save the changes for the message before closing.

File>Send To Printer



Send To Printer... will send the current message to the connected printers for printing. The **Send Message to Printer** window will open.

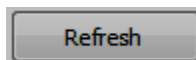
Send Message To Printer Window



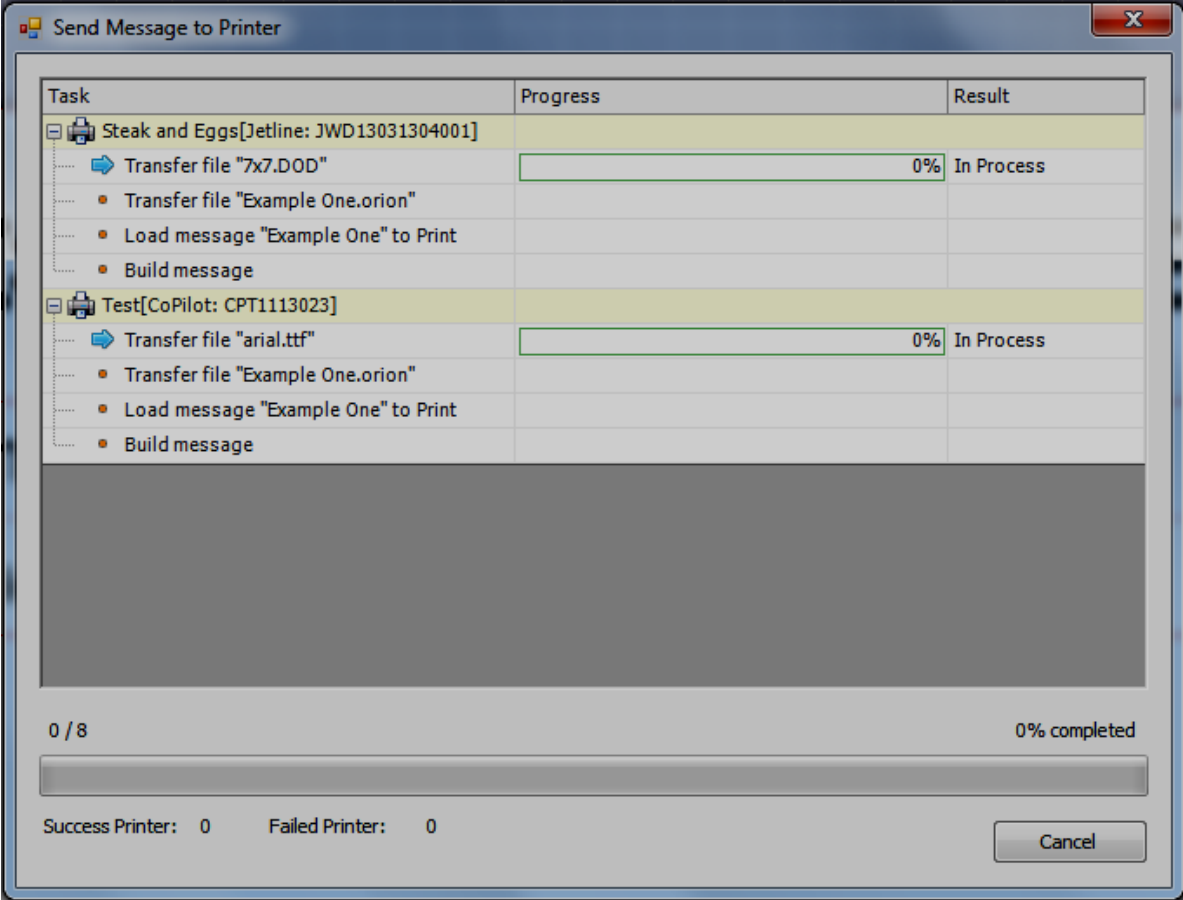
The **Send Message To Printer** window will list all the printers assigned to the message being sent on the left. On the right side of the window additional connected printers are listed.



The **Reset** button will reset printers assigned as target printers to the message pre assigned printers.

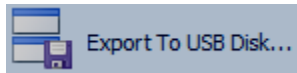


The **Refresh** button will update the list of connected printers available to add to the message target.



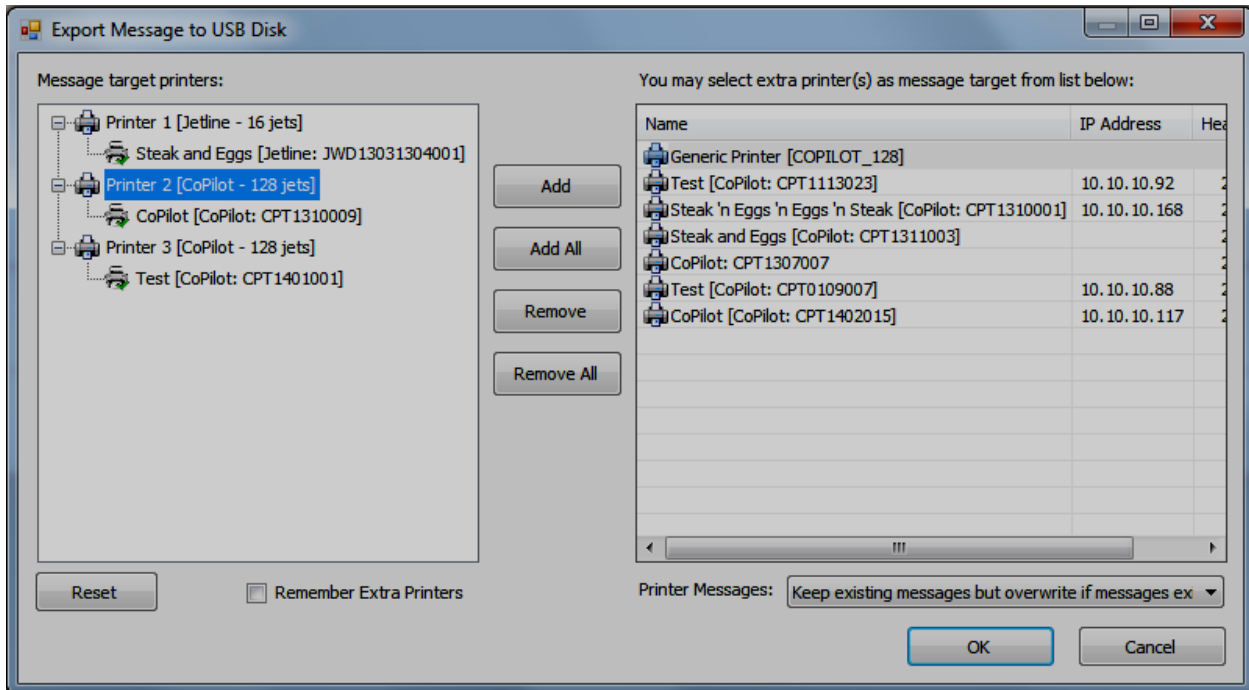
If you have made changes to the current message you will be asked if you want to save before sending the message to the assigned printers.

File>Export To USB Disk

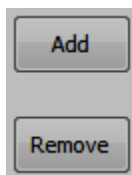


%Export To USB Disk...+ will save the current message on a removable USB disk.

Export To USB Disk Window

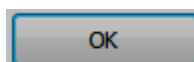
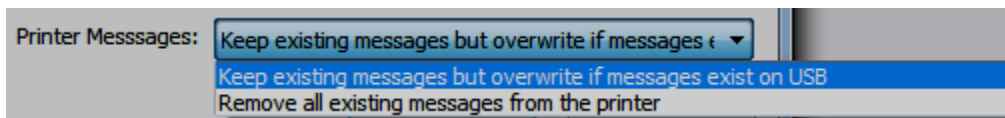


The **%Reset+** button will reset printers assigned as target printers to the message pre assigned printers.



The **%Add+** and **%Remove+** buttons will move printers back and forth to the target list. Double clicking on a listed printer will also move the selected printer(s) to or from the Target printer list.

The **+Printer Messages:** button will offer options for dealing with existing messages. Use the drop down arrow and select the desired option.



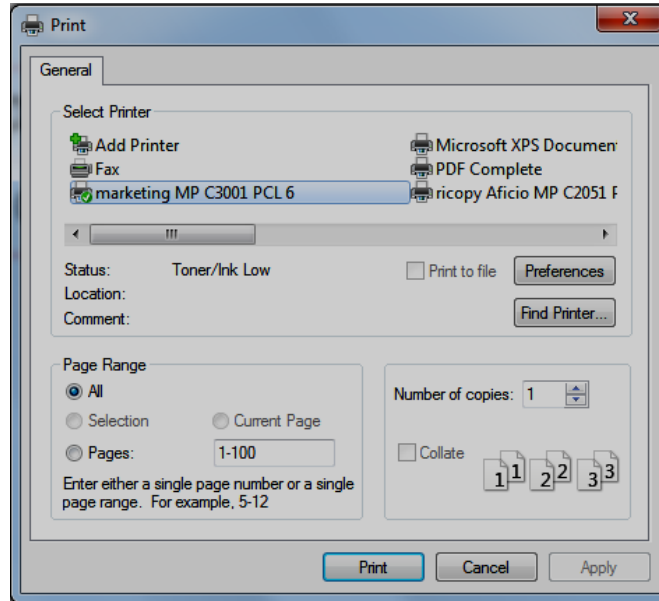
Select the **%OK+** button to send the current message to the USB Disk.

File>Print

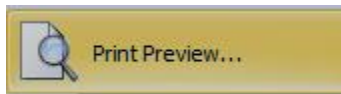


Selecting **Print...+** from the file drop down menu will allow you to print the current message on a selected office type printer. This is useful to see what a message will look like.

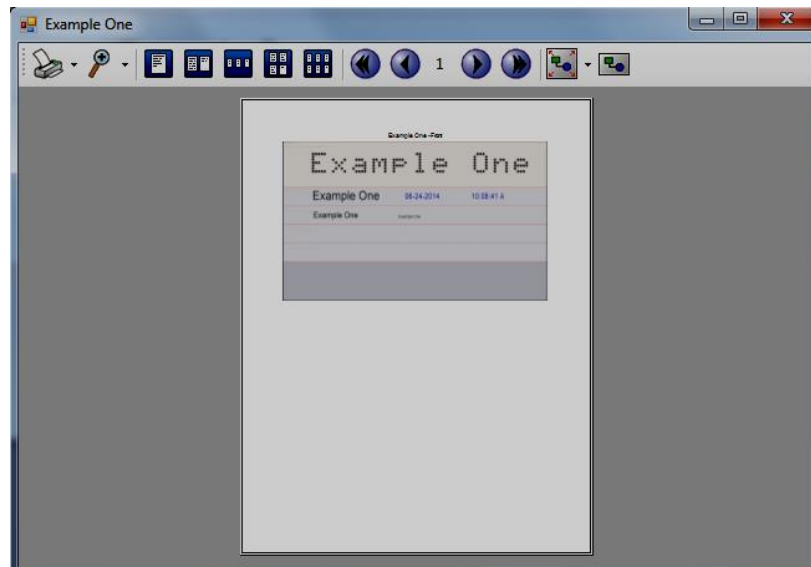
Attention! **Print** + does not send the message to a Squid Ink industrial ink jet printer. It is only used to print a copy of the current message on an office type printer.



File>Print Preview



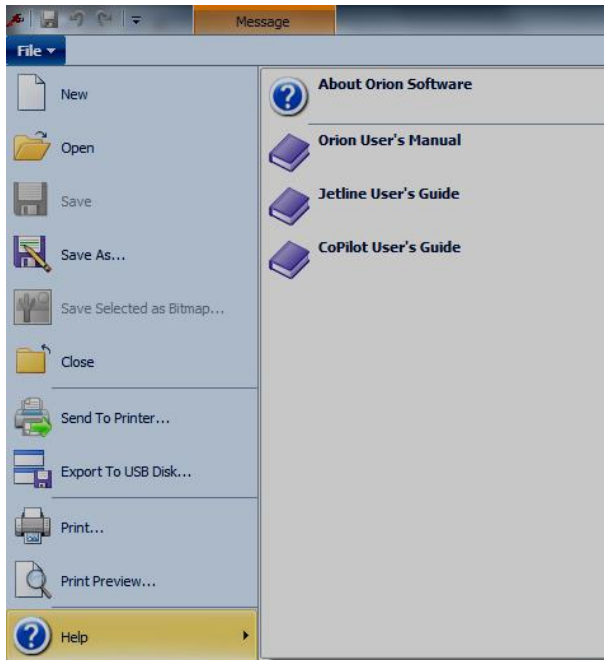
Selecting **Print Preview...+** from the **File** drop down menu will display a preview of the current message. This is useful in seeing what the current message will look like.



File>Help



Selecting **%Help** from the **“File+”** drop down menu will display the help window.



In the help window you can access the Orion Software User Guide, the Jetline User Guide, the CoPilot User Guide and information about the currently installed Orion Software.



Should you need to contact Squid Ink Technical Services look in **%About Orion Software+** to determine the current version of Orion[®] and the maximum number of printers can be licensed.

File>Activation

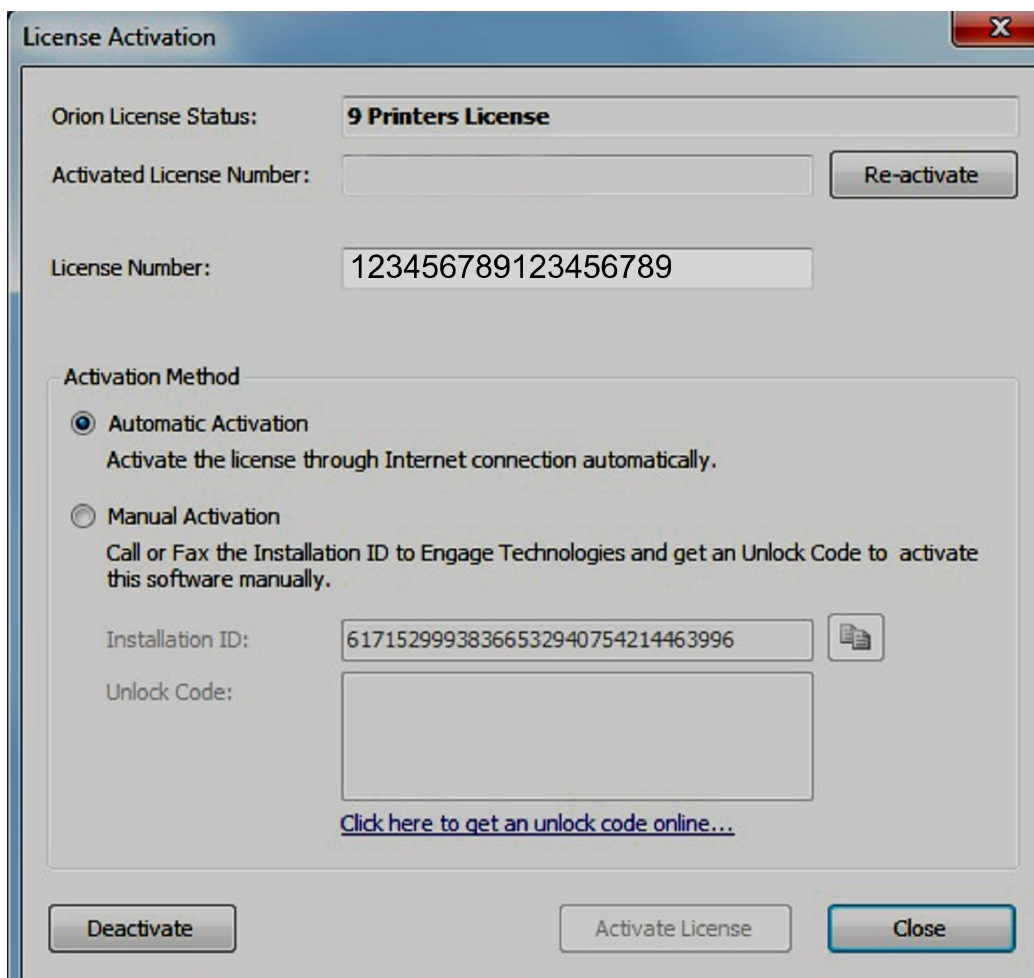


The **Orion Activation...** button is located along the bottom margin of the **File** drop down menu. Select the **Orion Activation** button to open the activation window.

If the Orion Software installation is new or you have to change printers licensed to the current installation use the **Orion Activation** window.

Note: The Orion software package was shipped with a free license for one printer.

License Activation Window

A screenshot of a software window titled "License Activation". The window has a standard Windows-style title bar with a close button (X) in the top right corner. The main content area is divided into several sections. At the top, "Orion License Status:" is followed by a text box containing "9 Printers License". Below this, "Activated License Number:" is followed by an empty text box and a "Re-activate" button. The "License Number:" field contains the text "123456789123456789". A section titled "Activation Method" contains two radio button options: "Automatic Activation" (which is selected) and "Manual Activation". Under "Automatic Activation", it says "Activate the license through Internet connection automatically." Under "Manual Activation", it says "Call or Fax the Installation ID to Engage Technologies and get an Unlock Code to activate this software manually." Below the manual activation section, "Installation ID:" is followed by a text box containing "61715299938366532940754214463996" and a document icon button. Below that, "Unlock Code:" is followed by an empty text box. At the bottom of the manual activation section, there is a blue hyperlink that says "Click here to get an unlock code online...". At the very bottom of the window, there are three buttons: "Deactivate", "Activate License", and "Close".

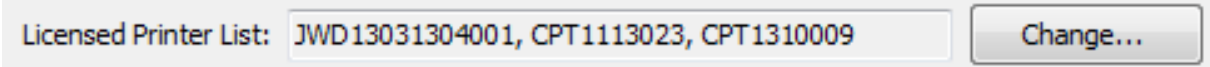
License Status:

There are three (3) levels of licensing status for the Orion Software.

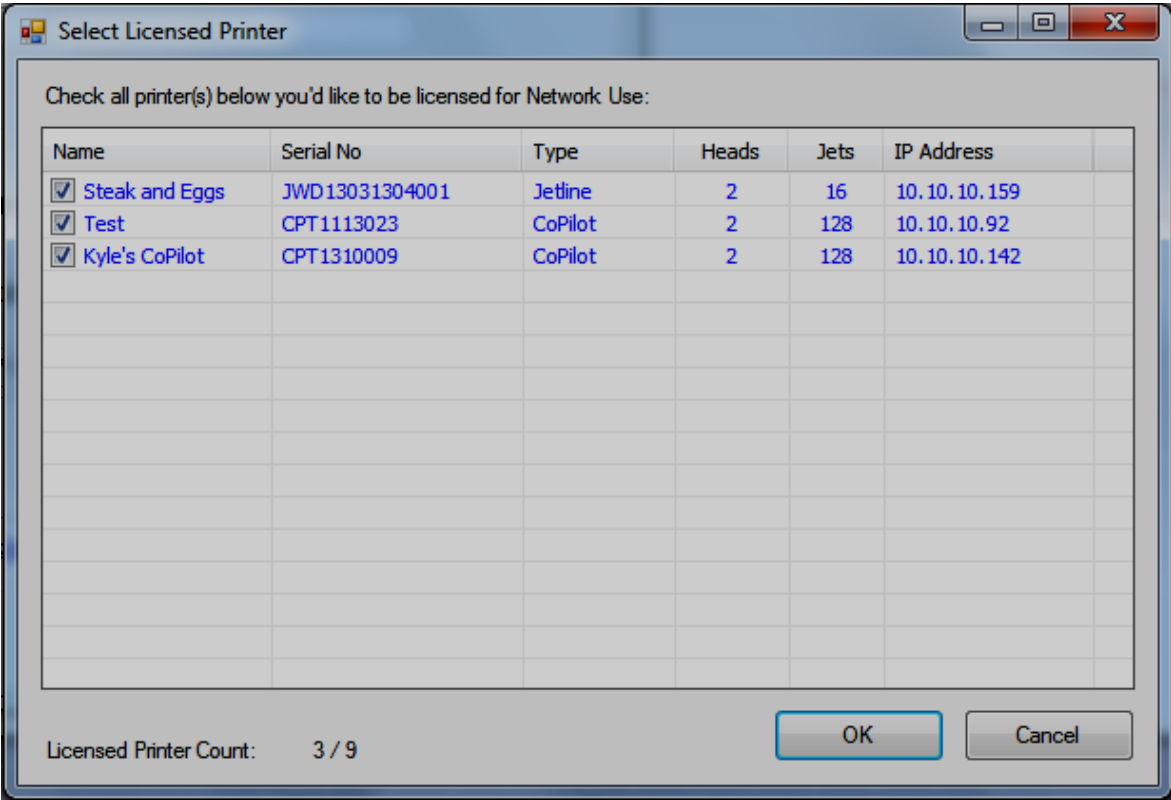
- Tier 1 Will allow one (1) printer to be connected to the desktop and Operator Mode for a windows tablet.
- Tier 2 Will allow unlimited printers to be connected to the desktop and tablet.
- Tier 3 Will allow and unlimited number of printers to be connected to the desktop and include Database Server and AutoData Server functions.

Licensed Printer List:

The licensed printer list shows the printers that can be used by the current Orion Software License.



To change (add or subtract) printers from the licensed printer list select the Change button.



Check the boxes for all the printers to be licensed for network use and select OK.

Attention! A printer must be in the Licensed Printer List to be selected in %Send Message to Printer+dialog.

License Number:

There is a license number for the Orion Software Package located on the %DOWNLOAD INSTRUCTIONS+ card that came with the CoPilot or Jetline printing systems. If you have purchased a license for multiple printers enter the number in the %License Number:+box.

License Number:

Activation Method

There are two ways to activate the installed Orion Graphical Software Package.

Automatic Activation:

The screenshot shows the 'Activation Method' dialog box. The 'Automatic Activation' radio button is selected. Below it, the text reads 'Activate the license through Internet connection automatically.' The 'Manual Activation' radio button is unselected, with text below it: 'Call or Fax the Installation ID to Engage Technologies and get an Unlock Code to activate this software manually.' The 'Installation ID' field contains the number '61715299938366532940539297953855'. The 'Unlock Code' field is empty. A blue link at the bottom says 'Click here to get an unlock code online...'. A 'Copy' icon is next to the Installation ID field.

To automatically activate Orion, select the %Automatic Activation+ radio button and the %Activate License+ button.

Manual Activation:

The screenshot shows the 'Activation Method' dialog box. The 'Manual Activation' radio button is selected. Below it, the text reads 'Call or Fax the Installation ID to Engage Technologies and get an Unlock Code to activate this software manually.' The 'Automatic Activation' radio button is unselected, with text below it: 'Activate the license through Internet connection automatically.' The 'Installation ID' field contains the number '61715299938366532940539297953855'. The 'Unlock Code' field contains the placeholder text 'Enter Unlock Code Here'. A blue link at the bottom says 'Click here to get an unlock code online...'. A 'Copy' icon is next to the Installation ID field.

To manually activate Orion, Select the Manual Activation radio button and call or fax the installation ID to Engage Technologies to get an unlock code. When you have received the unlock code, enter it in the Unlock Code: box and select the %Activate License+button.

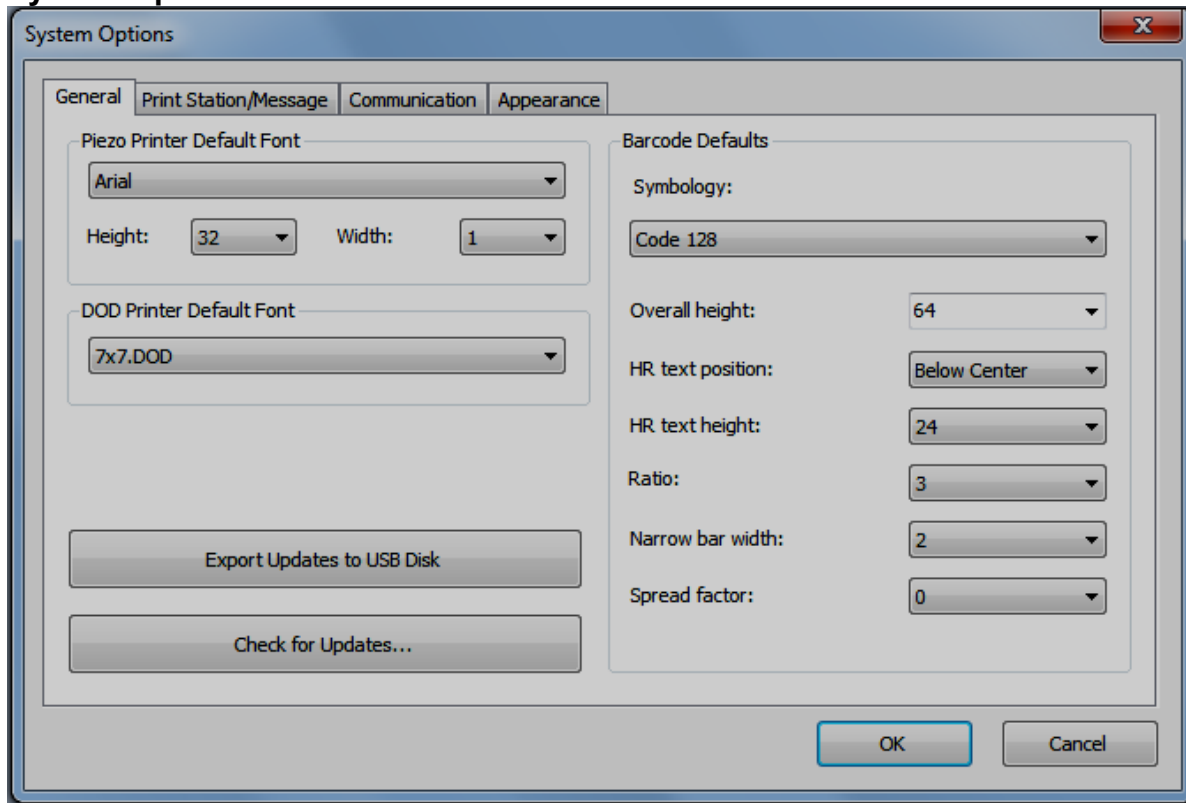
File>Options



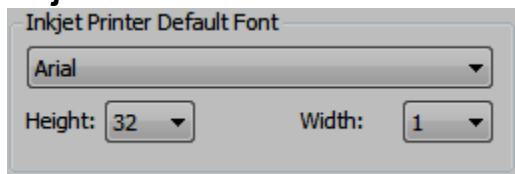
Select **Options** from the file drop down menu to set some default values for attached printers and to check for software updates.

Attention! **Options** in the file drop down menu only set the default values for the connected printers such as a default font size or barcode type. **Options** does not configure the connected printers.

System Options Window: General Tab

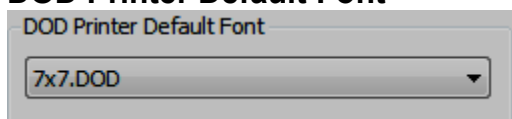


Inkjet Printer default Font



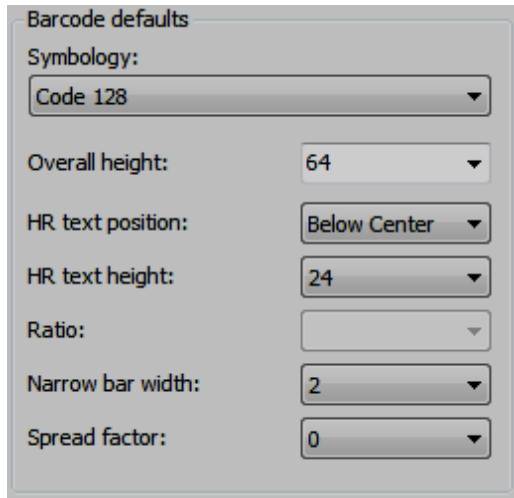
The **Inkjet Printer Default Font** are the default font setting to be used when create text elements for piezo printers such as the Squid Ink CoPilot or AutoPilot printing systems. To change the default values use the drop down arrows for font, height and width. Select the **OK** Button in the System Options window to apply the changes.

DOD Printer Default Font



The **DOD Printer Default Font** are the default font settings to be used when create text elements for DOD printers such as the squid Ink Jetline printing system. To change the default values use the drop down arrow and select the desired dot matrix font. Select the **OK** Button in the System Options window to apply the changes.

Barcode Defaults



Barcode defaults

Symbology: Code 128

Overall height: 64

HR text position: Below Center

HR text height: 24

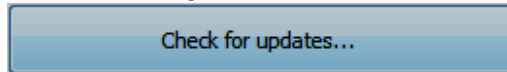
Ratio:

Narrow bar width: 2

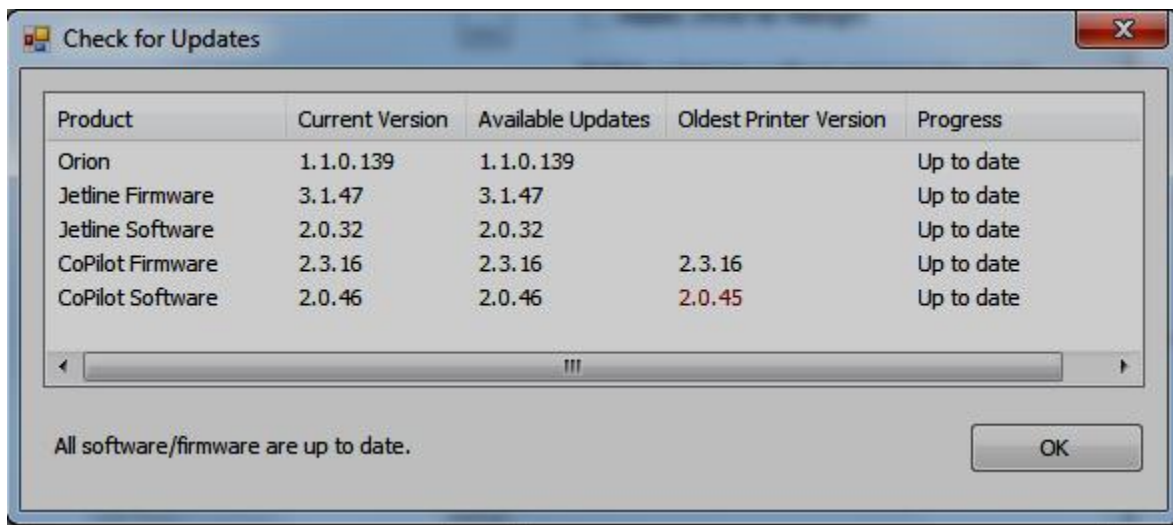
Spread factor: 0

Barcode defaults are the default barcode attributes. To change the default values for barcode attributes input or use the drop down arrow for a list of attributes for the value you wish to change. Select the OK Button in the System Options window to apply the changes.

Check for Updates



Occasionally software and/or firmware updates will become available from Squid Ink Manufacturing. Click on the Check for updates button to update your printers and software. A Check for Updates window will open and display the current software and firmware levels.

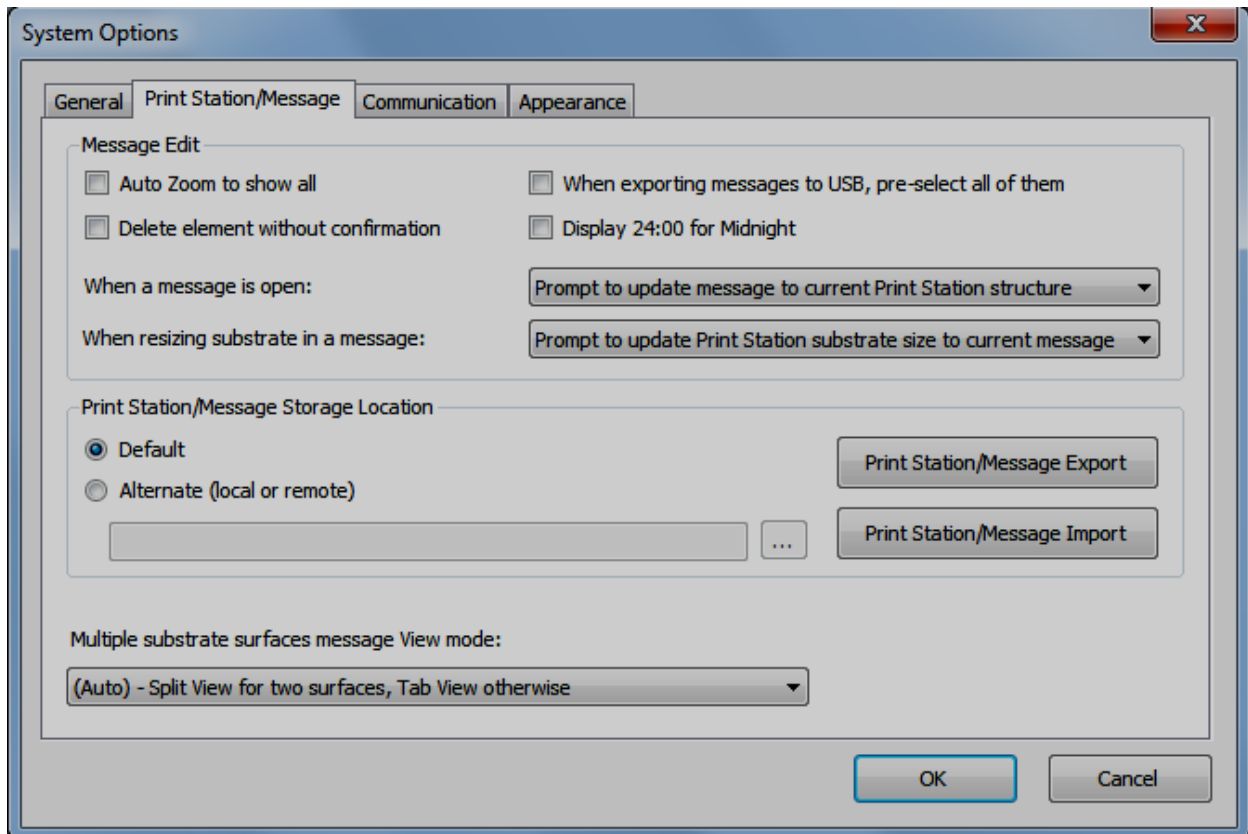


If there are updates available you will be asked if you want the updates. Follow the on screen prompts to apply the updates.

Note: A warning will display if the user exports multiple updates to the same printer type.

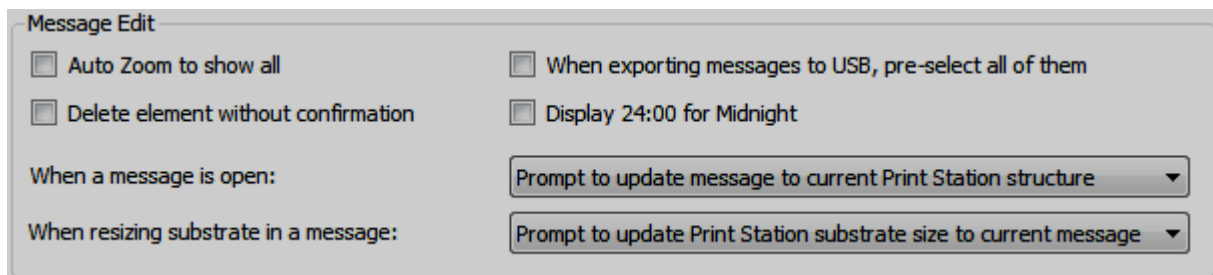
System Options Window: Print Station/Message Tab

The System Options Message tab contains default settings for displaying and saving messages.

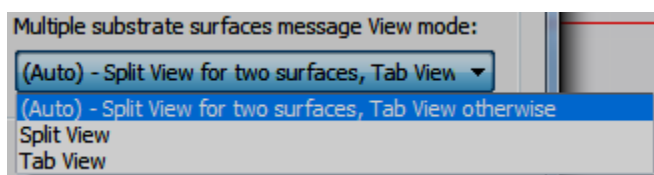


Message Edit

✚Message Edit✚Check the boxes for the defaults you would like to apply here.



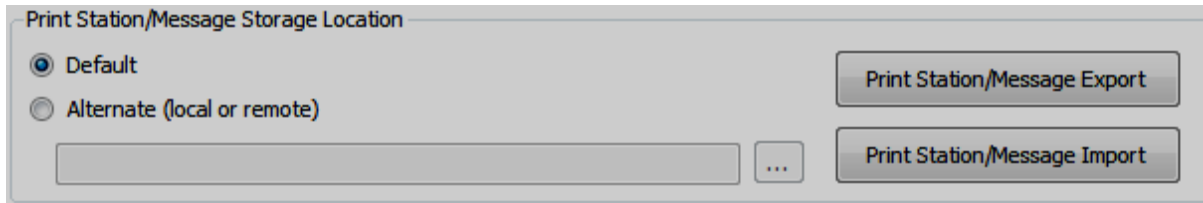
Multiple substrate surfaces message View mode:



Use the drop down arrow to set how you would like the view for multiple surfaces displayed.

Print Station/Message Storage Location

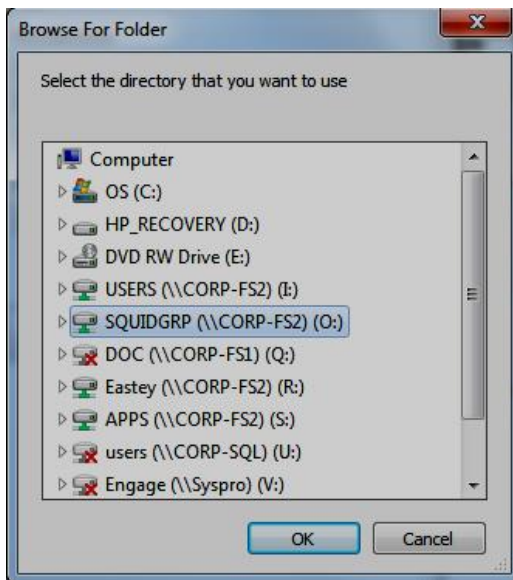
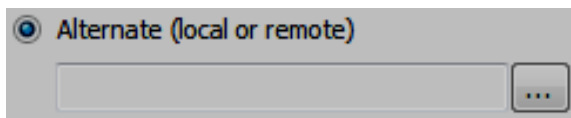
File Storage Location is the location where message files will be saved.



Default

If Default is selected files will be saved to the default location. The default location is C:\Squid Ink\Orion\Printnode\Messages. Orion will create a folder for each print station containing messages and a DELETED folder at this location.

Tip! If a message has been accidentally deleted it is possible to find and restore the deleted from the DELETED folder.



If Alternate (local or remote) is selected a navigation window will open where you can select the desired location where message files will be saved.

Print Station/Message Export

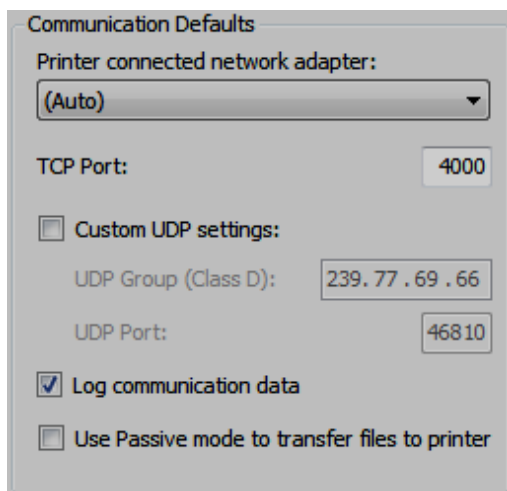
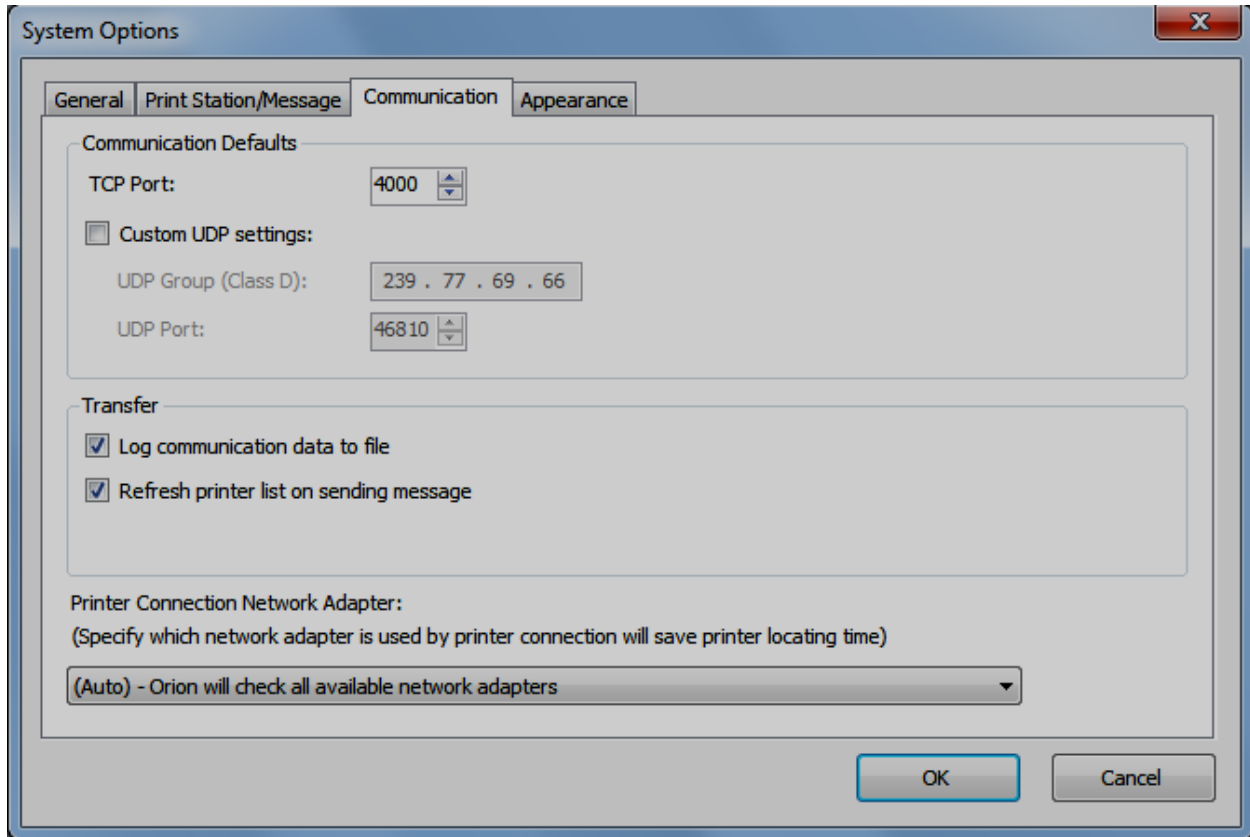
Print Station/Message Export is used to transfer all print station and message data to another location. See the **Print Station/Message Data Transfer** section in this manual.

Print Station/Message Import

Print Station/Message Import is used to retrieve all print station and message data from another location. See the **Print Station/Message Data Transfer** section in this manual.

System Options Window: Communications Tab

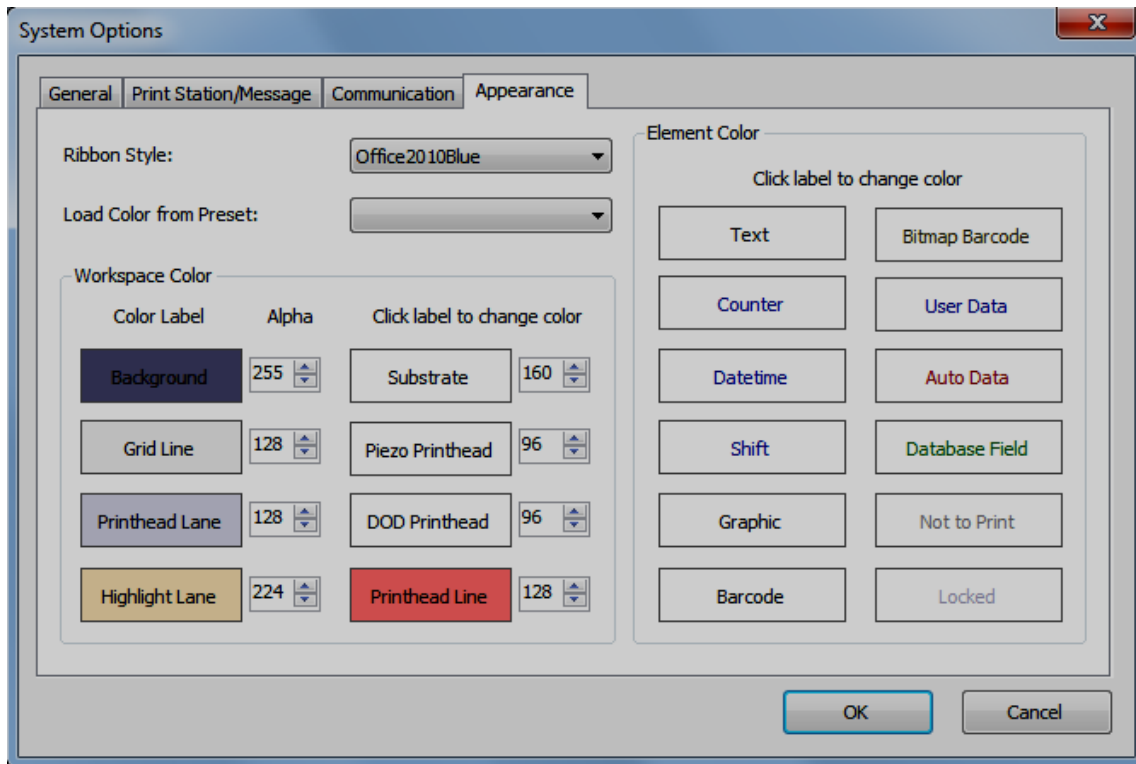
Use the Communications window to set communication defaults.



+Communication Defaults+ are the default settings network printers will use to communicate.

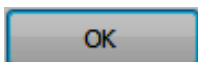
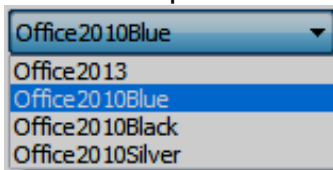
System Options Window: Appearance

Use the Appearance tab to define the default settings for how the message will be displayed on screen.



Ribbon Style:

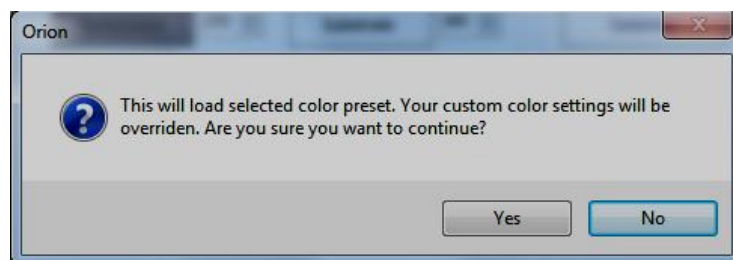
Use the drop down arrow to select a color for the message area background.



Select **OK** and the selected color will be applied to the message area background.

Load color from preset:

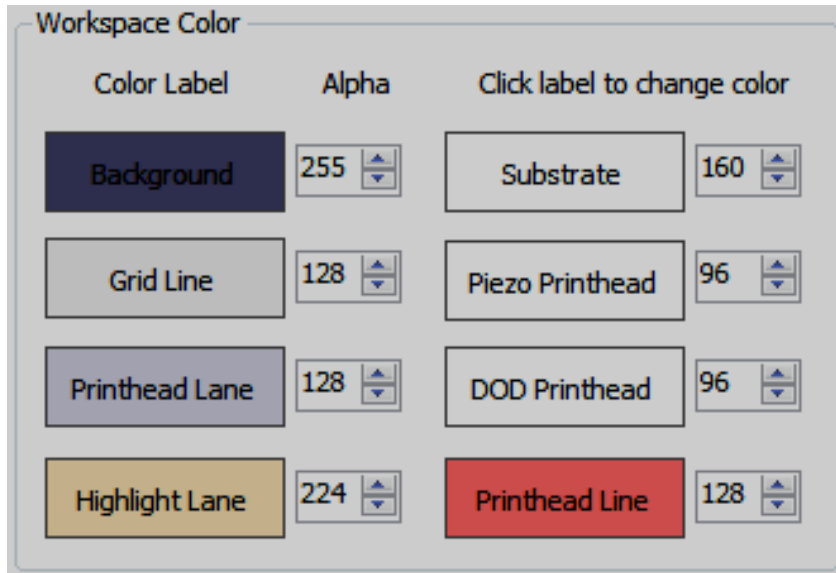
Use the drop down arrow to select preset color definitions for the message area.



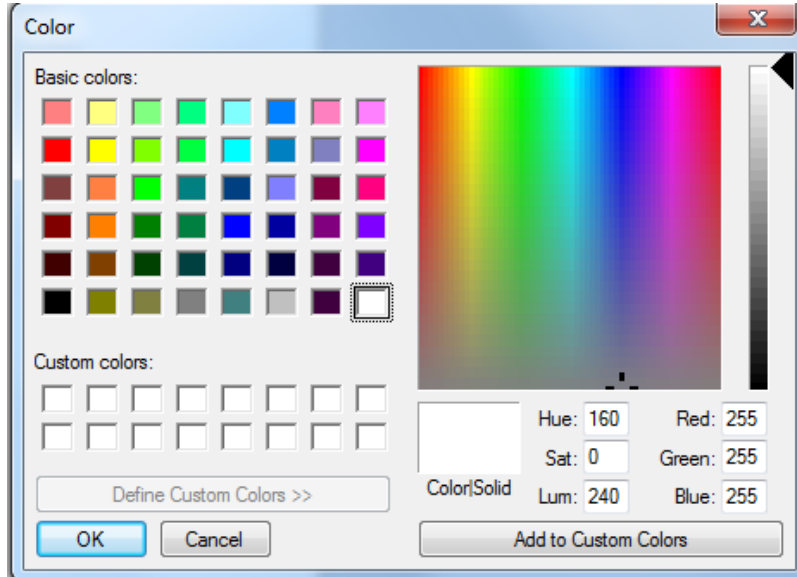
Selecting preset definitions will override any custom color selections. Select **Yes** to continue.

Workspace Color

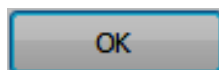
The colors for selected areas in the message workspace can be changed here.



Changing a color is very simple. To change a color, select a box for the area you would like to define and a color palette will open. For example, to change the display color for Substrate, select the Substrate box and the color palette will display.



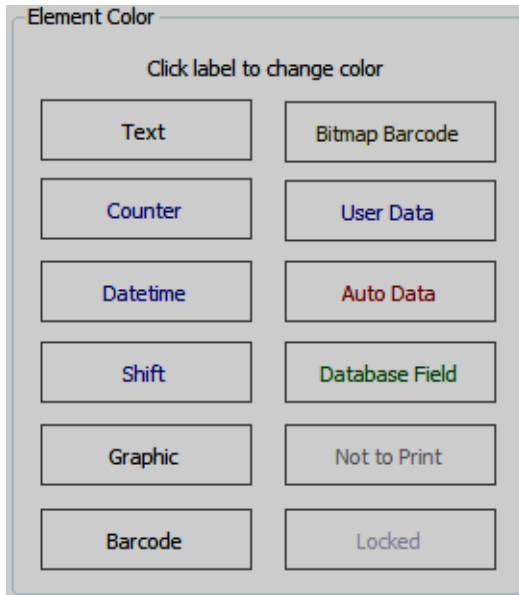
Using the Color Palette you can select from any number of colors or create a custom color.



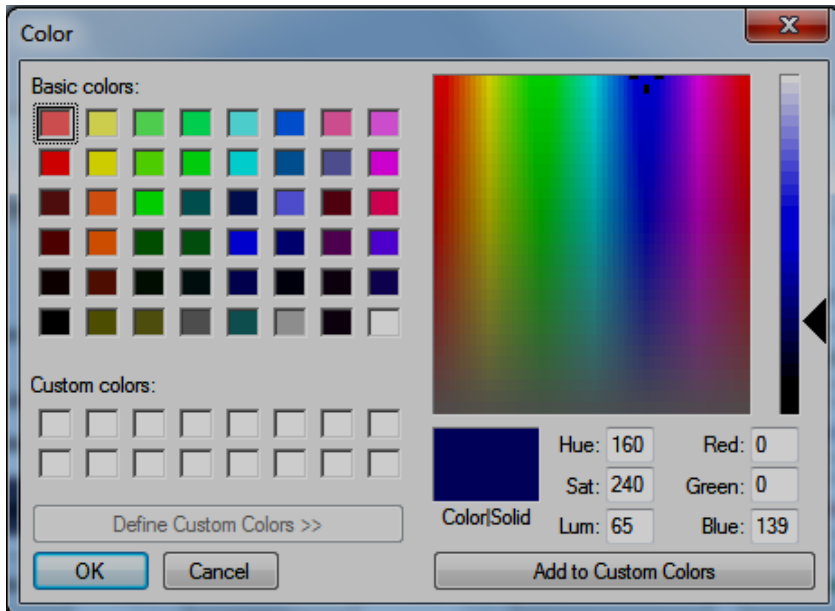
Select **OK** and the new color will be applied to the selected message area.

Element color

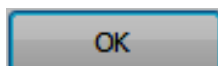
You can change to color message elements are displayed in.



Change an element color is very simple. Select the type of element you wish to change. A color palette will open. For example if you wish to change the color in which Date and Time are displayed select %Datetime+.

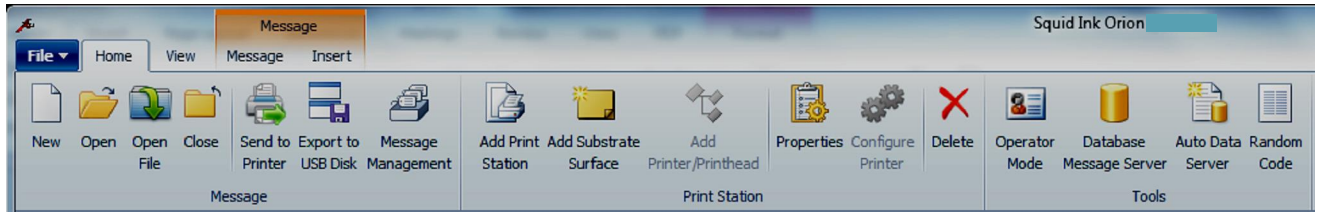


Using the Color Palette you can select from any number of colors or create a custom color.



Select %OK+ and the new color will be applied to the selected element type.

Home



The %Home+tab contains three groups:

- Message
- Print Station
- Tools

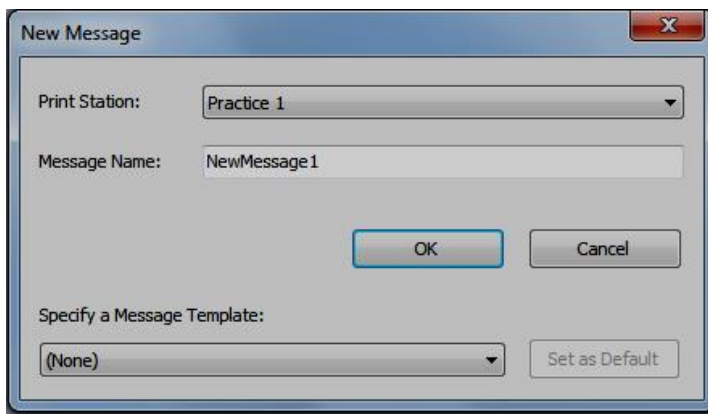
Home>Message Group

The Message section contains functions for managing messages created in the Orion Graphical Software Package.

New

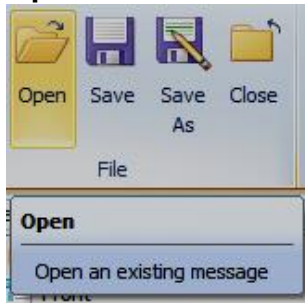


Mouse clicking the +New+ icon will open the New Message window.

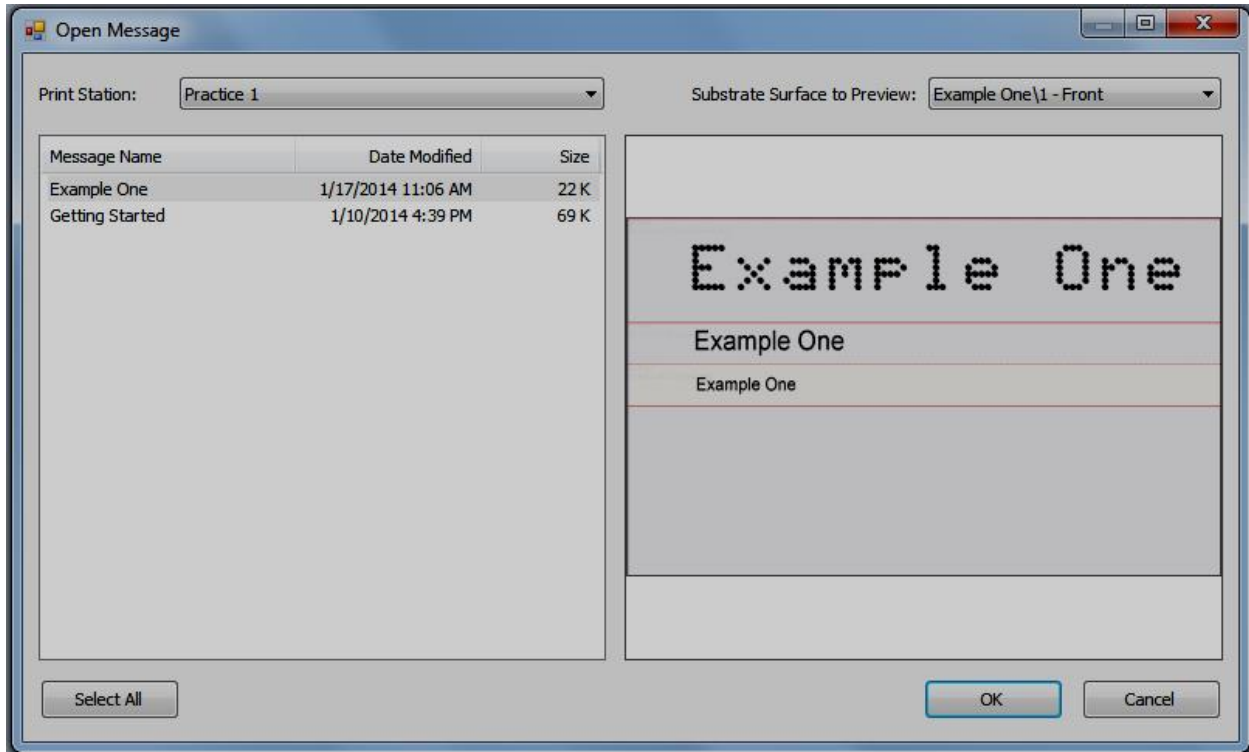


In the %New Message+ window you can select the print station, name the message and apply any existing templates. Select %OK+ to open the new message.

Open

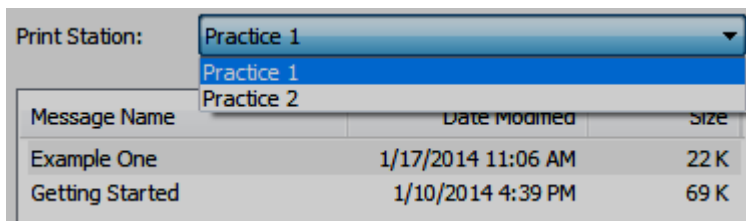


Mouse clicking on the **O**pen icon will allow you to find and open an existing message.



The **O**pen Message window will list all existing messages assigned to the selected print station. In the above example there are two messages listed under print station **P**ractice 1.

A preview of the selected message will be displayed on the right side of the Open Message window.



Use the **P**rint Station: drop down arrow to select a different print station.

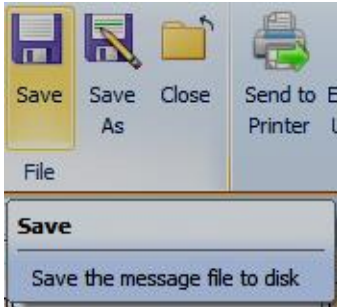
Select a message from the list and Mouse click on **O**K to open the selected message. Or double click on a message in the message list. You can select more than one message to open them at a time.

Open File



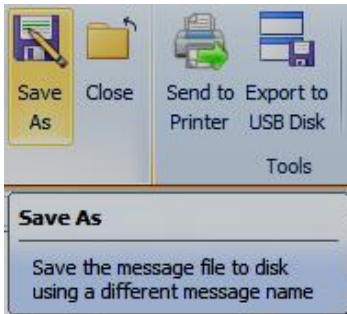
Open an existing message from a disk file. Click on **Open File+** and navigate to the file location to open the desired message.

Save

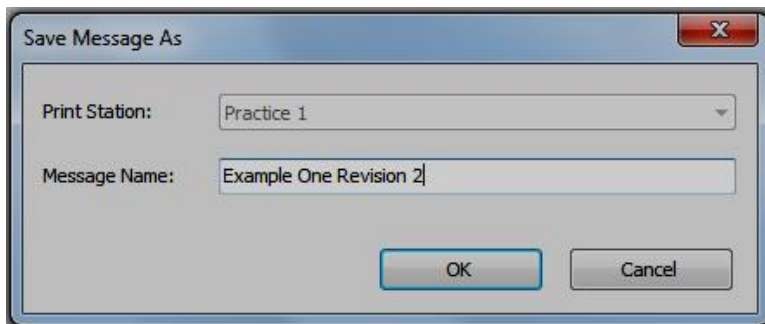


Clicking the **Save+** icon will save any changes to the current message. Ensure that you really want to save the changes before clicking on **Save+**.

Save As

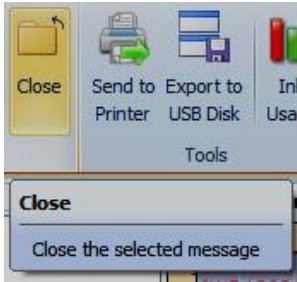


Save As+ will allow you to save the current message under a different name.

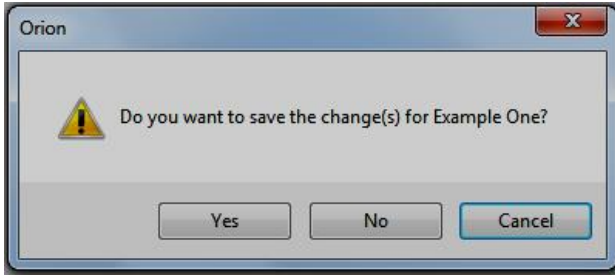


Enter the New name for the message in the **Message Name:** box and click **OK+** to save the current message under a new name.

Close

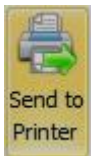


Clicking the %Close+icon will close the selected message.

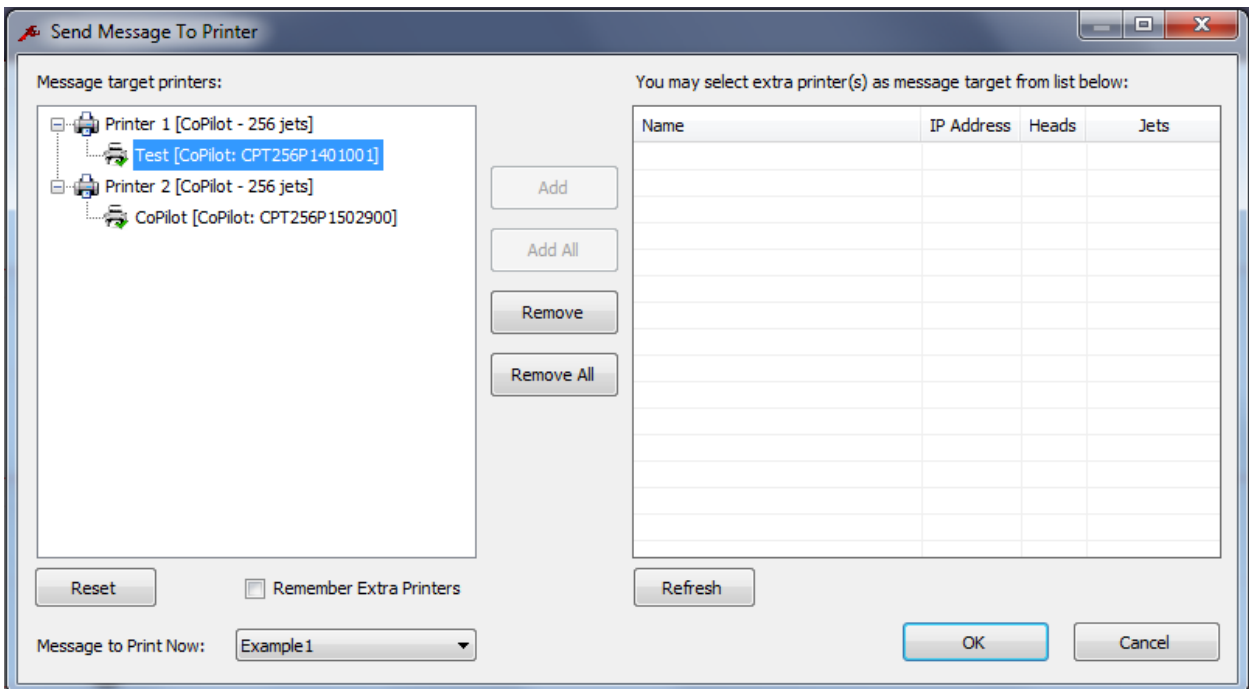


You will be prompted to save the changes before closing the message. Select %Yes+ to save the changes before closing. Select %No+ to close without saving.

Send to Printer

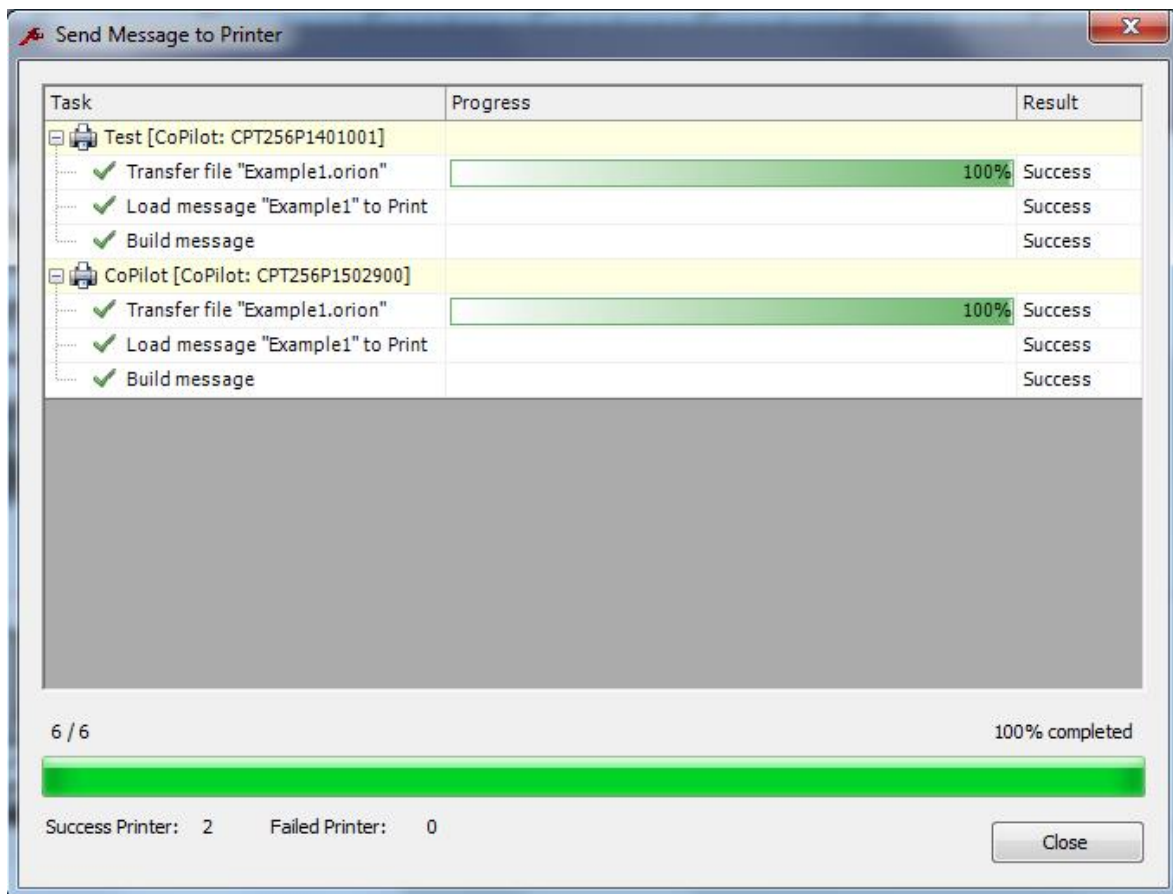


Send the open message to the printer. Selecting this icon will open the %Send Message to Printer+screen.



Send to Printer Window

Select the printer you wish to send the current message to and select %OK+. A progress screen will open.



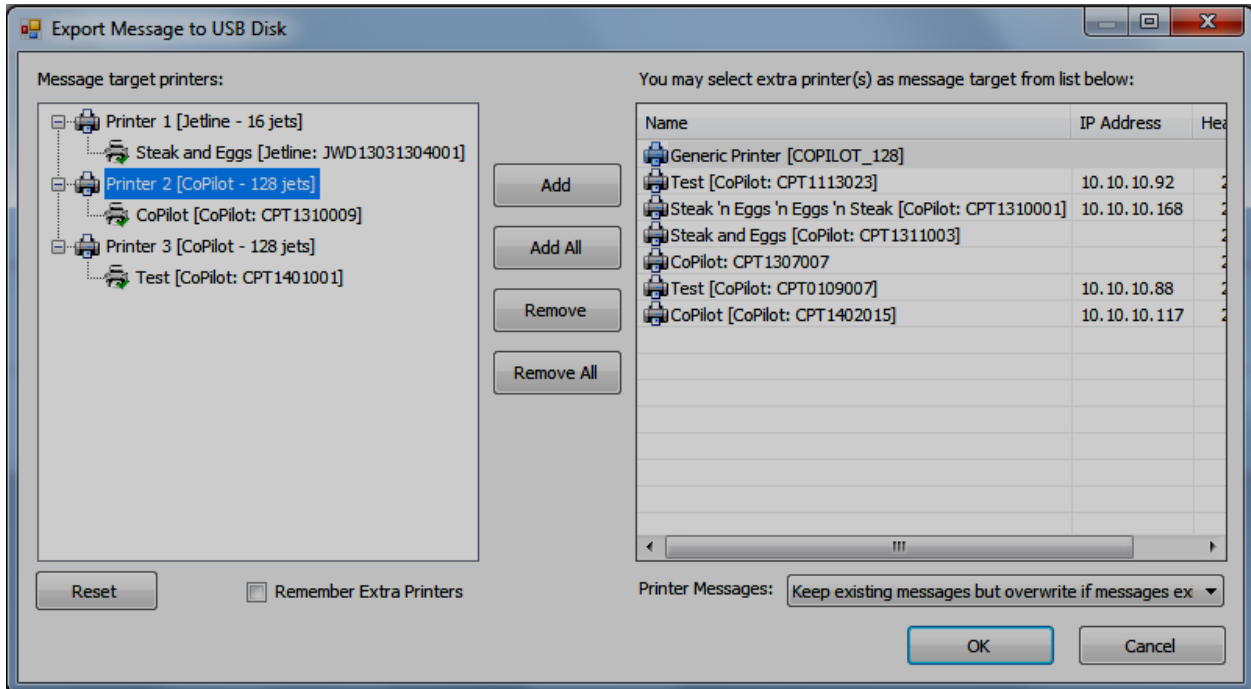
Message Transfer Progress Window

After the message has successfully transferred, select **Close** to close the progress screen.

Export to USB Disk



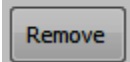
The **Export to USB Disk** + will save the current message on a removable USB disk.



Export to USB Disk Window

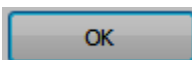
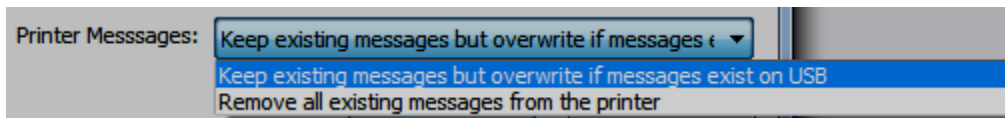


The **Reset** button will reset printers assigned as target printers to the message pre assigned printers.



The **Add** and **Remove** buttons will move printers back and forth to the target list. Double clicking on a listed printer will also move the selected printer(s) to or from the Target printer list.

The **Printer Messages:** button will offer options for dealing with existing messages. Use the drop down arrow and select the desired option.



Select the **OK** button to send the current message to the USB DSK.

Export to USB Disk Generic Printer:

In the %Export To USB Disk+ window there is an option to select %Generic Printer+ at the top of the list of available printers.

Name	IP Address	Head
Generic Printer [COPILOT_128]		
Test [CoPilot: CPT1113023]	10.10.10.92	
Steak 'n Eggs 'n Eggs 'n Steak [CoPilot: CPT1310001]	10.10.10.168	
Steak and Eggs [CoPilot: CPT1311003]		
CoPilot: CPT1307007		
Test [CoPilot: CPT0109007]	10.10.10.88	
CoPilot [CoPilot: CPT1402015]	10.10.10.117	

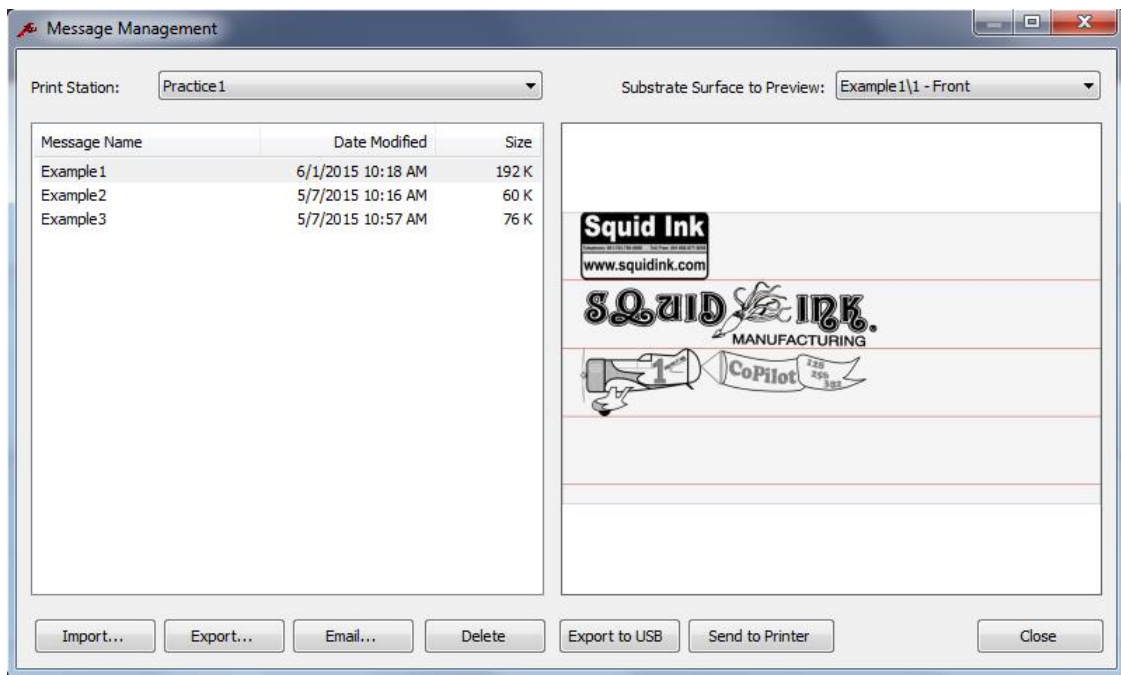
If %Generic Printer+ is selected the message exported to the USB disk can then be walked around to any printer of the same type and loaded onto the printer. The message will not be tied to a specific printer ID. The Generic Printer option is available for JetLine and CoPilot printers.

Message Management

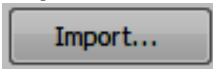


Message management provides a variety of functions such as Export, Import, Print, etc. for managing messages.

Select %Message Management+ to open the message management window.



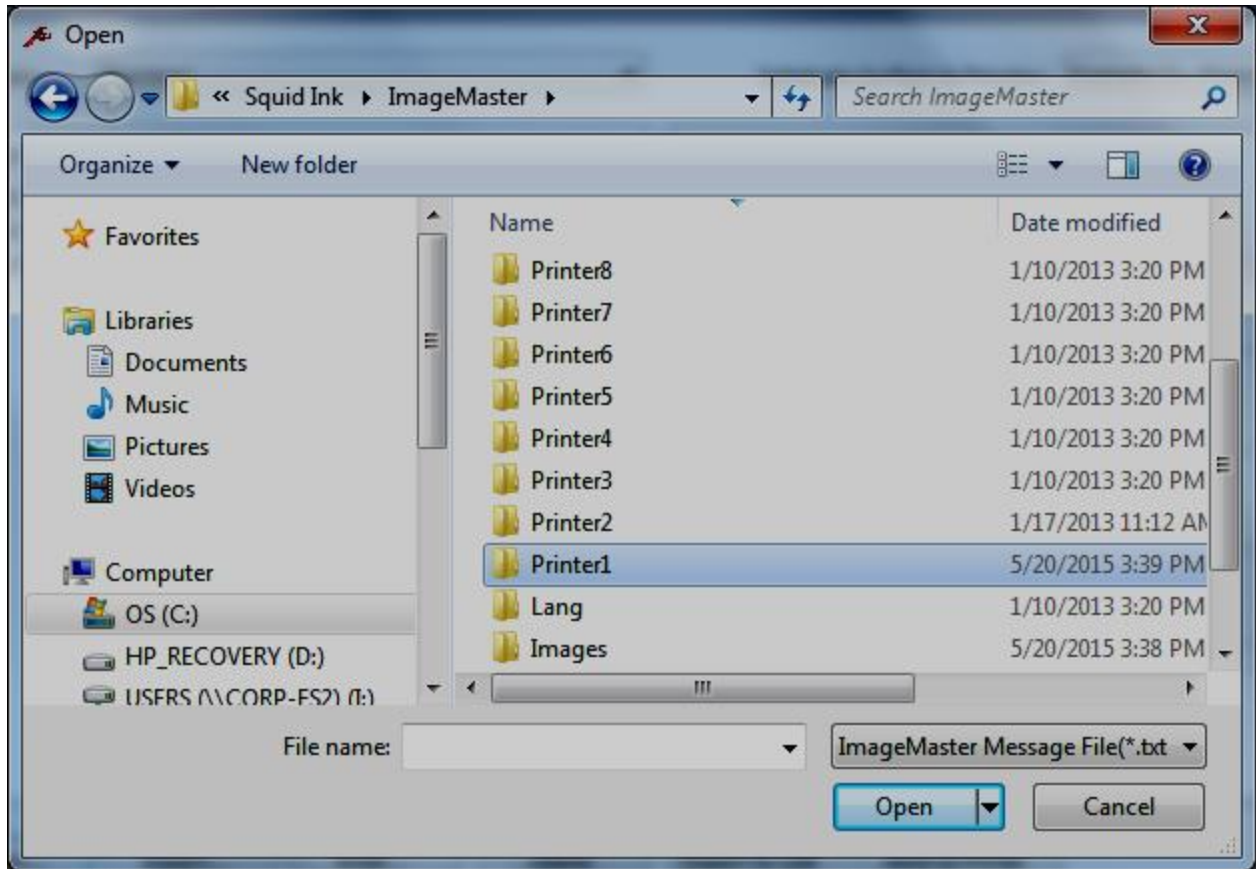
Message Management Window

Import:

Select **I** to import an existing Orion (xxxx.orion) message or an existing ImageMaster (xxxx.txt PZ Pilot) file.

Note: Import will only support .txt files that were created in ImageMaster for the PZ Pilot/Pilot Plus printing system.

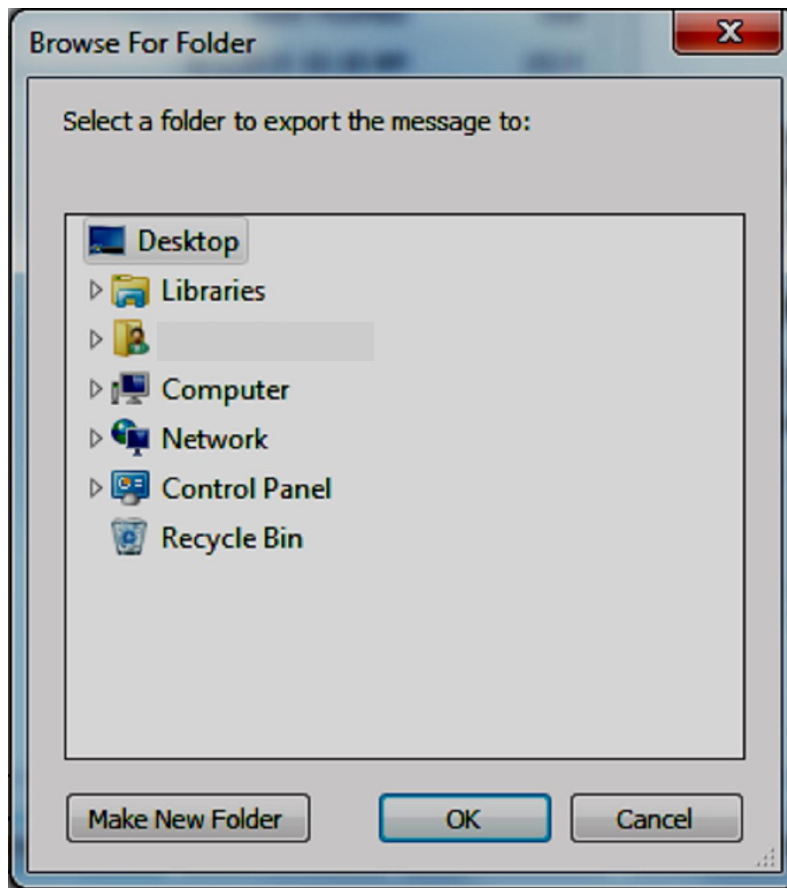
To import a message, navigate to the message you would like to import and select **O**.



Import Window

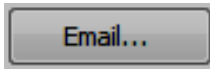
Export:

Select %Export+ to export the current message to a selected directory.



Browse for Folder Window

Email

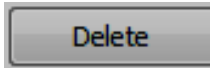


Use this to email the selected message.

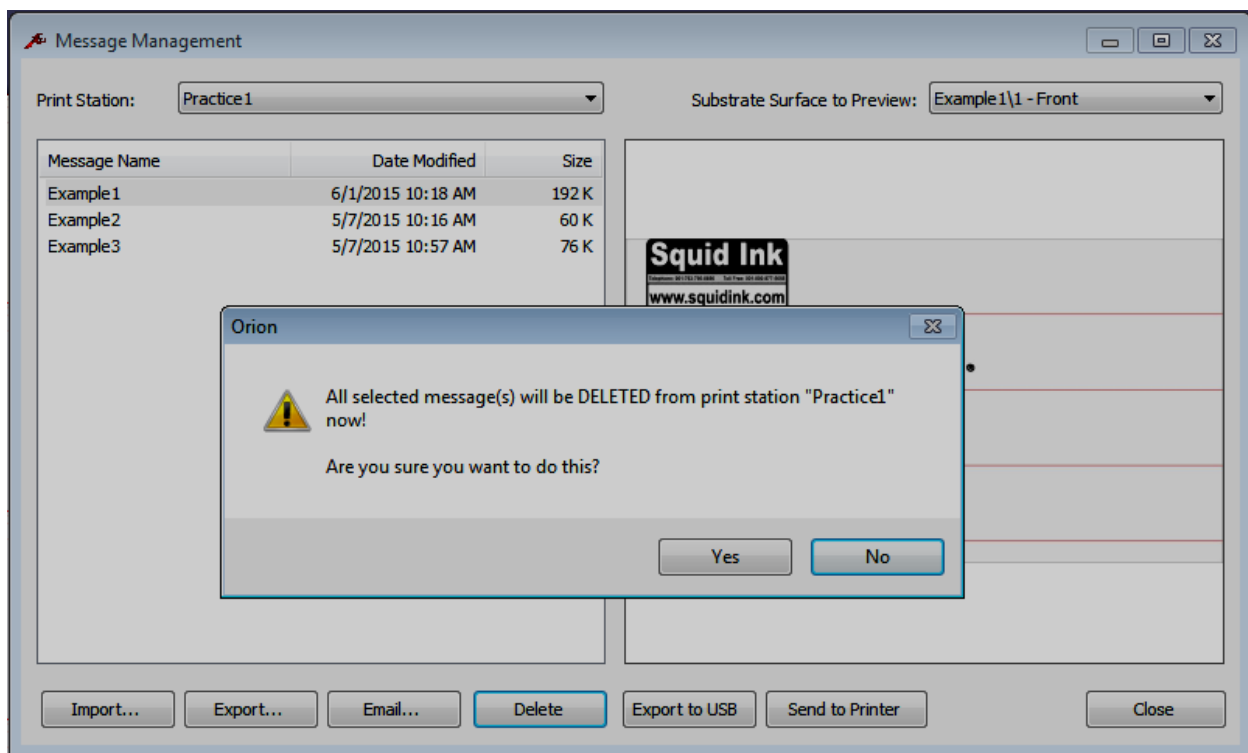
Tip!

Email is a good tool for transferring messages because it will attach all the related elements, text, graphics, etc. included in the message to the email.

Delete



Use this to delete selected messages. You will be asked to confirm that you wish to delete the selected Message(s).



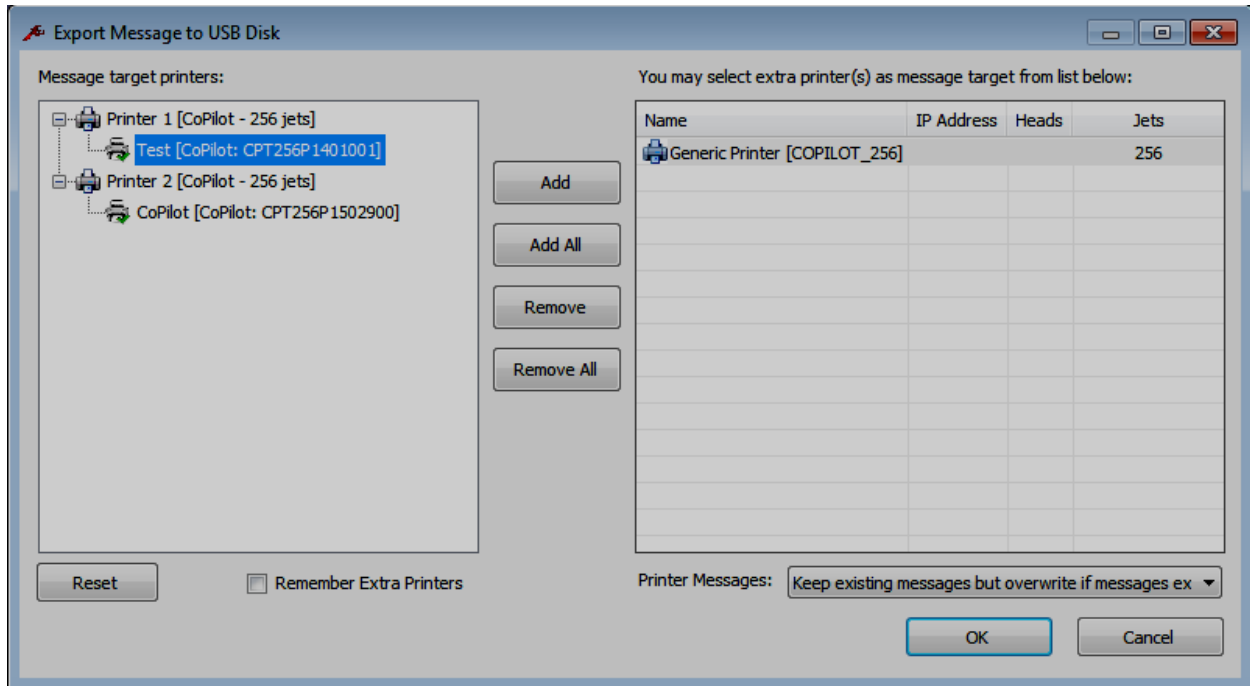
Select **Yes** and the selected messages will be deleted. Select **No** to close the delete window without deleting the selected messages.

Attention! The **Undo** button does not restore a deleted message. When the message is deleted it's gone.

Export to USB Disk

Export to USB

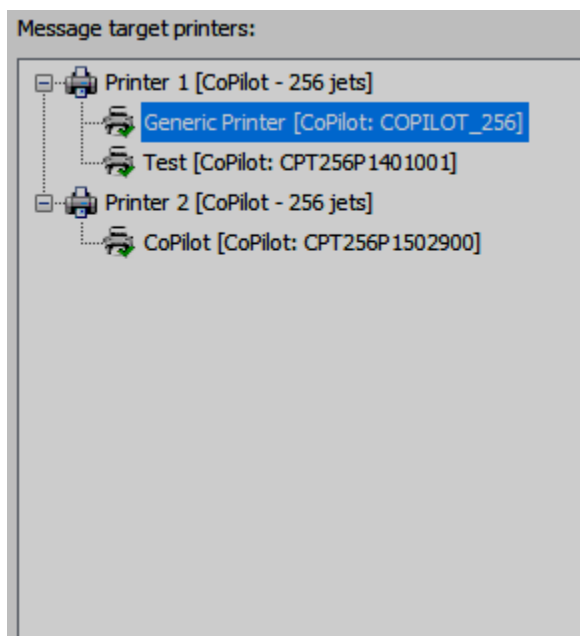
Export to USB Disk will save the current message on a removable USB disk.



Export to USB Disk Window

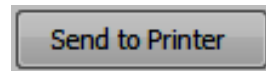
Export to USB Disk Generic Printer:

In the Export To USB Disk window there is an option to select Generic Printer at the top of the list of available printers.

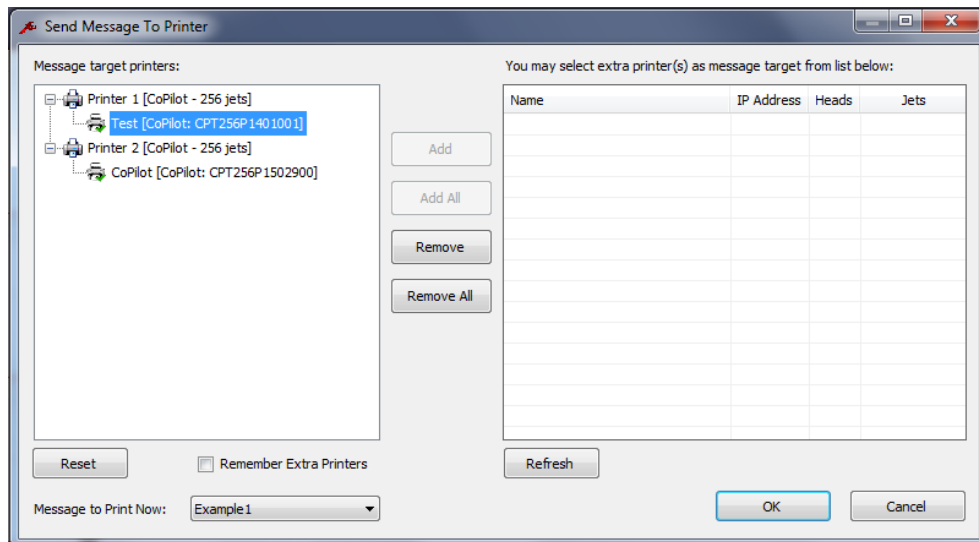


If Generic Printer is selected the message exported to the USB disk can then be walked around to any printer of the same type and loaded onto the printer. The message will not be tied to a specific printer ID. The Generic Printer option is available for JetLine and CoPilot printers.

Send to Printer

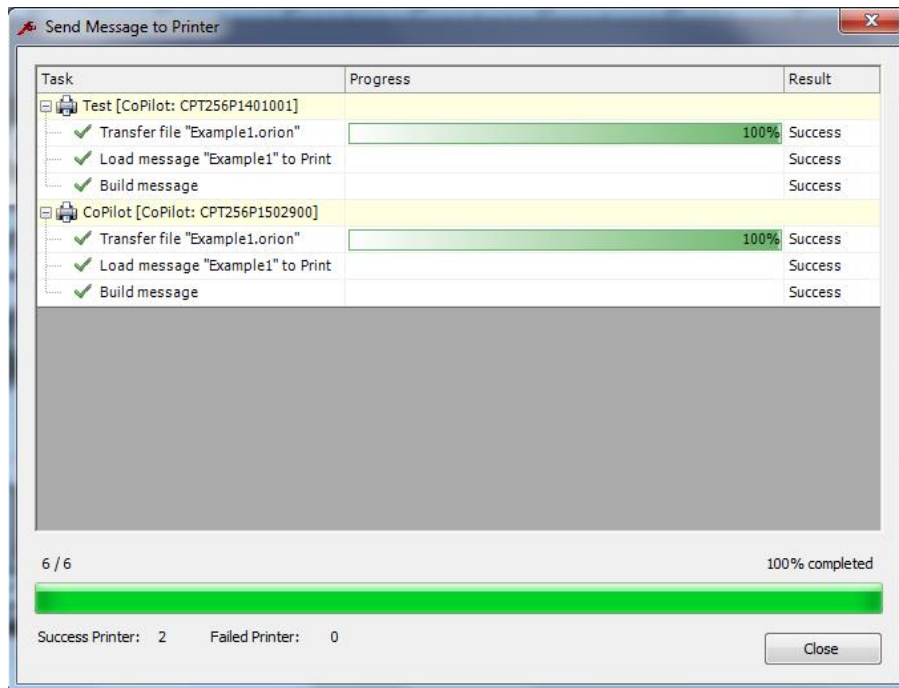


Send the open message to the printer. Selecting this icon will open the %Send Message to Printer+screen.



Send to Printer Window

Select the printer you wish to send the current message to and select %OK+. A progress screen will open.

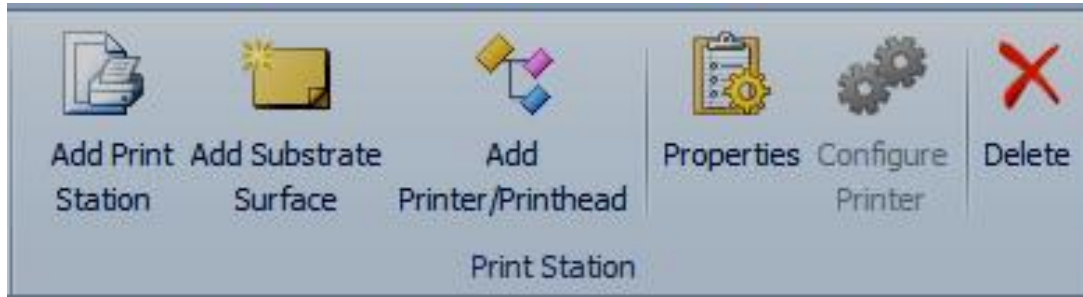


Message Transfer Progress Window

After the message has successfully transferred, select %Close+ to close the progress screen.

Home>Print Station Group

The Print Station group contains functions for managing print stations and configuring printers that are assigned to the selected print station. A print station is not a printer. The print station is the location where printing will occur. Printers are added to print stations.

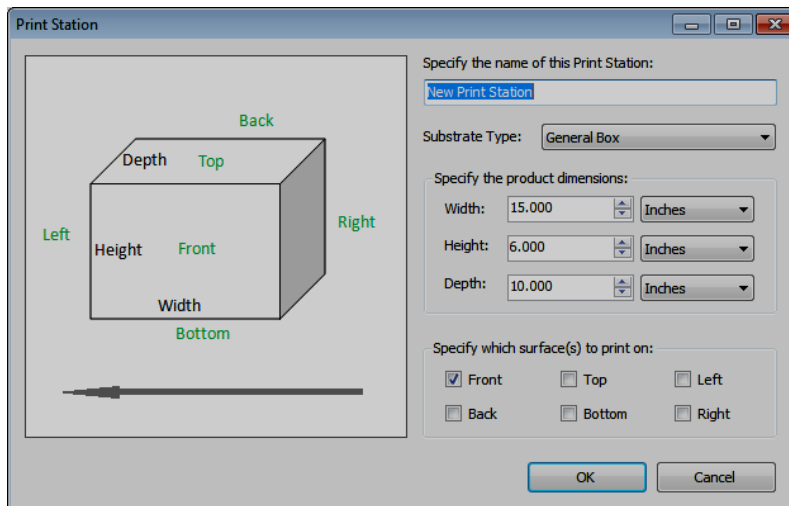


Add Print Station



To add a print station, click the **Add a Print Station** icon from the top menu bar.

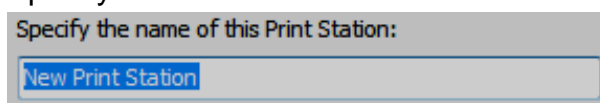
The **Add Print Station** dialog box will open.



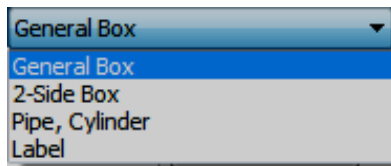
In the print station dialog box you can:

- Give the print station a unique name.
- Specify the substrate type.
- Define the product dimensions.
- Specify the surface(s) to be printed on.

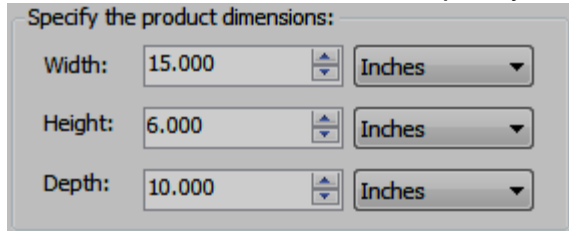
Specify the name of this Print Station:



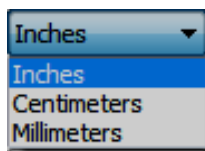
Use this box to give the print station a unique name.

Substrate Type:

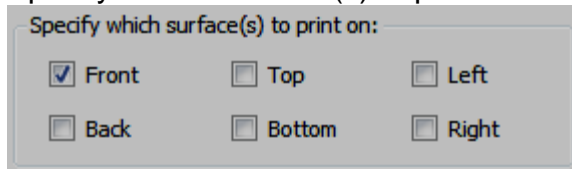
Use the drop down menu next to %Substrate Type+ to select the type of substrate you will be printing on.

Specify the product dimensions:

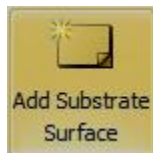
Define the size of the product that will be printed on. The number of options will change according to the substrate type. For example a label will have no depth value.



Dimensions can be in Inches, centimeters or millimeters. Use the drop down arrow to select the desired unit of measurement.

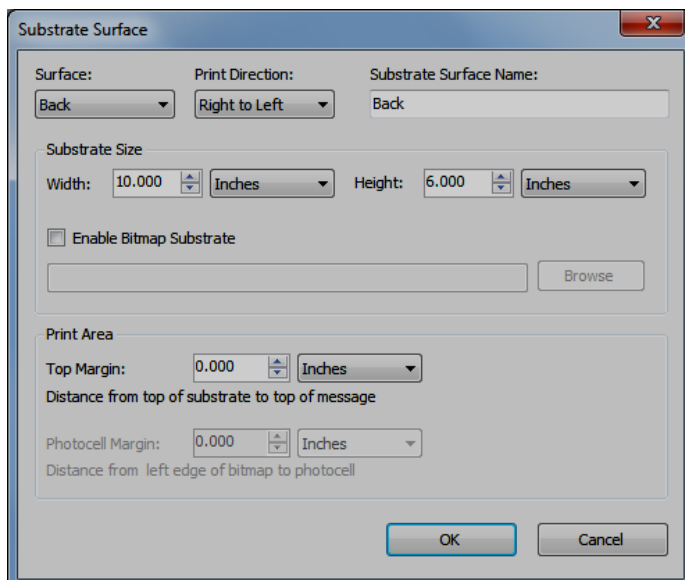
Specify which surface(s) to print on:

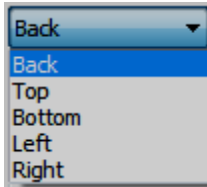
Check the box next to the surface to be printed on. The number of options will change according to the substrate type. For example a 2 side box will only have two surfaces, a front and back.

Add a Substrate Surface

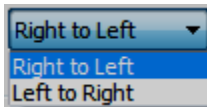
Mouse click the %Add Substrate Surface+ icon to add a printing surface to the print station.

The %Substrate Surface+ window will open.



Surface:

Use the drop down arrow under %Surface+ to select an already named surface to add to the print station.

Print Direction:

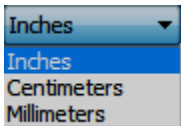
Use the drop down arrow under %Print Direction+ to select the direction the surface will be traveling in.

Substrate Surface Name:

Here you can enter a unique name for the surface to be added to the print station.

Substrate Size:

Width: Height:

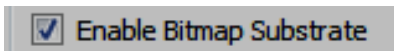


Enter the width and height for the printing surface here. Size units can be inches, centimeters or millimeters. Use the drop down arrow to select the desired unit of measurement.

Enable Bitmap Substrate

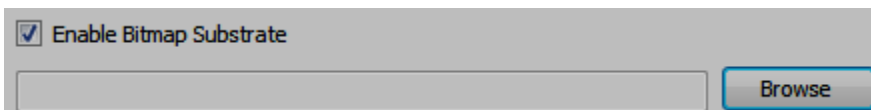
Using a bitmap image as the substrate is useful if there is an existing piece of artwork or graphic that you would like to represent the printing surface on the Orion[®] message creation screen. The bitmap image used as a substrate does not print.

To use a bitmap image to represent the printing surface:

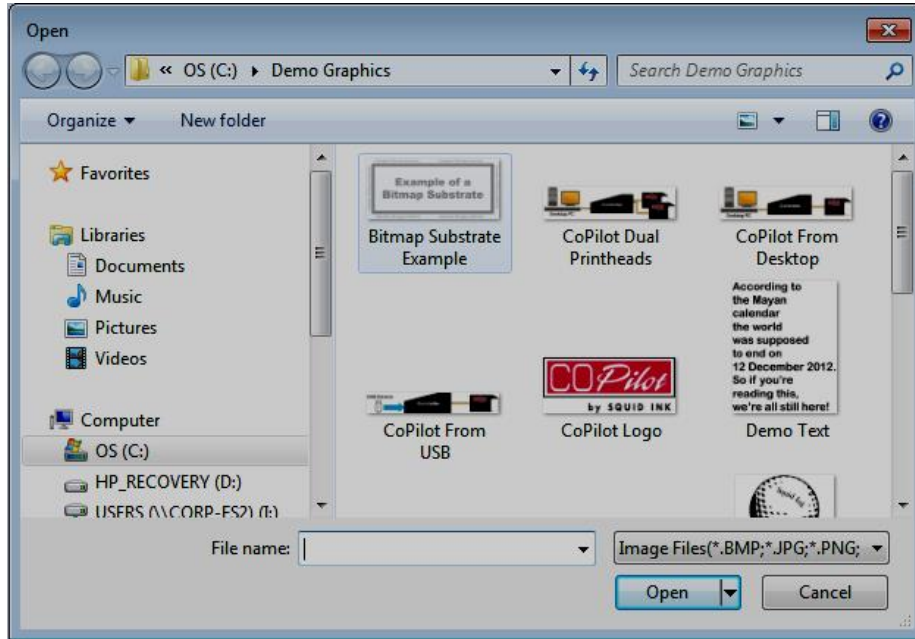


Check the %Enable Bitmap Substrate+box.

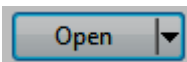
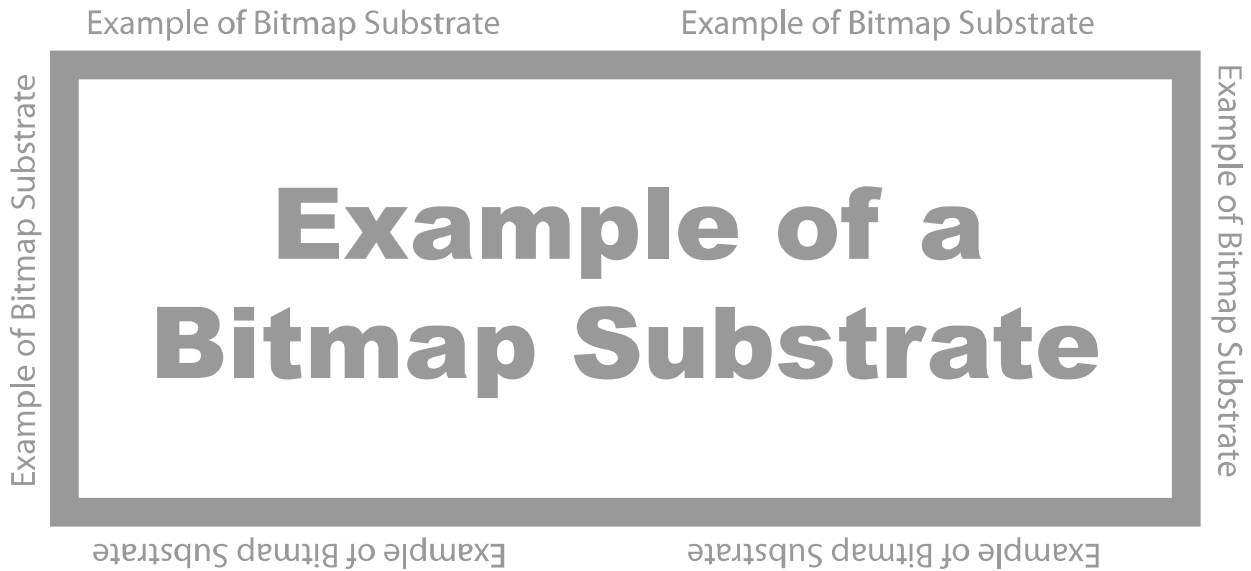
Mouse-click the %Browse+button.



When the browse window opens, navigate to the graphic location and select the desired image.

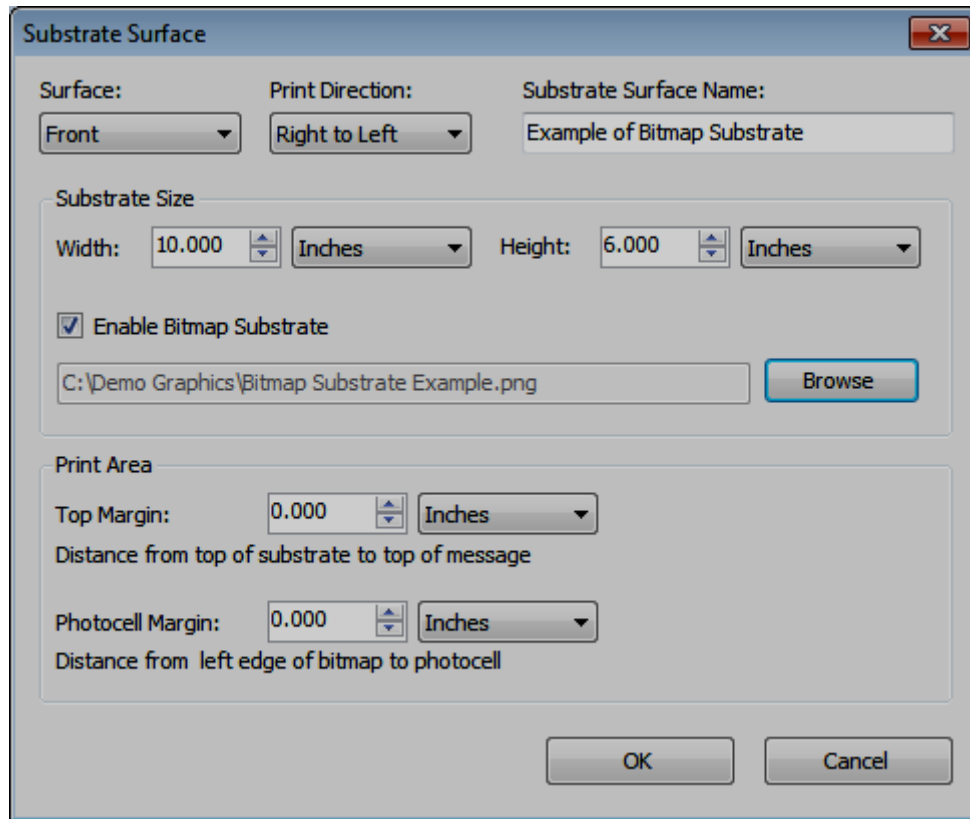


In this example I'm going to use this image for the bitmap substrate.

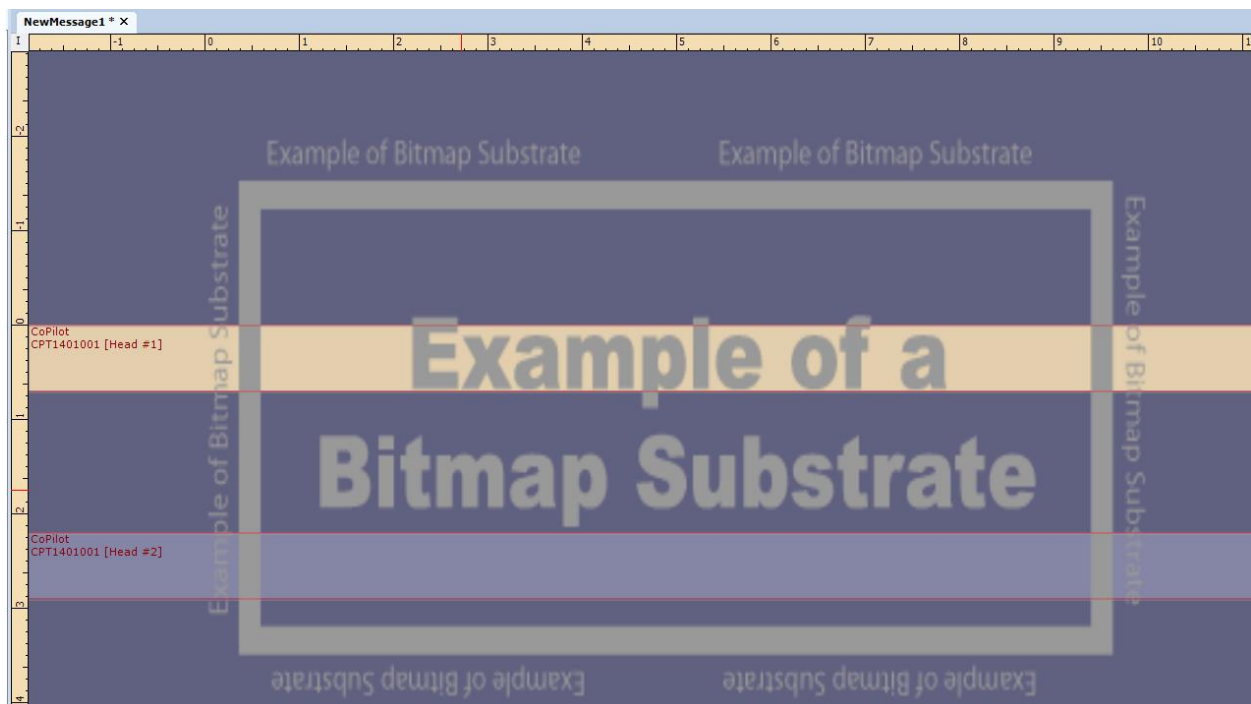


With the desired bitmap selected mouse-click on %Open+.

Select **OK** in the **Substrate Surface** window.

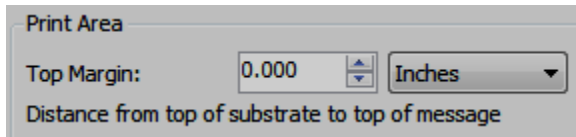


The selected bitmap image will now display as a substrate surface.



Example of a Bitmap Image Displayed as a Substrate

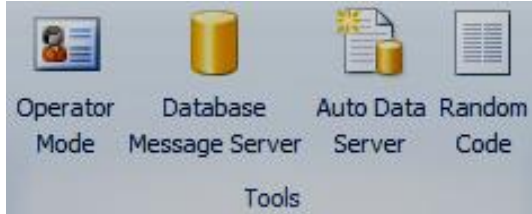
Print Area



The **Top Margin** displays the distance from the top edge of the substrate to the top of the message. It is how the printhead position is shown on the Orion message creation

screen. It is a visual aid to help in placing elements in the message. To set the top margin, enter the distance in the **Top Margin** box.

Home>Tools Group



Below is a general description of the tools found in the **Tools Group** under the **Home** tab. For more information on these tools see the specific section in this manual relating to the specific function.

Operator Mode:

Orion has the capability of entering a mode in which the user is locked out of most program functions except selecting message files, transferring them to the printer and some settings functions called the **Operator Mode**. This prevents unauthorized personnel from editing message information in error or creating undesirable messages. See the **Operator Mode** section in this manual for instructions on using Orion in the Operator Mode.

Database Message Server:

The Database Message Server is an Orion message creation function that is used to create dynamic messages from a template and sent to the printer(s). The message is populated with data retrieved from a predefined database table. See the **Database Message Server** section in this manual for using information from a database file when creating messages.

Note: The Database Message Server option is only available in the Orion Tier Three License Level.

Auto Data Server:

An Auto Data Template message contains at least one Text, Barcode and/or Graphic element that is configured to accept Auto Data. When the message is initially loaded, the **Default Data** you enter for Text and Barcode elements or the graphic you use for Graphic elements will be printed as a placeholder. Once the printer receives an Auto Data record, it will rebuild the message, placing the various fields into their associated elements. See the **Auto Data Server** section in this manual for creating messages using Auto Data.

Note: The Auto Data Server function is only available in the Orion Tier Three License level.

Random Code:

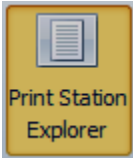
Random Code will create a batch of random codes and save it to a text file for printing. See the **Generating Random Code Files** section in this manual for instructions on creating random character codes.

View

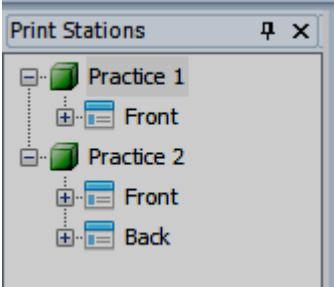
The %View+tab will open windows and provide functions for navigation and displays.



View>Print Station Explorer



Clicking the %Print Station Explorer+Icon will toggle the print station explorer panel.

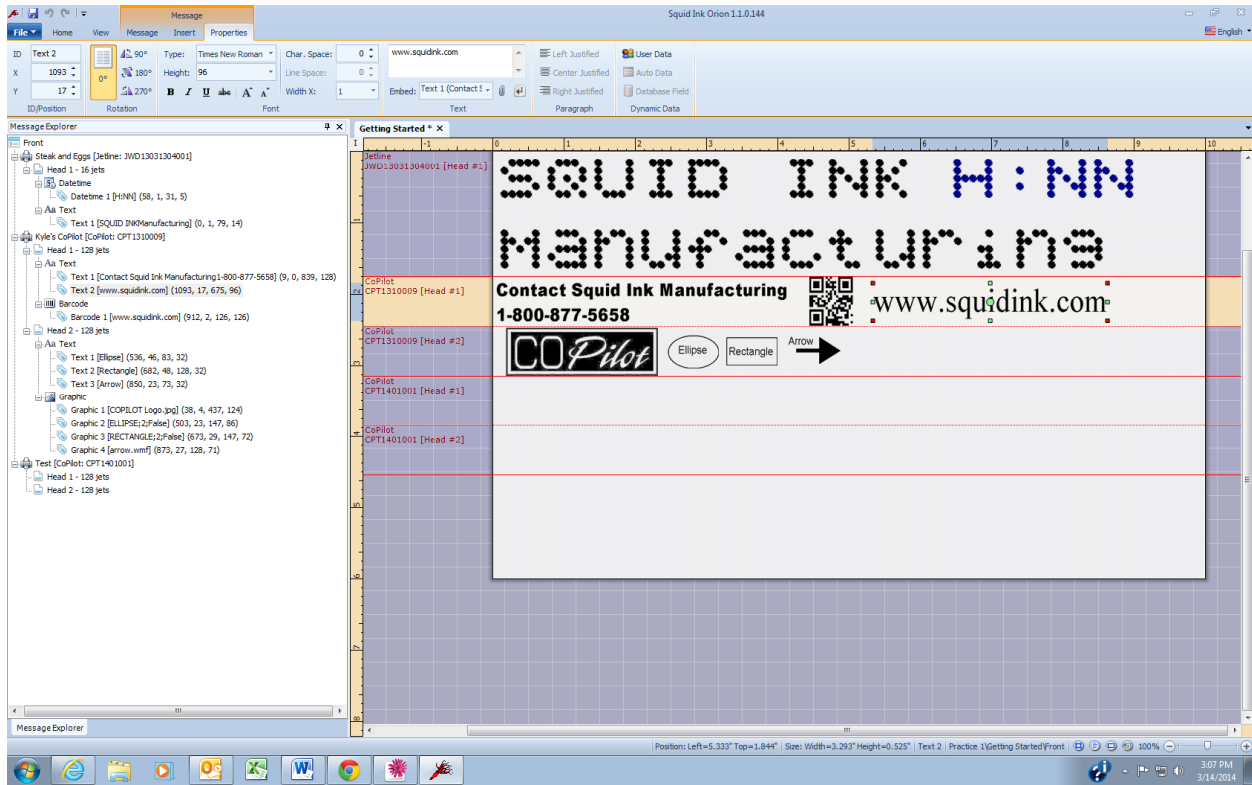


The print station explorer panel will display a list of all print stations we have defined on the left side of the Orion workspace.

View>Message Explorer



Clicking the **M**essage Explorer+ Icon will toggle the message explorer panel. The **M**essage Explorer+panel will display a list of all the elements contained in the current message defined in print station structure



Message Explorer Panel for Current Message

View>Printer Connections



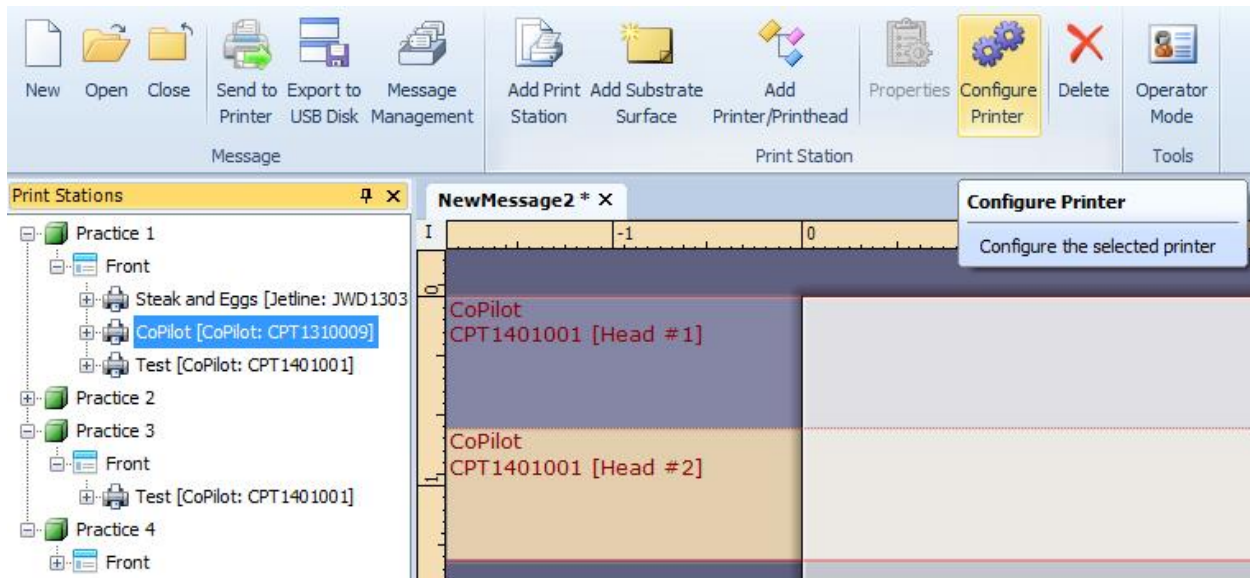
Mouse clicking the **P**rinter Connections+ will toggle the **P**rinter Connection Status+ panel along the bottom of the message display. The Printer Status Connection panel will display a list of printers registered in Orion.

* Name	Type	Serial #	IP Address	Head Type	Heads	Jets	Prod. Counter	Ink Level	Last Connected
Test	CoPilot	CPT256P1401001	10.10.10.158	256-jet Passive	2	256			2015/10/01 14:02:33
CoPilot	CoPilot	CPT256P1502900	10.10.10.159	256-jet Passive	2	256			2015/06/25 14:47:35
CoPilot	CoPilot	CPT256P1411006		256-jet Passive	2	256			2015/06/25 14:47:35
Jetline7	Jetline	JWB14021403004	10.10.10.111	7-jet 3/4"	1	7			2015/06/25 14:47:35
Jetline	Jetline	JWC14101505007	10.10.10.85	16-jet 1"	1	16			2015/10/01 14:02:33

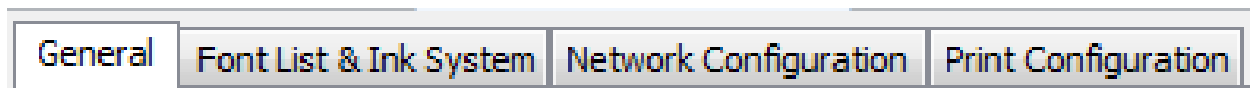
Printer Connection Status Panel

Printer Configuration Tab

Double mouse clicking on a printer in the Printer Connection Status panel will open the Printer Configuration window for that printer in the Orion workspace. You can also open the configuration window for a selected printer by selecting the **Printer Configuration** icon for a highlighted printer in the print station explorer list.



In this Printer Configuration window you can view or change settings for a printer. There are four tabs along the top of the Printer Configuration window.




- General
- Font List & Ink System
- Network Configuration
- Print Configuration

General

General | Font List & Ink System | Network Configuration | Print Configuration

System Information



Printer type: Copilot
 Serial number: CPT1401001
 Firmware version: 2.3.16
 The firmware is up to date
 Software version: 2.0.49
 The software is up to date

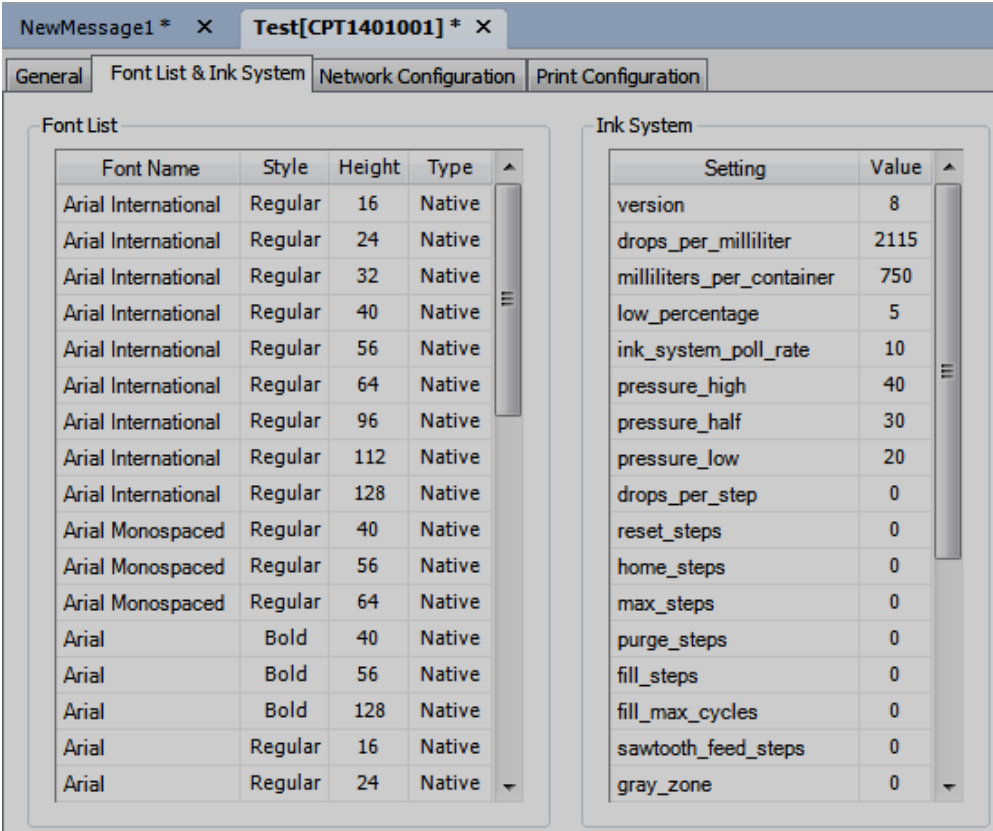
Install the latest version

Supported Features

Setting	Value
Number of printheads allowed	2
Printhead type	CoPilot
Security	Disabled
User Data prompts	Disabled
Maximum substrate width (columns)	24000
Maximum characters allowed in file names	32
Maximum number of Text elements	100
Maximum number of Counter elements	16
Maximum number of Date/Time elements	16
Maximum number of Shift elements	16
Maximum number of Barcode elements	16
Maximum number of Graphic elements	16

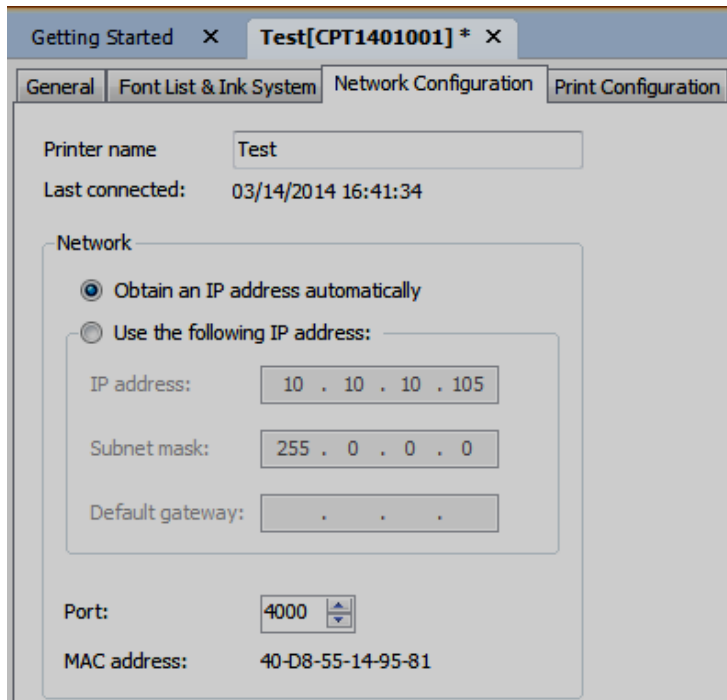
The **General** Tab will display information about the selected printing system. When a printer is connected, if there are firmware, software or any other updates available for the printer the **Install the latest version** will become active.

Font List & Ink System



The Font List & Ink System window will display a list of the available or supported fonts and information pertaining to the ink system.

Network Configuration



The screenshot shows a window titled 'Test[CPT1401001] * x' with a tabbed interface. The 'Network Configuration' tab is active. The window displays the following information:

- Printer name: Test
- Last connected: 03/14/2014 16:41:34
- Network configuration options:
 - Obtain an IP address automatically
 - Use the following IP address:
 - IP address: 10 . 10 . 10 . 105
 - Subnet mask: 255 . 0 . 0 . 0
 - Default gateway: . . .
- Port: 4000 (dropdown menu)
- MAC address: 40-D8-55-14-95-81

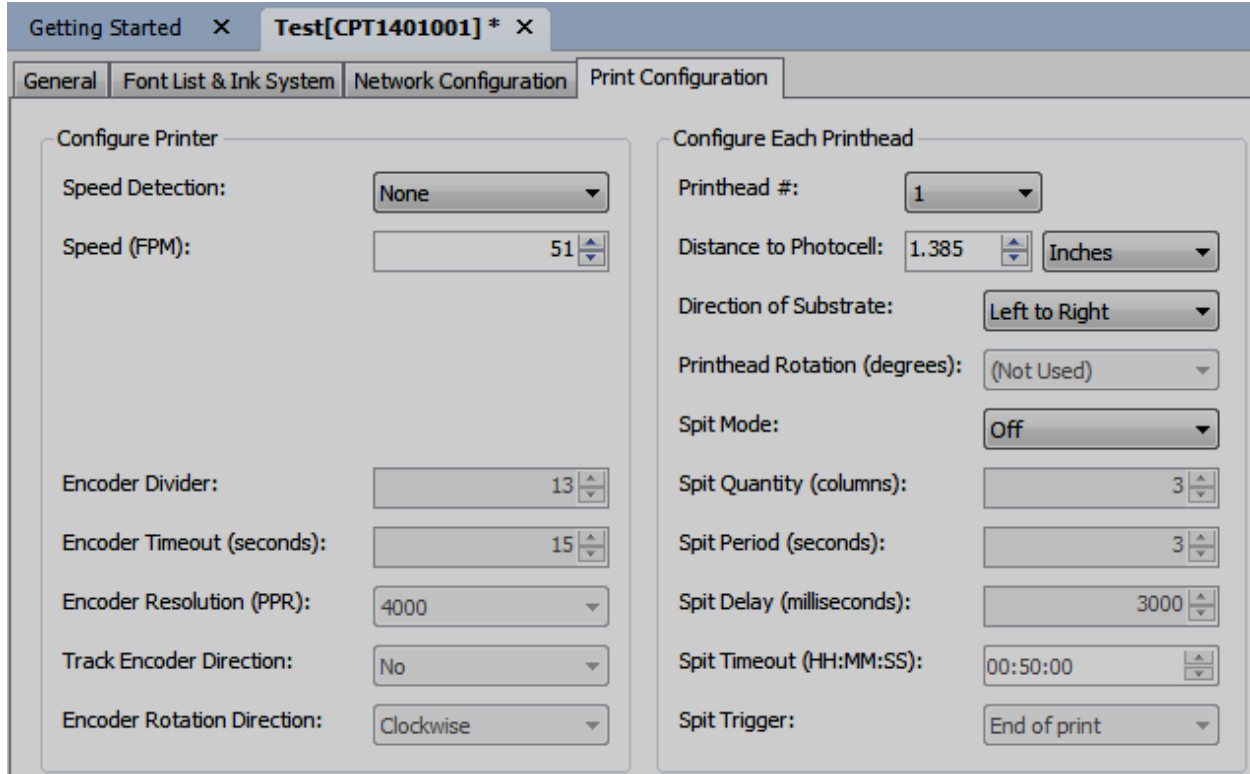
The Network Configuration window will show the current network configuration and allow changes.

Generally the printer will be set to Obtain an IP address automatically.

Select the Use the following IP address: radio button to manually select an IP address.

Attention! Should you decide to manually input the IP address be sure to work hand in hand with the IT or System Administrator at your facility to avoid conflicting with existing devices that may be using the same address.

Print Configuration

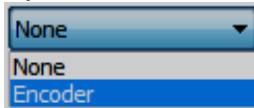


The **Print Configuration** Tab consists of two sections, the **Configure Printer** group and the **Configure Each Printhead** group.

The **Configure Printer** group contains global settings for the selected printing system.

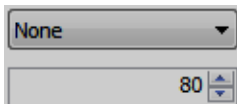
The **Configure Each Printhead** group contains settings for each individual printhead.

Speed Detection:



Use the drop down menu next to **Speed Detection** to select **None** or **Encoder**. Select **None** if you are going to input the line speed manually. Select **Encoder** if you will be using an encoder to detect line speed.

Speed (FPM):



Use the up and down arrows next to **Speed (FPM)** to manually set the line speed. When manually inputting line speed be sure **Speed Detection** is set to **None**. Line speed is measured in Feet per Minute.

Encoder Divider:

The encoder divider is currently set by the factory at 13. The encoder divider is not changeable.

Encoder Time Out (seconds):

The amount of time the encoder will remain idle and stop trying to send a signal. Use the up and down arrow buttons to increase or decrease the value.

Encoder Resolution (PPR):

Encoder Resolution has been set at the factory to correspond to the optional encoder that if ordered was shipped with the printer. The Encoder Resolution cannot be changed.

Track Encoder Direction:

Track Encoder Direction is set to No and cannot be changed.

Encoder Rotation Direction:

Only Clockwise is available. The rotation direction cannot be changed.

Printhead #:

Use the down arrow button to select which printhead to apply the configuration. Select printhead one or two.

Distance to Photocell:

The Distance to Photocell is the distance between the photocell and the printhead. Increase or decrease the distance to photocell by using the up and down arrows next to the distance to photocell box. Or, simply enter the desired distance in the box.

Distance to photocell can be in inches, centimeters or millimeters. Use the drop down menu to select the desired unit.

Direction of Substrate:

The direction of substrate can be Left to Right or Right to Left. Use the drop down arrow to select the desired direction.

Note:

Substrate direction is considered when viewed from behind the printhead.

Printhead Rotation (degrees):

The Printhead Rotation function has been disabled in the Orion Software Package.

Spit Mode:

- Off
- Column
- Ghost Spit
- Ghost All

When turned on the printhead will spit a small quantity of ink at pre-determined intervals. The spit function is useful when printing with fast drying solvent based inks to keep the ink from drying and clogging in the ink nozzles.

There are four spit modes. OFF, COLUMN, GHOST ALL and GHOST.

OFF Turns the spit mode off. The printer will not spit when %OFF+ is selected. When printing with oil based ink the spit should always be set to %OFF+.

COLUMN Will spit a column of ink the entire height of the printhead at selected time periods.

GHOST Will spit a small amount of ink through the nozzles that are not being used during printing. GHOST is useful if a long message only uses some of the nozzles in the printhead.

GHOST ALL Will spit a small amount of ink through all the printhead nozzles all the time even during printing. GHOST ALL is useful when printing with very fast drying inks.

Spit Quantity (columns):

Defines the quantity of the spit mode by selecting the number of columns the printhead will spit each time. Use the up and down arrows to select a value or type in the desired number.

Spit Period (seconds):

The %Spit Period+ in Seconds is the time between spits. Use the up and down arrows to select a value or enter the desired value.

Spit Delay (milliseconds):

The %Spit Delay+ is the time in milliseconds between when the message stops printing and the spit will begin.

Time Out (HH:MM:SS):

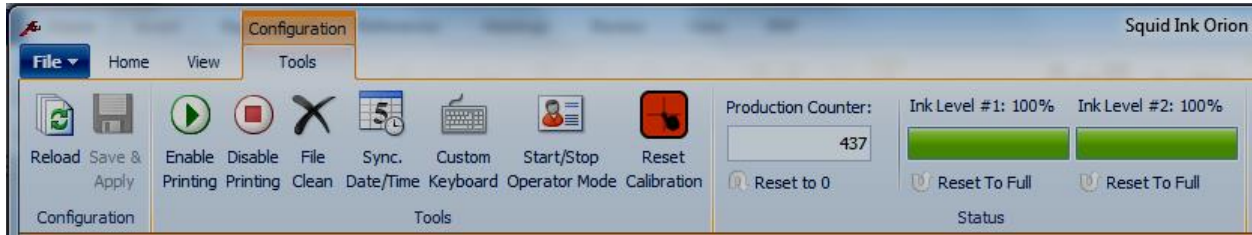
The %Spit Timeout+ is when the printer will quit spitting. This is important if the printer is going to be abandoned for a period of time such as overnight or long break.

Spit Trigger:

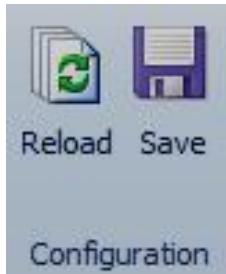
The %Spit Trigger is not changeable. The spit trigger will always be the end of printing the current message.

Printer Configuration>Tools Tab

When the printer configuration window is open there is a Tools Tab present. Residing in the Tools Tab is a ribbon of tools that contain several important printer and printhead functions.



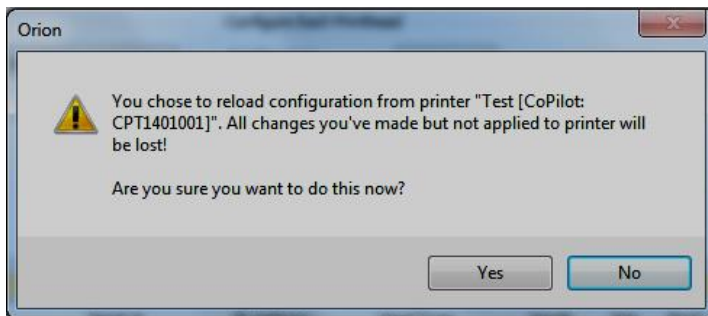
Configuration Group



Reload:



Reload the print configuration from the selected printer.



When reload is selected a window will open asking if you really want to reload the print configuration from the printer. Select **Yes** to reload the configuration from the selected printer.

Save & Apply the Configuration:



Select this icon to save and apply the configuration changes for the selected printer in Orion.

Tools Group



Start Printing:



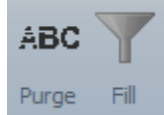
Use to tell the printer to start printing.

Stop Printing:



Use to tell the printer to stop printing.

Purge and Fill:

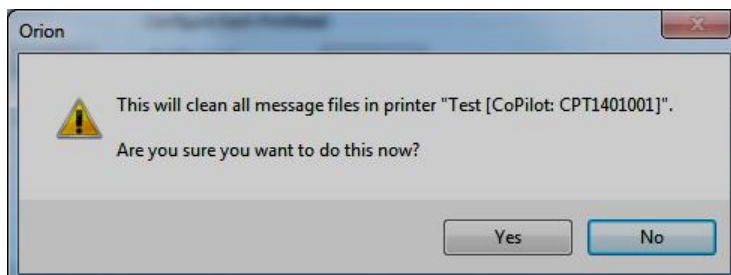


Purging and filling is done at the printer. The Purge and Fill functions are not available at the desktop. They are represented in Orion to accommodate future expansion.

File Clean:



Selecting %File Clean+ will delete all the message files residing in the selected printer.



When %File Clean+ is selected you will be advised that all the message files residing on the selected printer will be deleted. Select %Yes+ to clean all the message files from the printer.

Note:

+File Clean+ will only remove message files from the selected printer. It does not delete files from the desktop or other printers that may be in the same print station or on the same network.

Custom Keyboard:



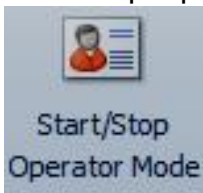
Use to customize a printer's on screen keyboard to input User Data. See the "**User Data > Custom Keyboards**" section of this manual to see instructions for creating a custom keyboard.

Sync. Date/Time



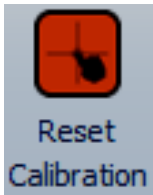
Synchronize printer Date/Time to system current date/time.

Start/Stop Operator Mode:



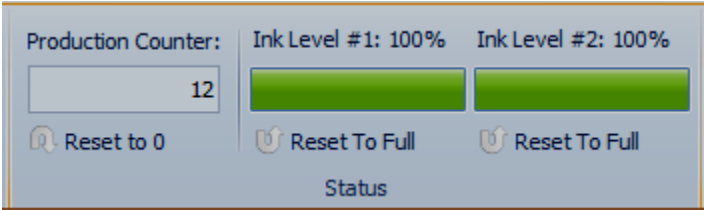
Start or Stop Operator mode of the printer controller.

Reset Calibration:

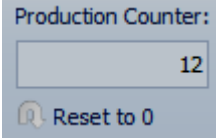


This button is used to calibrate the touch screen on the CoPilot or JetLine Controller. The graphics on the controller touch screen normally won't be out of sync with the corresponding functions however if you are having problems selecting icons recalibrating the touch screen may help

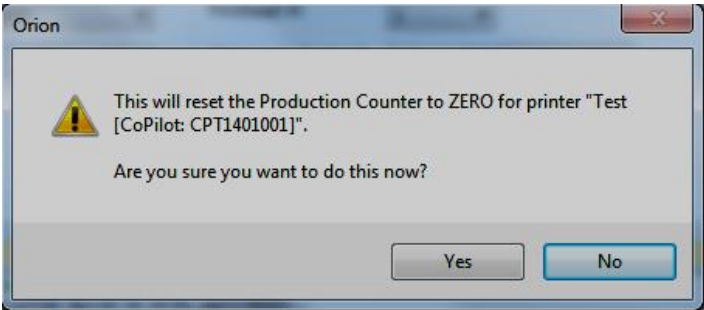
Status Group



Production Counter:



The production counter will show the current number of prints. Selecting **Reset to 0** will reset the production counter to zero.



When **Reset to 0** is selected you will be advised the printer counter will reset. Select **Yes** to reset the production counter to zero.

Message Tabs

Message contextual tabs will appear when there's a message open in the Orion workspace and currently selected. This contextual tab contains three sub tabs. The **Message+** tab is used for managing the current message such as saving and sending the message to the printers. It also contains functions to manipulate multiple selected elements.

The **Insert+** tab is used to insert elements such as text, barcodes, and graphics into the message.

If an element in the current message is selected the **Properties+** contextual tab will display. In the properties ribbon you can view and modify properties for the single selected element.

Message



Message Tab>New



New+ will open a new message creation window.

Message Tab>Open



Open+ is for opening an existing message that has been created in Orion.

Message Tab>Save

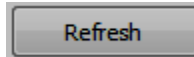


Select **S**ave+ to save changes to the current message.

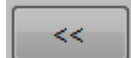
The **Send Message To Printer** window will list all the printers assigned to the message being sent on the left. On the right side of the window additional connected printers are listed.



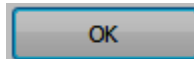
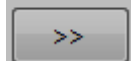
The **Reset** button will reset printers assigned as target printers to the message pre assigned printers.



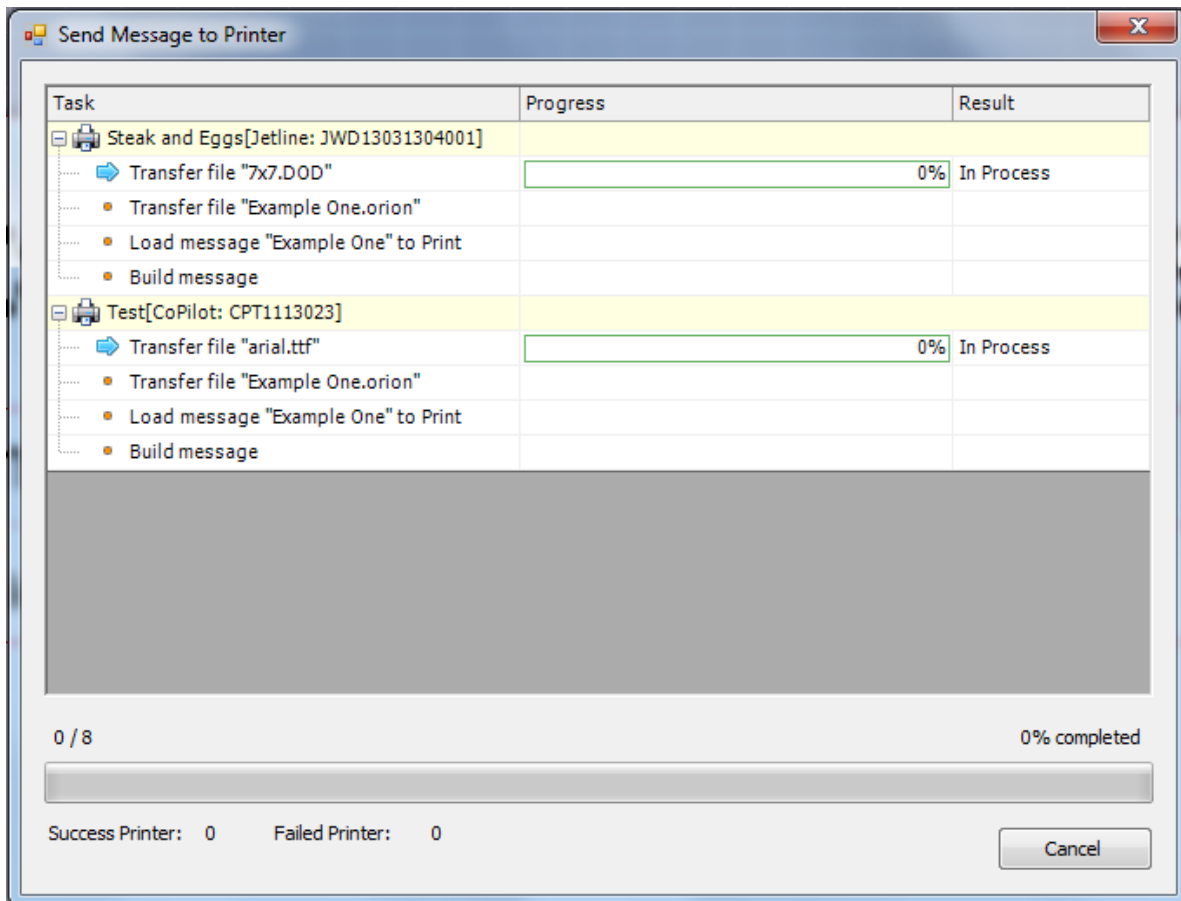
The **Refresh** button will update the list of connected printers available to add to the message target.



The direction buttons will move printers back and forth to the target list. Double clicking on a listed printer will also move the selected printer(s) to or from the Target printer list.

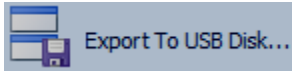


Click the **OK** button to send the current message to the target printers.



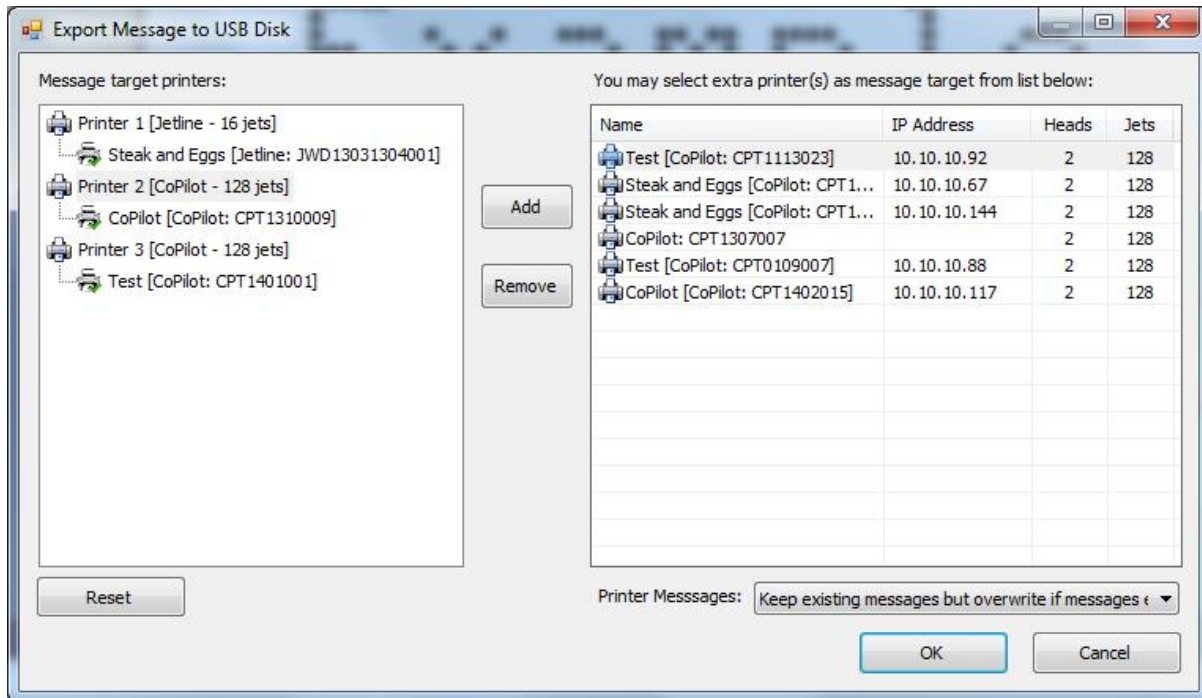
If you have made changes to the current message you will be asked if you want to save before sending the message to the assigned printers.

Message Tab>Export To USB Disk

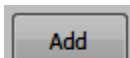


The **Export To USB Disk** button will save the current message on a removable USB disk.

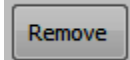
Export To USB Disk Window



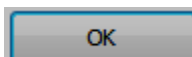
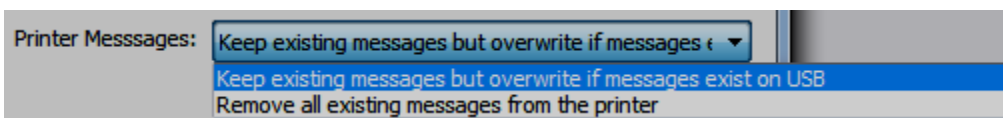
The **Reset** button will reset printers assigned as target printers to the message pre assigned printers.



The **Add** and **Remove** buttons will move printers back and forth to the target list. Double clicking on a listed printer will also move the selected printer(s) to or from the Target printer list.



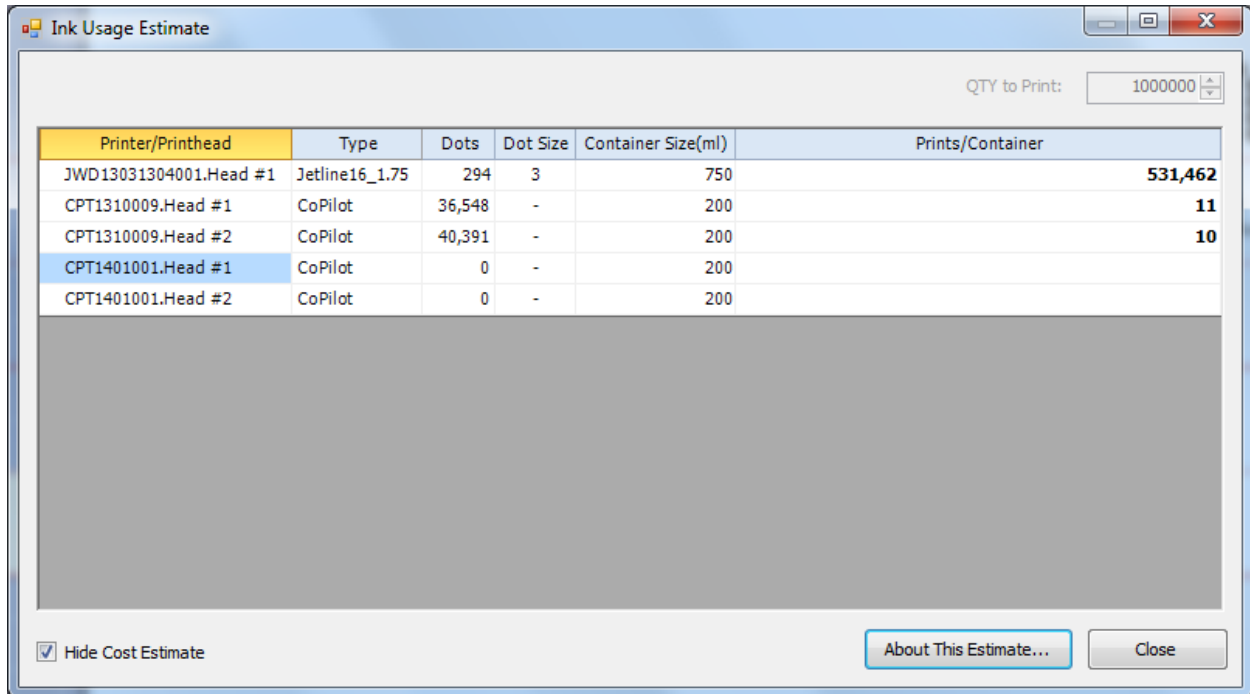
The **Printer Messages:** button will offer options for dealing existing messages. Use the drop down arrow and select the desired option.



Select the **OK** button to send the current message to the USB DSK.

Message Tab>Ink Usage

Clicking the Ink Usage+ icon will open a display that will estimate the number of prints you may expect from an ink can or cartridge.



The ink usage is shown as the maximum number of prints you may expect to get if 100% of the ink in the can or cartridge is used for printing. The message as it looks on screen at the time of ink usage request is the image used for calculation. Factors such as spitting and/or priming will reduce the number of prints to some degree. Also, any variable data, AutoData, or user data that will print significantly different length text strings will affect the calculation accordingly.

Message Tab>Clipboard Group



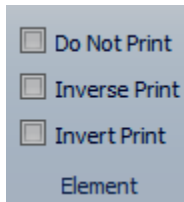
This group contains tools for undoing and redoing changes, as well as Cut+, Copy+, and Delete+.

Message Tab>Arrange Group



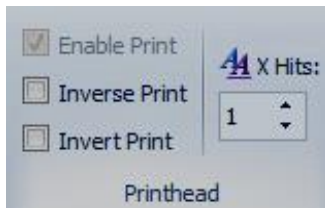
This group contains tools for aligning, automatically spacing and locking elements.

Message Tab>Element Group

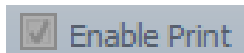


This group contains options for hiding an element so that it does not get printed, inverting the element (background is printed instead of the element) and inverting the element (turning it upside down). These options only affect the selected element(s). Check the appropriate box to apply the action to the selected element(s).

Message Tab>Printhead Group



This group contains **printhead**-level tools such as inverting and inverting the entire currently selected printhead in the message.



Enable or disable print of the selected printhead. Currently **Enable** is always selected and cannot be unchecked.



Inverse Print will print the highlighted printhead's background instead of the content.



Print content of the highlighted printhead will print upside down (flip vertically).



The number of times each column of data will be repeated making the print that much wider (or bolder). Use the up and down arrows to increase or decrease the number of hits or enter the desired value in the Hits box.

Message Tab>Printer Group



This group contains **printer**-level tools such as Pre Build, Repeat Print mode and if there is a database associated with the message.



Database Connection:

Use Database Connection if the message is populated with data retrieved from a predefined database table. See the %Database Server+section in this manual for instructions on including information received from a database in the message.

Database Field Preview:



Database field Preview will display the database table associated with the current message.

Database Field Preview						
« ◀ 1 / 24 ▶ » Close Preview						
	Aircraft Designation	Country of Origin	Primary Use	Crew	Engines	Images
▶	P-38 Lightning	United States	Fighter	1	2	P-38.bmp
	P-47 Thunderbolt	United States	Fighter	1	1	P-47.bmp
	P-51 Mustang	United States	Fighter	1	1	P-51.bmp
	BF 109	Germany	Fighter	1	1	BF-109.bmp
	FW 190	Germany	Fighter	1	1	FW-190.bmp
	JU 87D	Germany	Dive Bomber	2	1	JU-87D.bmp
	A6M5 Zero	Japan	Fighter	1	1	A6M5 Zero.bmp
	B5N2 Kate	Japan	Torpedo Bomber	3	1	B5N2 Kate.bmp
	Ju88	Germany	Multi Role Aircraft	4	2	JU88.bmp
	G4M Betty	Japan	Medium Bomber	7	2	G4M Betty.bmp
	B-17 Fortress	United States	Heavy Bomber	10	4	B-17.bmp
	Aichi D3A Val	Japan	Dive Bomber	2	1	D3A Val.bmp
	Lagg 5	Soviet Union	Fighter	1	1	Lagg 5.bmp
	HE 219	Germany	Night Fighter	2	2	HE 219.bmp
	IL-2 Sturmovik	Soviet Union	Ground Attack	2	1	IL-2.bmp
	JU 52	Germany	Transport	2	3	JU 52.bmp
	P-61 Black Widow	United States	Night Fighter	3	2	P-61.bmp
	ME 262	Germany	Fighter	1	2	ME 262.bmp
	Macchi C. 205 V...	Italy	Fighter	1	1	205 Veltro.bmp
	AT-6 Texan	United States	Training	2	1	AT-6.bmp
	SM 79 Sparviero	Italy	Meduim Bomber	3	3	SM 79.bmp
	Mig 3	Soviet Union	Fighter	1	1	Mig-3.bmp
	BF 110	Germany	Multi Role Aircraft	2	2	BF-110.bmp
	C-47	United States	Transport	2	2	C-47.bmp

Example of Database Field Preview

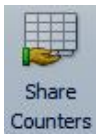
Share Counters:

Share the same set of counters between all the printheads. Any change taking place in the counter on one head will be reflected on the other head.

Share Counters is toggled off and on by selecting the Share Counters icon.



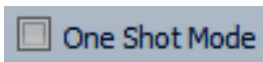
While the Share Counters icon is highlighted Share Counters is active.



When the Share Counters icon is not highlighted Share Counters is inactive.

Note:

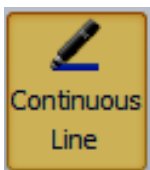
If there is an unequal number of counters on the printheads (for example three counters on printhead one and two counters on printhead two) only the lower number of counters will sync.

One Shot Mode:

One Shot Mode is an Auto Data function only. See the Auto Data section in this manual for instructions on selecting One Shot Mode.

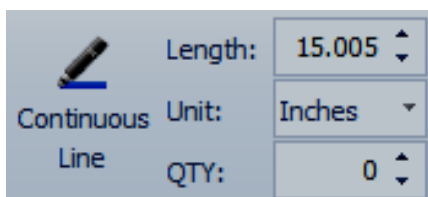
Repeat Mode:

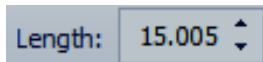
When a message is configured for Repeat Mode, it will be printed repeatedly as long as the trigger is active. Repeat Mode is often used when printing on long substrates and extruded material.



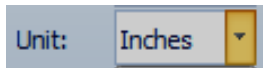
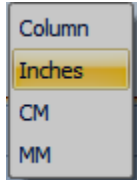
In Continuous Line Mode the printer will only build the message when the printer is triggered. This will eliminate any gap between repeats caused by the printer not being able to print while rebuilding the message. **Do not** use this mode if the message contains variable data and you want the data to update when repeating.

If not in Continuous Line Mode length, unit, and quantity options are available to define the repeat parameters.



A text input field with a light blue background. The label "Length:" is on the left. The value "15.005" is entered in the text box. To the right of the text box are two small vertical arrows, one pointing up and one pointing down, indicating a spinner control.

The Length specifies how often the message is repeated (based on the selected Unit). In order to print a continuous line, you have to set the Repeat Length to 1 column longer than the length of data being printed. This causes the printer to repeat as soon as it's finished the first print. Orion[®] simply sets the required values eliminating the need to figure out how long the message is and what the Length value should be.

A dropdown menu with a light blue background. The label "Unit:" is on the left. The text "Inches" is displayed in the dropdown box. A small downward-pointing arrow is on the right side of the dropdown box.A list of options for the unit dropdown menu. The options are "Column", "Inches", "CM", and "MM". "Inches" is highlighted with a yellow background.

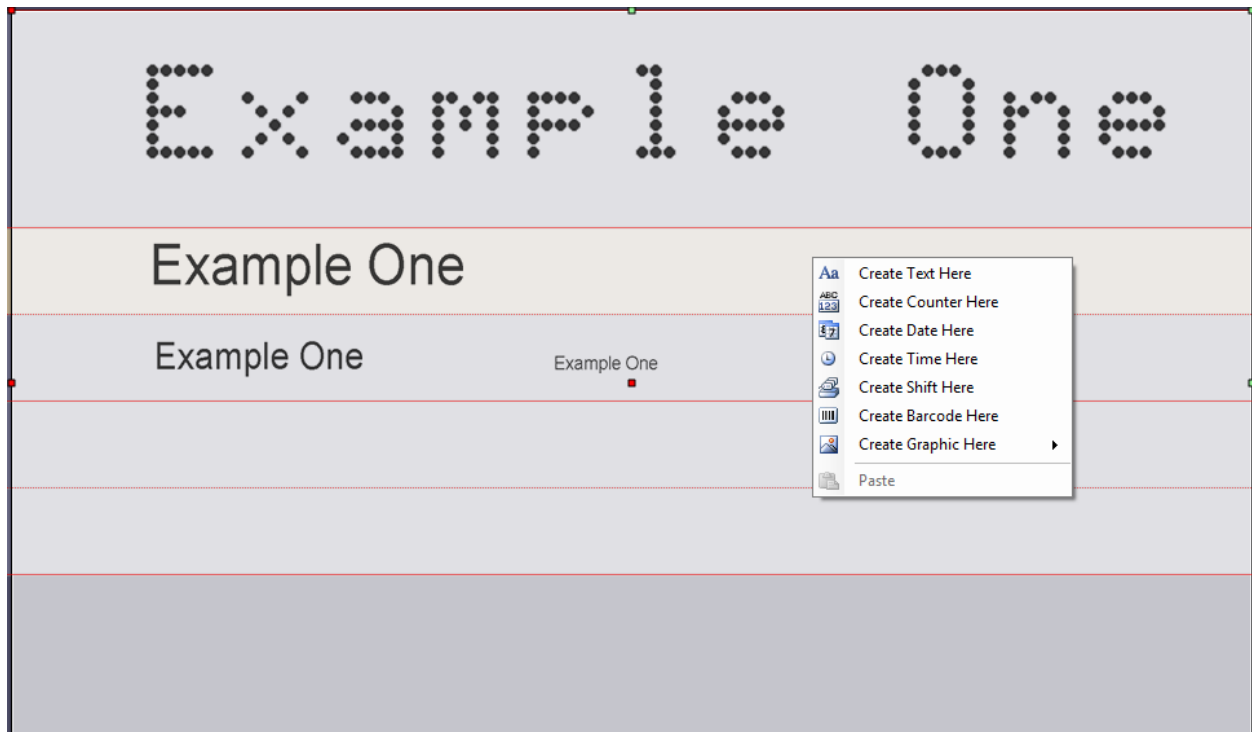
Use the drop down menu to select the desired unit for the repeat length.

A text input field with a light blue background. The label "QTY:" is on the left. The value "100" is entered in the text box. To the right of the text box are two small vertical arrows, one pointing up and one pointing down, indicating a spinner control.

The Quantity specifies the total number of times this message is to be repeated. Use the up and down arrow keys or enter the desired value in the QTY: box. Enter a Zero (0) to theoretically repeat forever.

Inserting Elements in a Message

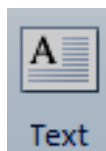
The **Insert** tab contains tools for adding various types of elements to the message. Elements can be inserted into the message by selecting the element icon in the **Insert** ribbon or right mouse clicking in the message and selecting the element from the drop down menu.



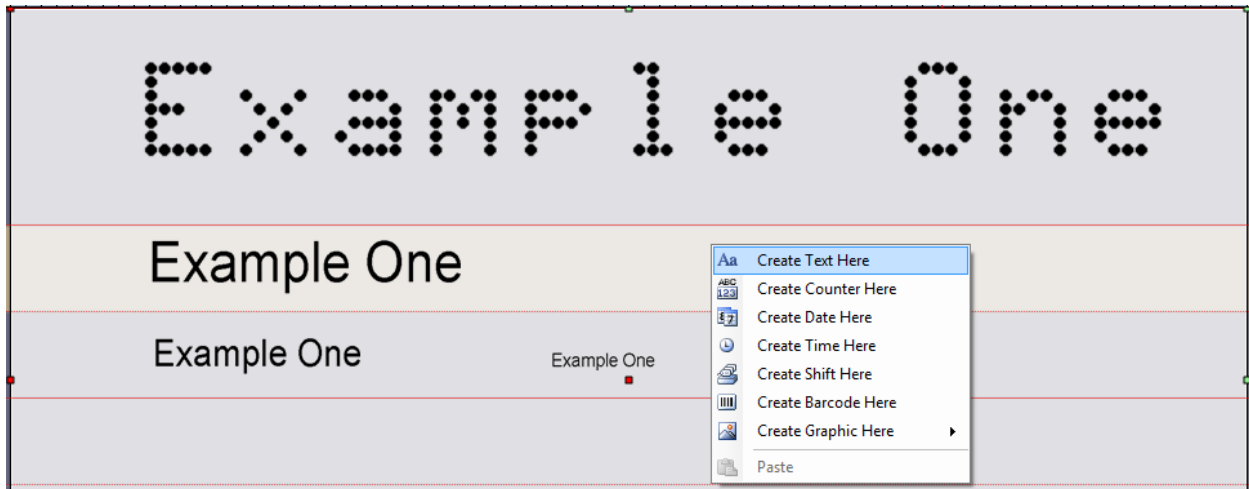
Text/Barcode Element Group

This group contains tools for adding Text, Date, Time, Shift, Counter, and Barcode elements to the message.

Text



To place a text string in the message select the **Text** icon under the **Insert** tab or right mouse click in the message area and select **Create Text Here** from the drop down menu.

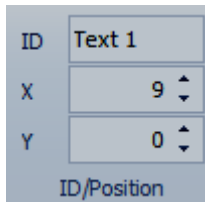


When a text element is inserted the text properties contextual ribbon tab will be displayed for the selected text. Here you can change the element's attributes.



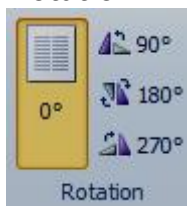
Text Properties Tab

ID/Position



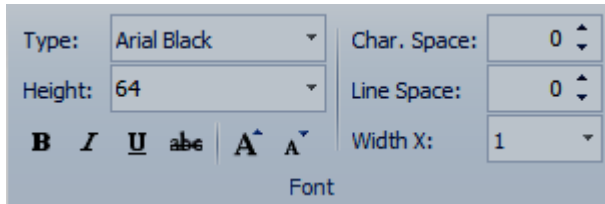
This group displays the ID assigned to the text and the current position in the message. You can use the up and down arrow in the %X+ and %Y+ position boxes to move the selected text vertically and/or horizontally in the message. Unless you are really trying to fine tune the location it is much more convenient to simply click and drag the text element to the desired position.

Rotation

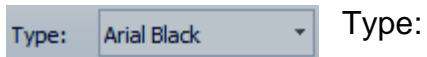


This group allows the selected text to be rotated to 90, 180, or 270 degrees. The Default is 0+Zero degrees.

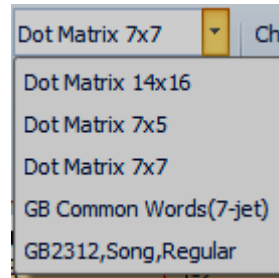
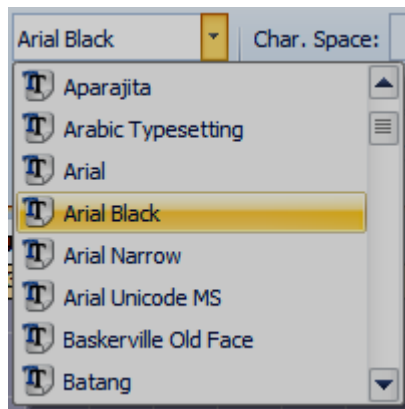
Font



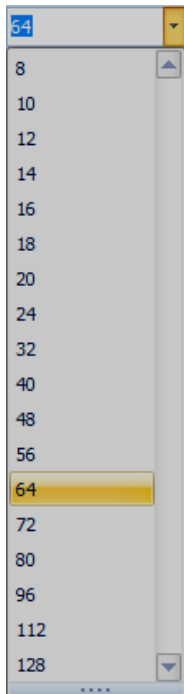
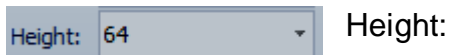
In the font group you can define most of the properties for the current text. Such as font, size, bold, underline.



The type box will define the font to be printed. Use the drop down arrow to display a list of available fonts. Use the scroll arrows in the side bar to move through the list of available fonts.



Notice that the Dot Matrix (Jetline) list is much different than the Hi-Resolution (CoPilot) list.

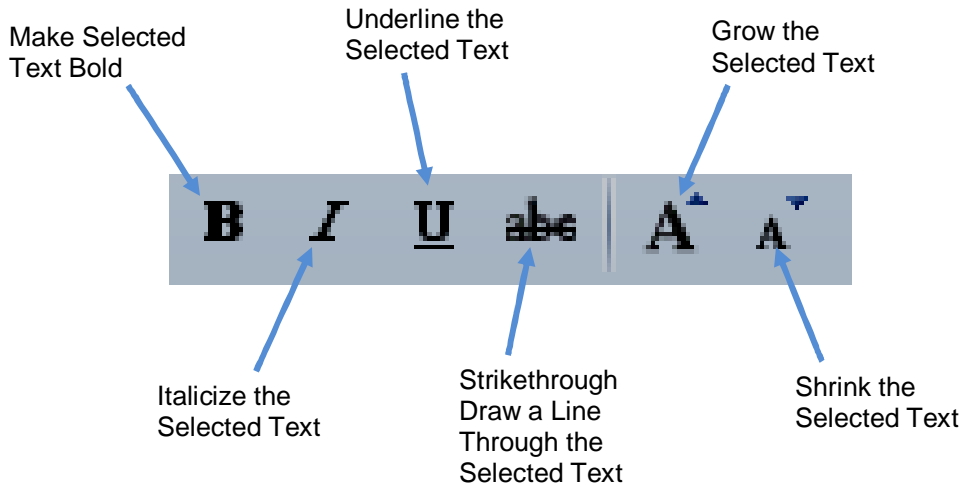


Use the height box to select the desired height for the selected text. Click on the down arrow in the height box to display a list of font heights. Text height is available for the selected Hi Resolution CoPilot text. Not available for Dot Matrix text. Height is measured in the number of printhead jets.



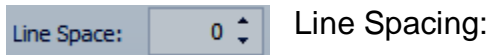
Font Characteristics:

Use the following symbols to assign values to a selected piece of text.



Character Spacing:

Adjust the space between characters. Use the up and down arrows to increase or decrease the space between characters. Default character spacing is 0+Zero.

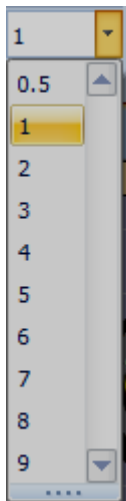


Line Spacing:

Adjust the amount of space between lines. Use the up and down arrows to increase or decrease the space between multiple lines of text. Line spacing is increased or decreased by number of nozzles. If the lines of text are already using all the printhead nozzles the space between lines cannot be increased. Default line spacing is 0+Zero.

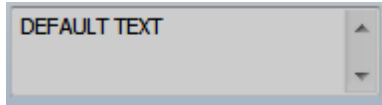


Font Width:



Use the down arrow to select a font width. The default font width is 1+one. Please be aware that changing the font width will significantly change the length of the selected text string.

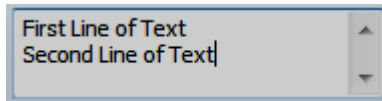
Text Input Box:



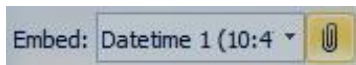
Enter Text Box:
In this box enter the text to be printed.



New Line Button:

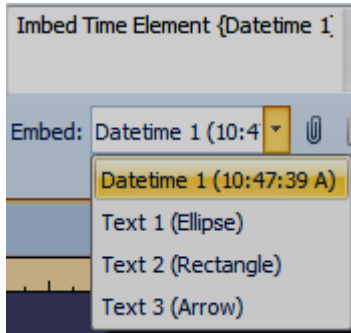


If you wish to include more than one line of text select the New Line icon in the text group to wrap the text string without placing it in the message.



Embed:

Items such as date, time, shift, etc. can be embedded into a text string element.




Use the drop down arrow in the %Embed+box to display a list of items that may be embedded in the text string element.







Click the paper clip icon to embed the selected item into the text string.

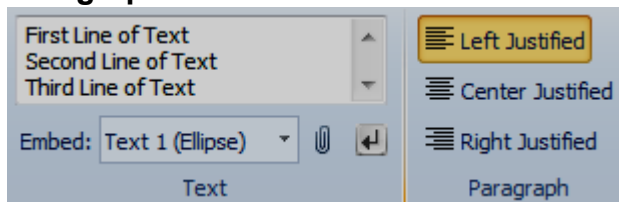
Here is an example of a time element embedded in a text string.

Contact Squid Ink Manufacturing
1-800-877-5658

 www.squidink.com

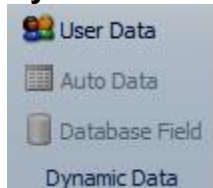
    **10:47:39 A**
Embed Time Element 10:47:39 A Here

Paragraph



Use the tools in the Paragraph group to justify multiple lines of text. Select Left, Center, or Right to apply.

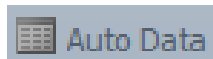
Dynamic Data



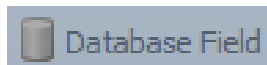
Dynamic Data will allow data from and outside source such as a data base or spread sheet to be placed in the message.



Allows a selected text string to be replaced by the user each time the message is sent to the printer. See the %User Data+ section in this manual for information on text with user data.



Auto Data is not available.

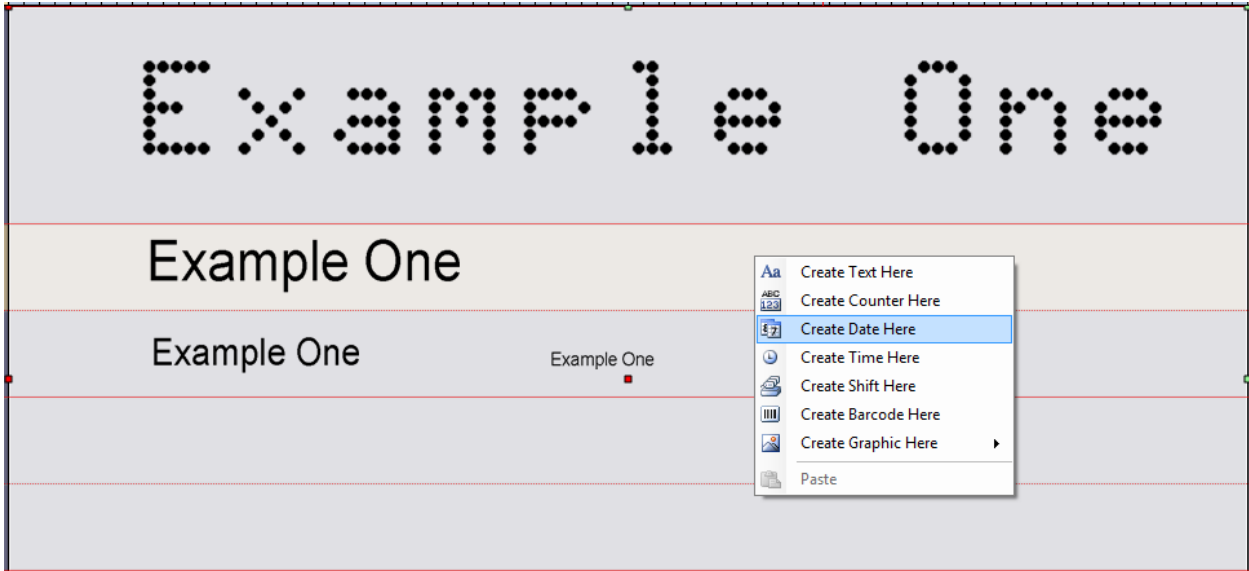


Database Field is not available.

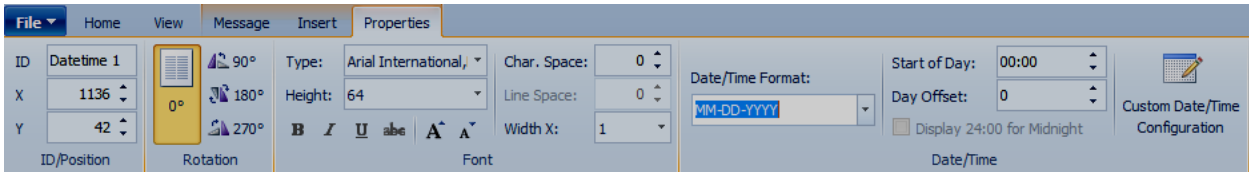
Date



To insert a date in the message click on the **Date** icon or right mouse click in the message area where you would like to place the date and select **Create Date Here** from the drop down menu.

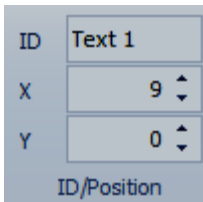


When you insert a date, the **Date Properties** ribbon will be displayed.



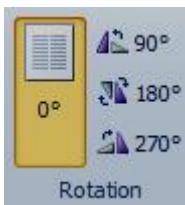
Date Properties Tab

ID/Position



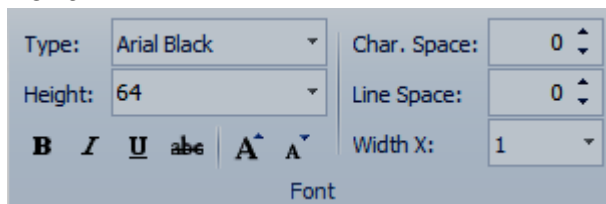
This group displays the ID and the current position of the selected date element in the message. You can use the up and down arrow in the **X** and **Y** position boxes to move the selected element vertically and/or horizontally. Unless you are really trying to fine tune the location it is much more convenient to simply click and drag the text element to the desired position.

Rotation

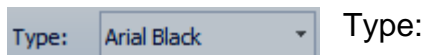


This group allows the selected date element to be rotated to 90, 180, or 270 degrees. The Default is **0** Zero degrees.

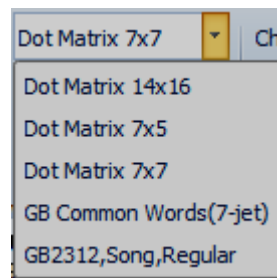
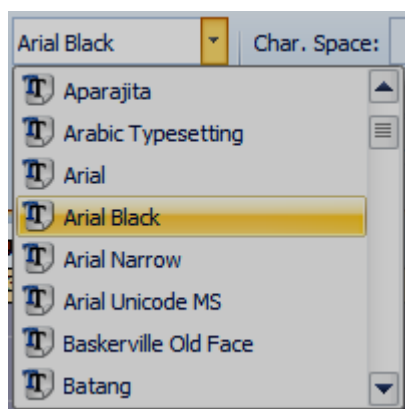
Font



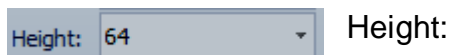
In the font group you can define most of the properties for the current text. Such as font, size, bold, underline.



The type box will define the font to be used in the date text string. Use the drop down arrow to display a list of available fonts. Use the scroll arrows in the side bar to move through the list of available fonts.



Notice that the Dot Matrix (Jetline) list is much different than the Hi-Resolution (CoPilot) list.



Use the height box to select the desired height for the selected text. Click on the down arrow in the height box to display a list of font heights. Text height is available for the selected Hi Resolution CoPilot text. Not available for Dot Matrix text. Height is measured in the number of printhead jets.



Use these icons to select values for the date text string, Bold, underlined, etc.

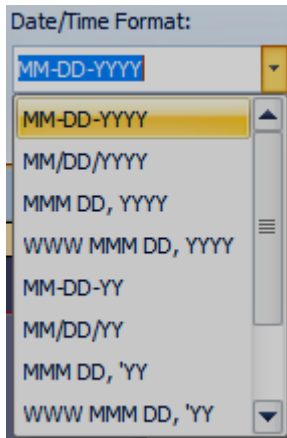


Adjust the space between characters. Use the up and down arrows to increase or decrease the space between characters. Default character spacing is Zero.

Width X: Font Width:

Use the down arrow to select a font width. The default font width is %a+one.

Date/Time



Date/Time Format:

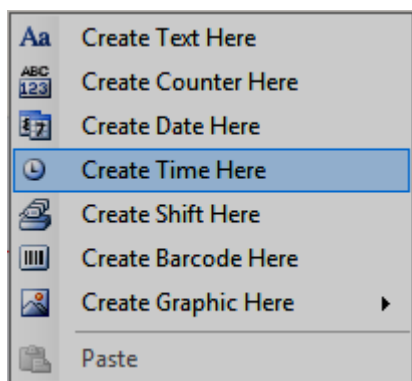
Use the down arrow key in the Date format box to select how the date will display. Default is MM-DD-YYYY.

Date/Time Format	
Y	1-digit Year
YY	2-digit Year
YYYY	4-digit Year
M	1-letter Month (A-L)
MM	2-digit Month (01-12)
MMM	3-letter Month abbreviation (Jan-Feb)
MMMM	Custom month string (up to 20 charaters)
D	1-letter Day of Month (A-Z, 1-5)
DD	2-digit Day of Month (01-31)
W	1-digit Day of Week (0-6 or 1-7)
WW	2-digit Week number (00-52 or 01-53)
WWW	3-letter Day of Week abbreviation (Sun-Sat)
WWWW	Day of Week (Sunday-Saturday)
K	1-letter Day of Week (A-G)
JJJ	3-digit Julian Date (001-366)
O	1-letter Hour (A-X)
H	2-digit 12 Hour format
HH	2-digit 24 Hour format
NN	2-digit Minute (00-59)
SS	2-digit Seconds (00-59)
A	1-letter Meridiem (A/P)
AA	2-letter Meridiem (AM/PM)
-. , etc	Separators

Time

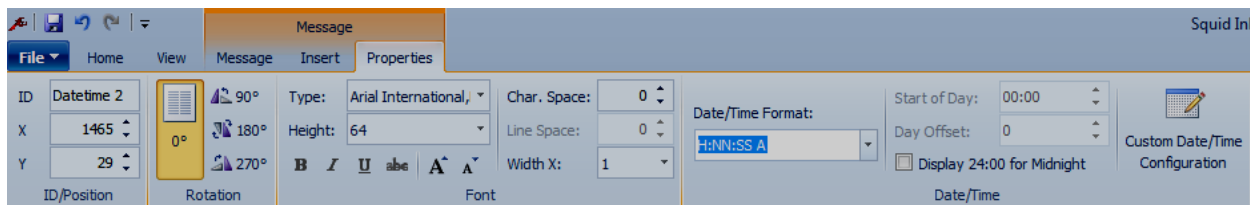


To insert a time element in the message click on the Time icon or right mouse click in the message area where you would like to place the time element and select Create Time Element Here from the drop down menu.



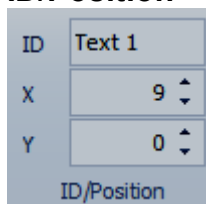
Or right mouse click in the message area where you would like to place the date and select Create Time Here from the drop down menu.

When the time element is selected or inserted the Time properties ribbon will display.



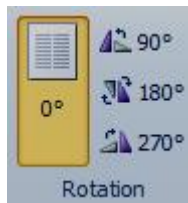
Time Properties Tab

ID/Position



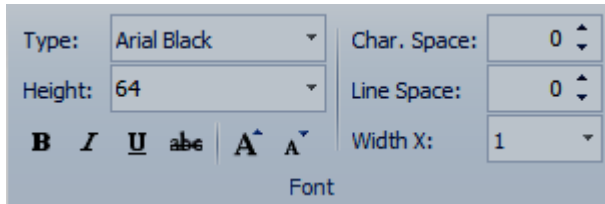
This group displays the ID and the current position of the selected time element in the message. You can use the up and down arrow in the X and Y position boxes to move the selected time element vertically and/or horizontally.

Rotation

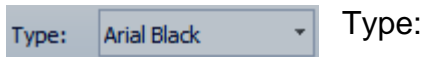


This group allows the selected time element to be rotated to 90, 180, or 270 degrees. The Default is 0+Zero degrees.

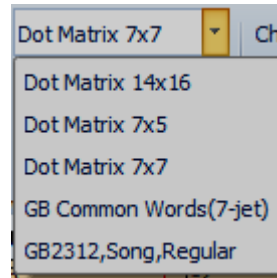
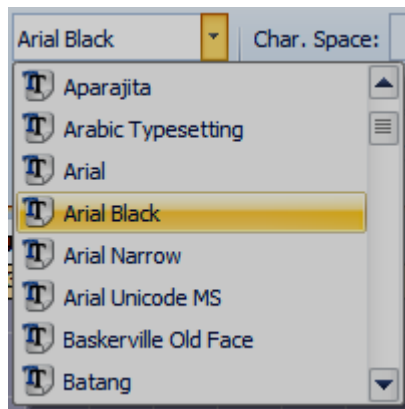
Font



In the font group you can define most of the properties for the current text used for the time element. Such as font, size, bold, underline etc.



The type box will define the font to be used in the time text string. Use the drop down arrow to display a list of available fonts. Use the scroll arrows in the side bar to move through the list of available fonts.



Notice that the Dot Matrix (Jetline) list is much different than the Hi-Resolution (CoPilot) list.



Use the height box to select the desired height for the selected text. Click on the down arrow in the height box to display a list of font heights. Text height is available for the selected Hi Resolution CoPilot text. Not available for Dot Matrix text. Height is measured in the number of printhead jets.



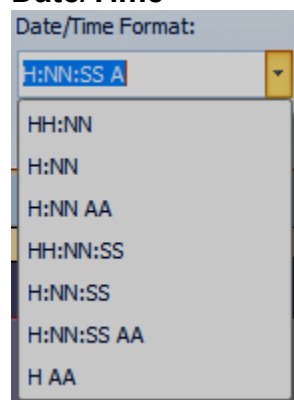
Use these icons to select values for the time text string, Bold, underlined, etc.



Adjust the space between characters. Use the up and down arrows to increase or decrease the space between characters. Default character spacing is Zero.



Use the down arrow to select a font width. The default font width is one.

Date/Time

Date/Time Format:

Use the down arrow key in the time format box to select how the time will display. Default is HH NN SS A.

A = A.M.

P = P.M

Date/Time Format	
Y	1-digit Year
YY	2-digit Year
YYYY	4-digit Year
M	1-letter Month (A-L)
MM	2-digit Month (01-12)
MMM	3-letter Month abbreviation (Jan-Feb)
MMMM	Custom month string (up to 20 charaters)
D	1-letter Day of Month (A-Z, 1-5)
DD	2-digit Day of Month (01-31)
W	1-digit Day of Week (0-6 or 1-7)
WW	2-digit Week number (00-52 or 01-53)
WWW	3-letter Day of Week abbreviation (Sun-Sat)
WWWW	Day of Week (Sunday-Saturday)
K	1-letter Day of Week (A-G)
JJJ	3-digit Julian Date (001-366)
O	1-letter Hour (A-X)
H	2-digit 12 Hour format
HH	2-digit 24 Hour format
NN	2-digit Minute (00-59)
SS	2-digit Seconds (00-59)
A	1-letter Meridiem (A/P)
AA	2-letter Meridiem (AM/PM)
-,./,etc	Separators

Custom Date/Time Configuration



With a date or time selected, mouse click on the Custom Date/Time Configuration+Icon in the Date/Time Ribbon. This will open the Custom Date Editor+window.

The Custom Date/Editor+ allows the user to customize how the date and time will appear in the message.

Custom Date Editor

Period		Month		Digit Replacement
Before noon:	1 Char. <input type="text" value="A"/>	2 Char. <input type="text" value="AM"/>	Number	<input type="checkbox"/> Enable Date
After noon:	<input type="text" value="P"/>	<input type="text" value="PM"/>	1 Char. 3 Char. Name	<input type="checkbox"/> Enable Week
Weekday				<input type="checkbox"/> Enable Time
Number	1 Char.	3 Char.	Name	0 <input type="text" value="0"/>
1	<input type="text" value="A"/>	<input type="text" value="SUN"/>	<input type="text" value="SUNDAY"/>	1 <input type="text" value="1"/>
2	<input type="text" value="B"/>	<input type="text" value="MON"/>	<input type="text" value="MONDAY"/>	2 <input type="text" value="2"/>
3	<input type="text" value="C"/>	<input type="text" value="TUE"/>	<input type="text" value="TUESDAY"/>	3 <input type="text" value="3"/>
4	<input type="text" value="D"/>	<input type="text" value="WED"/>	<input type="text" value="WEDNESDAY"/>	4 <input type="text" value="4"/>
5	<input type="text" value="E"/>	<input type="text" value="THU"/>	<input type="text" value="THURSDAY"/>	5 <input type="text" value="5"/>
6	<input type="text" value="F"/>	<input type="text" value="FRI"/>	<input type="text" value="FRIDAY"/>	6 <input type="text" value="6"/>
7	<input type="text" value="G"/>	<input type="text" value="SAT"/>	<input type="text" value="SATURDAY"/>	7 <input type="text" value="7"/>
First day of the week: <input type="text" value="SUNDAY"/>				8 <input type="text" value="8"/>
First week of the year: <input type="text" value="1"/>				9 <input type="text" value="9"/>
Preset: <input type="text"/>		Save as Default		OK Cancel

Period

Before noon:	1 Char. <input type="text" value="A"/>	2 Char. <input type="text" value="AM"/>
After noon:	<input type="text" value="P"/>	<input type="text" value="PM"/>

Period:
Input a customized string to print for a one letter or two letter time period (before and after noon).

Weekday

Number	1 Char.	3 Char.	Name
1	A	SUN	SUNDAY
2	B	MON	MONDAY
3	C	TUE	TUESDAY
4	D	WED	WEDNESDAY
5	E	THU	THURSDAY
6	F	FRI	FRIDAY
7	G	SAT	SATURDAY

First day of the week: SUNDAY

First week of the year: 1

Weekday:

One character, 3 character and a long weekday name can be customized. Also the first day of the week and first week of the year can be changed for special case.

Month

Number	1 Char.	3 Char.	Name
1	A	JAN	JANUARY
2	B	FEB	FEBRUARY
3	C	MAR	MARCH
4	D	APR	APRIL
5	E	MAY	MAY
6	F	JUN	JUNE
7	G	JUL	JULY
8	H	AUG	AUGUST
9	I	SEP	SEPTEMBER
10	J	OCT	OCTOBER
11	K	NOV	NOVEMBER
12	L	DEC	DECEMBER

Month:

One character, 3 character and a long month name can be customized.

Preset: System Default

- User Saved Default
- System Default
- System Default (Uppercase)
- ISO Default

Preset:

Use the drop down arrow in the %Rreset+ box to display a list of available time/date configurations.

Digit Replacement

Enable Date

Enable Week

Enable Time

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Digit Replacement:

To change a digit display, enter the new digit in the corresponding box and enable the desired field. For example to have the digit 0 in a time element print as the letter A in a time element it would look like this.

Enable Date

Enable Week

Enable Time

0	A
---	---

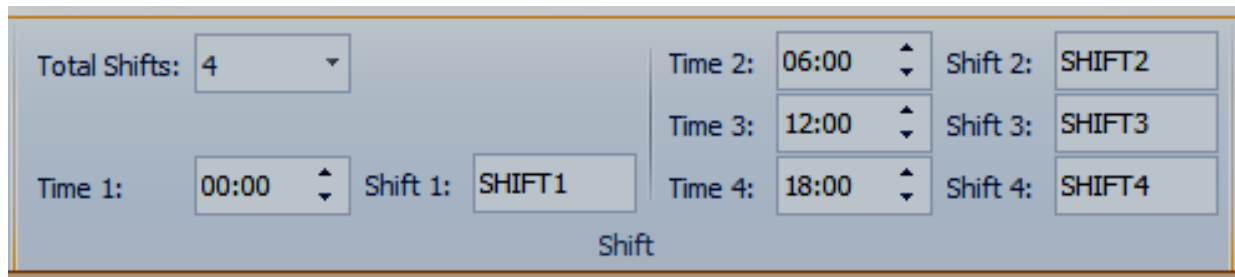
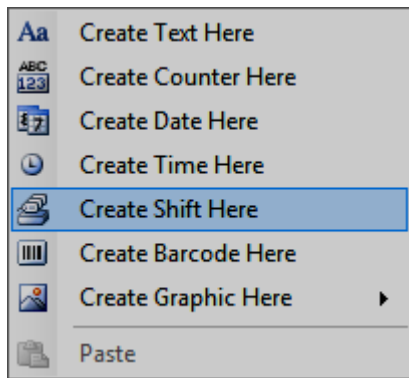
Save as Default

Changes made in the Custom Date Editor can be saved by selecting the Save as Default button after the changes are made. The saved configuration will become the User Saved Default for Date and Time for later use.

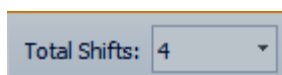
Shift



Select the **Shift** icon or right mouse click in the message and select **Create Shift Here** to insert a shift element and print a shift code in the message.

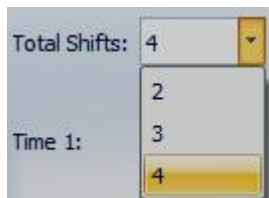


In the shift group you can modify the shift properties.



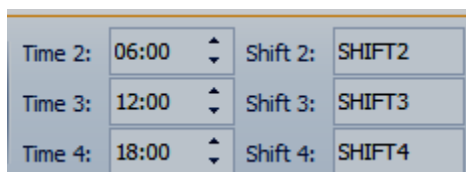
Total Shifts:

Use the drop down arrow in the **Total Shifts** box to select the total number of shifts. In this example four (4) shifts have been selected.



Time 1:

Use the Up and Down arrows in the time box to select a time to start shift one (1).



Use the up and down arrow keys to select times for the remaining shifts, two, three and four.

Shift 2:	Second Shift
Shift 3:	Third Shift
Shift 4:	Fourth Shift

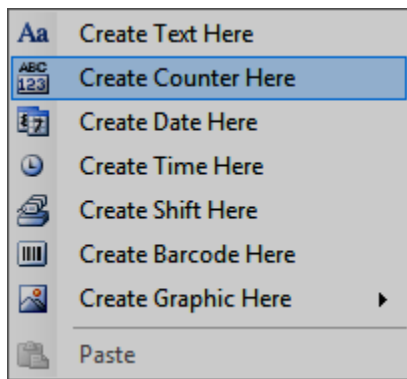
Shift 4
Set the text to print during the 4th shift

In the shift name box you can set the text that will print for the shift. The shift name is limited to 32 characters.

Counter



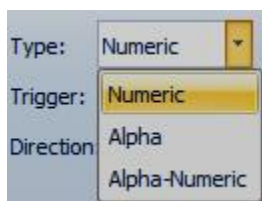
Select the Counter icon or right mouse click in the message area where you would like to place the counter element and select Create Counter Here to add a counter element to the message



Type:	Numeric	Start:	0	Step:	1	<input type="checkbox"/> Recall
Trigger:	Print Trigger	Stop:	999	Padding:	0	<input type="checkbox"/> Daily Counter
Direction:	Up	Current:	0	Align.:	Left	Reset Time: 00:00

Counter

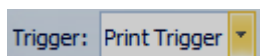
In the counters group you can define parameters for the selected counter.



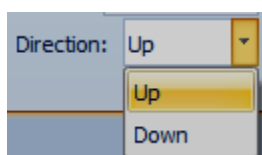
Type:
Define the counter type that will print in the selected counter element.

Use the drop down arrow in the Type box to define the type of counter that will print.

- **Numeric:** Print the counter value as a number (consists of 0-9)
- **Alpha:** Print the counter value as alphabetic string (consists of A-Z)
- **Alpha Numeric:** Print the counter value as combination string of digits and letters. (consists of 0-9 and A-Z)

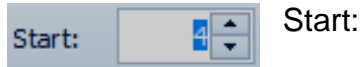


Trigger: What causes the counter to change, for example when the photocell is interrupted. If more than one counter has been defined in the message, the other counter can be a selected as trigger as well.

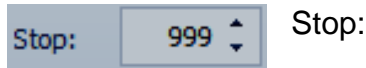


Direction:

Use the down arrow in the %Ddirection+box to select the direction the counter will change, up or down.



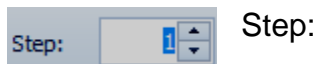
Use the up and down arrows or input directly in the %Sstart+box to set a starting value for the selected counter.



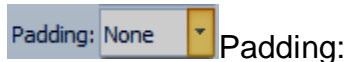
Use the up and down arrows or input directly in the %Sstop+box to set a stop counting value for the selected counter. When stop value reaches, the counter will reset and begin counting at the assigned start value.



Use the up and down arrows or input directly in the %Ccurrent+box to set a current value for the selected counter.



Use the up and down arrows to select a step value for the counter. The default step value is one (1).

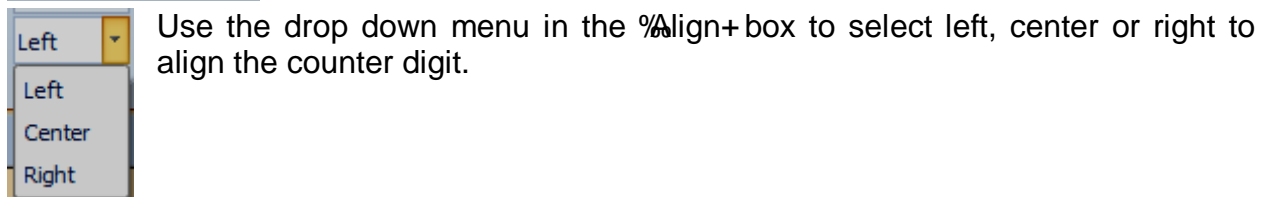
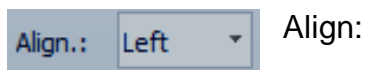


Use the down arrow to select a Zero (0) or none as a place holder in the counter.

Note: Padding selection will be disabled when the counter format is Alpha.

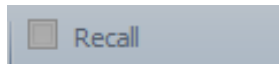


Selected counter with Padding Zero.



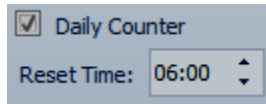
Use the drop down menu in the %Aalign+box to select left, center or right to align the counter digit.

Note: Align will be disabled when padding=0 and the format is not Alpha Numeric.



Recall:

Check the %Recall+ to start the counter with the current value instead of the start value.



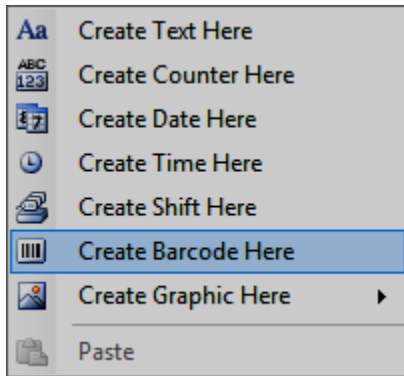
Daily Counter:

Check the Daily Counter Box to instruct the counter to reset to the start value at the specified Reset Time. Use the up and down arrows in the %Reset Time+box to specify a reset time.

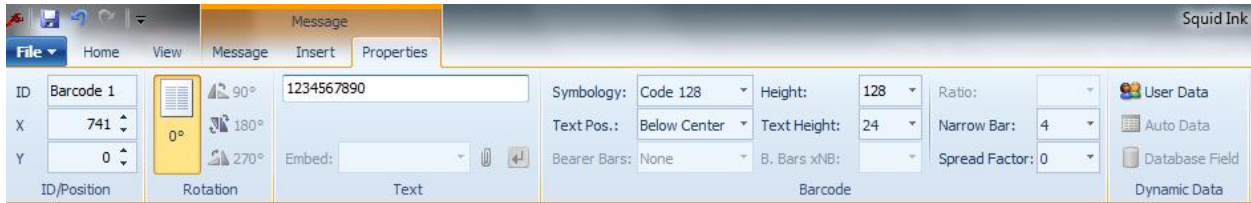
Barcodes



Select the **Barcode+** icon or right mouse click in the message and select **Create Barcode Here+** to add a barcode element to the message.

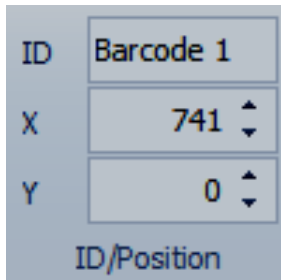


The properties tab for the selected barcode will display.



Barcode Properties Tab

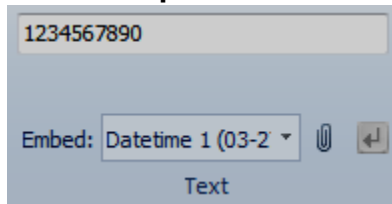
ID/Position



This group displays the ID and the current position of the selected barcode. You can use the up and down arrow in the **X+** and **Y+** position boxes to move the selected element vertically and/or horizontally.

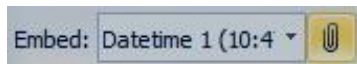
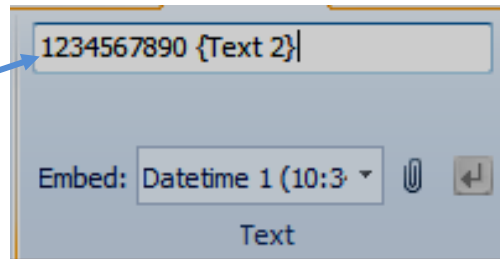
Tip! Unless you are really trying to fine tune the location it is much more convenient to simply mouse click and drag the selected barcode element to the desired position.

Text Group



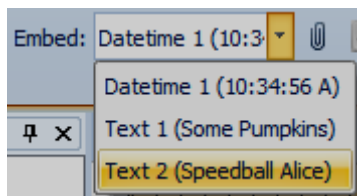
Use the %Text+ group to enter the text string and Embed elements in the selected barcode.

Enter Data for Barcode Here



Embed:

Items such as text, date, time, shift, etc. can be embedded into a barcode text string element.



Use the drop down arrow in the %Embed+box to display a list of items that may be embedded in the text string element.



Click the paper clip icon to embed the selected item into the text string.

Here is an example of a text element %Speedball Alice+embedded in a text string.



Barcode with Embedded Text Element

Barcode Group

Use the %Barcode Group+ to define the barcode attributes.

Symbology:

Use the drop down arrow in the symbology box to select the type of barcode element. Use the scroll bar in the drop down list to find the desired barcode type. The barcode types appear in alphabetical order in the drop down list.

Barcode Symbology - Code 128

The Code 128 symbology supports 3 character sets:

Character Set A includes all of the standard upper case U.S. alphanumeric keyboard characters and punctuation characters together with the control characters, (i.e. characters with ASCII values from 0 to 95 inclusive), and seven special characters.

Character Set B includes all of the standard upper case alphanumeric keyboard characters and punctuation characters together with the lower case alphabetic characters (i.e. characters with ASCII values from 32 to 127 inclusive), and seven special characters.

Character Set C includes the set of 100 digit pairs from 00 to 99 inclusive, as well as three special characters. This allows numeric data to be encoded as two data digits per symbol character, at effectively twice the density of standard data.

Tip! Using the mouse, hover over a barcode in the symbology box or in the message and a description of the barcode will display.

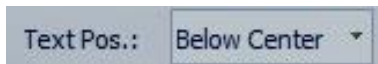
Available 1D Barcodes

Codabar	Codabar
Code128	Code 128
Code39	Code 39
Ean8	EAN-8
Ean8CCA	EAN-8 CC-A
Ean8CCB	EAN-8 CC-B
Ean13	EAN-13
Ean13CCA	EAN-13 CC-A
Ean13CCB	EAN-13 CC-B
GS1128	GS1-128
GS1128CCA	GS1-128 CC-A
GS1128CCB	GS1-128 CC-B
GS1128CCC	GS1-128 CC-C
GS1DataBarExpanded	GS1 DataBar Expanded
GS1DataBarExpandedCCA	GS1 DataBar Expanded CC-A
GS1DataBarExpandedCCB	GS1 DataBar Expanded CC-B
GS1DataBarExpandedStacked	GS1 DataBar Expanded Stacked
GS1DataBarExpandedStackedCCA	GS1 DataBar Expanded Stacked CC-A
GS1DataBarExpandedStackedCCB	GS1 DataBar Expanded Stacked CC-B
GS1DataBarLimited	GS1 DataBar Limited
GS1DataBarLimitedCCA	GS1 DataBar Limited CC-A
GS1DataBarLimitedCCB	GS1 DataBar Limited CC-B
GS1DataBarOmnidirectional	GS1 DataBar Omnidirectional
GS1DataBarOmnidirectionalCCA	GS1 DataBar Omnidirectional CC-A
GS1DataBarOmnidirectionalCCB	GS1 DataBar Omnidirectional CC-B
GS1DataBarStacked	GS1 DataBar Stacked
GS1DataBarStackedCCA	GS1 DataBar Stacked CC-A
GS1DataBarStackedCCB	GS1 DataBar Stacked CC-B
GS1DataBarStackedOmnidirectional	GS1 DataBar Stacked Omnidirectional
GS1DataBarStackedOmnidirectionalCCA	GS1 DataBar Stacked Omnidirectional CC-A
GS1DataBarStackedOmnidirectionalCCB	GS1 DataBar Stacked Omnidirectional CC-B
GS1DataBarTruncated	GS1 DataBar Truncated
GS1DataBarTruncatedCCA	GS1 DataBar Truncated CC-A
GS1DataBarTruncatedCCB	GS1 DataBar Truncated CC-B
Interleaved2of5	Interleaved 2 of 5
Itf14	ITF-14
Msi	MSI
Scc14	SCC-14
Sccc18	SSCC-18
UpcA	UPC-A
UpcACCA	UPC-A CC-A
UpcACCB	UPC-A CC-B
UpcE	UPC-E
UpcECCA	UPC-E CC-A
UpcECCB	UPC-E CC-B

Available 2D Barcodes

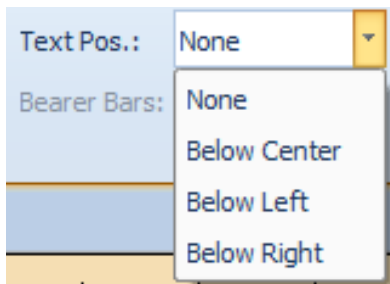
DataMatrix
 GS1DataMatrix
 Pdf417
 CompactPdf417
 MacroPdf417
 MicroPdf417
 MicroQRCode
 QRCode

DataMatrix
 GS1 DataMatrix
 PDF417
 Compact Pdf417
 Macro Pdf417
 Micro PDF417
 Micro QR Code
 QR Code



Text Position:

Use the drop down menu in the Text Pos.: box to select where the human readable text will be placed.



%None+no human readable text printed.

%Below Center+will center the text under the barcode.

%Below Left+will align the human readable text left.

%Below Right+will align the human readable text right.



Height:



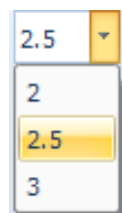
Use the drop down arrow to select a barcode height. Barcode height is measured in printhead jets. 128 jets is the full printhead height.

Text Height: 24 Text Height:



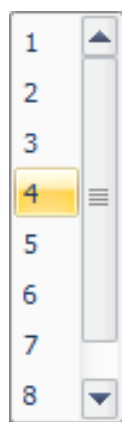
Use the drop down list in %Text Height+ to select a text height for the human readable text in the barcode. Keep in mind the size of the human readable text will be subtracted from the overall barcode size. For example, if the barcode size is 96 jets and text height is 24 jets the barcode will be 72 jets.

Ratio: 2.5 Ratio:



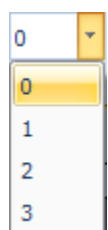
Ratio sets the ratio of wide bars to narrow bars.

Narrow Bar: 4 Narrow Bar:



The width in print columns of the narrowest bar (or module in the case of DataMatrix and QR code). Use the down arrow in the %Narrow Bar+ box to change the value. This can also be adjusted by using the left or right selection handles of a barcode object.

Spread Factor: 0 Spread Factor:



This setting tries to compensate for ink spread, or dot gain, on certain substrates, such as some corrugated boxes, for example. Use the up and down arrows in the %Spread Factor+ box to change the values. Experiment with higher values when your ink is spreading to improve the scan-ability of a barcode. Zero means no spreading. This setting only applies to certain types of barcodes.

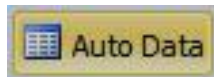
Dynamic Data



Dynamic Data will allow data from and outside source such as a data base or spread sheet to be placed in the message.



Allows selected barcode data to be replaced by the user each time the message is sent to the printer. See the %User Data+ section in this manual for information on barcode user data.



Auto Data allows the selected text to be replaced by text from a computer. See the %Auto Data+ %Auto Data Server+ sections in this manual for instructions on using Auto Data.



Database Field will allow the selected text to be replaced by information read from a database. See the %Database Message Server+section in this manual.

Barcodes Containing Application Identifiers:

Entering the %l+ characters means %an %Application Identifier+ (AI) follows. If the AI is understood by Orion and the printer and it specifies a fixed amount of data, another AI may be entered without adding another %l+to the data string.

Note: Orion will add a check digit to barcodes under the %l+ identifier. Enter thirteen (13) digits for these barcodes and Orion will add a check digit automatically fulfilling the fourteen digit requirement. Do not enter fourteen (14) digits.

Here are some examples to show how to create various GS1-128 barcodes. All of these examples are created by setting the Barcode Type to Code 128 in Orion.



Barcode Data String: ^!0012345678901234567

Output from scanner: 00123456789012345675

The AI of 00 indicates this is a Serial Shipping Container Code (SSCC-18) consisting of 18 digits (123456789012345675). The %l+ at the end is a check digit. It is added automatically.



Barcode Data String: ^!011234567890123

Output from scanner: 0112345678901231

The AI of 01 indicates this is a Shipping Container Code (SSCC-14 consisting of 14 digits (12345678901231). The %l+ at the end is a check digit. It is added automatically.



Barcode Data String: ^!1108041017081010

Output from scanner: 1108041017081010

The AI of 11 indicates the Production Date in YYMMDD format (April 10, 2008) and the AI of 17 indicates the Sell by Date in YYMMDD format (October 10, 2008). Since the AI of 11 was understood by Orion and the printer, the AI 17 is automatically understood without having to add the ^! Before it.



Barcode Data String: ^!3104102500

Output from scanner: 3104102500

The AI of 310x indicates the Production Net Weight in kg, the fourth digit of the AI indicates where the decimal should be placed (number of positions from the right). In this example, the weight is 10.2500 kg.



Barcode Data String: ^!400PO12345^!8002123ABC456DEF

Output from scanner: 400PO123458002123ABC456DEF

The AI of 400 indicates the Customer Purchase Order Number (PO12345) and the AI of 8002 indicates the Electronic Serial Number (ESN) for Cellular Phones (123ABC456DEF). Since the AI of 400 is not understood by Orion or the printer, the ^! Characters need to be added before the next AI so that the 8002 will be placed in parenthesis.

On the following pages is a complete list of application identifiers.

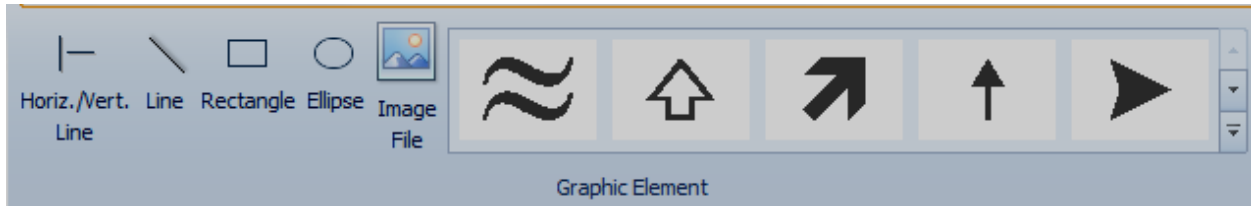
GSI 128 Application Identifier Values

AI	Description	Data Format
00	Serial Shipping Container Code(SSCC-18)	18 digits - numeric
01	Shipping Container Code (SSC)	14 digits - numeric
02	Number of containers	14 digits - numeric
10	Batch Number	1-20 alphanumeric
11	Production Date	6 digits: YYMMDD
12	Due Date	6 digits YYMMDD
13	Packaging Date	6 digits: YYMMDD
15	Sell by Date (Quality Control)	6 digits: YYMMDD
17	Expiration Date	6 digits: YYMMDD
20	Product Variant	2 digits
21	Serial Number	1-20 alphanumeric
22	HIBCC Quantity, Date, Batch and Link	1-29 alphanumeric
23n	Lot Number	1-19 alphanumeric
240	Additional Product Identification	1-30 alphanumeric
250	Second Serial Number	1-30 alphanumeric
30	Quantity Each	Variable up to 8 digits
310y	Product Net Weight in kg	6 digits
311y	Product Length/1st Dimension, in meters	6 digits
312y	Product Width/Diameter/2nd Dimension, in meters	6 digits
313y	Product Depth/Thickness/3rd Dimension, in meters	6 digits
314y	Product Area, in square meters	6 digits
315y	Product Volume, in liters	6 digits
316y	product Volume, in cubic meters	6 digits
320y	Product Net Weight, in pounds	6 digits
321y	Product Length/1st Dimension, in inches	6 digits
322y	Product Length/1st Dimension, in feet	6 digits
323y	Product Length/1st Dimension, in yards	6 digits
324y	Product Width/Diameter/2nd Dimension, in inches	6 digits
325y	Product Width/Diameter/2nd Dimension, in feet	6 digits
326y	Product Width/Diameter/2nd Dimension, in yards	6 digits
327y	Product Depth/Thickness/3rd Dimension, in inches	6 digits
328y	Product Depth/Thickness/3rd Dimension, in feet	6 digits
329y	Product Depth/Thickness/3rd Dimension, in yards	6 digits

AI	Description	Data Format
330y	Container Gross Weight (Kg)	6 digits
331y	Container Length/1st Dimension (Meters)	6 digits
332y	Container Width/Diameter/2nd Dimension (Meters)	6 digits
333y	Container Depth/Thickness/3rd Dimension (Meters)	6 digits
334y	Container Area (Square Meters)	6 digits
335y	Container Gross Volume (Liters)	6 digits
336y	Container Gross Volume (Cubic Meters)	6 digits
340y	Container Gross Weight (Pounds)	6 digits
341y	Container Length/1st Dimension, in inches	6 digits
342y	Container Length/1st Dimension, in feet	6 digits
343y	Container Length/1st Dimension in, in yards	6 digits
344y	Container Width/Diameter/2nd Dimension, in inches	6 digits
345y	Container Width/Diameter/2nd Dimension, in feet	6 digits
346y	Container Width/Diameter/2nd Dimension, in yards	6 digits
347y	Container Depth/Thickness/Height/3rd Dimension, in inches	6 digits
348y	Container Depth/Thickness/Height/3rd Dimension, in feet	6 digits
349y	Container Depth/Thickness/Height/3rd Dimension, in yards	6 digits
350y	Product Area (Square Inches)	6 digits
351y	Product Area (Square Feet)	6 digits
352y	Product Area (Square Yards)	6 digits
353y	Container Area (Square Inches)	6 digits
354y	Container Area (Square Feet)	6 digits
355y	Container Area (Square Yards)	6 digits
356y	Net Weight (Troy Ounces)	6 digits
360y	Product Volume (Quarts)	6 digits
361y	Product Volume (Gallons)	6 digits
362y	Container Gross Volume (Quarts)	6 digits
363y	Container Gross Volume (Gallons)	6 digits
364y	Product Volume (Cubic Inches)	6 digits
365y	Product Volume (Cubic Feet)	6 digits
366y	Product Volume (Cubic Yards)	6 digits
367y	Container Gross Volume (Cubic Inches)	6 digits
368y	Container Gross Volume (Cubic Feet)	6 digits
369y	Container Gross Volume (Cubic Yards)	6 digits

AI	Description	Data Format
37	Number of Units Contained	1-8 digits
400	Customer Purchase Order Number	1-29 alphanumeric
410	Ship To/Deliver To Location Code (EAN13 or DUNS code)	13 digits
411	Bill To/Invoice Location Code (EAN13 or DUNS code)	13 digits
412	Purchase From Location Code (EAN13 or DUNS code)	13 digits
420	Ship To/Deliver To Postal Code (Single Postal Authority)	1-9 alphanumeric
421	Ship To/Deliver To Postal Code (Multiple Postal Authority)	4-12 alphanumeric
7001	Nato Stock Numbers	13 digits
7002	UN/ECE Meat Carcasses and cuts classification	Variable up to 30
7003	Expiration Date and Time	10 digits
7004	Active Potency	Variable up to 4
703n	Processor approval (with ISO country code); n indicates sequence number of several processors	Variable 3-30 digits
8001	Roll Products - Width/Length/Core Diameter	14 digits
8002	Electronic Serial Number (ESN) for Cellular Phone	1-20 alphanumeric
8003	UPC/EAN Number and Serial Number of Returnable Asset	14 Digit UPC +1-16 Alphanumeric Serial Number
8004	UPC/EAN Serial Identification	1-30 Alphanumeric
8005	Price per Unit of Measure	6 digits
8100	Coupon Extended Code: Number System and Offer	6 digits - numeric
8101	8101 Coupon Extended Code: Number System, Offer, End of Offer	10 digits - numeric
8102	Coupon Extended Code: Number System preceded by 0	2 digits - numeric
90	Mutually Agreed Between Trading Partners	1-30 alphanumeric
91	Company Internal Information	1-30 alphanumeric
92	Company Internal Information	1-30 alphanumeric
93	Company Internal Information	1-30 alphanumeric
94	Company Internal Information	1-30 alphanumeric
95	Company Internal Information	1-30 alphanumeric
96	Company Internal Information	1-30 alphanumeric
97	Company Internal Information	1-30 alphanumeric
98	Company Internal Information	1-30 alphanumeric
99	Company Internal Information	1-30 alphanumeric

Graphic Element Group

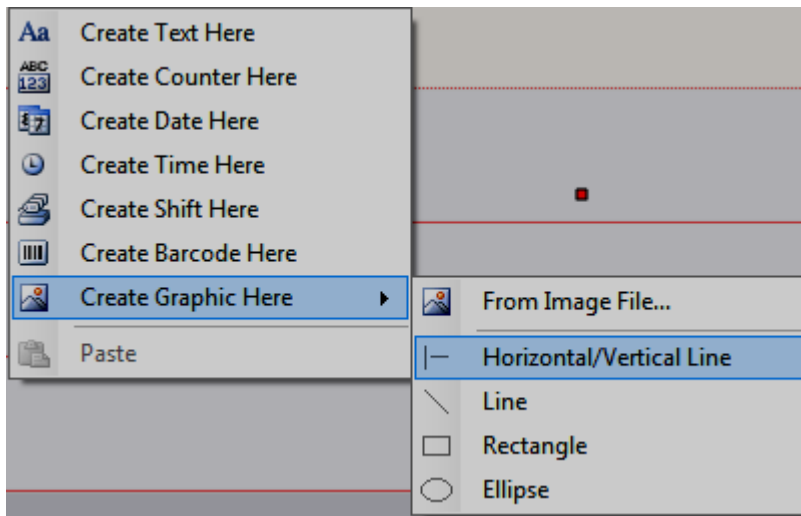


Graphic elements can be created and/or inserted into a message. Simple graphics and shapes such as lines, circles and rectangles can be created using the graphics tools in Orion. A gallery of common logos are provided as well.

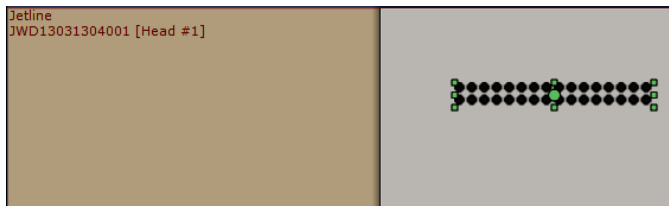
Horizontal or Vertical Line



To place a horizontal or vertical line in the message mouse click on the Horiz./Vert. Line+ icon under the Insert+ tab or right mouse click in the message where you would like to place the line and select Horiz./Vertical Line+ from the drop down menu.



When Horizontal/Vertical is selected a small horizontal line will be placed in the current printhead area of the message

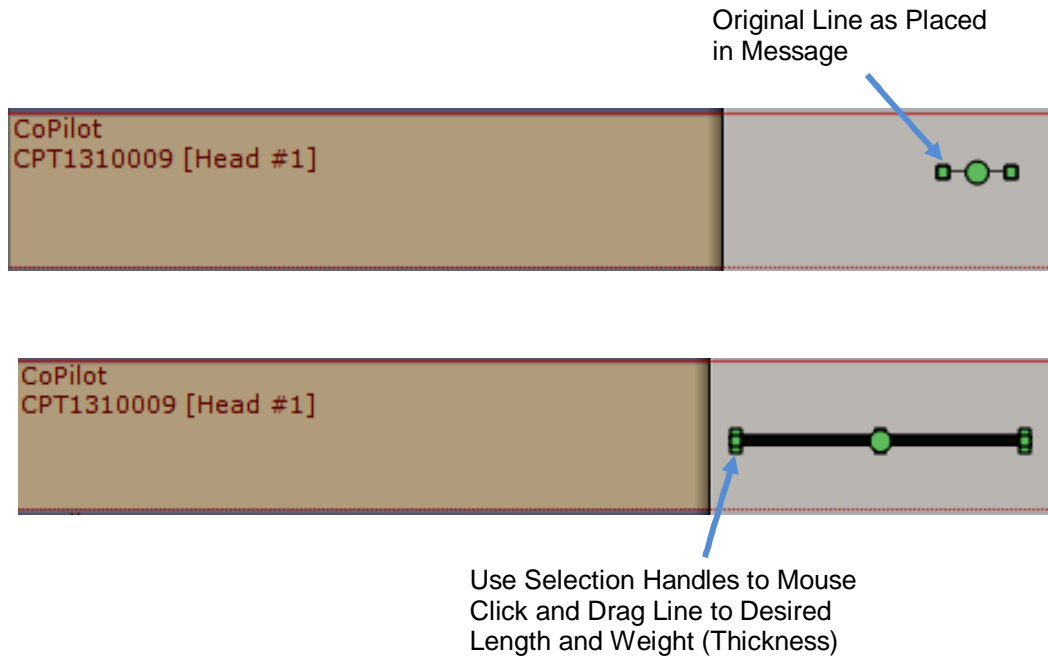


Line created when a Jetline Printhead is selected.



Line created when a CoPilot Printhead is selected

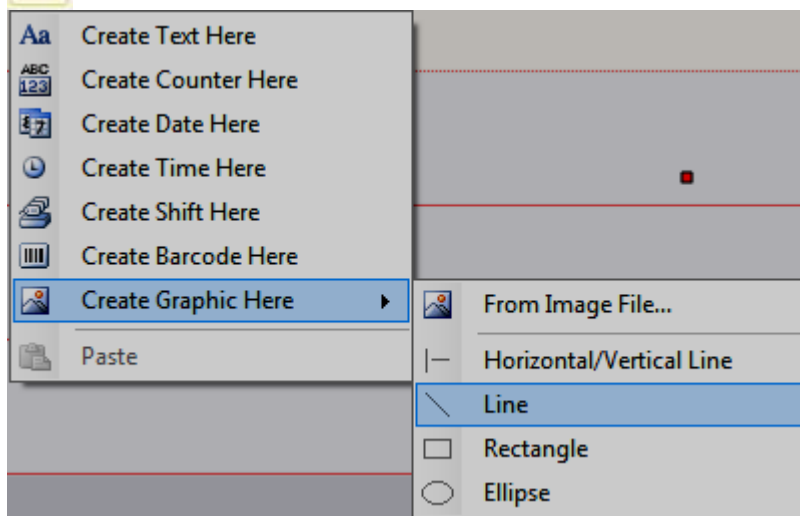
When the line first appears in the message it is probably not the right length, width or in the right position. To change the line properties, mouse click on a selection handle on the line and drag the handle to achieve the correct length and width.



Line



To place general line element in the message mouse click on the **Line+** icon under the **Insert+tab** or right mouse click in the message where you would like to place the line and select **Line+** from the drop down menu.

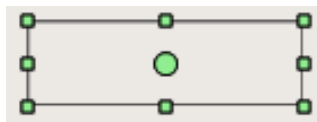
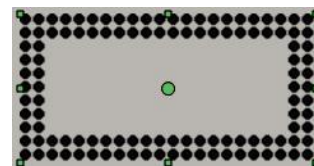
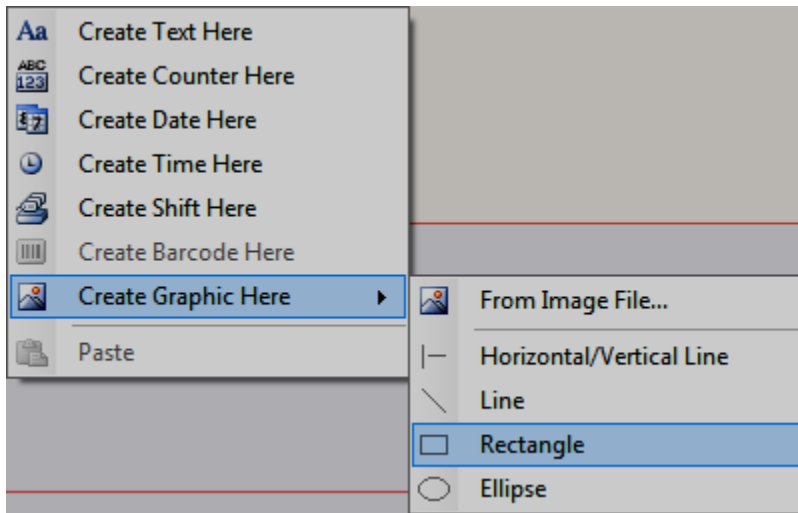


When the new line appears in the message use the selection handles to manipulate the line to correct length and weight.

Rectangle



To place a rectangle element in the message mouse click on the **Rectangle+** icon under the **Insert+** tab or right mouse click in the message where you would like to place the line and select **Rectangle+** from the drop down menu.

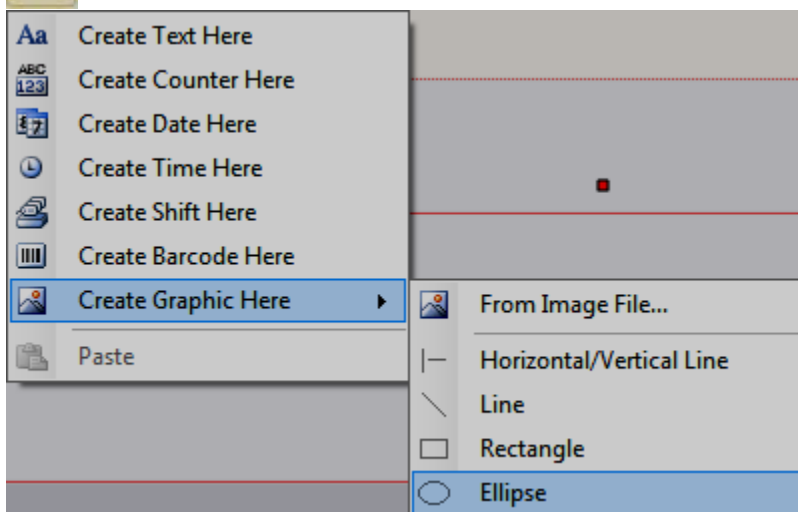


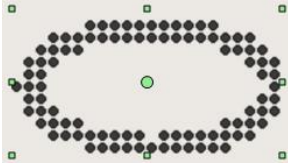
When the new rectangle appears use the selection handles to manipulate the rectangle to the correct length, height and position.

Ellipse



To place an ellipse element in the message mouse click on the **Ellipse+** icon under the **Insert+** tab or right mouse click in the message where you would like to place the line and select **Ellipse+** from the drop down menu.





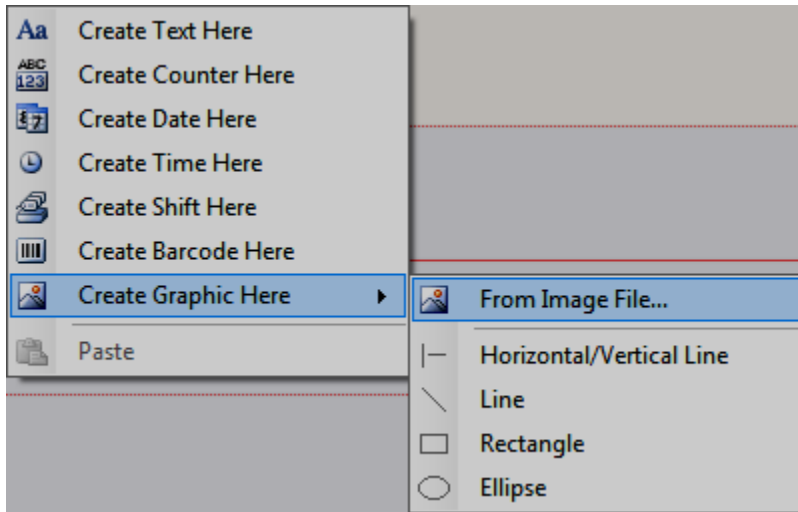
When the new ellipse appears use the selection handles to manipulate the ellipse to the correct length, height and position.

Image File

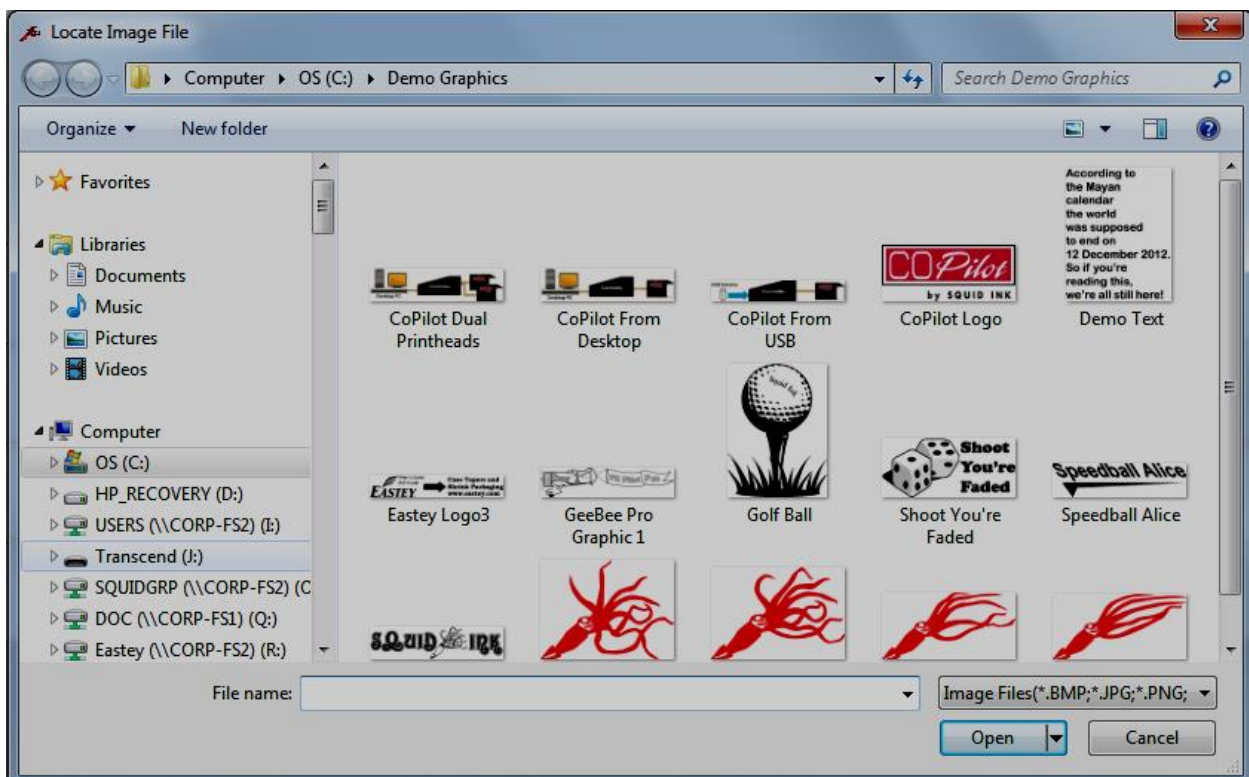
A variety of pre-created images such as logos and custom artwork can be placed in the message. Orion supports most image file types.



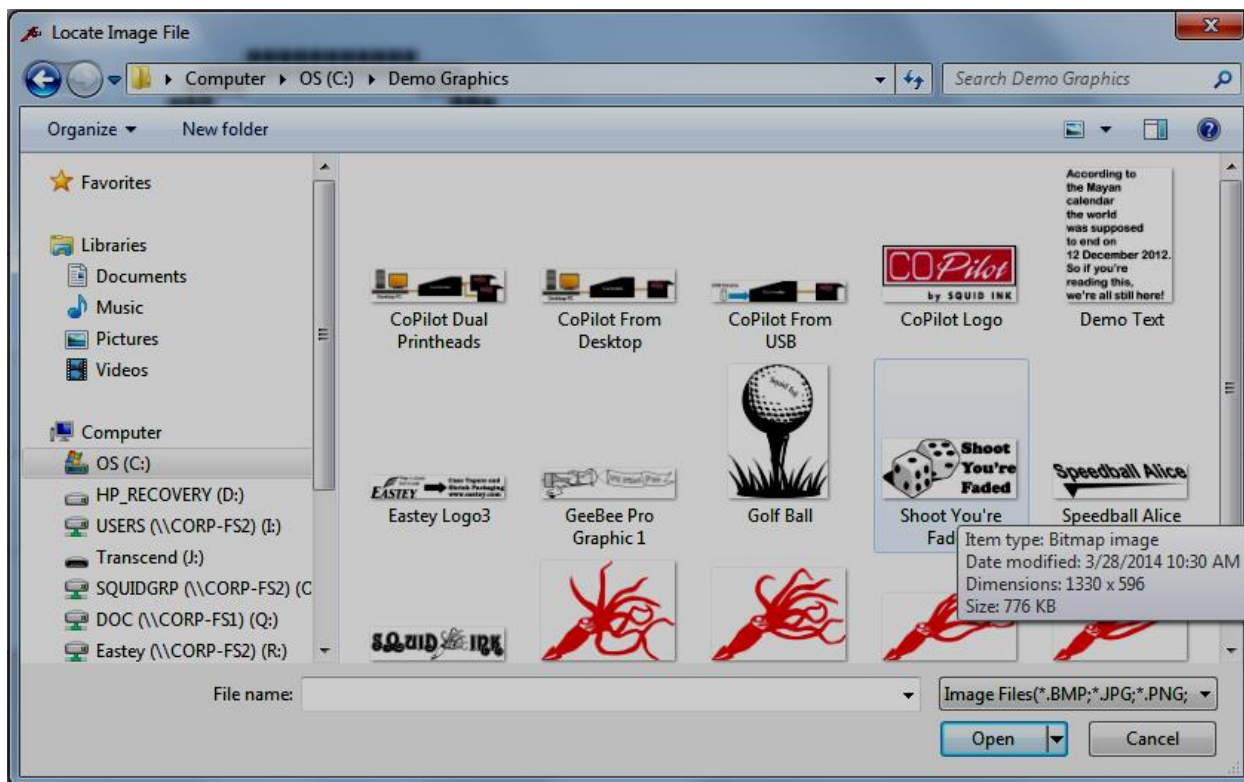
To insert an image from an existing file select the **Image File** icon from the insert ribbon or right mouse click in the message where you would like to place the image and select **From Image File** +



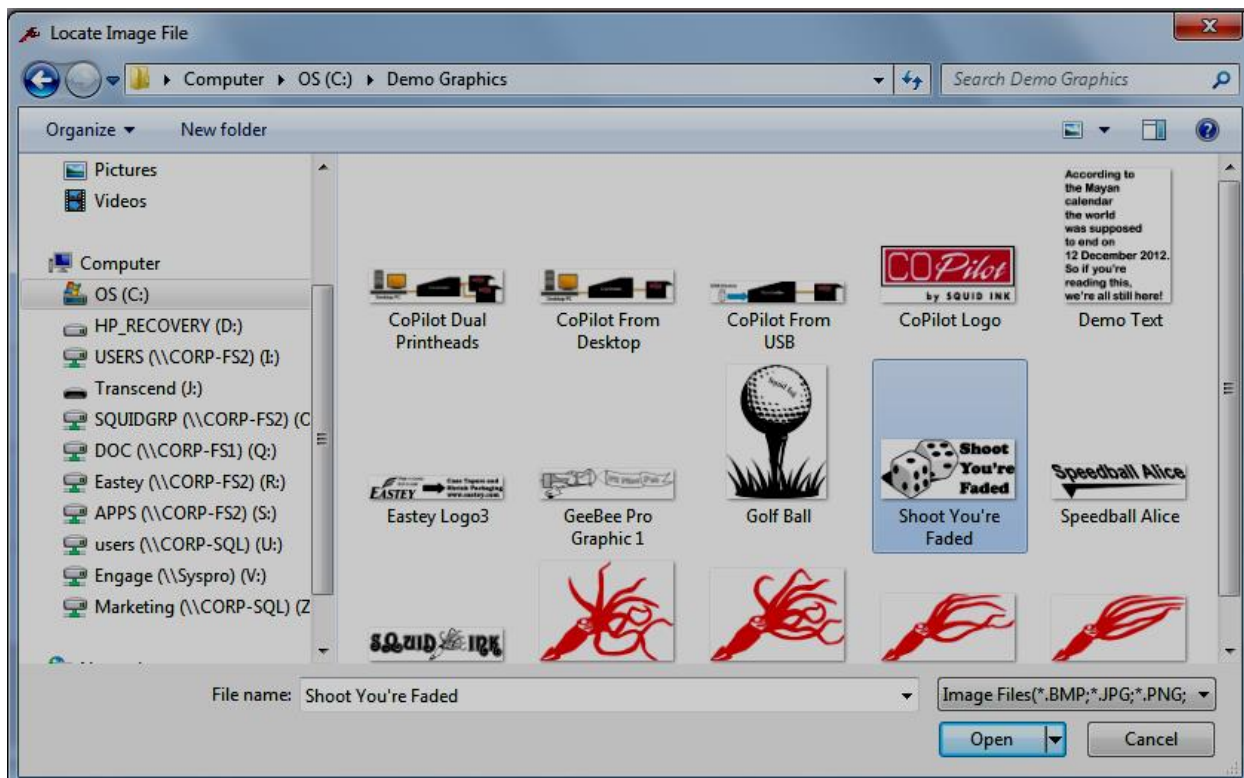
A navigation window will open.



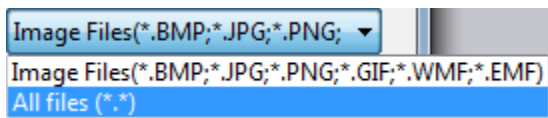
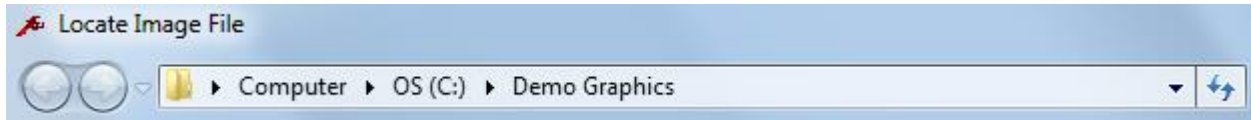
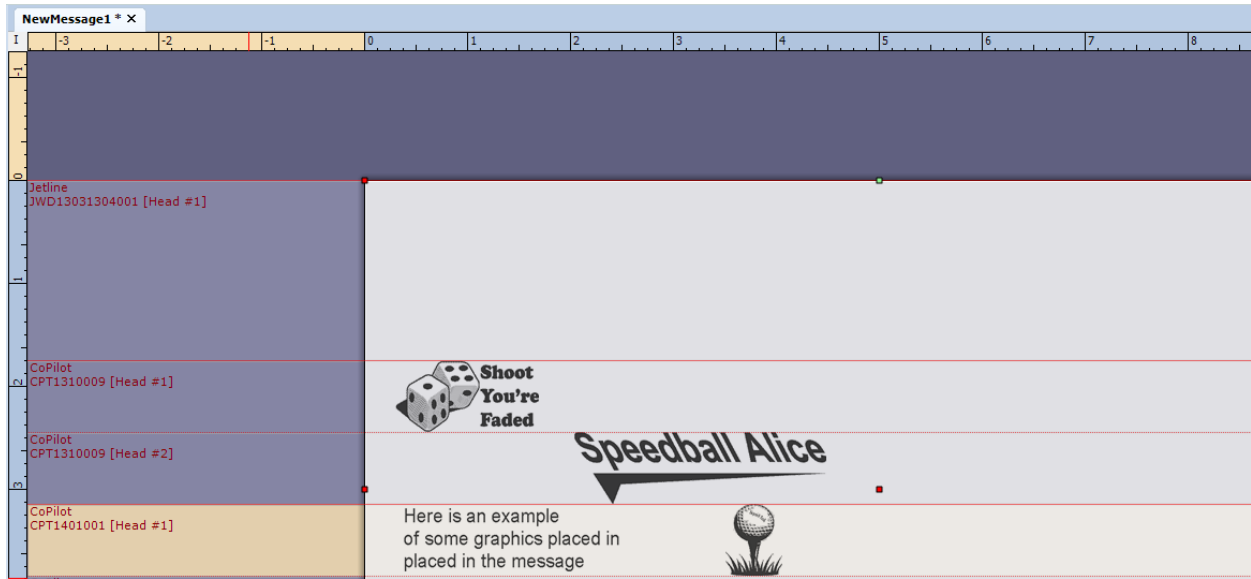
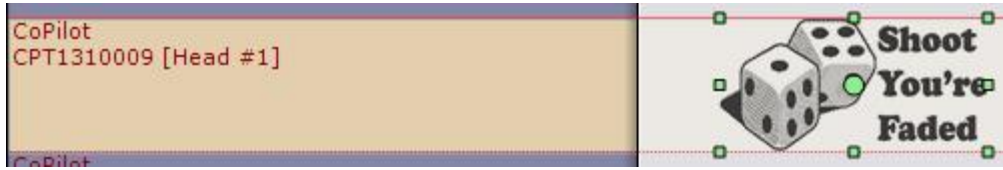
Navigate to the location containing the desired image.



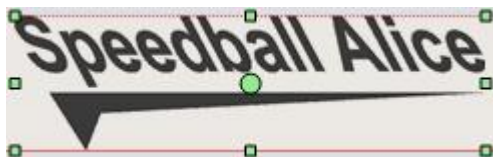
Select the desired image to place in the message.



Double click on the desired image or click **Open+** button and the graphic will be placed in the message.



This is the file type you are looking for. Orion will accept most common image types.

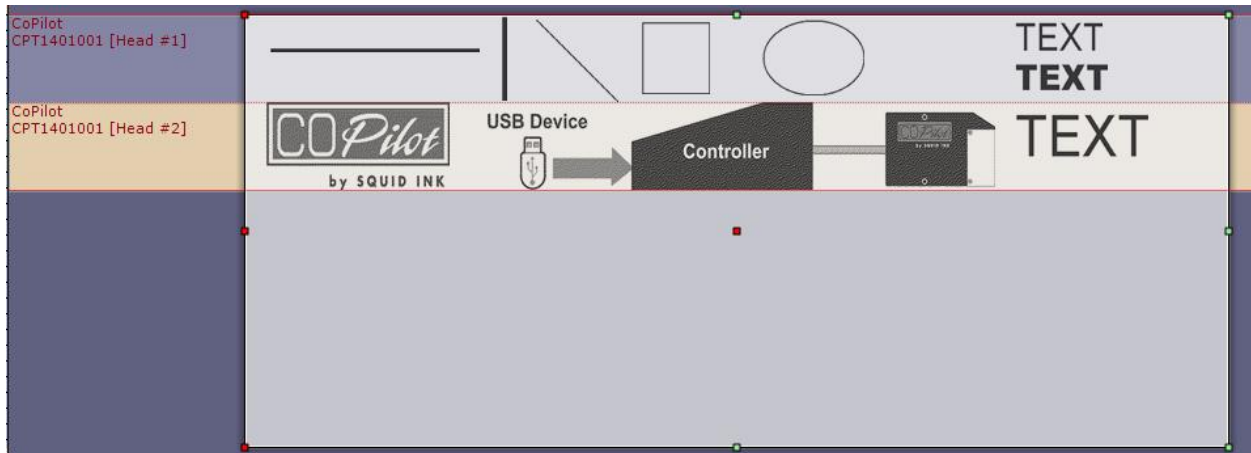


When the new graphic is placed in the message use the selection handles to resize and/or position the graphic.

Here are some examples of graphic elements placed in a message.



Example of Text and Graphics in Jetline Dot Matrix Printer Message

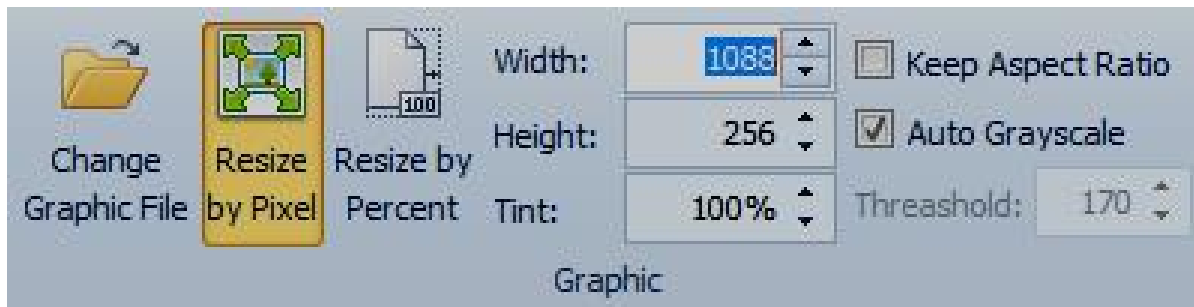


Example of Text and Graphics in CoPilot Two Head Printer Message

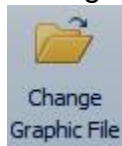
Image File Tools

The size and to some extent the quality of a graphic image can be altered in Orion.

Note: Please keep in mind that a graphic in Orion will never be better than the originally imported artwork.



Change Graphic File:



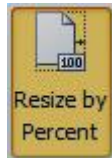
Retrieve an image file that will replace the currently selected graphic.

Resize by Pixel:



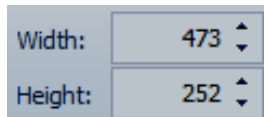
Width and height will be displayed and changed by Pixels.

Resize by Percent:



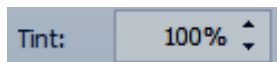
Width and height will be displayed and changed by percent (%).

Height/Width:



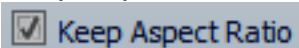
Height and width of a selected graphic displayed in number of pixels or as a percentage, also used to change the height and width of the selected graphic.

Tint:



Use %Tint+ to put down less ink and print a lighter image. It works well with solid black and white images. Lower tint values will adversely affect the quality of grayscale and halftone graphics.

Keep Aspect Ratio:



values is changed.

When this box is checked the height and the width of the selected graphic will scale proportionately when one of the

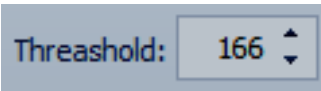
Auto Grayscale:



generally be the best quality.

When this box is checked the image is converted to a grayscale image when placed in the message. This will

Threshold:



the more gray areas will be interpreted as black. The lower the threshold more of the gray areas will be interpreted at white. Threshold can be used to try and improve a graphic. Please keep in mind that a poor original graphic will probably not improve using the %threshold+tool.

Threshold is available when %Auto Grayscale is not checked. Threshold will increase and decrease the black and white contrast of the selected image. The Higher the threshold value

A General Note about Image Quality

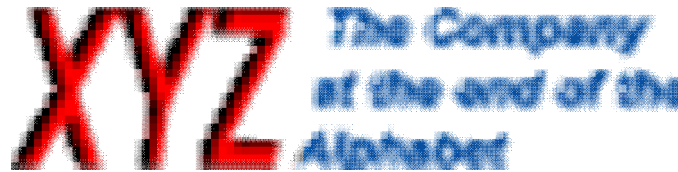
While the Orion[®] software package can handle a variety of image types it will not take a poor piece of artwork and make it look good. Best results can be had by using an original graphic that is a 300 dpi black and white image. A lower resolution can be used but quality begins to deteriorate at lower resolutions.

For example, XYZ Company has a very nice logo that has been professionally created at a hi-quality resolution (300 dpi).



Original Artwork at 300 dpi

The company of course begins using the logo on its web site, business cards and letterheads. XYZ Company would like to include their logo in messages created using Orion[®] and printed with a CoPilot printer. The well-meaning operator creating the message opens XYZ Company's web-site and copies the logo from the web-site then inserts it into the message.



72 dpi Artwork

Now there are two problems here.

One: The logo from the web site is dimensionally much too small.

Two: The screen resolution is 72 dpi which is much too low.

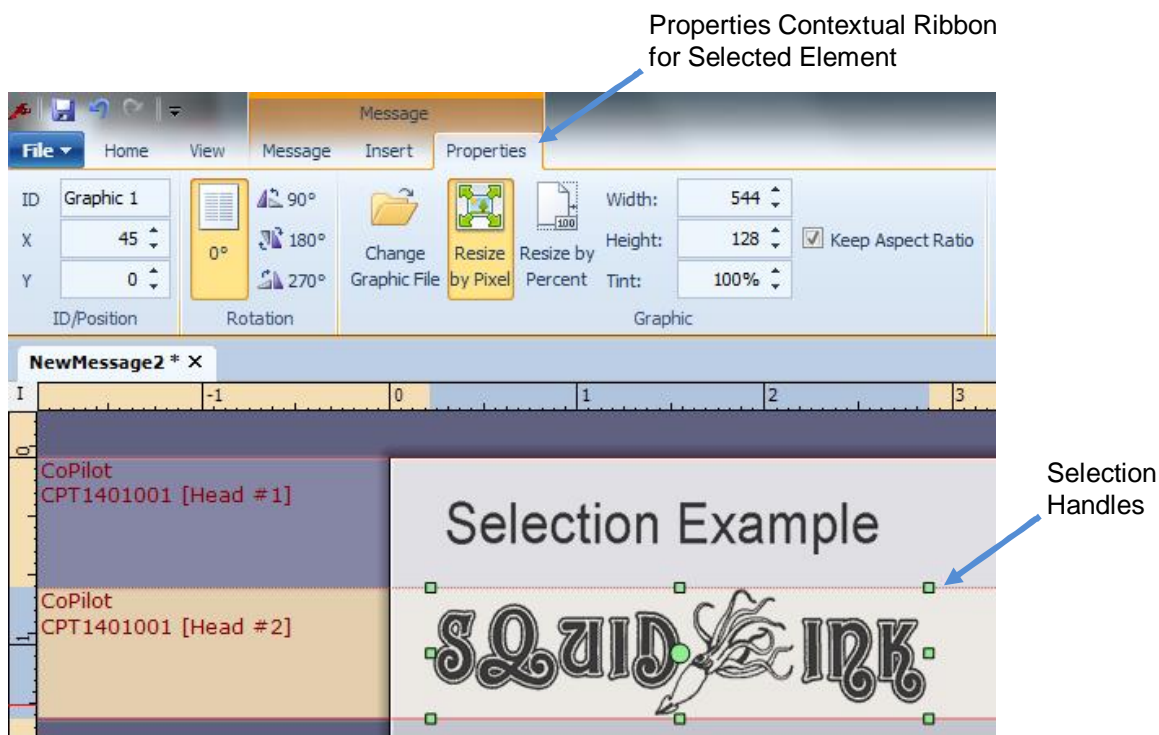
Suppose then, in an effort to correct the problem our well-meaning operator opens the logo in a graphics or illustration program and saves it as a bitmapped 300 dpi image then reinserts it into the Orion[®] message and is once again disappointed with the results. Don't do this. The only thing achieved by blowing up a small low resolution image is to make a poor image into a much larger poor image.

What have we learned?

The old saying "You can't make a silk purse from a sow's ear" tends to be true. The Squid Ink Manufacturing CoPilot series of printers will reproduce quality graphics only if a quality graphic is sent to the printer. Be aware of the resolution and size of the image being used by the printer. When possible use original artwork that is larger both dimensionally and in resolution then reduce it to the appropriate size in Orion[®].

Element Manipulation

Select an element by mouse clicking the element in the message. Selection handles will appear around a selected element. The **Properties** contextual ribbon for the selected element will also display.



Click and drag the selection handles to resize the selected element.

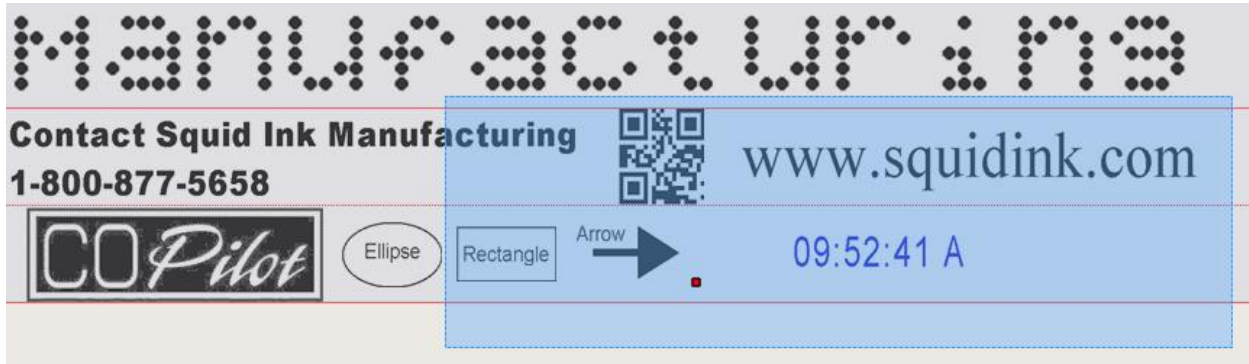
Click and drag on the selected element itself to move the element in the message.

Hold the **Control**+ key while clicking and dragging the element to copy the selected element to a new location on the message.

Selecting Multiple Elements

To select more than one element press the %Shift+ key while mouse clicking on additional elements.

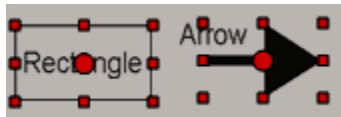
You can also select multiple elements by clicking and dragging the mouse pointer to create a light blue selection box. All elements contained or partially contained in the selection box will be selected.



Element Selection Box



The first element selected will display green selection handles.



Any subsequent elements selected will have red selection handles.

For purposes of alignment and spacing the selected elements will key on the element with the green selection handles.

Clipboard Group



The %Clipboard+group contains some normal functions for cutting, pasting and manipulating selected elements.

Undo:



Select the %Undo+icon to undo a previous command. This is a good tool if you have deleted elements by mistake.

Redo:



%Redo+will redo the previous command.

Paste:



Use the %Paste+icon to paste a copied or cut element into the message.

Cut:



Cut an element or group of selected elements from the message and save in the temporary clipboard. Use %Paste+ to reinsert a cut element back into a message.

Copy:



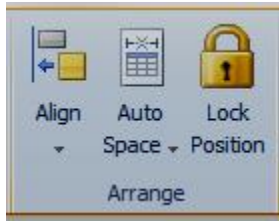
Select the %Copy+ icon to copy a selected element into the temporary clipboard. Use %Paste+to inset the copied element into a message.



Delete:

Select the %Delete+icon to delete selected elements from the message. Don't forget, there is an %Undo+tool!

Arrange Group

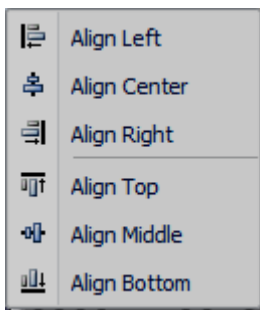


The **Arrange+** group contains tools to align, auto-space and lock selected elements.

Align:



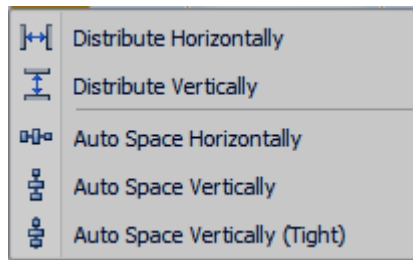
Use the alignment tool for aligning multiple elements.



Auto Space:



Use **Auto Space+** to evenly space a number of selected elements.



Lock Position:



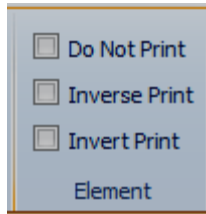
Lock Position+ will lock a selected element's position so it can't be moved. To lock an element's position, select the element and mouse click the **Lock Position+** icon. When an element is locked a small lock icon will appear with the element in the message editor.



Example of "Locked" Elements

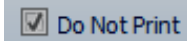
To unlock a locked element, select the locked element and click on the **Lock Position+** icon. The locked element will then become available for moving.

Element Group



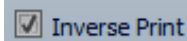
The `%Element+group` is used to affect how selected elements will print.

Do Not Print:



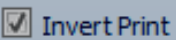
Check this box to keep a selected element in the message without printing it.

Inverse Print:



Check this box to print the selected element's background but not the content.

Invert Print:



Check this box to print the selected element upside down (flip vertically).

User Data

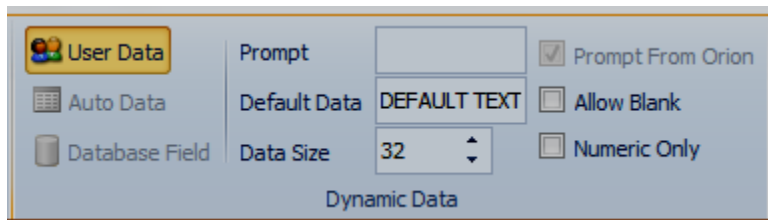
User Data is useful if you have a message containing several elements but one or two need to change occasionally. The data can be changed each time the message is sent to the printer. User Data can be used when inserting Text and Barcode elements. Text and Barcode elements containing User Data will display as blue on the Orion® message creation screen.

Assigning User Data to a Text Element

To create a text element with User Data select **%Text+** from the Insert ribbon or right mouse click on the substrate location where you would like to place the text and select **%Create Text Here+**.



In the **%Text Properties+** ribbon, select **%User Data+**.

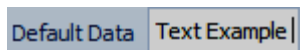


The **%Dynamic Data+** properties group will be displayed.

Prompt:

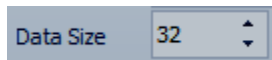
Enter the name for the User Data text here. If this box is left blank the prompt will be displayed as **%Text 1+**.

Default Data:



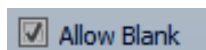
Enter the text that will be displayed as the default text here.

Data Size:



This is the maximum number of characters allowed in the text string. Use the arrow buttons to increase or decrease the size of the text string or enter the desired number of characters in the **%Data Size:** box. The default is 32 characters.

Allow Blank



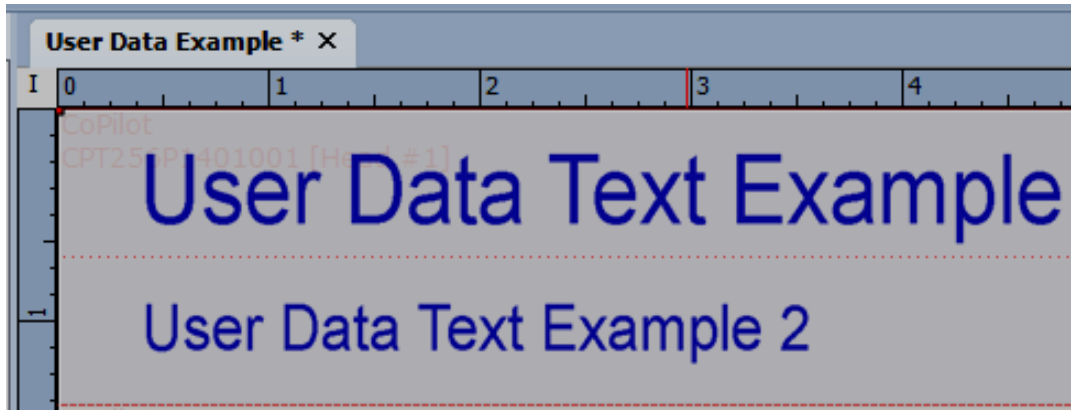
Checking the **%Allow Blank+** box will allow the user to leave the User Data text box blank.

Numeric Only

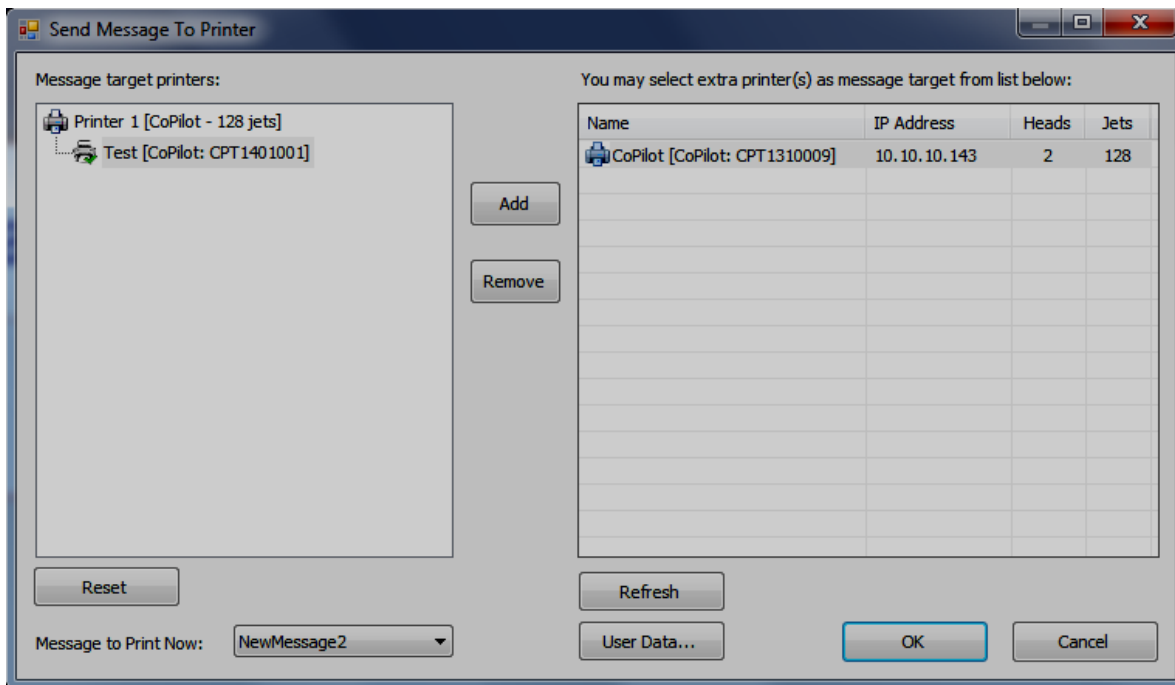


When the **Numeric Only** box is checked only the numeric characters 1 thru 9 can be entered in the User Data text box.

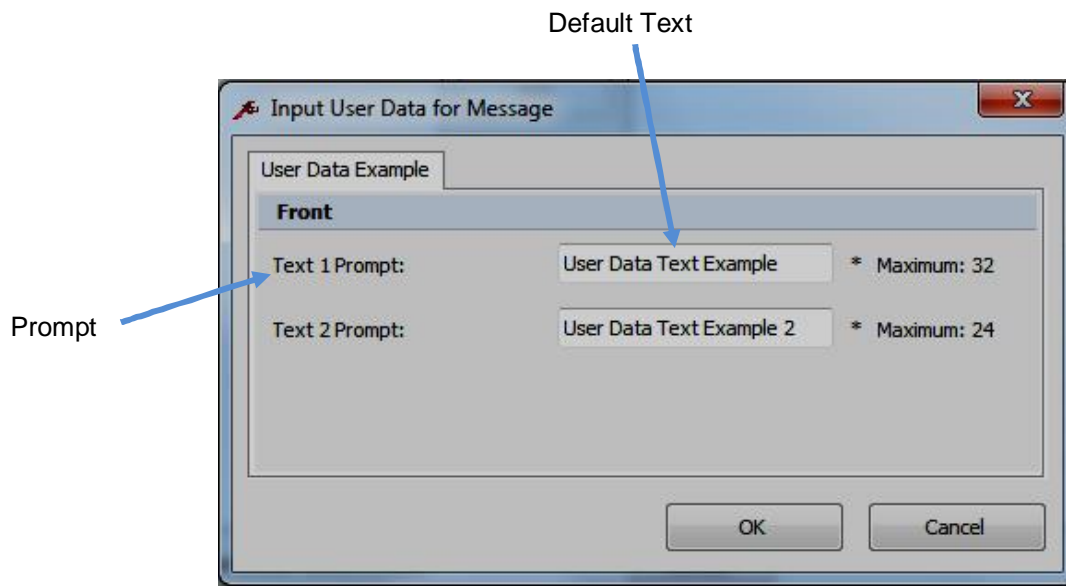
The text string will display on the Orion[®] message creation screen in blue.



Go to the **Message** ribbon tab and select **Send to Printer** in the Tools Group.

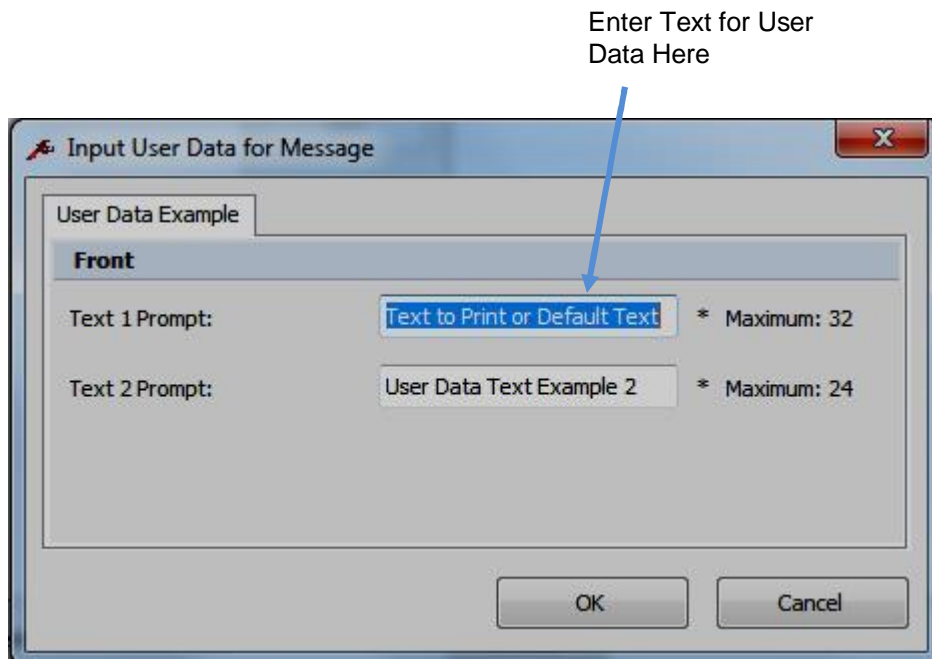


In the **Send Message To Printer** window select **User Data** + or **OK**. Because the message now contains User Data the **Input User Data for Message** window will open.



The first time the **Input User Data for Message** window is opened it will display the text string previously defined as default text.

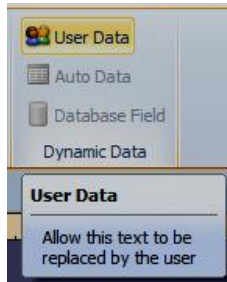
In the **Input User Data for Message** enter the text to be printed. Text can be added to the default text string or the default text can be replaced with new text.



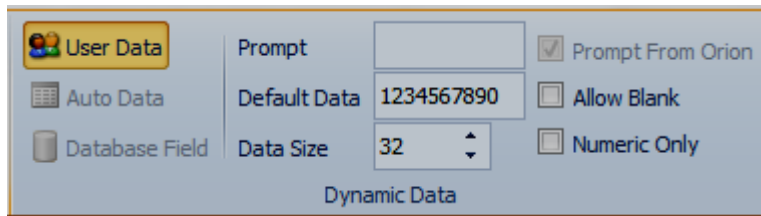
Select **OK** and you will be returned to the **Send Message To Printer** window.

Assigning User Data to a Barcode Element

To create a Barcode element with User Data select **Barcode** from the Insert ribbon or right mouse click on the substrate location where you would like to place the barcode and select **Create Barcode Here**.



In the **Barcode Properties** ribbon, select **User Data**.



The **Dynamic Data** properties group will be displayed.

Prompt:

Enter the name for the User Data barcode here. If this box is left blank the prompt will be displayed as **Barcode 1**.

Default Data:

Default Data 1234567890

Enter the data that be displayed as the default data here.

Data Size:

Data Size 32

This is the maximum number of characters allowed in the data string. Use the arrow buttons to increase or decrease the size of the text string or enter the desired number of characters in the **Data Size:** box. The default is 32 characters.

Allow Blank

Allow Blank

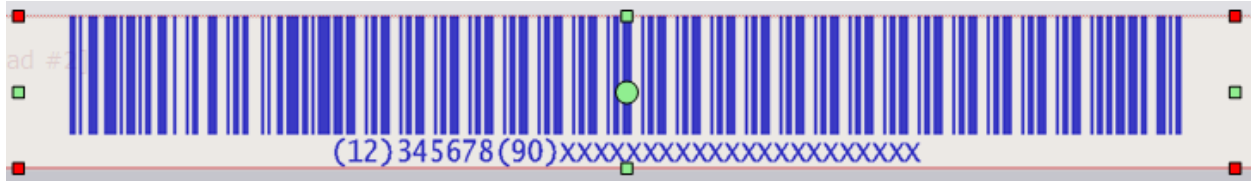
Checking the **Allow Blank** will allow the user to leave the data string empty.

Numeric Only

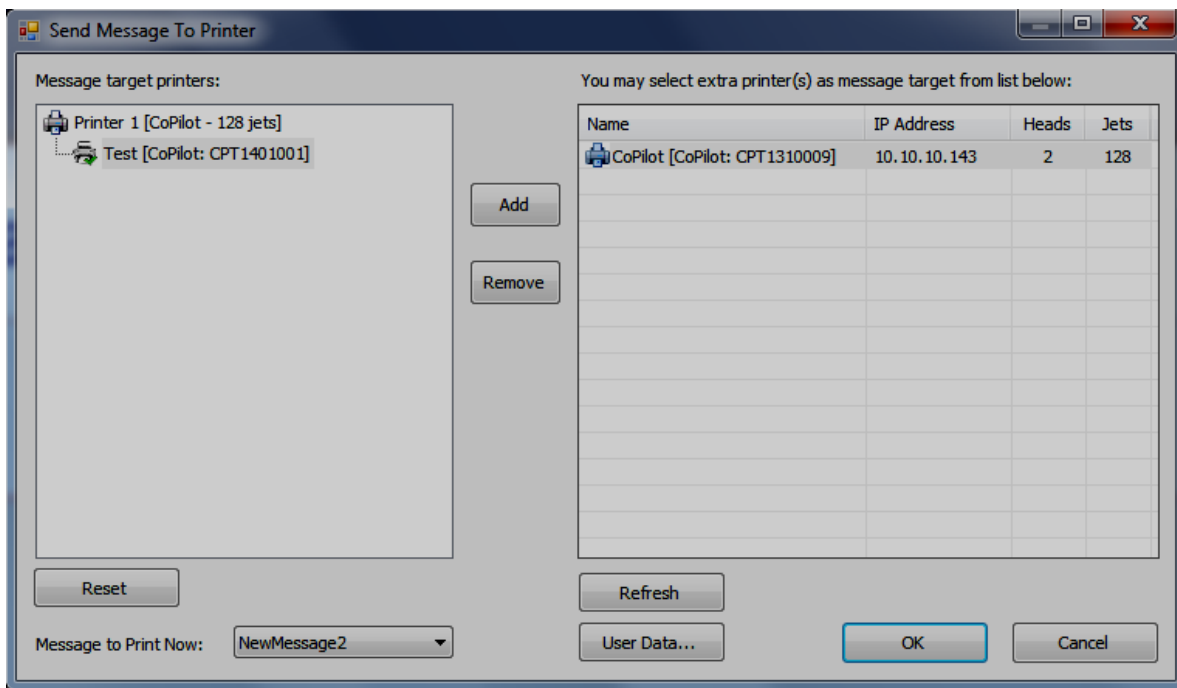
Numeric Only

When the **Numeric Only** box is checked only the numeric characters 1 thru 9 can be entered in the User Data box.

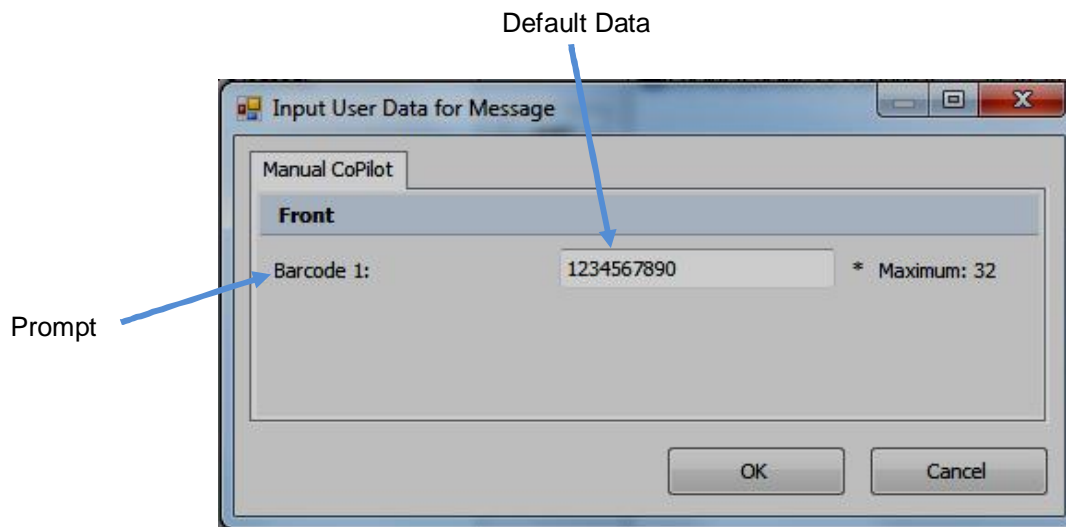
The Barcode Data string will display on the Orion[®] message creation screen as blue.



Go to the **Message** ribbon tab and select **Send to Printer** in the Tools Group.

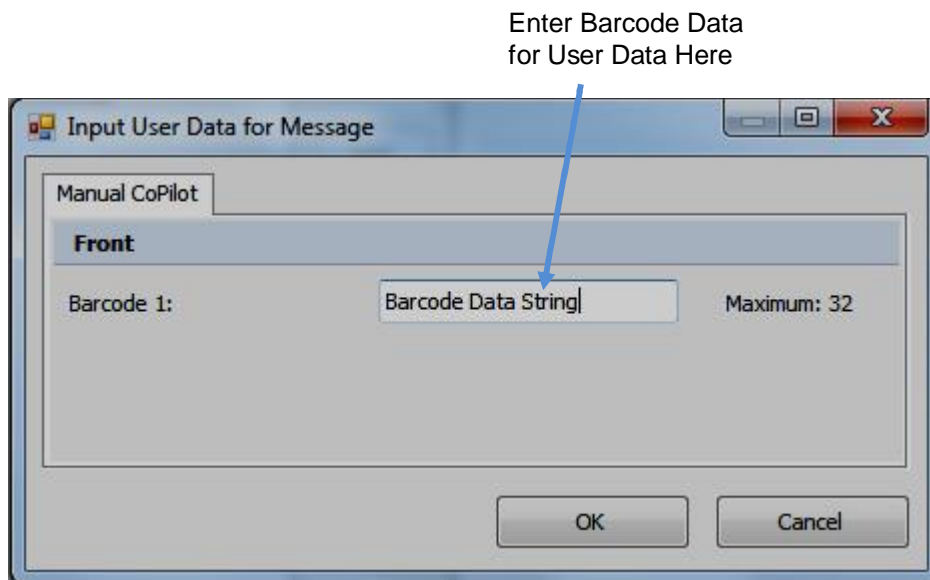


In the **Send Message To Printer** window select **User Data** or **OK**. Because the message now contains User Data the **Input User Data for Message** window will open.

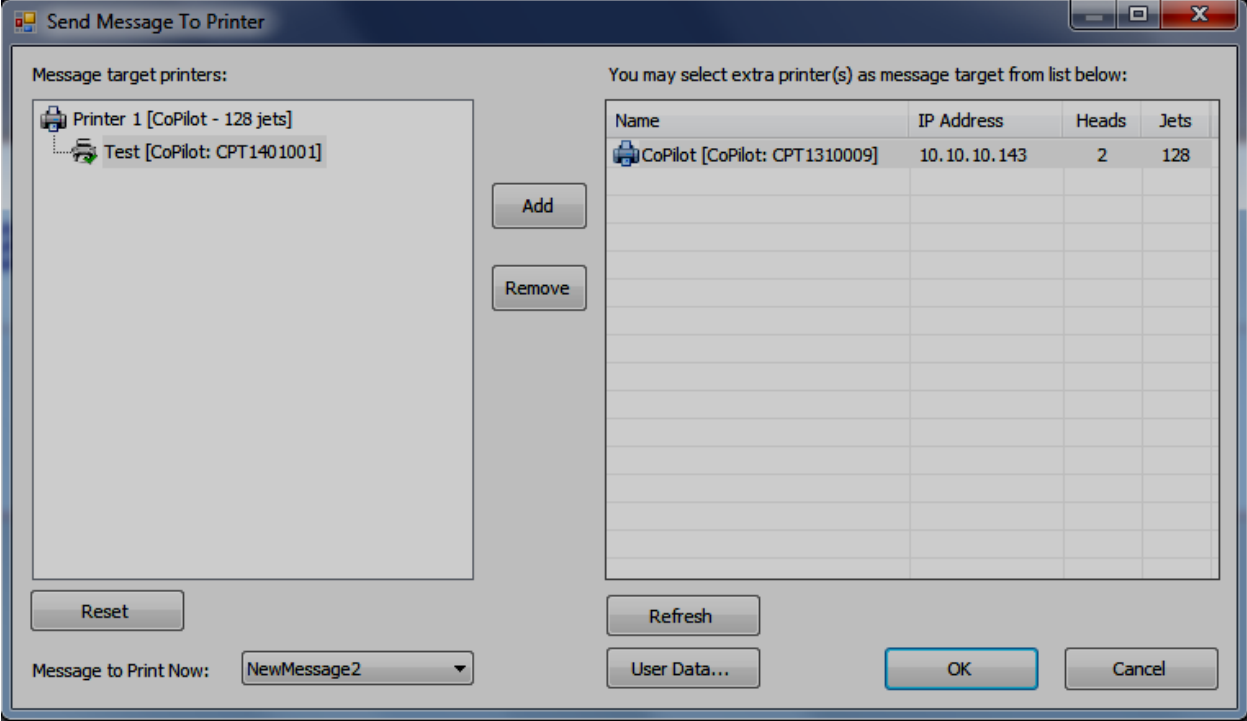


The first time the %Input User Data for Message+window is opened it will display the text string previously defined as default text.

In the %Input User Data for Message+enter the text to be printed. Text can be added to the default text string or the default text can be replaced with new text.



Select %OK+and you will be returned to the %Send Message To Printer+window.



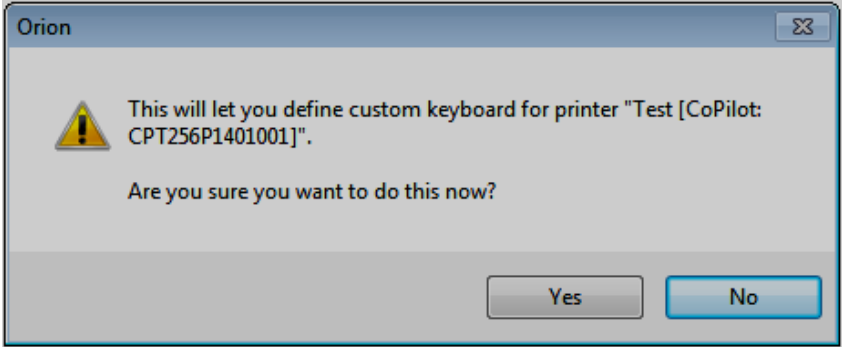
Select **OK** in the **Send Message To Printer** window and the message containing the User Data will be sent to the assigned and connected printers ready for printing.

Custom Keyboards

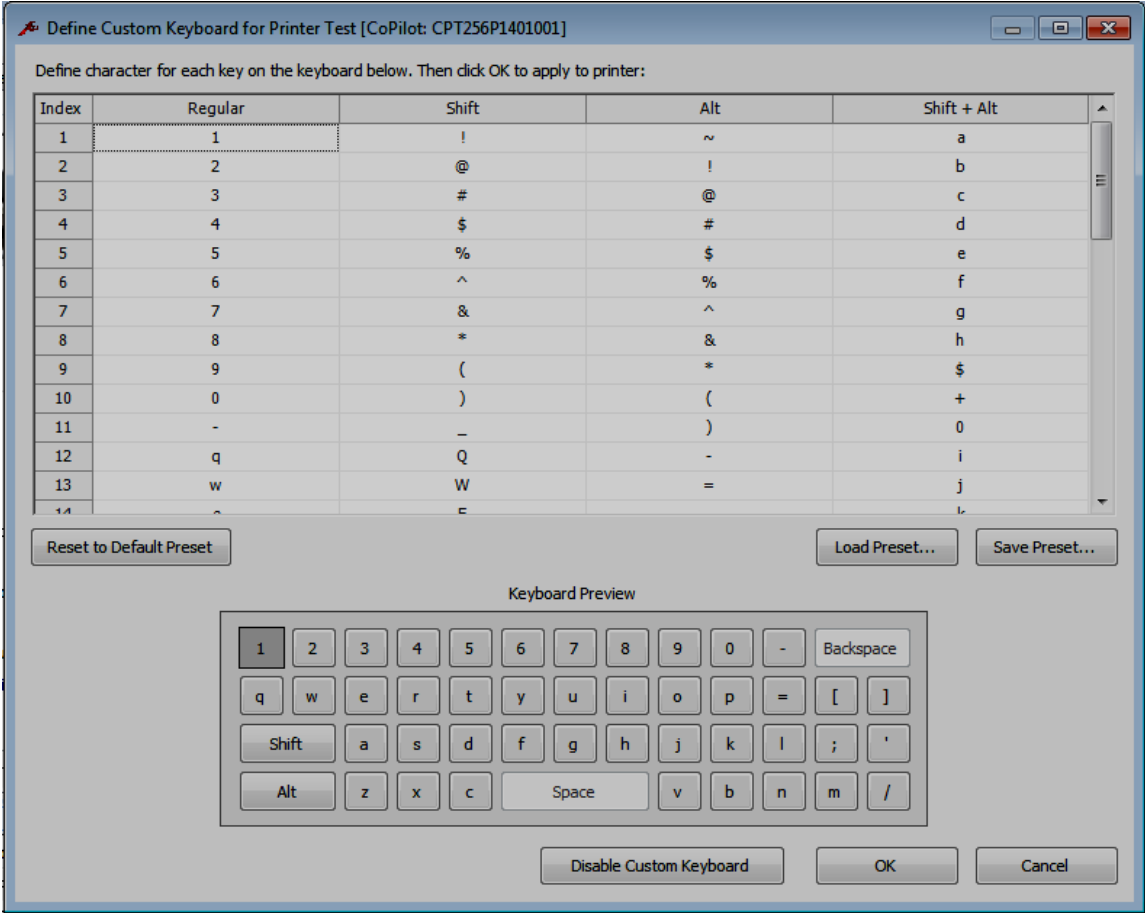
A custom keyboard can be created to associate with a specific message that contains user data. When creating a custom keyboard any character can be substituted for the standard keyboard characters.



The Custom Keyboard Icon is available in the %Tools+ Group when the Configure Printer window is open for a specific printer. Select the %Custom Keyboard+ Icon and you will be prompted if you want to define a custom keyboard for the selected printer.



Select "Yes" to open the Define Custom Keyboard window.



In the Define Custom Keyboard window you can define characters for each key on the keyboard.

Notice the column headings are for **Regular**, **Shift**, **Alt**, and **Shift + Alt** characters.

Regular	Shift	Alt	Shift + Alt
---------	-------	-----	-------------

To change a character, select a key and enter the Custom Character in that key location.

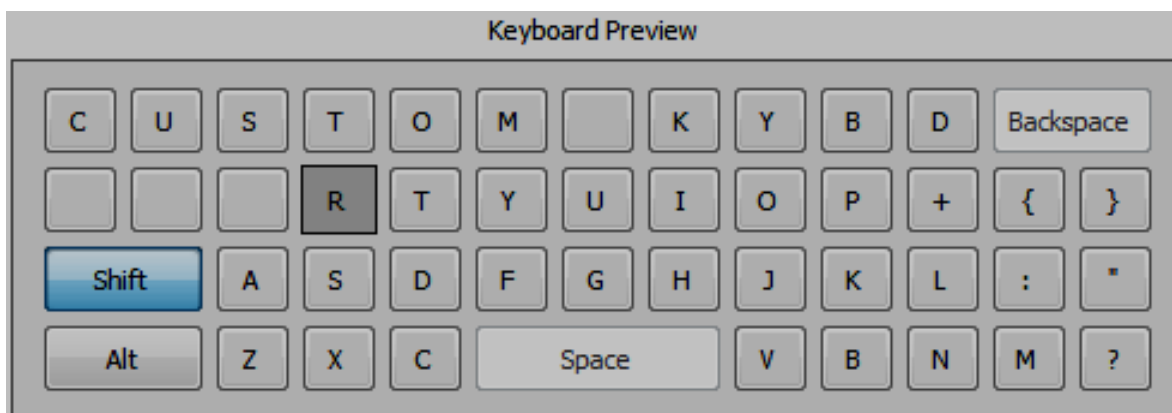
In the example below some of the regular number keys and shift keys have been replaced.

Define character for each key on the keyboard below. Then click OK to apply to printer:

Index	Regular	Shift	Alt	Shift + Alt
1	S	C	~	a
2	Q	U	!	b
3	U	S	@	c
4	I	T	#	d
5	D	O	\$	e
6		M	%	f
7	I		^	g
8	N	K	&	h
9	K	Y	*	\$
10		B	(+
11	-	D)	o
12	q		-	i
13	w		=	j
14	~			~

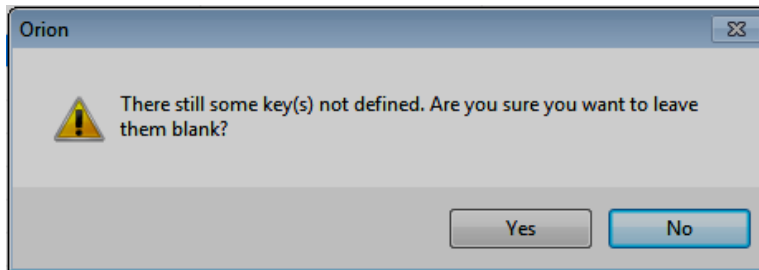
New Characters Entered in Keyboard Map

The character changes will appear in the %Keyboard Preview%:

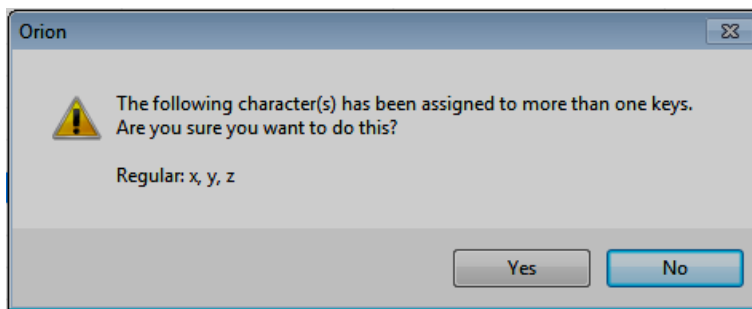


Keyboard Preview

After the custom characters have been defined select **“OK”**. If there are undefined keys on the keyboard you will be prompted if you would like to leave them blank. Select **“Yes”** to continue or **“No”** to go back and define the empty keys.

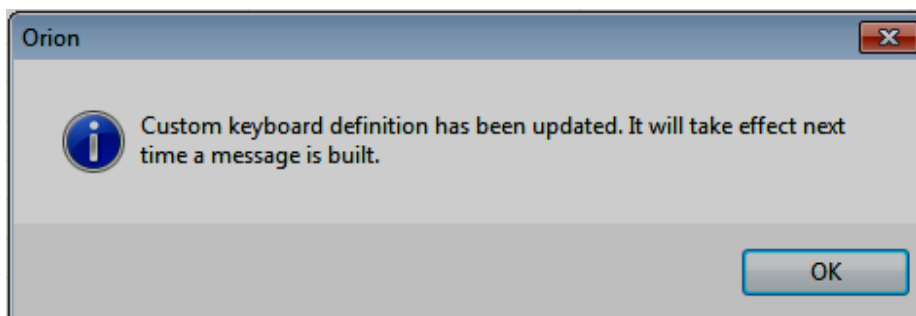
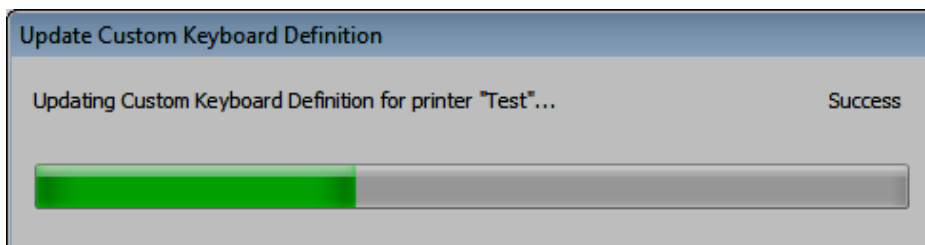


If the same character has been assigned to duplicate keys you will be prompted if this is what you really want to do.



Select **“Yes”** to continue or **“No”** to go back and redefine the duplicate keys.

A progress window will display while the custom keyboard is sent to the printer. If new fonts are downloaded the printer will automatically reboot when the transfer is complete.

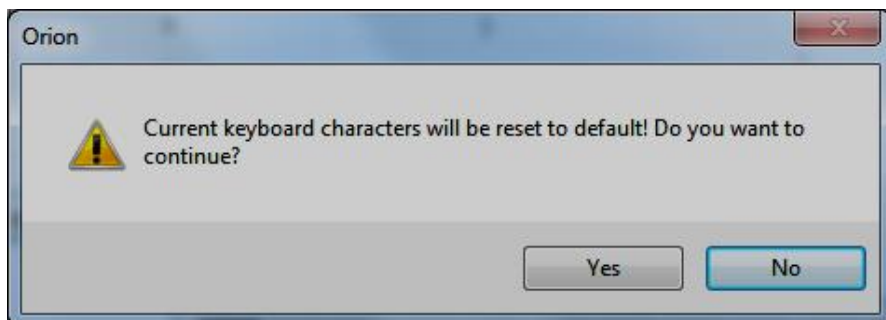


After the custom keyboard has been updated select **“OK”**.

Reset to Default Preset

This will reset the keyboard to the default values.

If you select **“Reset to Default Preset”** you will be prompted if this is what you really want to do.



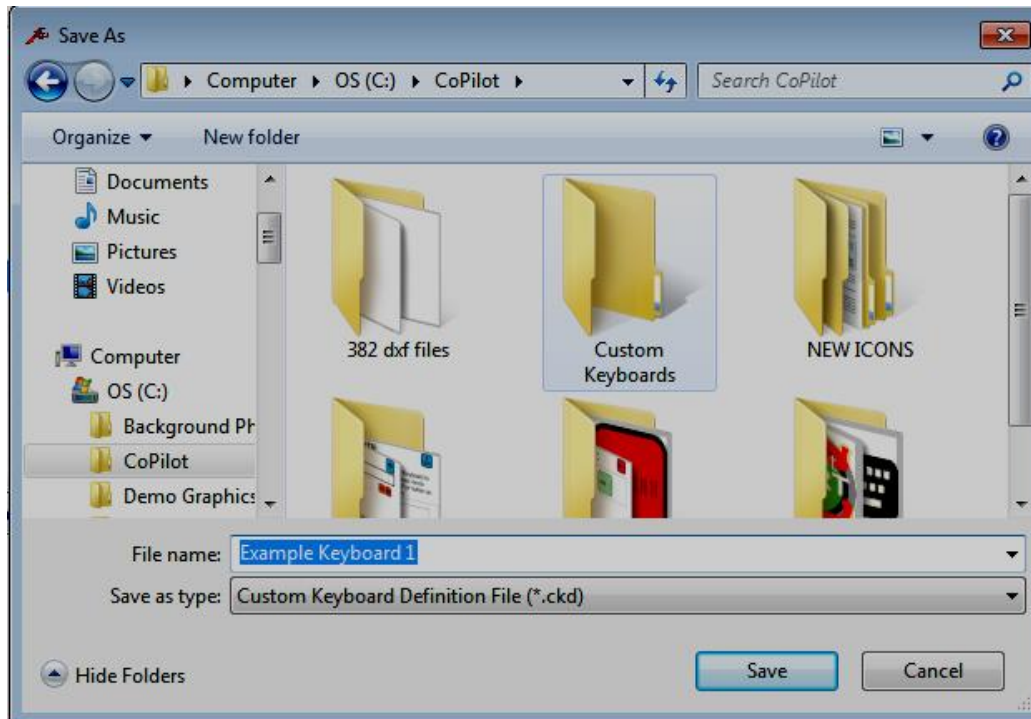
Select **“Yes”** and the keyboard will reset to the default values.

Save Preset...

After the keyboard characters have been defined select **%Save Preset...+** to open a standard navigation window.

The navigation window will open to the default location:

C:\Squid Ink\Orion\Custom\Keyboard. To use another location, select a different name and location to save the new custom keyboard.

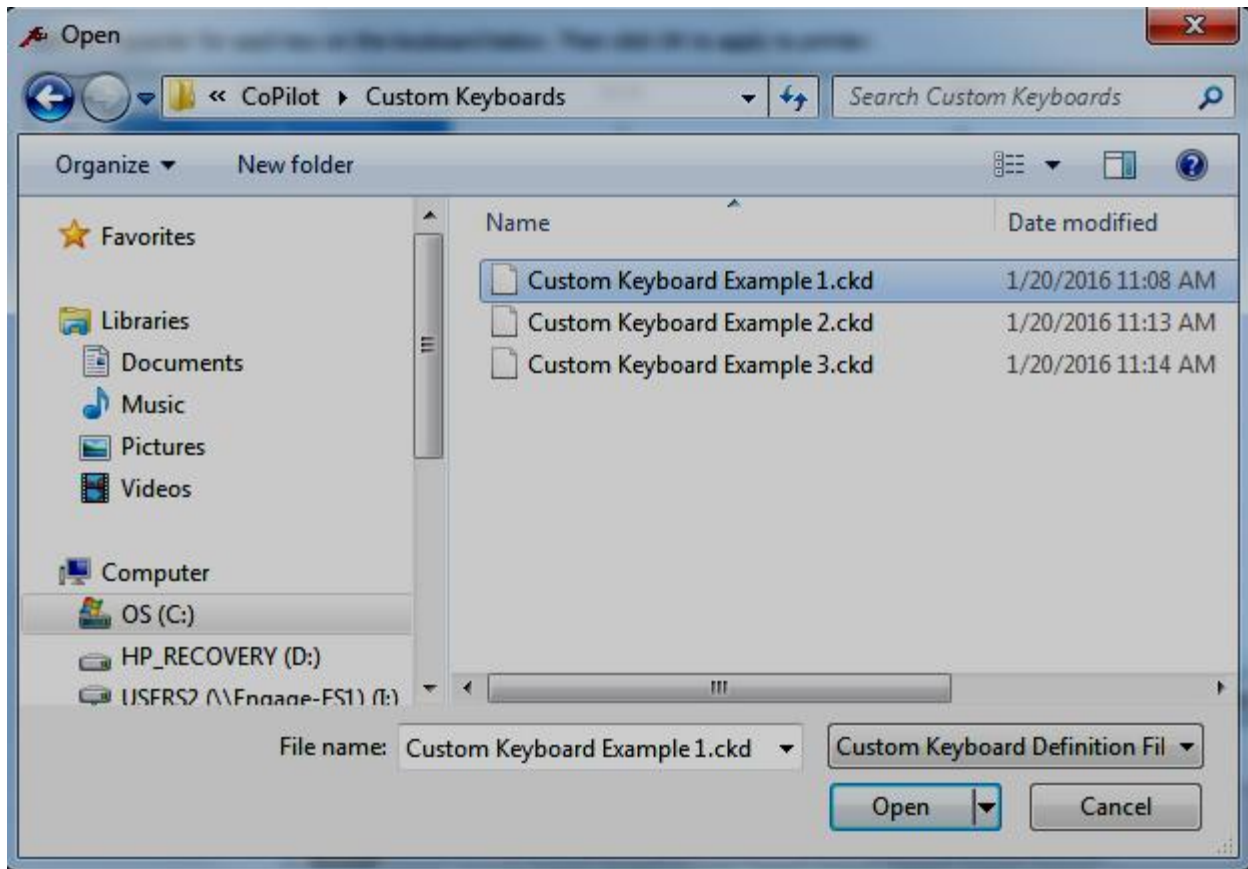


Select **“Save”** to save the custom keyboard.

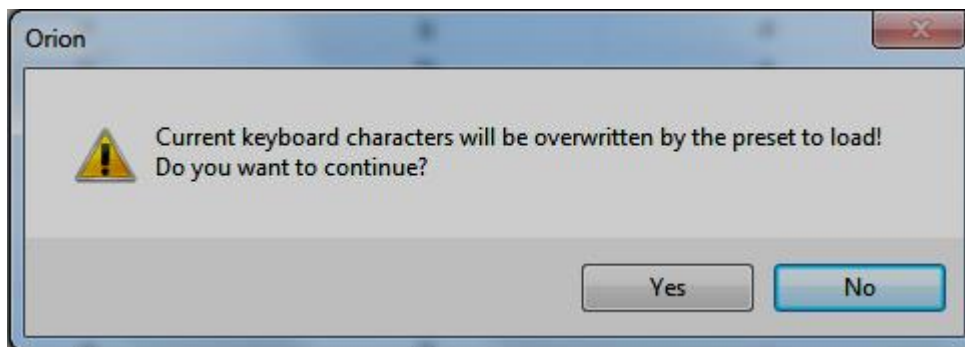
Note: The default location for saving a custom keyboard is *C:\Squid Ink\Orion\Custom\Keyboard*




To load a previously created custom keyboard select “**Load Preset...**”.



Highlight the desired keyboard from the list at the stored location and select “**Open**”.

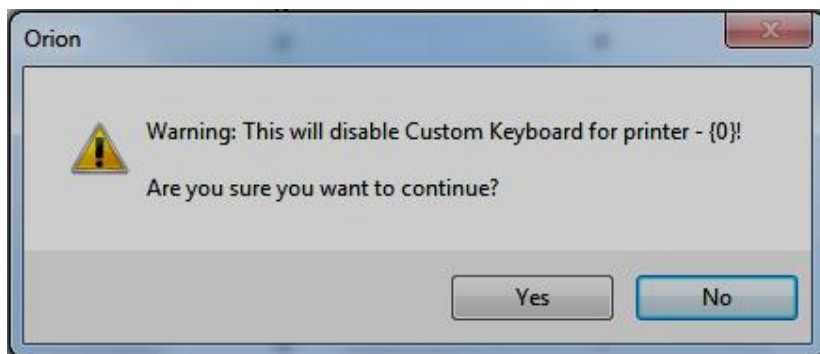


You will be prompted if you want to overwrite the exiting keyboard. Select “**Yes**” to load the selected custom keyboard.

A rectangular button with a blue border and a light blue background, containing the text "Disable Custom Keyboard" in a dark blue font.

Selecting “**Disable Custom Keyboard**” will disable the custom keyboard and send the standard keyboard to the printer.

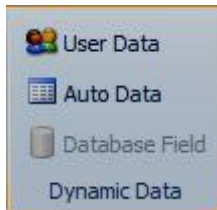
When you select **Disable Custom Keyboard**, you will be prompted if this is what you really want.



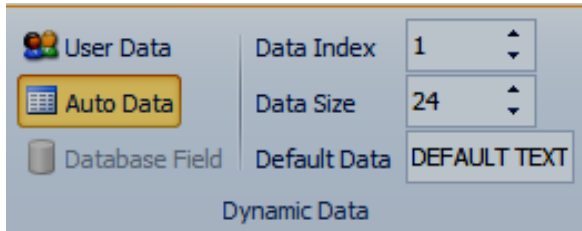
Select “**Yes**” to disable the custom keyboard and send the standard keyboard to the printer.

What is the difference between **Disable Custom Keyboard** and **Reset to Default Preset**? **Disable Custom Keyboard** will send the standard keyboard to the printer but it will not change the current custom keyboard in Orion. **Reset to Default** will reset the current keyboard you are creating to the default values.

Auto Data

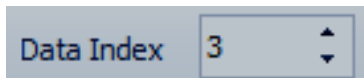


Selecting **%Auto Data+** causes the object you are editing (text, barcode or graphic) to become sensitive to external data from a database.



Typically, the **%Default Data+** text string that you type for the object is a default text that is shown as a place holder, such as the name of the database field. Text entered in the Default Data box can also be printed before any Auto Data is sent to printer.

The procedure for using Auto Data, in brief, is as follows. Enable Auto Data for all objects in your message file whose string you want to be fed from external application like (a typical example is an application retrieving data from a database then send to printer to print). Send your message file over the Ethernet to the printer. Run your application and start sending data to printer through TCP command. (See more details in **%Write AutoData Record+** command in your printer's **Communication Manual**)



When you first enable Auto Data in the Attributes dialog, Orion[®] will place the next available Auto Data index into the **%Index+** field. You may then change that value if you wish.

The indexes you use for Auto Data objects must run consecutively from 1 to the total number of Auto Data objects in your message. They must also have the exact order that your data fields occur in each record. For example, if you are printing addresses with the fields **%Name+**, **%Address+** and **%City+** occurring in that order in your database, then you might create three text objects, designate them with the string values **%Name+**, **%Address+** and **%City+**, and enable them for Auto Data giving them index values 1, 2, and 3, respectively

One Shot Mode

When a message is configured for Auto Data and One Shot Mode is selected, the printer will not use the queue when it receives an Auto Data record. This means that if the printer has received a record but hasn't printed it yet, the next record will overwrite the current record instead of being placed in the queue.

Repeat Mode

When a message is configured for Repeat Mode, it will be printed repeatedly as long as the trigger is active. The Length specifies how often the message is repeated (based on the selected Unit). The Quantity specifies the total number of times it is printed. Repeat Mode is often used when printing on long substrates and extruded material. In order to print a continuous line, you have to set the Repeat Length to 1 column longer than the length of data being printed. This causes the printer to repeat as soon as it's finished with the first print. Orion simply sets the required values eliminating the need to figure out how long the message is and what the Length value should be.

Note: Repeat mode and Auto Data One Shot Mode should never be used together therefore they are mutually exclusive.

Database Message Server

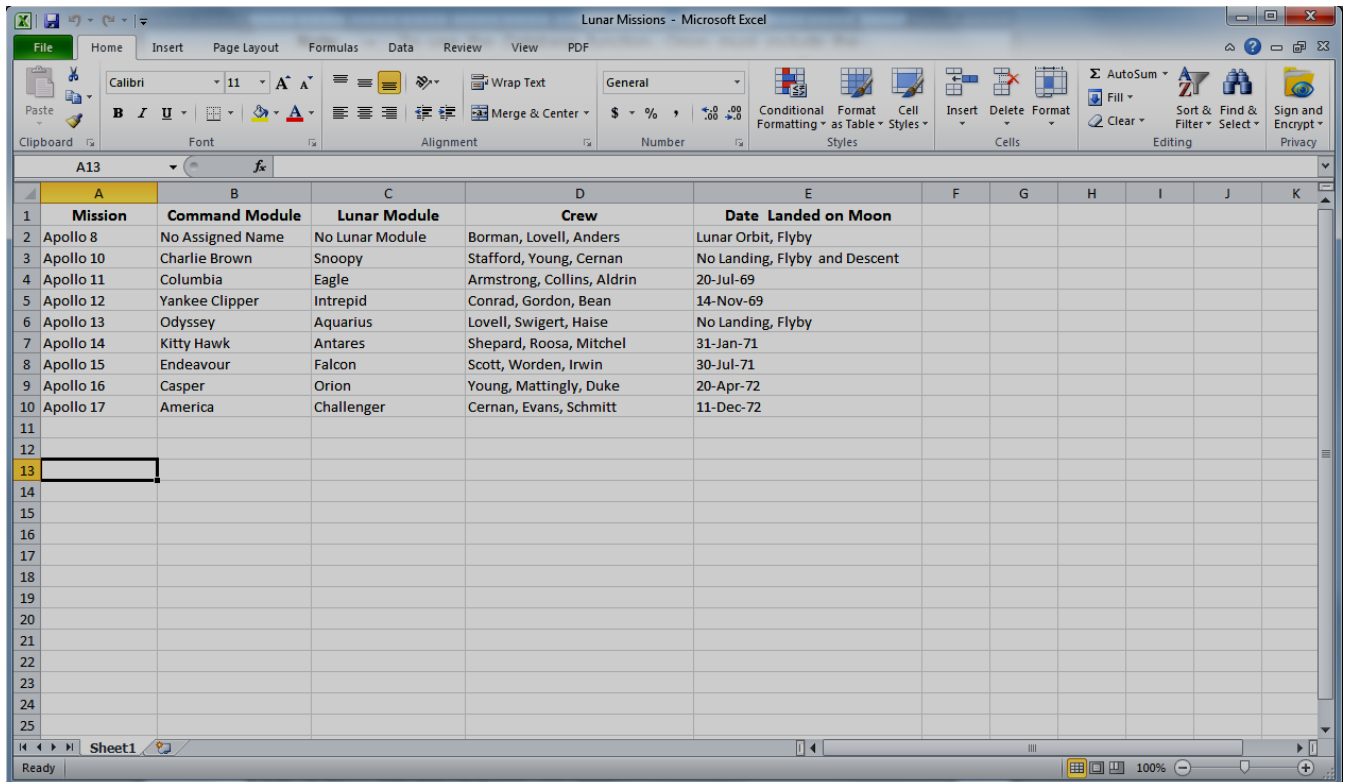
The Database Message Server is an Orion message creation function that is used to create dynamic messages from a template and sent to the printer(s). The message is populated with data retrieved from a predefined database table.

Note: To use the Database function, Orion must include the optional Database Message Server Feature License.

Example Database

To illustrate how the Orion Database server is used I have created a very simple Microsoft Excel worksheet.

From the late 1960s to the early 1970s the United States sent nine expeditions to the moon. Here is a simple worksheet containing some information about those lunar missions.

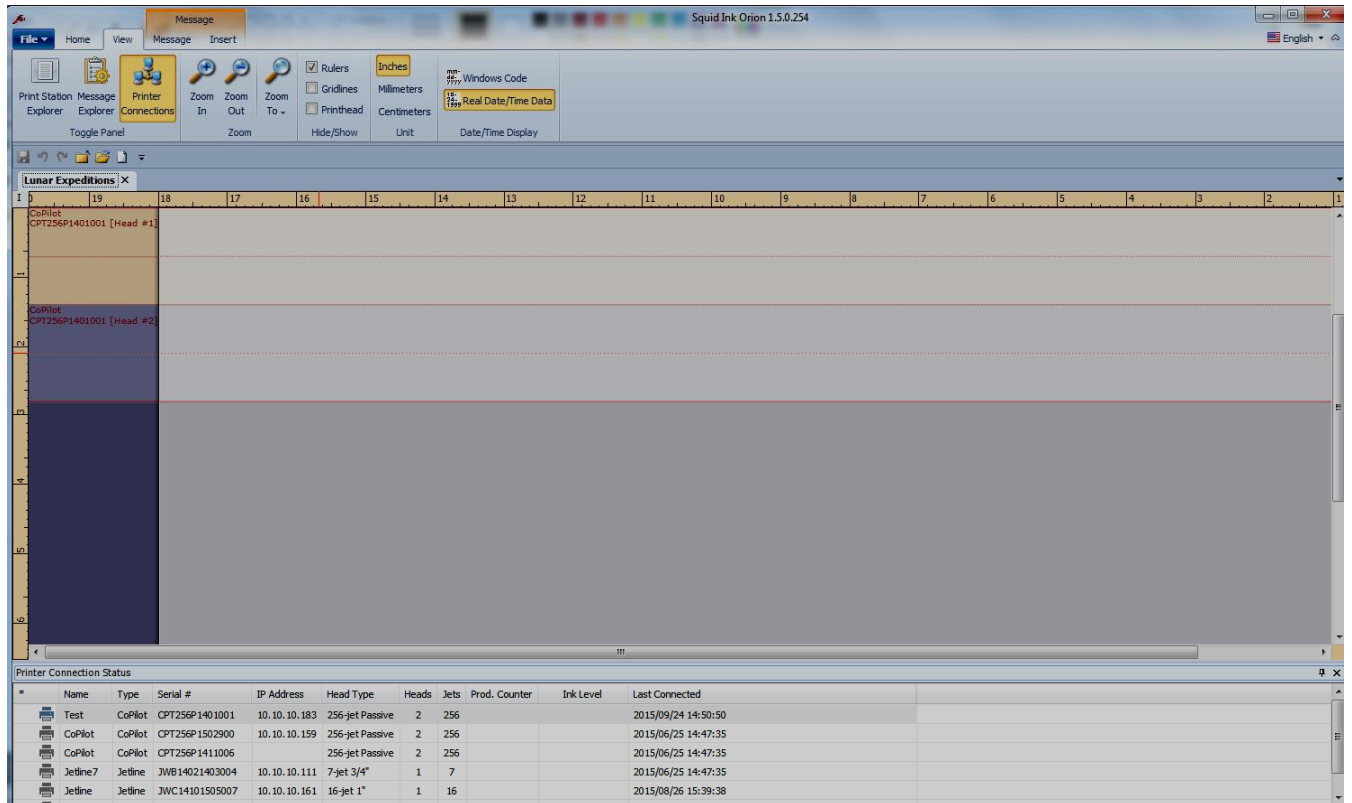


	A	B	C	D	E	F	G	H	I	J	K
1	Mission	Command Module	Lunar Module	Crew	Date Landed on Moon						
2	Apollo 8	No Assigned Name	No Lunar Module	Borman, Lovell, Anders	Lunar Orbit, Flyby						
3	Apollo 10	Charlie Brown	Snoopy	Stafford, Young, Cernan	No Landing, Flyby and Descent						
4	Apollo 11	Columbia	Eagle	Armstrong, Collins, Aldrin	20-Jul-69						
5	Apollo 12	Yankee Clipper	Intrepid	Conrad, Gordon, Bean	14-Nov-69						
6	Apollo 13	Odyssey	Aquarius	Lovell, Swigert, Haise	No Landing, Flyby						
7	Apollo 14	Kitty Hawk	Antares	Shepard, Roosa, Mitchel	31-Jan-71						
8	Apollo 15	Endeavour	Falcon	Scott, Worden, Irwin	30-Jul-71						
9	Apollo 16	Casper	Orion	Young, Mattingly, Duke	20-Apr-72						
10	Apollo 17	America	Challenger	Cernan, Evans, Schmitt	11-Dec-72						
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Sample Database File

Create a Template Message

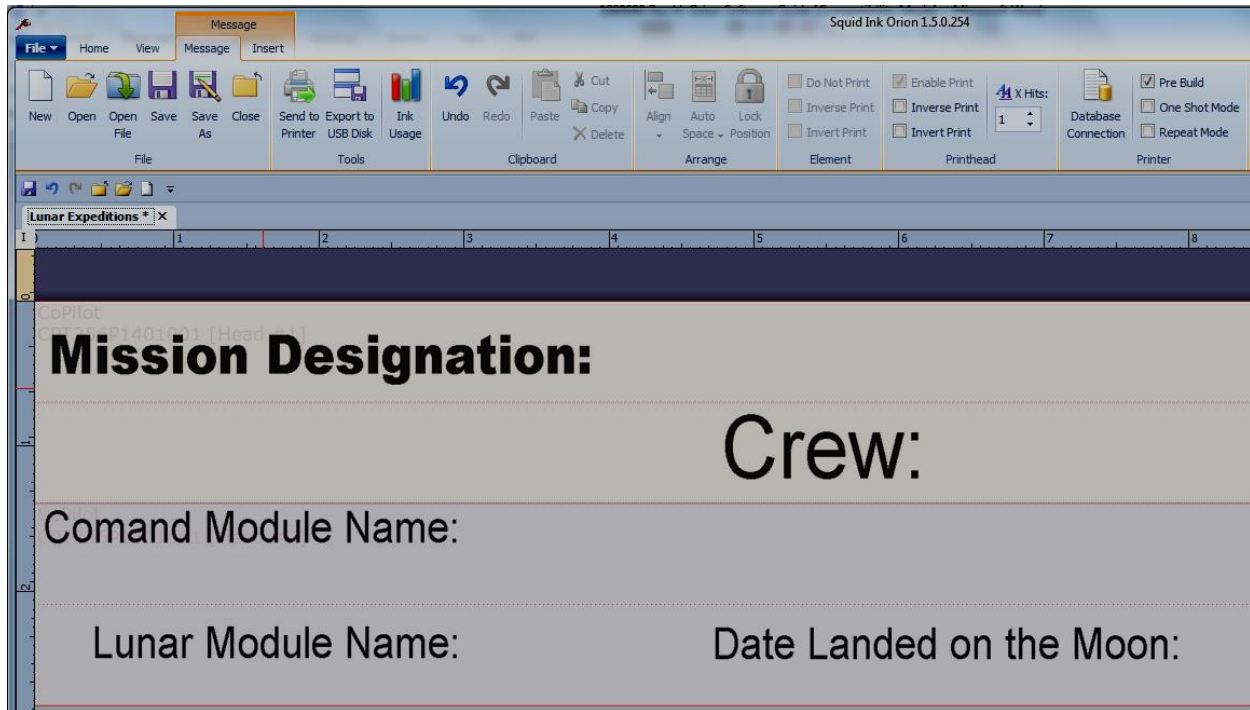
Launch Orion in the normal fashion and create a new message. As an example I'm going to create a new message called %Lunar Expeditions+.



Orion™ Message Creation Screen

In the above example the message has been created for the CoPilot Printer with two 256 printheads.

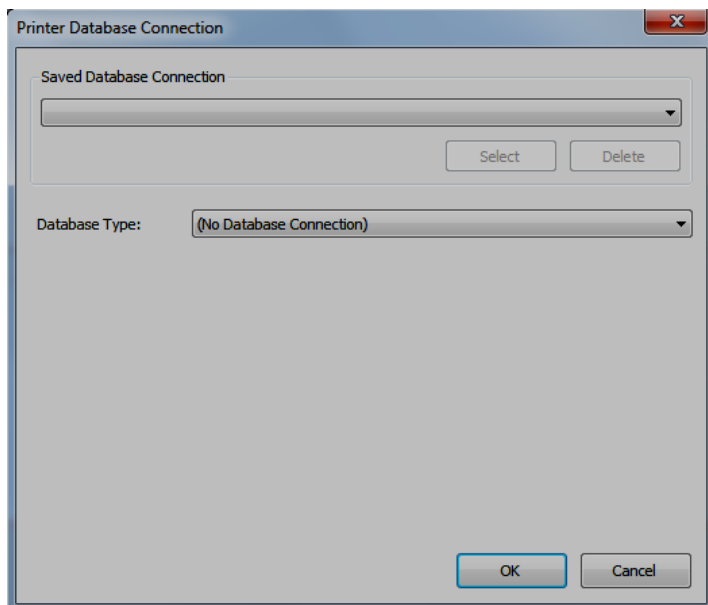
Create the static elements for the message. In this example I have created some static text in the message.



Create a Database Connection

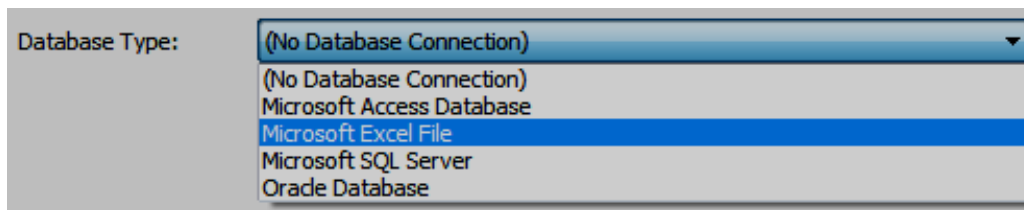


Select the Database Connection+ icon to open the Printer Database Connection+screen.



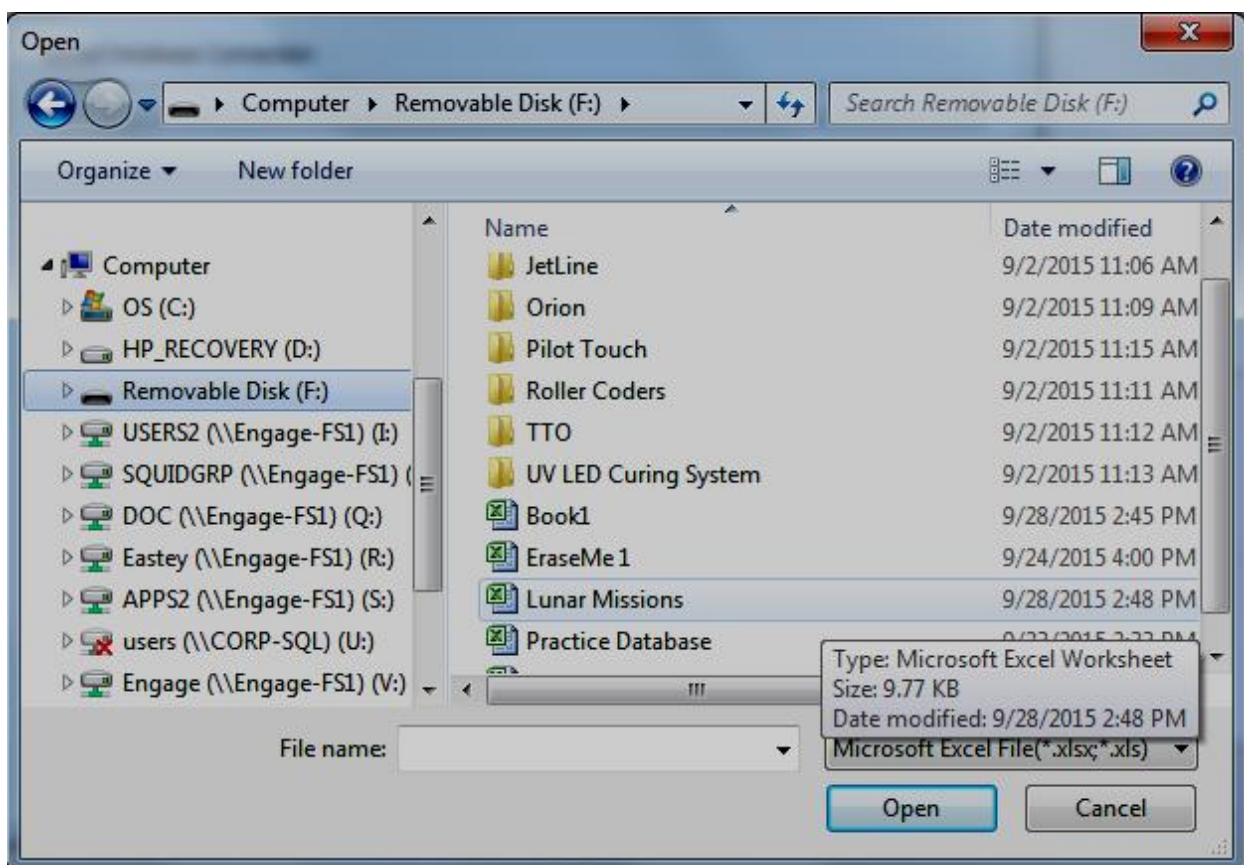
Database Type:

Select the desired database type from the Database Type+drop down menu.

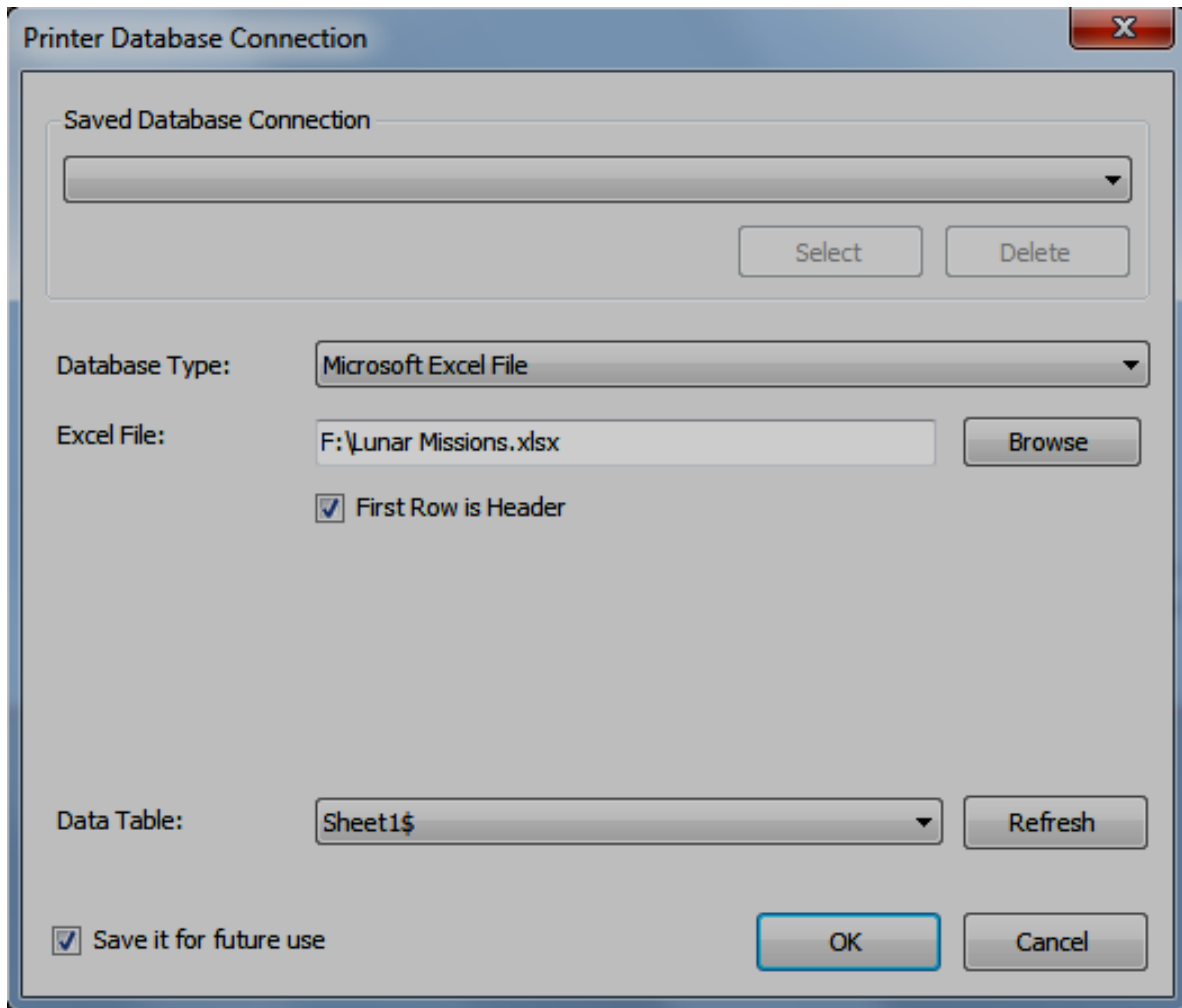


For this example I have created a Microsoft Exceli File titled Lunar Expeditions+

After selecting the database type, use the browse button to navigate to the desired file.



Open the desired Database file. In this example I'm going to open Lunar Missions+Exceli Worksheet.



Printer Database Connection Window

First Row is Header

Check this box to use the first row of the Excelⁱ file as a message database field header.

Data Table: Sheet1\$ Refresh

Select the sheet from the database file that will be used in the message. The example message contains only one sheet. Sheet1 is selected. If there are multiple sheets in the database use the drop down arrow to select the desired sheet.

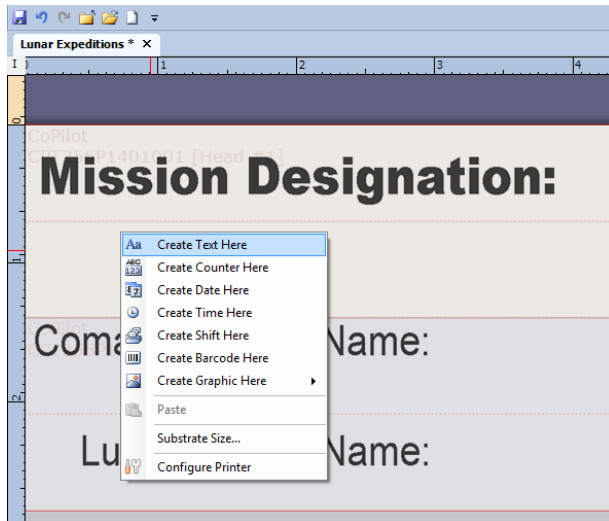
Save it for future use

Checking this box will save the database connection information for future use. The database connection will then appear in the Saved Database Connection+ drop down list.

Select **OK** and the message will be connected to the database file.

Creating a Place Holder

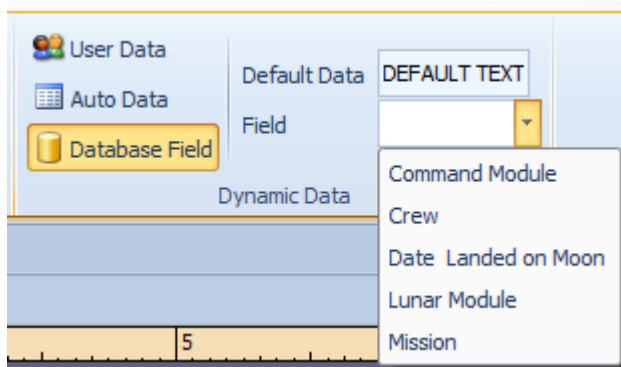
To print the data from the connected database we will need to create a place holder in the message for each database field.



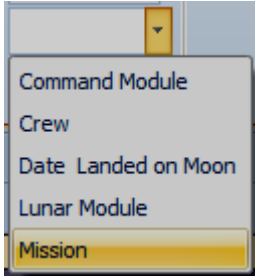
In the open message select **%Create Text Here+** where you would like to place the associated database field. Do not enter any text here.



Select **%Database Field+** from the Dynamic Data group located at the top right of the message tools ribbon.

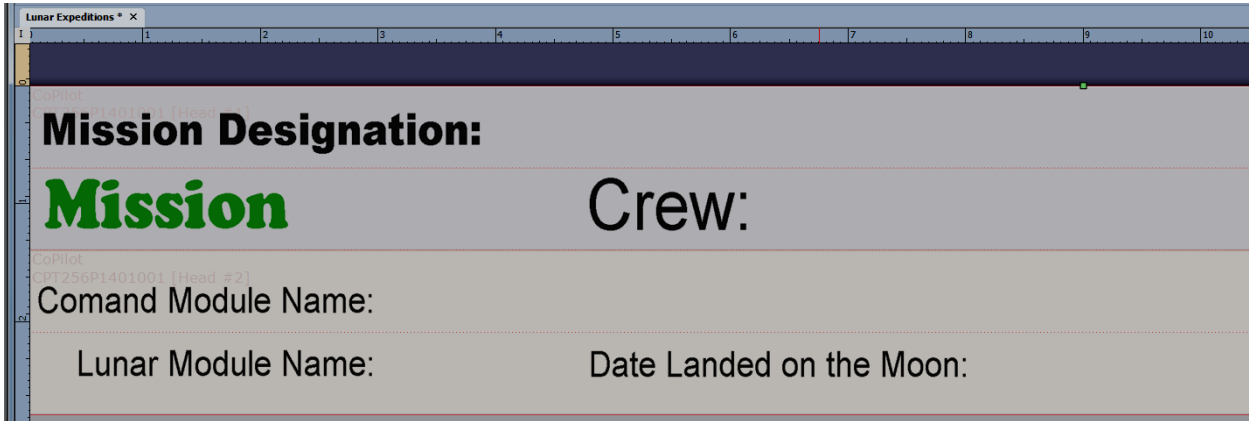


Notice in the Dynamic Data tools group there is now a **%field+** box with a drop down arrow. Use the drop down arrow to see a list of field headings from the connected database.

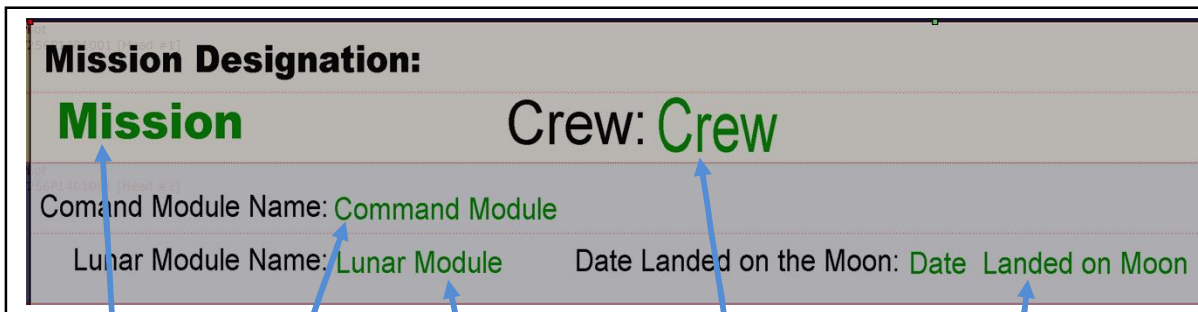


Fields are listed in alphabetical order. Select the desired field. In this example I am selecting %Mission+ to position so it will print under the static text %Mission Designation+ on the substrate.

The text font and size can be selected in the normal fashion.

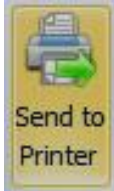


Data that is associated to a connected database will be displayed in a green color. Static elements are displayed in the normal black color. In the above example %Mission+ is displayed in green.



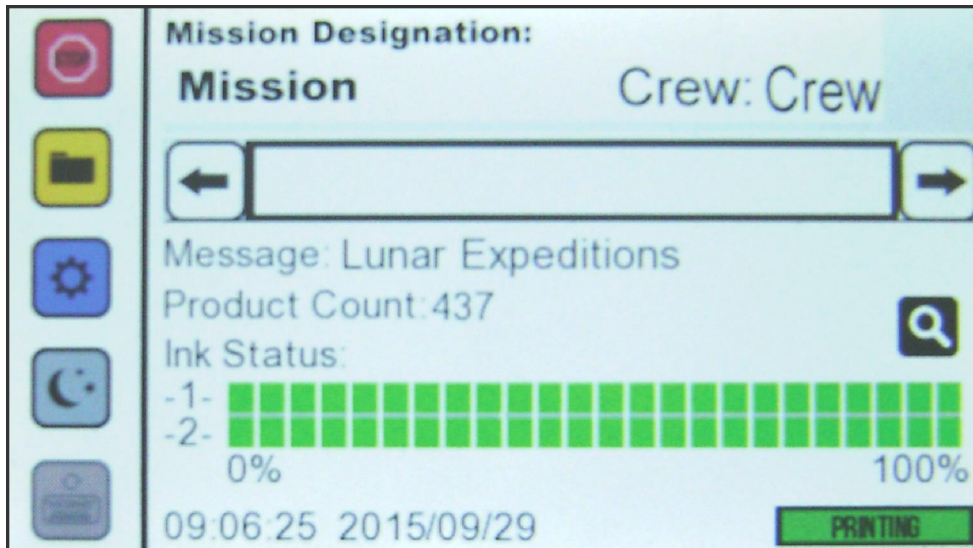
	A	B	C	D	E
1	Mission	Command Module	Lunar Module	Crew	Date Landed on Moon
2	Apollo 8	No Assigned Name	No Lunar Module	Borman, Lovell, Anders	Lunar Orbit, Flyby
3	Apollo 10	Charlie Brown	Snoopy	Stafford, Young, Cernan	No Landing, Flyby and Descent
4	Apollo 11	Columbia	Eagle	Armstrong, Collins, Aldrin	20-Jul-69
5	Apollo 12	Yankee Clipper	Intrepid	Conrad, Gordon, Bean	14-Nov-69
6	Apollo 13	Odyssey	Aquarius	Lovell, Swigert, Haise	No Landing, Flyby
7	Apollo 14	Kitty Hawk	Antares	Shepard, Roosa, Mitchel	31-Jan-71
8	Apollo 15	Endeavour	Falcon	Scott, Worden, Irwin	30-Jul-71
9	Apollo 16	Casper	Orion	Young, Mattingly, Duke	20-Apr-72
10	Apollo 17	America	Challenger	Cernan, Evans, Schmitt	11-Dec-72

Here the message is populated with place holders for the related fields in the connected database.



Send the Message to the Printer.

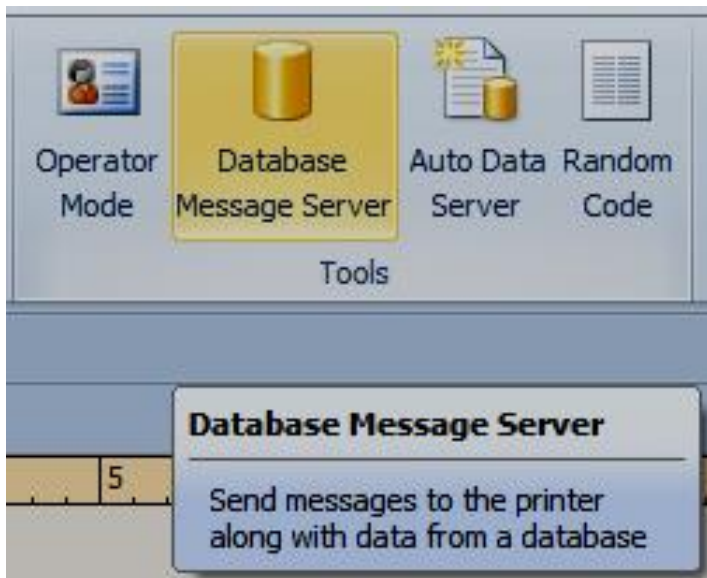
Send the message to the connected printer(s) in the normal fashion. The message template will then appear in the preview section on the designated printer(s) home screen.

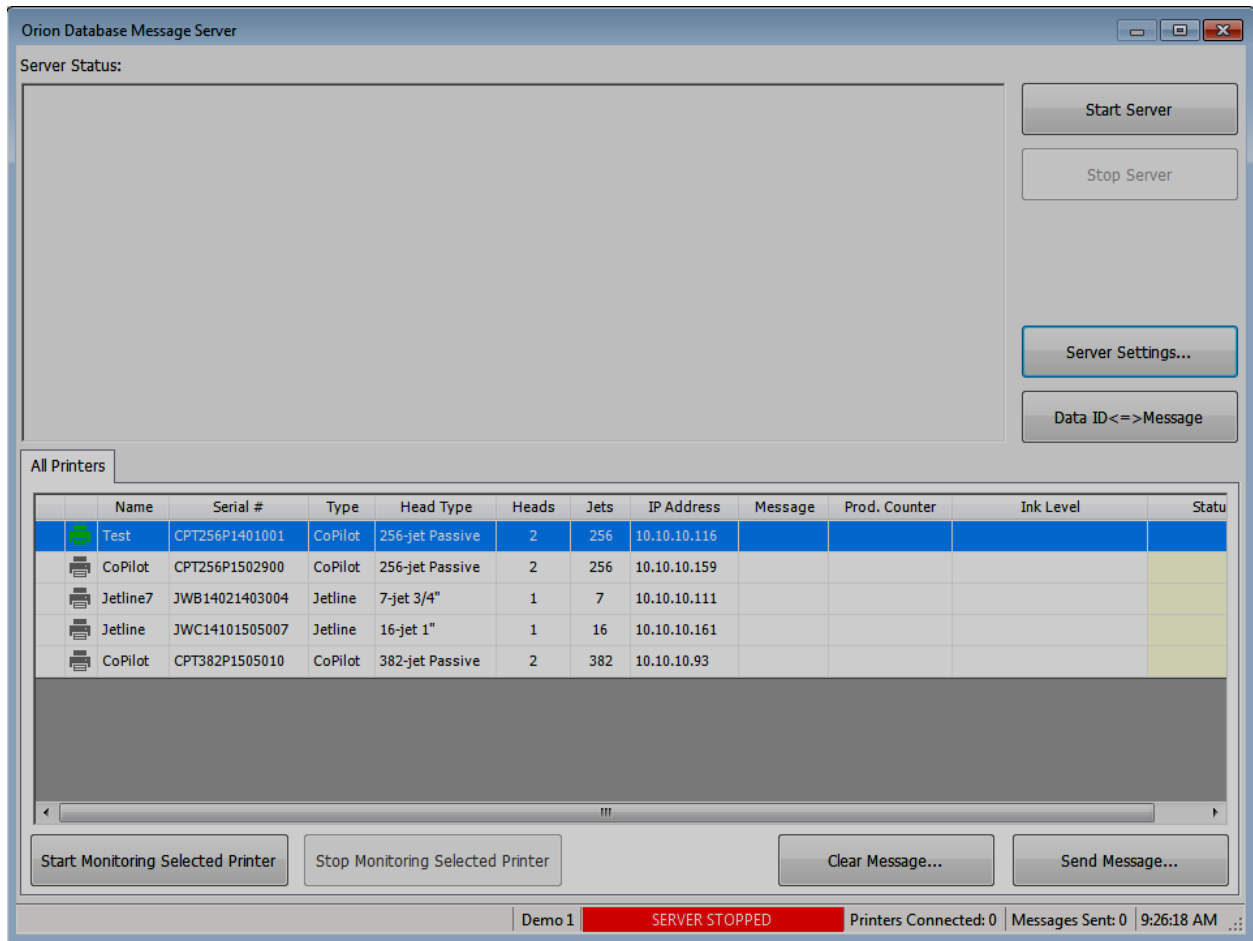


Home Screen Database Message Server



From the Orion message Home Screen select the Database Message Server icon to open the Orion Database Message Server Screen.





Orion Database Message Server Screen

Notice the red **SERVER STOPPED** TAB along the bottom of the window. This is normal. We will be starting the server shortly.

Server Settings

Server Settings...

In the Orion Database Message Server Screen select %Server Settings+ so the printer can identify the server as opposed to using an IP address.

Server Settings Screen

Server ID:

Enter an ID name for the server. As this is a demonstration, the server ID in this example is %Demo 1+.

Database Connection:
Database/Table

In the %Database Connection+ group use the %Browse+ button next to %Database/Table+ to locate and select the database connection.

Data ID Column:

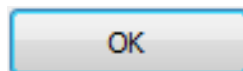
Use the drop down arrow in the %Data ID Column+ to select an ID field for the message. In this example I have selected the %Mission+ field.

Communication Settings

Check the %Custom settings:+ box to change and apply the communications. In this example we are not using any custom settings.

Printer Status Update

Use to define how often Orion will update the printer status and refresh the print bitmap on screen.

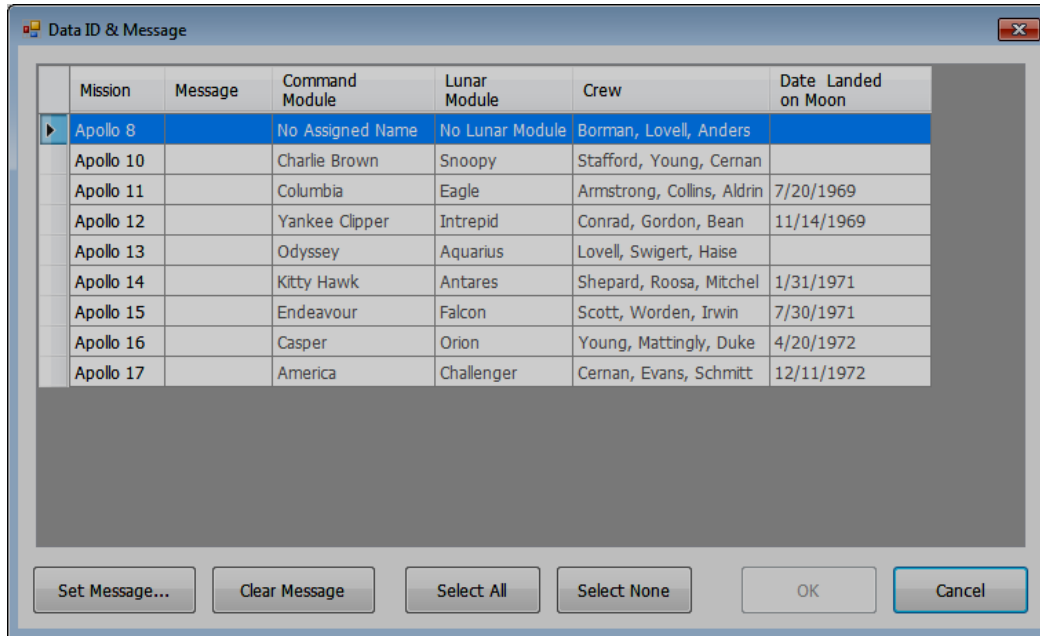


Select %OK+ to return to the Orion Database Message Server window.

Data ID ⇔ Message

Data ID<=>Message

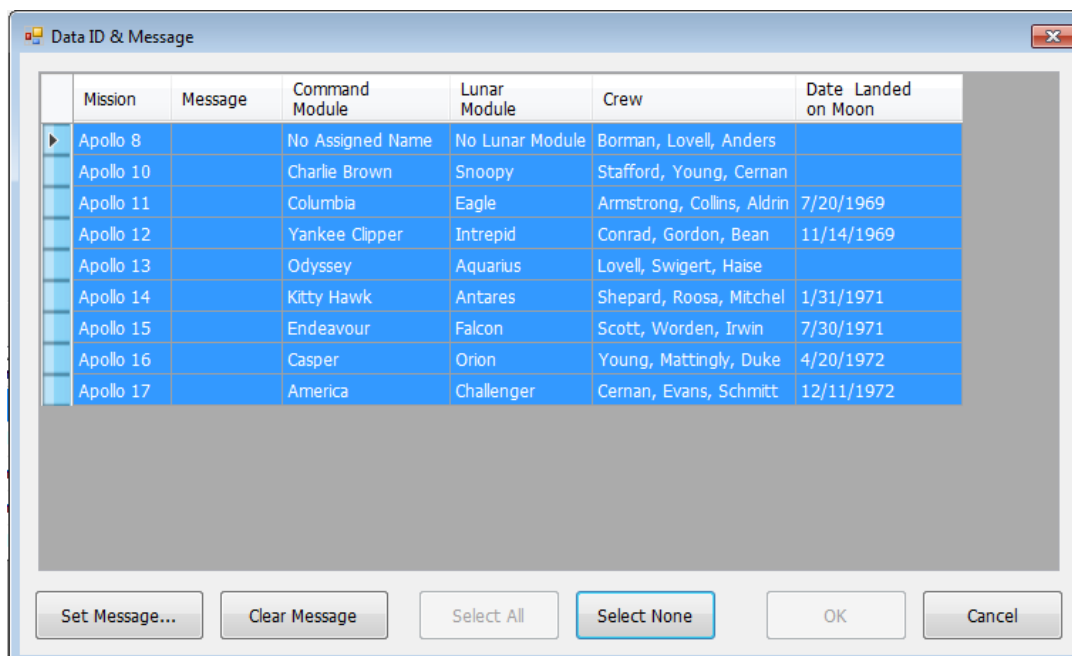
The Data ID is essential for the printer to be able to retrieve remote messages from the connected database. Select the %Data ID ⇔ Message+button to open the Data ID & Message window



In the Data ID and Message window we will tell Orion which message template to be used for specific %Data ID+. We can set the template message for Data ID one by one or select them in a batch.

Select All

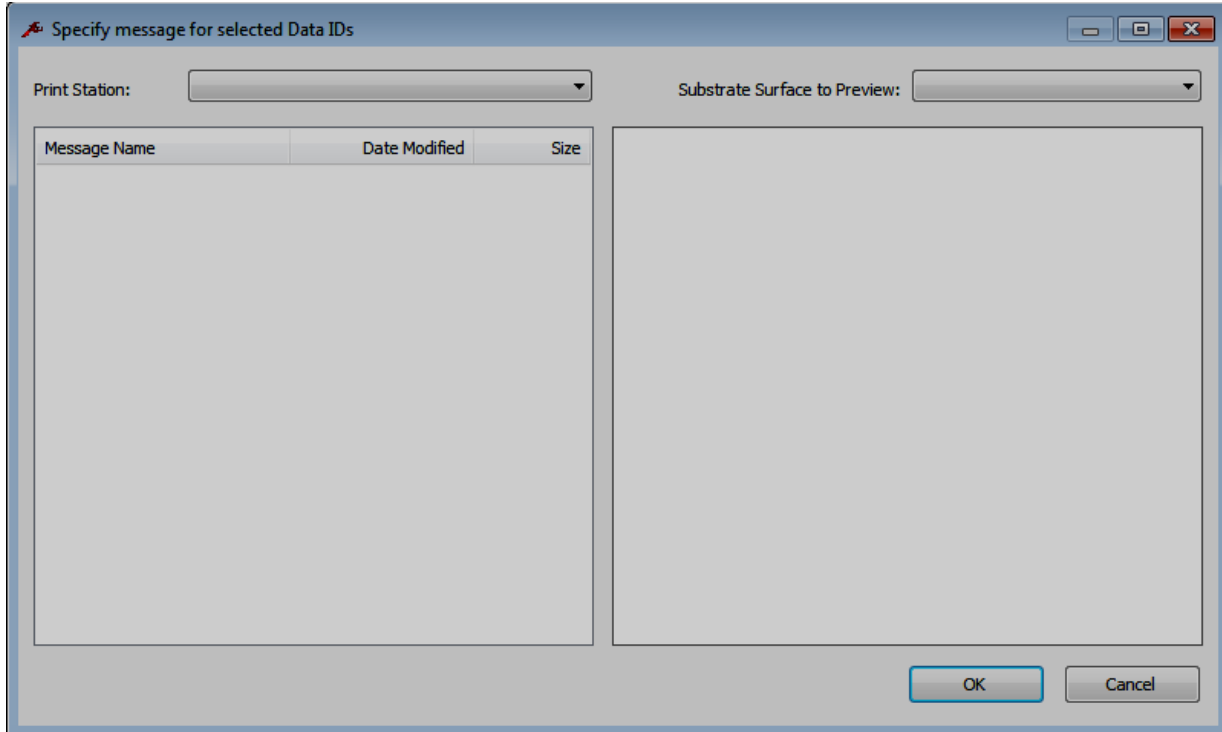
In this example I am going to select all %Data ID+ because they are associated to the same message template.



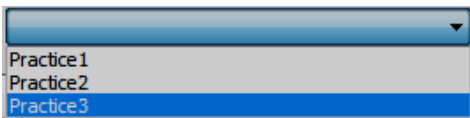
Set Message...



Select the **Set Message** button to open the **Specify message for selected Data IDs** window.

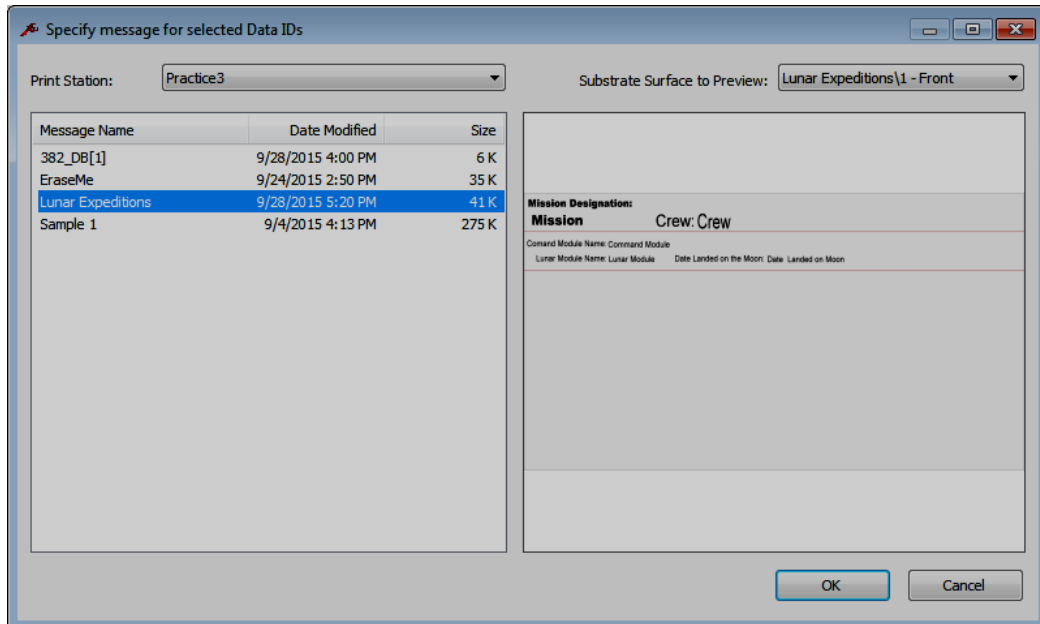


Print Station:



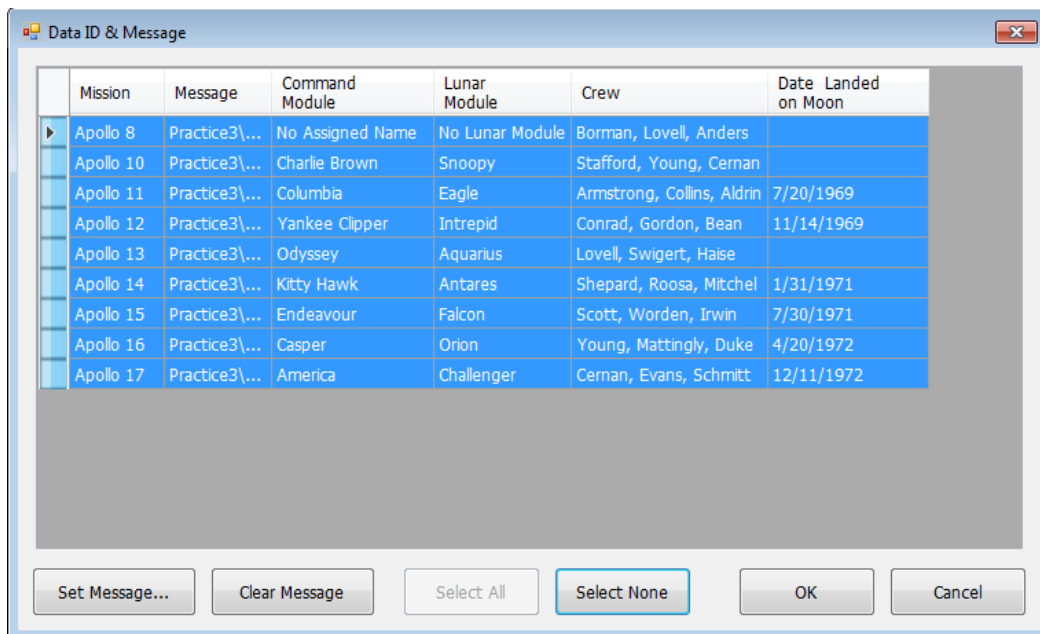
Use the drop down arrow in the **Print Station:** box to select the print station where the desired message resides.

Select the desired Message name. In this example %Lunar Expeditions+ has been selected.



After the message has been selected, the Substrate Surface to Preview: will update and display a preview of the message. If the substrate preview does not update or is not present, use the down arrow to select the correct substrate.

Select %OK+ and we are returned to the %Data ID & Message+ window. Notice that in this example all the messages are highlighted and the Message column is filled with the message template we just selected %Practice3\Lunar Expeditions+.



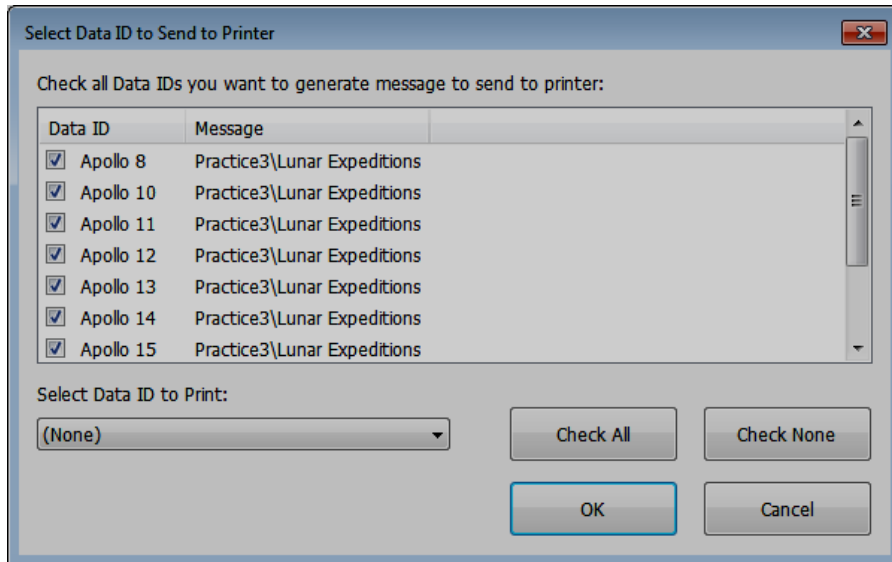
Select %OK+ to return to the Orion Database Message Server.

Send Message



Select the **Send Message+** button to send the batch of messages to the printer.

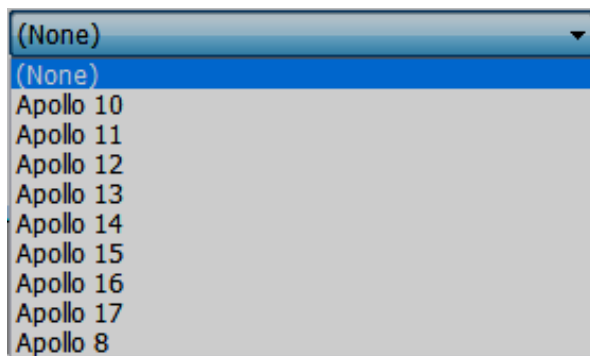
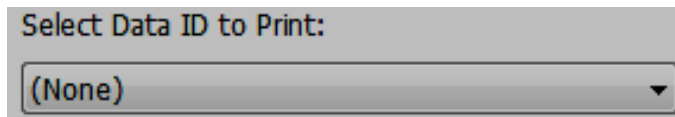
Check the box next to the message you wish to send to the printer.



In this example I want to send all the messages to the printer so I have selected **Check All+**.

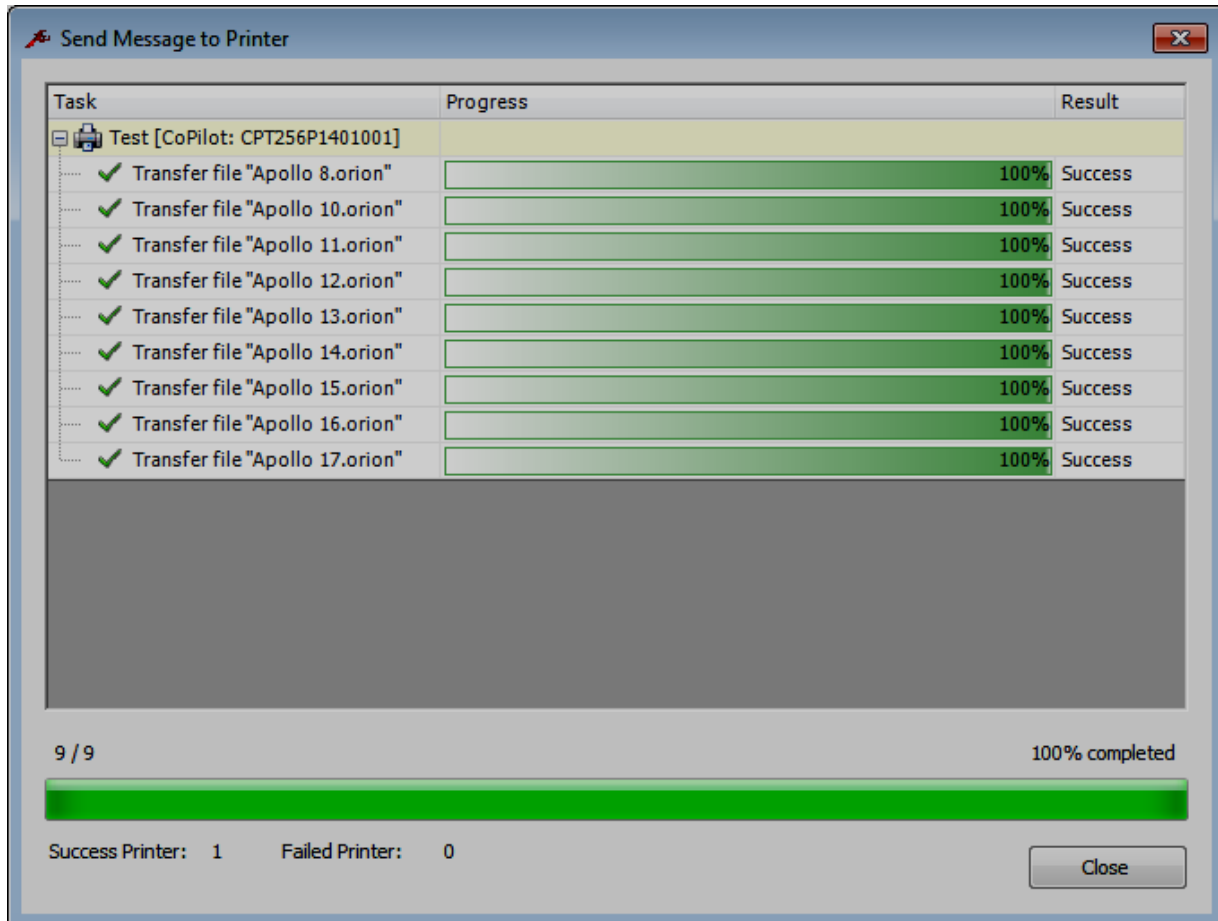
After checking the desired message(s) select **OK+**.

Select Data ID to Print



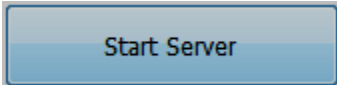
This dropdown list box will contain all Data IDs you have selected. You can select one to tell the printer which message to print immediately. If you just want to send them to the printer, select **(None)+**; it won't change the current printing message on the printer.

The %Send Message to Printer+ window will open and display progress as the message(s) are transferred.

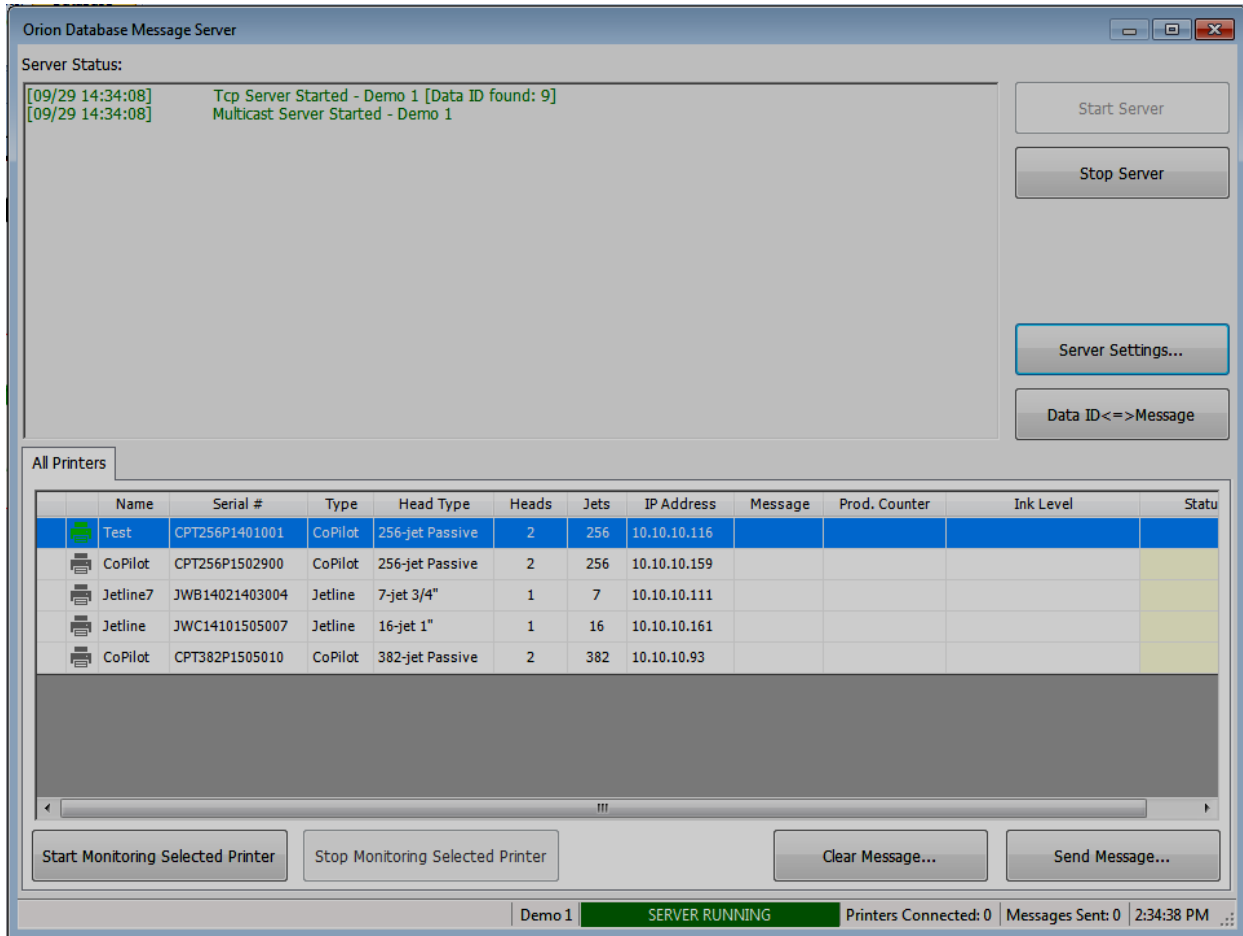


When the transfer is complete, close the %Send Message to Printer+window.

Start Server



Select the **Start Server** button to start the server.



The server we created earlier is now running. Notice the red **Server Stopped** tab along the bottom of the window has now changed to a green **SERVER RUNNING** tab.

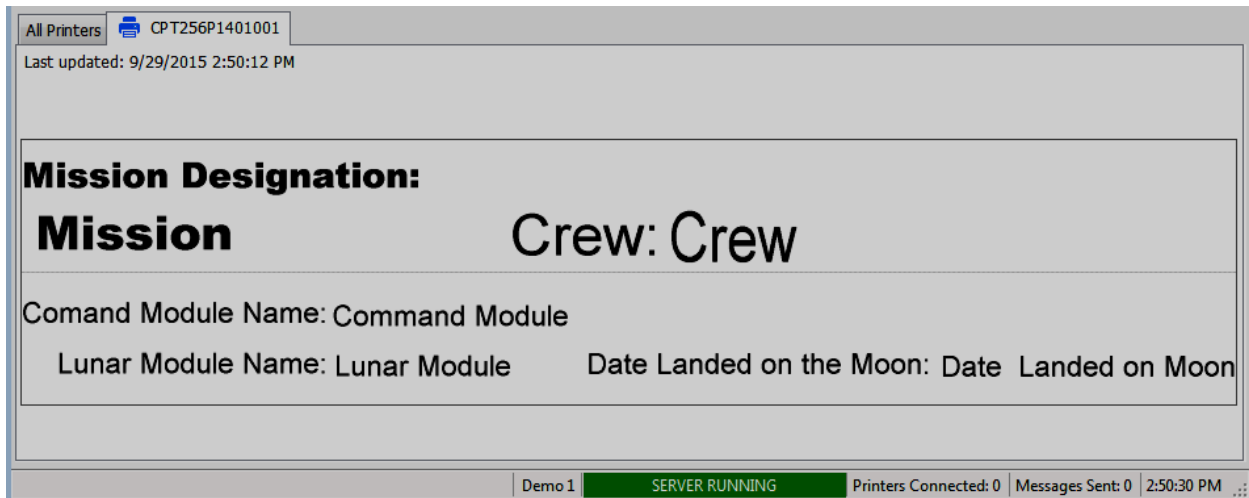
Start Monitoring Selected Printer

Start Monitoring Selected Printer

Monitoring the selected printer is not necessary to print database messages however is a useful tool to watch what is happening on the printer side.

Select the %Start Monitoring Selected Printer+button.

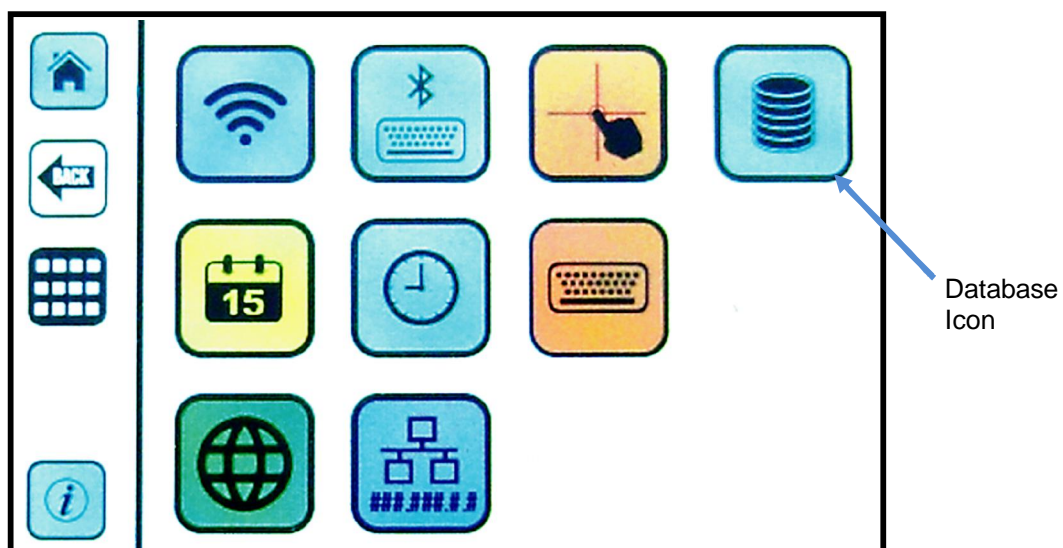
Select the desired printer tab and the current message on the printer will display.



Message Displayed from the Selected Printer

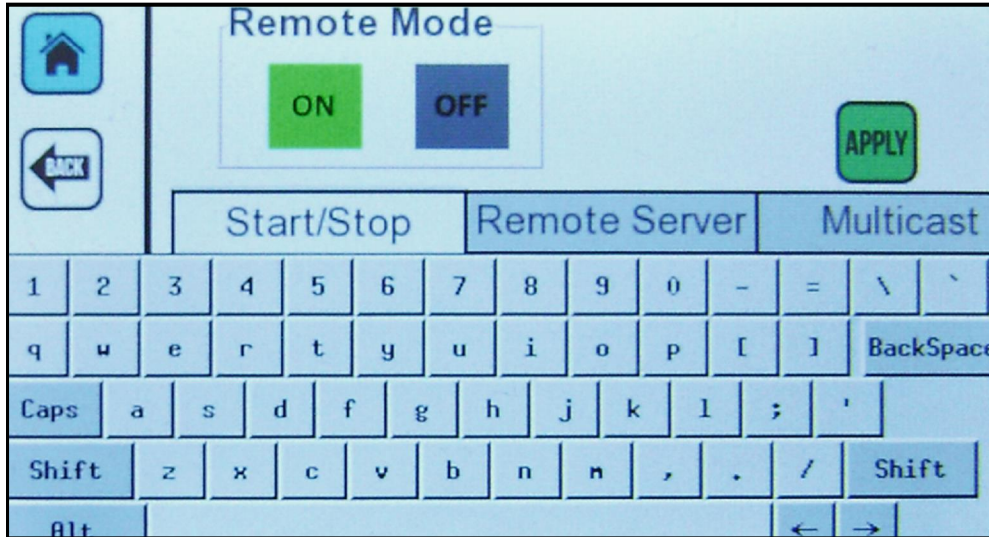
At the Printer

Go to page two of the settings screen on the printer a select the Database icon.

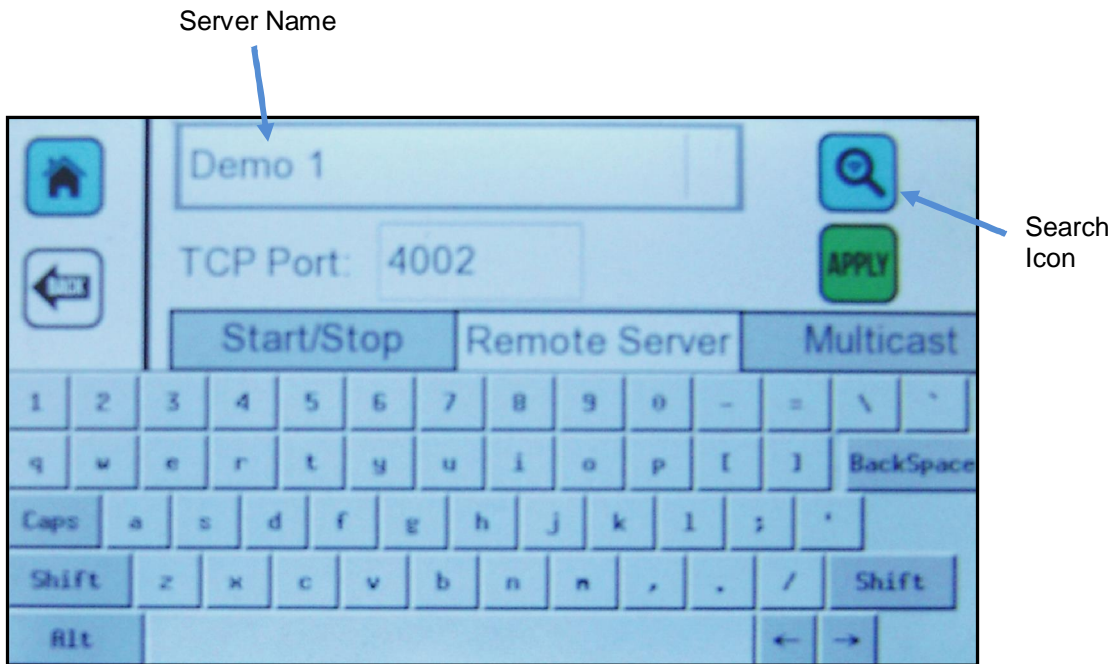


Settings Screen Page Two

The Database screen will open on the printer.



Make sure the Remote Mode is ON and select the Remote Server tab. In the Remote Server screen use the search icon to find the server.

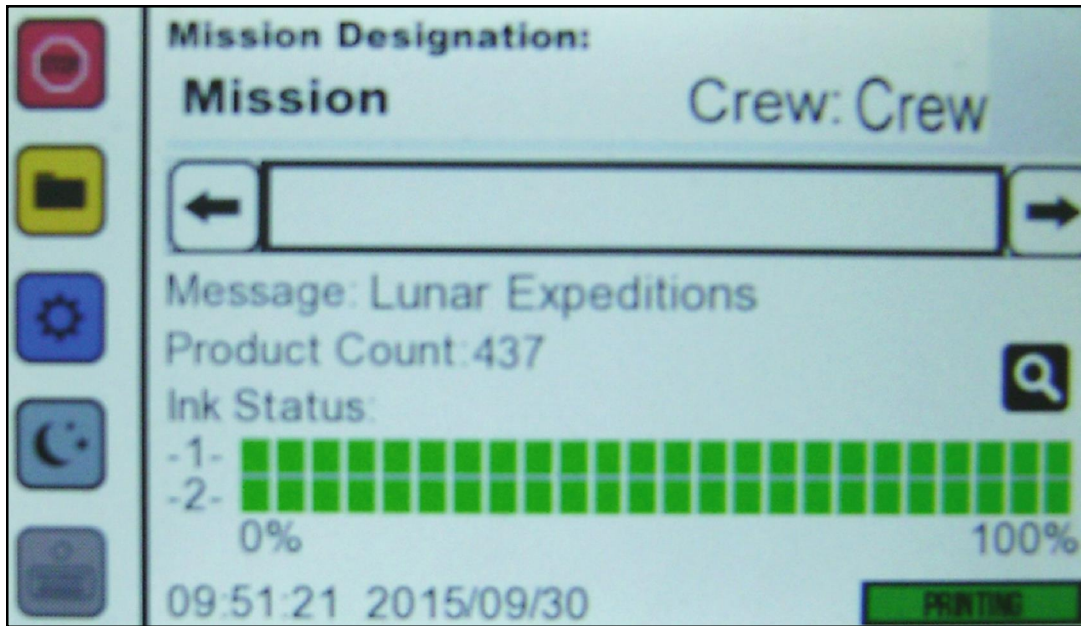


Select the Apply icon to connect to the message server.

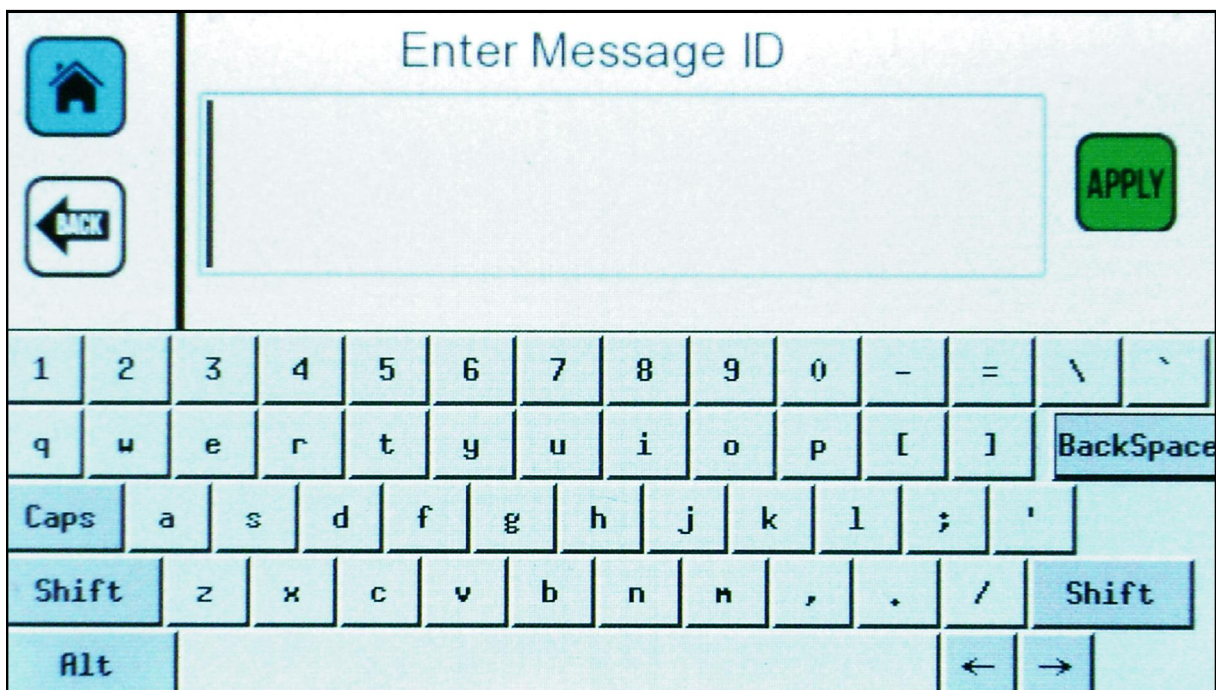
Tip! Now would be a good time to return to the Start/Stop tab and ensure you have the remote server turned ON.

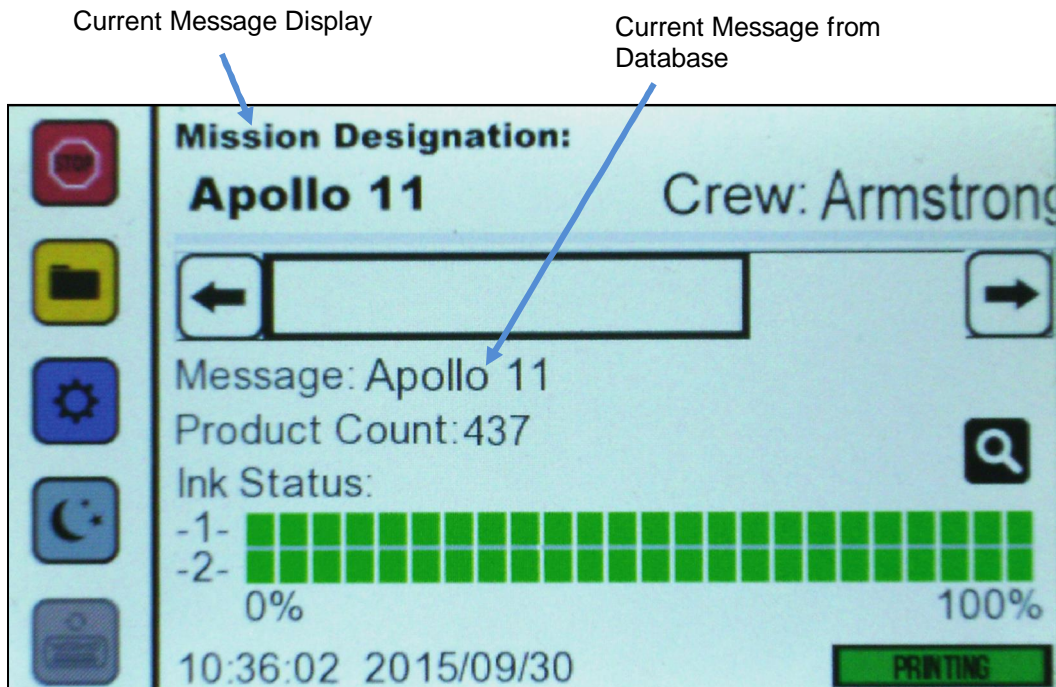
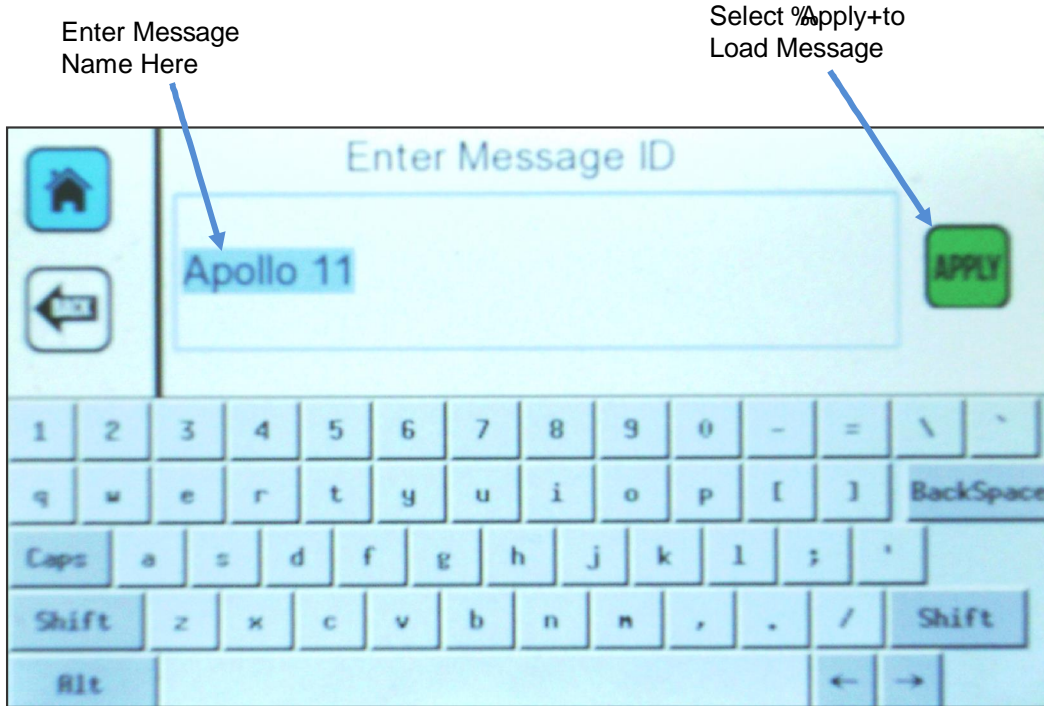


Return to the printer Home screen.



At the printer home screen select the message folder icon. Use the onscreen keyboard to enter the message you want to print.





Home Screen Displaying Current Message from Database

The current message will now be printed.

Auto Data Server

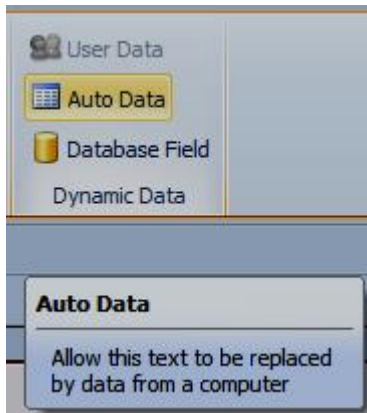
Auto Data Server Description

When you want to feed variable information to a printer from an external source, the printer must have a way to accept this information. The way the printer accepts this information is by printing an Auto Data Template message. An Auto Data Template message contains at least one Text, Barcode and/or Graphic element that is configured to accept Auto Data. When the message is initially loaded, the %Default Data+you enter for Text and Barcode elements or the graphic you use for Graphic elements will be printed as a placeholder. Once the printer receives an Auto Data record, it will rebuild the message, placing the various fields into their associated elements.

Note: The optional Auto Data Server function is only available in the Orion[®] Tier Three License level.

Create a Template Message

Create an Auto Data Template message. This is a message that contains Text, Barcode and/or Graphic elements that are configured to accept Auto Data.



To configure an element to accept Auto Data, you will select the element then click the **%Auto Data+** button in the Dynamic Data section of the Properties ribbon. Once Auto Data has been enabled, you will see the following properties to configure:

Data Index:

 1

This value indicates which field to use when an Auto Data record is received. This value will be pre-set to the next available number not already being used, in the range of 1-32. You usually don't need to change this value, but you can if you need to. Just make sure the resulting message contains values starting at 1 and all are continuous.

Data Size:

 32

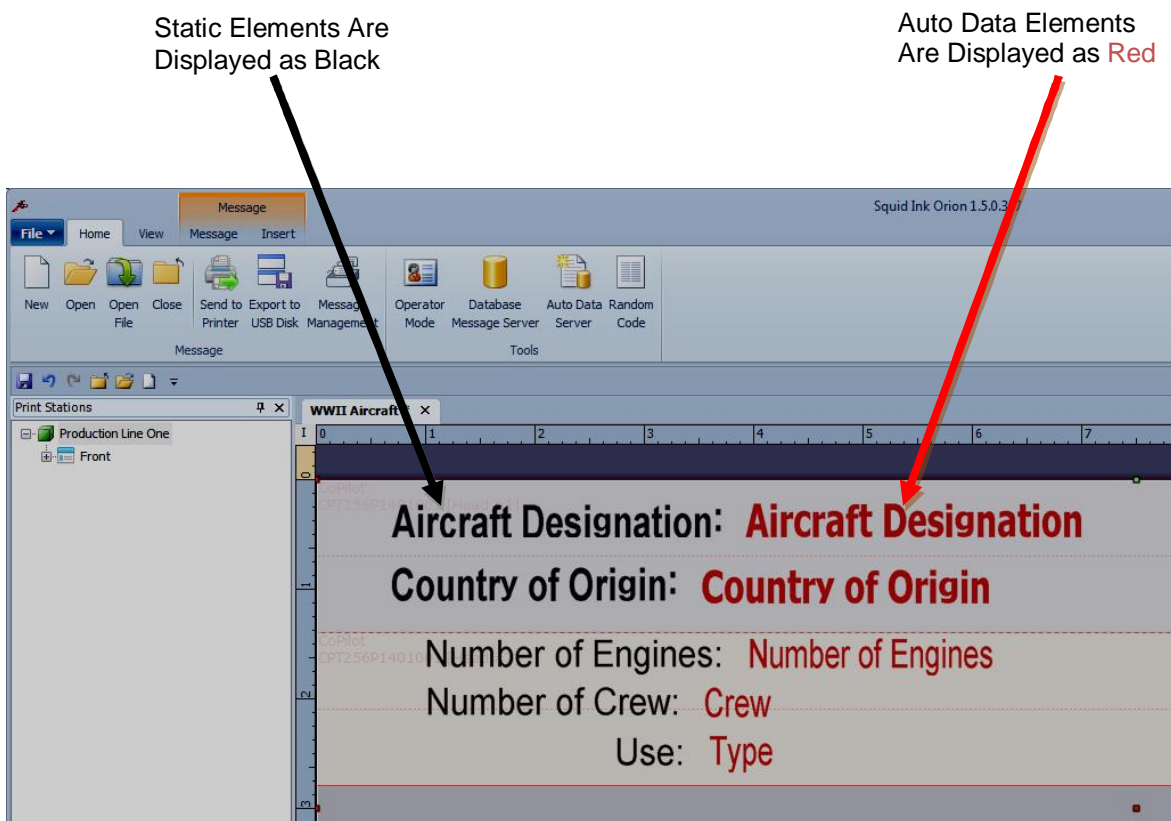
This tells the printer how many characters you plan to send for this element. If too many characters are received, the printer will use this value to limit how much data is used.

Default Data:Default Data **Aircraft Designa**

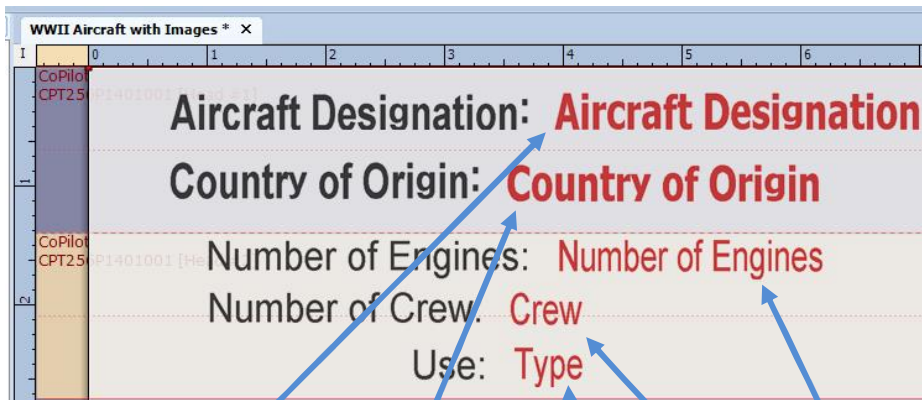
For Text elements, this is the text that is printed before the printer receives an Auto Data record. For Barcode elements, this is the data that is embedded into the barcode before the printer receives an Auto Data record. Graphic elements don't have the Default Data option available to them, so the printer will print the graphic you added to the message before it receives an Auto Data record.

Save:

Save the template message and send it to the printer. Before any Auto Data is sent to the printer, the message will print just as it looks in Orion. All of the default information is printed so that you can verify everything looks as expected.



Example of a Template Message

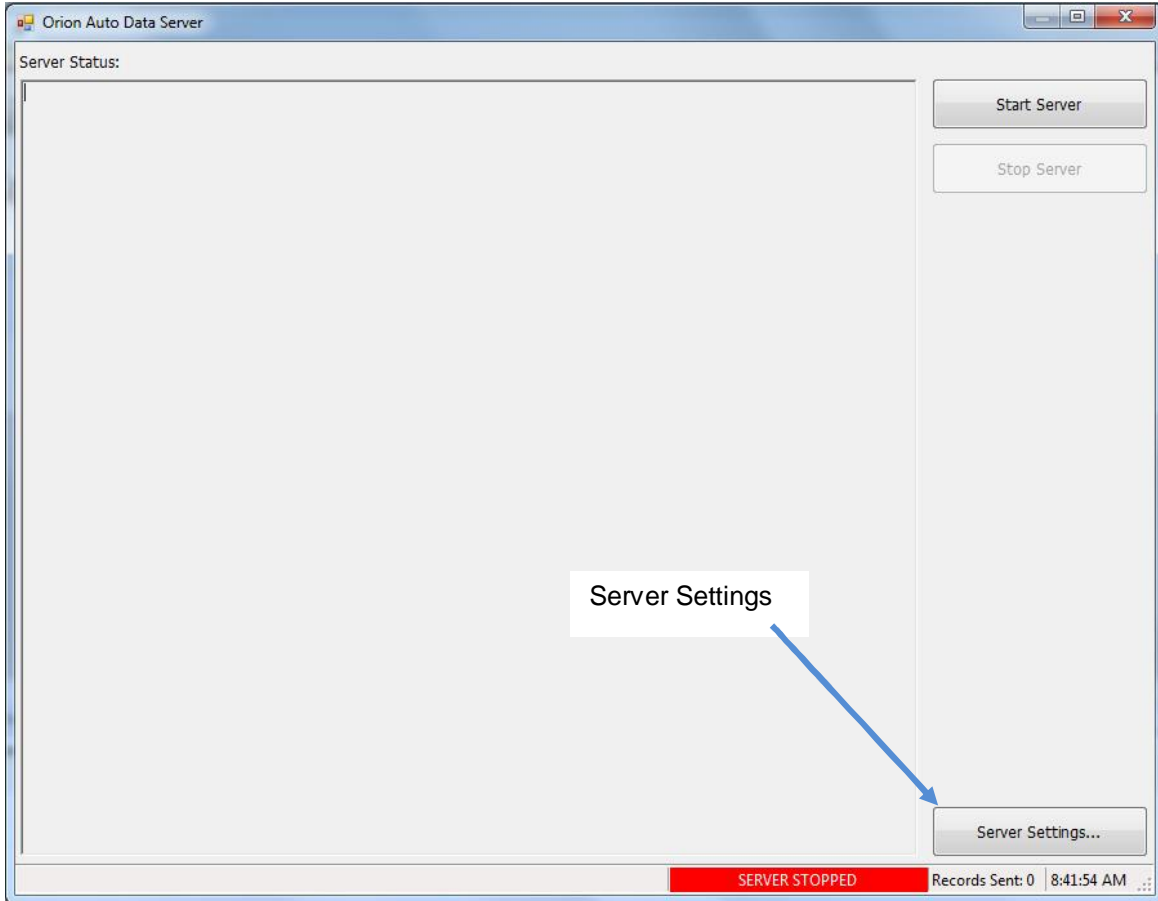


	A	B	C	D	E
1	Aircraft Designation	Country of Origin	Primary Use	Crew	Engines
2	P-38 Lightning	United States	Fighter	1	2
3	P-47 Thunderbolt	United States	Fighter	1	1
4	P-51 Mustang	United States	Fighter	1	1
5	BF 109	Germany	Fighter	1	1
6	FW 190	Germany	Fighter	1	1
7	JU 87D	Germany	Dive Bomber	2	1
8	A6M5 Zero	Japan	Fighter	1	1
9	B5N2 Kate	Japan	Torpedo Bomber	3	1
10	Ju88	Germany	Multi Role Aircraft	4	2
11	G4M Betty	Japan	Medium Bomber	7	2
12	B-17 Fortress	United States	Heavy Bomber	10	4
13	Aichi D3A Val	Japan	Dive Bomber	2	1
14	Lagg 5	Soviet Union	Fighter	1	1
15	HE 219	Germany	Night Fighter	2	2
16	IL-2 Sturmovik	Soviet Union	Ground Attack	2	1
17	JU 52	Germany	Transport	2	3
18	P-61 Black Widow	United States	Night Fighter	3	2
19	ME 262	Germany	Fighter	1	2
20	Macchi C. 205 Veltro	Italy	Fighter	1	1
21	AT-6 Texan	United States	Training	2	1
22	SM 79 Sparviero	Italy	Meduim Bomber	3	3
23	Mig 3	Soviet Union	Fighter	1	1
24	BF 110	Germany	Multi Role Aircraft	2	2
25	C-47	United States	Transport	2	2

Message and Related Database Fields

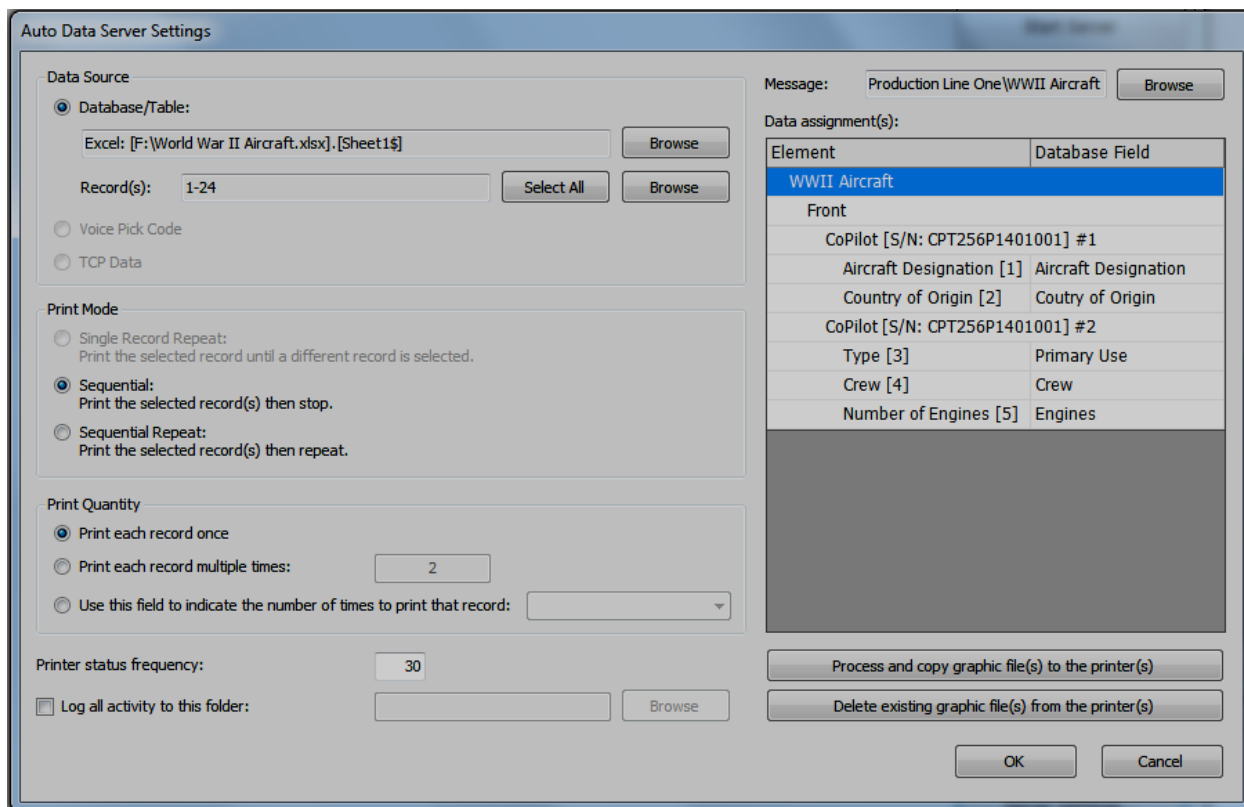
Server Settings

When you click the **%Auto Data Server** icon in the Tools section of the Home ribbon, the Auto Data Server dialog will appear.



Click the **%Server Settings...** button to configure to following:

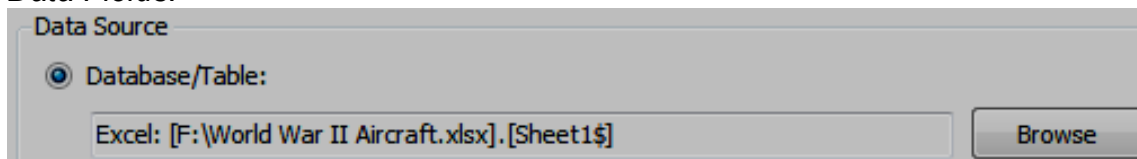
- Data Source
- Print Mode
- Print Quantity
- Graphic File Location
- Logging
- Template Message
- Data Assignments



Auto Data Server Settings Window

Data Source

Data Fields:



This is where you select the database you want to extract data from. Data sources can be:

- Microsoft Access Database
- Microsoft Excel
- Microsoft SQL Server
- Oracle Database
- Plain Text File

Use the **Browse** button to navigate to the desired Data Source location

Once you select the type of data source, you can set the additional parameters required in order to extract the data you need.

Records(s):

Record(s):

Once you have selected the data source and configured it for access, you can select the records you want to send to the printer from a list of all available records in the selected data source. You can select single records, groups of singles or ranges, or all records.

Selecting the **Browse**+Button will display a list of records in the selected database.

Select Record(s) to Send

Aircraft Designation	Country of Origin	Primary Use	Crew	Engines
P-38 Lightning	United States	Fighter	1	2
P-47 Thunderbolt	United States	Fighter	1	1
P-51 Mustang	United States	Fighter	1	1
BF 109	Germany	Fighter	1	1
FW 190	Germany	Fighter	1	1
JU 87D	Germany	Dive Bomber	2	1
A6M5 Zero	Japan	Fighter	1	1
B5N2 Kate	Japan	Torpedo Bomber	3	1
Ju88	Germany	Multi Role Aircraft	4	2
G4M Betty	Japan	Medium Bomber	7	2
B-17 Fortress	United States	Heavy Bomber	10	4
Aichi D3A Val	Japan	Dive Bomber	2	1
Lagg 5	Soviet Union	Fighter	1	1
HE 219	Germany	Night Fighter	2	2
IL-2 Sturmovik	Soviet Union	Ground Attack	2	1
JU 52	Germany	Transport	2	3
P-61 Black Widow	United States	Night Fighter	3	2
ME 262	Germany	Fighter	1	2
Macchi C. 205 Veltro	Italy	Fighter	1	1
AT-6 Texan	United States	Training	2	1
SM 79 Sparviero	Italy	Medium Bomber	3	3

Select all records

Print Mode

Print Mode

- Single Record Repeat:
Print the selected record until a different record is selected.
- Sequential:
Print the selected record(s) then stop.
- Sequential Repeat:
Print the selected record(s) then repeat.

There are various options for selecting how data is printed.

Single Record Repeat:

Single Record Repeat:
Print the selected record until a different record is selected.

Print the selected record until a different record is selected. This button is only available if a single record has been selected and the message is not configured for %One Shot+ mode.

Sequential:

Sequential:
Print the selected record(s) then stop.

This will print all the selected records and then stop printing.

Sequential Repeat:

Sequential Repeat:
Print the selected record(s) then repeat.

This will print all the selected records and then repeat.

Print Quantity:

There are various options for selecting how many times a record is printed.

Print each record once:

Print each record once

This will print each record once. For example, if there are 24 records it will print records 1 thru 24 then stop printing.

Print each record multiple times:

Print each record multiple times:

5

Print each record a specified number of times (2-65535).

Use this field to indicate the number of times to print that record:

Use this field to indicate the number of times to print that record:

Use a field from the selected data source to indicate the number of times that specific record should be printed.

Use the drop down arrow to display the database fields.

Note: These options may vary based on how the selected Template Message is configured. If the message is configured for %One Shot+mode, only the %Print each record once+option will be available.

Printer status frequency:

Use this to specify a number of seconds between records.

Log all activity to this folder:

Log all activity to this folder:

When this box is checked a user can keep track of which Template Message is used, which graphic files are sent to the printer, and which Auto Data records are sent to the printer. Use the **Browse+** button to select the target folder where the log file will be saved.

Message:

Message:

The user must select an Auto Data Template message from any available Print Station and message that Orion has access to. Use the **Browse+** button to find and select the desired message.

Note: If a message that contains no Auto Data is selected, the user is asked to make another selection.

Data Assignments:

Once a Template Message has been selected, a tree will be displayed showing all of the Auto Data elements contained in that message. The user must then select a field to be assigned to each Auto Data element. Use the drop down arrow to select the desired field.

Element	Database Field
WWII Aircraft with Images	
Front	
CoPilot [S/N: CPT256P1401001] #1	
Aircraft Designation [1]	Aircraft Designation
Country of Origin [2]	Country of Origin
CoPilot [S/N: CPT256P1401001] #2	
Type [3]	Crew
Crew [4]	Engines
Number of Engines [5]	Primary Use

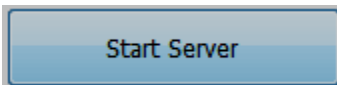
Auto Data Element

Database Field

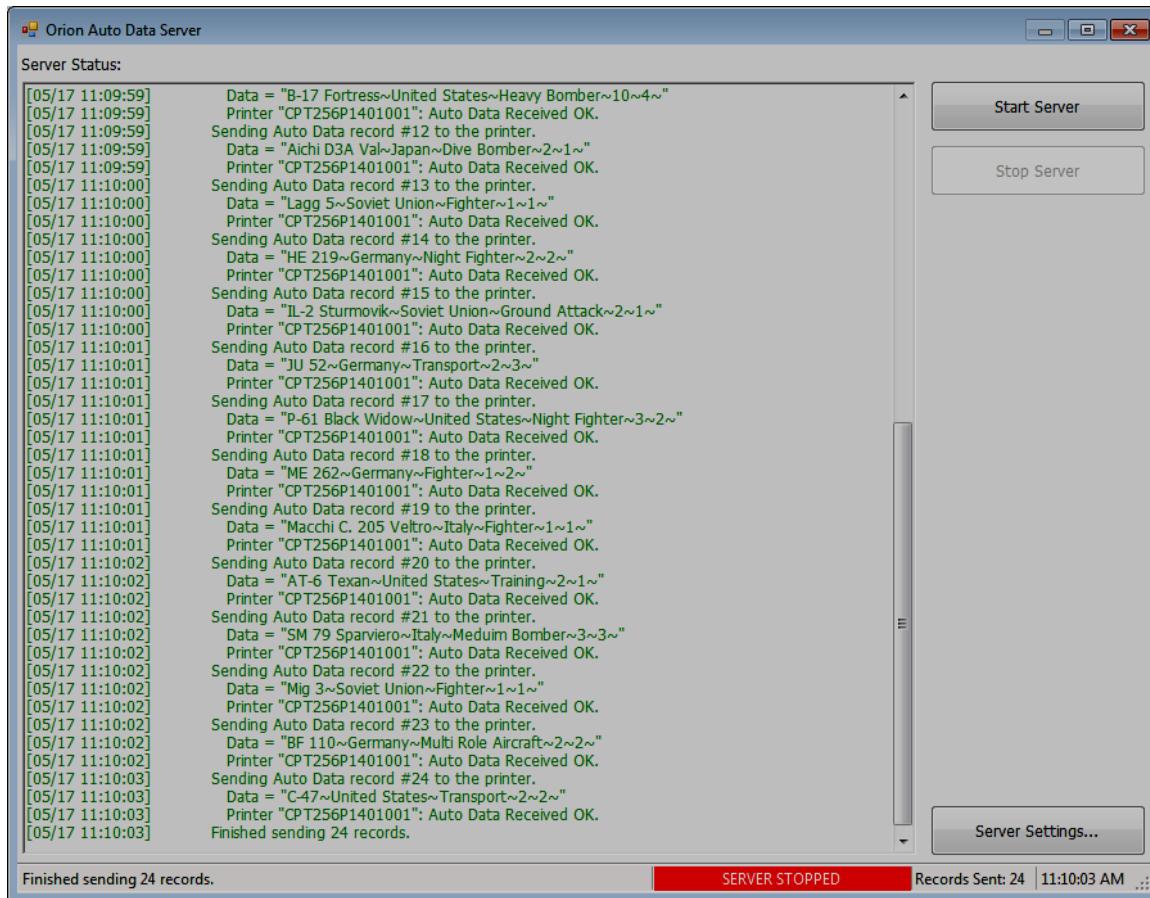
Data assignment(s):	
Element	Database Field
WWII Aircraft	
Front	
CoPilot [S/N: CPT256P1401001] #1	
Aircraft Designation [1]	Aircraft Designation
Country of Origin [2]	Country of Origin
CoPilot [S/N: CPT256P1401001] #2	
Type [3]	Primary Use
Crew [4]	Crew
Number of Engines [5]	Engines

Elements with Assigned Data Fields

Start Server:



Once the Auto Data Server has been configured, click the **Start Server** button to send the template message to the required printer(s), build the message, send all required graphic files from the specified graphic location and then start sending Auto Data records.



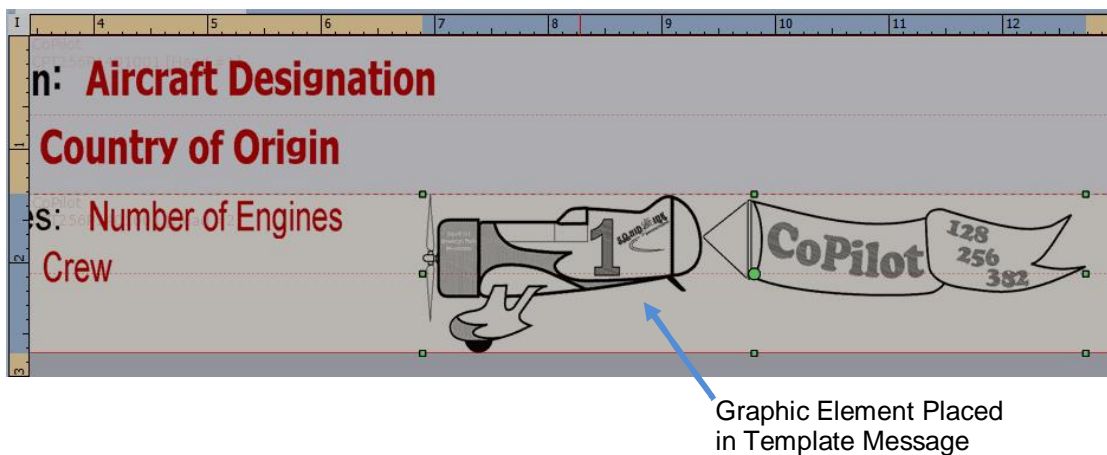
When the server has finished sending all the records the printer will print the messages as configured when triggered.

Adding a Graphic

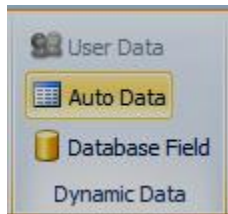
If an Auto Data record contains a graphic such as a logo it can be added to the message just like any element. In the case of graphic elements, just the file name needs to be sent to the printer and the printer will load that graphic file into the message, if that graphic file exists on the printer. Auto Data can accept several types of graphics such as PNG, JPG, GIF and BMP but the graphic must have the .BMP extension in the database field.

Template Message:

Place a graphic element in the template message. This will be a place holder for graphic elements contained in the record when the message is printed.

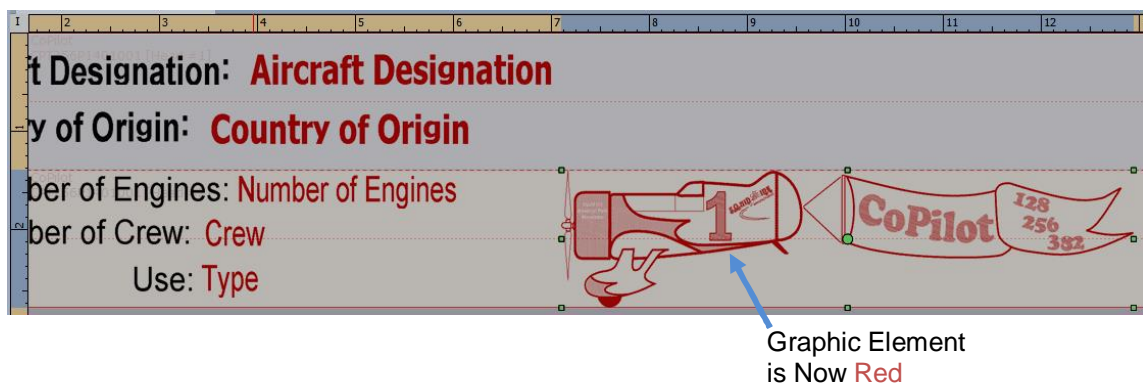


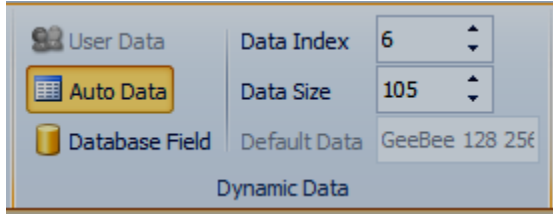
Configure the Graphic Element:



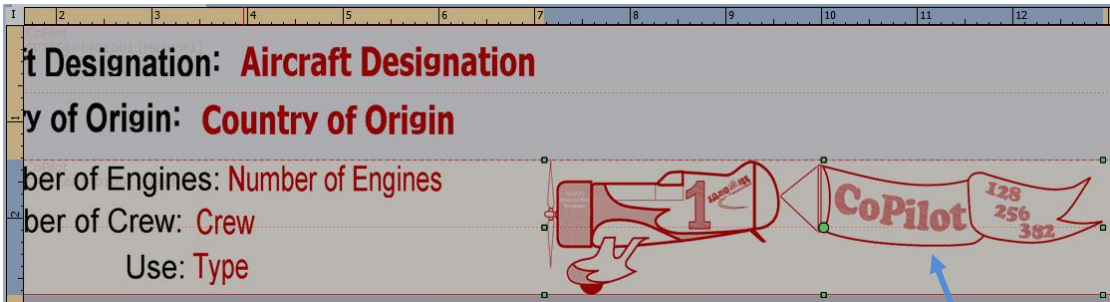
To configure the graphic element to accept Auto Data select the element and then click the **%Auto Data+** button in the Dynamic Data section of the Properties ribbon.

Notice that the graphic element now is displayed in **red** indicating that it is a dynamic element.





With the graphic selected, configure the graphic in the normal fashion with the exception that there is no %Default Data+ associated with graphic elements.



	A	B	C	D	E	F
1	Aircraft Designation	Country of Origin	Primary Use	Crew	Engines	Images
2	P-38 Lightning	United States	Fighter	1	2	P-38.bmp
3	P-47 Thunderbolt	United States	Fighter	1	1	P-47.bmp
4	P-51 Mustang	United States	Fighter	1	1	P-51.bmp
5	BF 109	Germany	Fighter	1	1	BF-109.bmp
6	FW 190	Germany	Fighter	1	1	FW-190.bmp
7	JU 87D	Germany	Dive Bomber	2	1	JU-87D.bmp
8	A6M5 Zero	Japan	Fighter	1	1	A6M5 Zero.bmp
9	B5N2 Kate	Japan	Torpedo Bomber	3	1	B5N2 Kate.bmp
10	Ju88	Germany	Multi Role Aircraft	4	2	JU88.bmp
11	G4M Betty	Japan	Medium Bomber	7	2	G4M Betty.bmp
12	B-17 Fortress	United States	Heavy Bomber	10	4	B-17.bmp
13	Aichi D3A Val	Japan	Dive Bomber	2	1	D3A Val.bmp
14	Lagg 5	Soviet Union	Fighter	1	1	Lagg 5.bmp
15	HE 219	Germany	Night Fighter	2	2	HE 219.bmp
16	IL-2 Sturmovik	Soviet Union	Ground Attack	2	1	IL-2.bmp
17	JU 52	Germany	Transport	2	3	JU 52.bmp
18	P-61 Black Widow	United States	Night Fighter	3	2	P-61.bmp
19	ME 262	Germany	Fighter	1	2	ME 262.bmp
20	Macchi C. 205 Veltro	Italy	Fighter	1	1	205 Veltro.bmp
21	AT-6 Texan	United States	Training	2	1	AT-6.bmp
22	SM 79 Sparviero	Italy	Meduim Bomber	3	3	SM 79.bmp
23	Mig 3	Soviet Union	Fighter	1	1	Mig-3.bmp
24	BF 110	Germany	Multi Role Aircraft	2	2	BF-110.bmp
25	C-47	United States	Transport	2	2	C-47.bmp

Template Message with Related Database Image Field

Notice! In the above example all the graphic elements in the %Image+ field have the %bmp+ extension. They need not be bmp files but they must have the .bmp extension when listed in the associated database.

Save the template message and send it to the printer.

Data Assignment:

In Auto Data Server Settings assign the place holder element a Database field.

Data assignment(s):	
Element	Database Field
WWII Aircraft with Images	
Front	
CoPilot [S/N: CPT256P1401001] #1	
Aircraft Designation [1]	Aircraft Designation
Country of Origin [2]	Country of Origin
CoPilot [S/N: CPT256P1401001] #2	
Type [3]	Primary Use
Crew [4]	Crew
Number of Engines [5]	Engines
GeeBee 128 256 3821 [6]	Images

↑
↑
 Place Holder Element Database Field

Sending the graphic Files to the Printer:

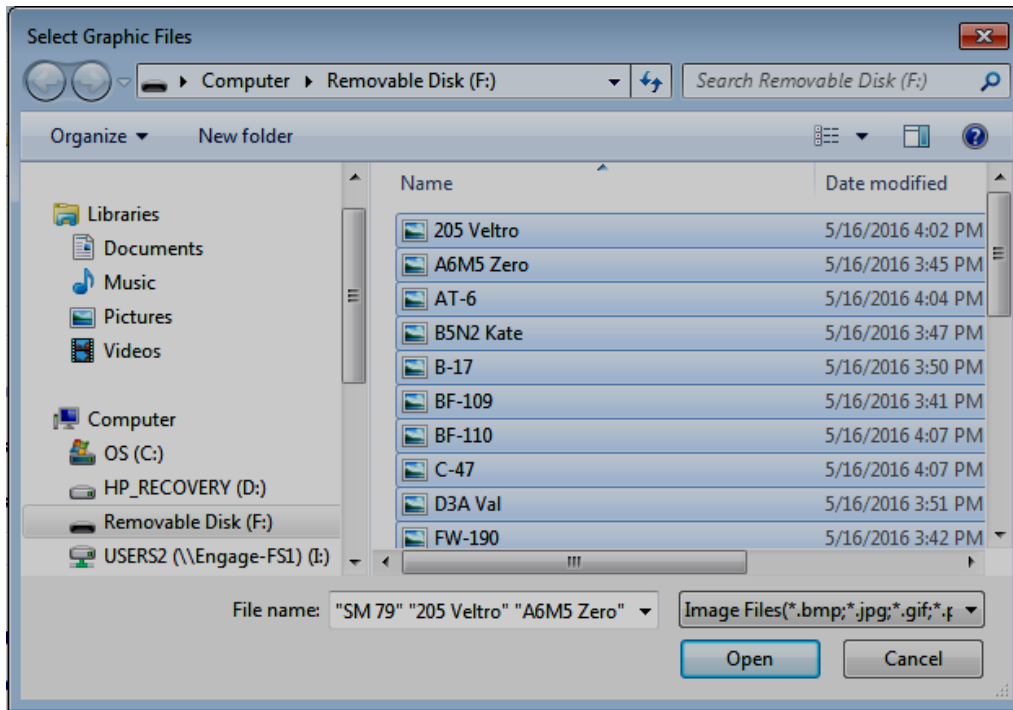
To print a graphic element associated with a database record the graphic file must reside in the printer.

Attention! The graphic file names in the database record must end with a **%bmp+** extension. The graphic file itself need not be a .bmp file but the file name must have a bmp extension. When the printer receives and prints a database record containing a graphic it will look for a .bmp file. If it doesn't see a .bmp the message will still print but without the associated graphic. Also keep in mind that accuracy is very important when entering the file names into the database. Typos and incorrect upper and lower case will prevent a graphic element from printing.

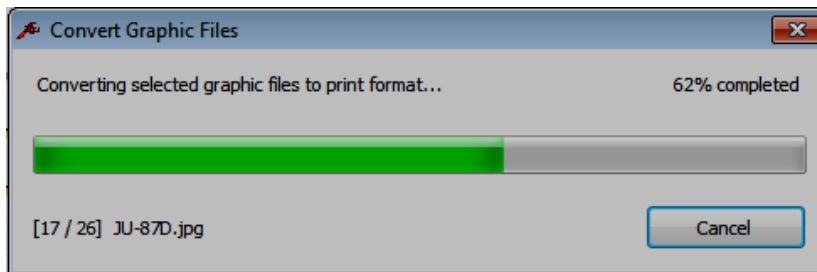
Process and copy graphic file(s) to the printer(s)

Use the **Process and copy graphic file(s) to the printer(s)** button in Server Settings to copy graphic files onto the printer(s).

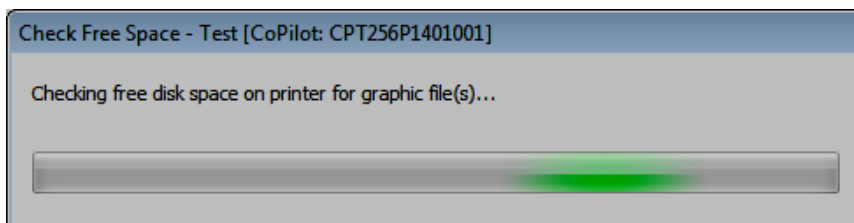
The **Select Graphic Files** window will open. Select the graphic files that you wish to copy to the printer(s) and select **Open**.



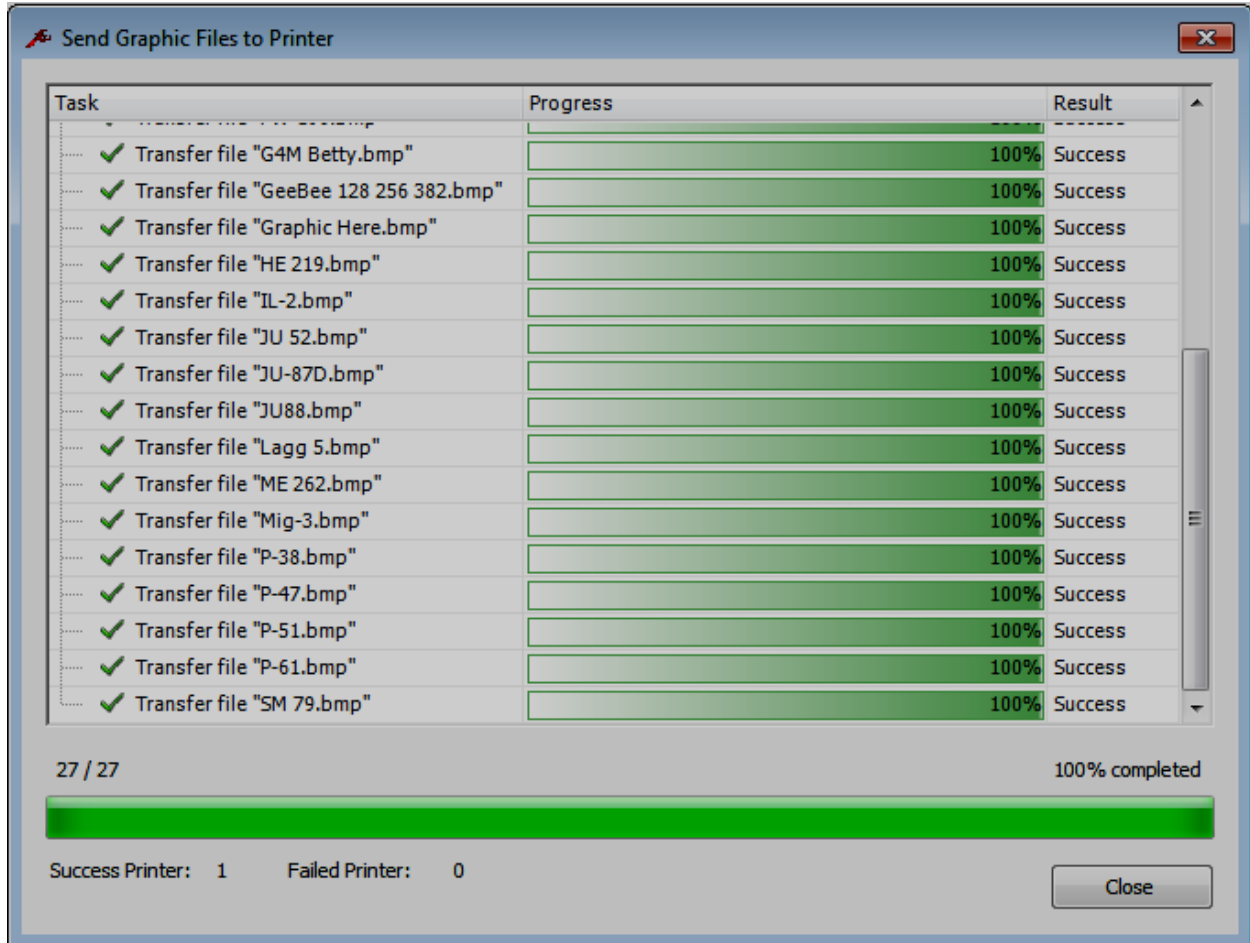
A progress window will display briefly while the files are converted.



Another progress window will briefly display as the target printer(s) are checked for free space.



A progress window will display as the graphic files are copied on to the target printer(s).



After all the files have been copied to the target printers select **Close** to close the **Send Graphic Files to Printer** window.

The Auto Data linked graphic is now part of the message and will print with the associated record.

Print Station/Message Data Transfer

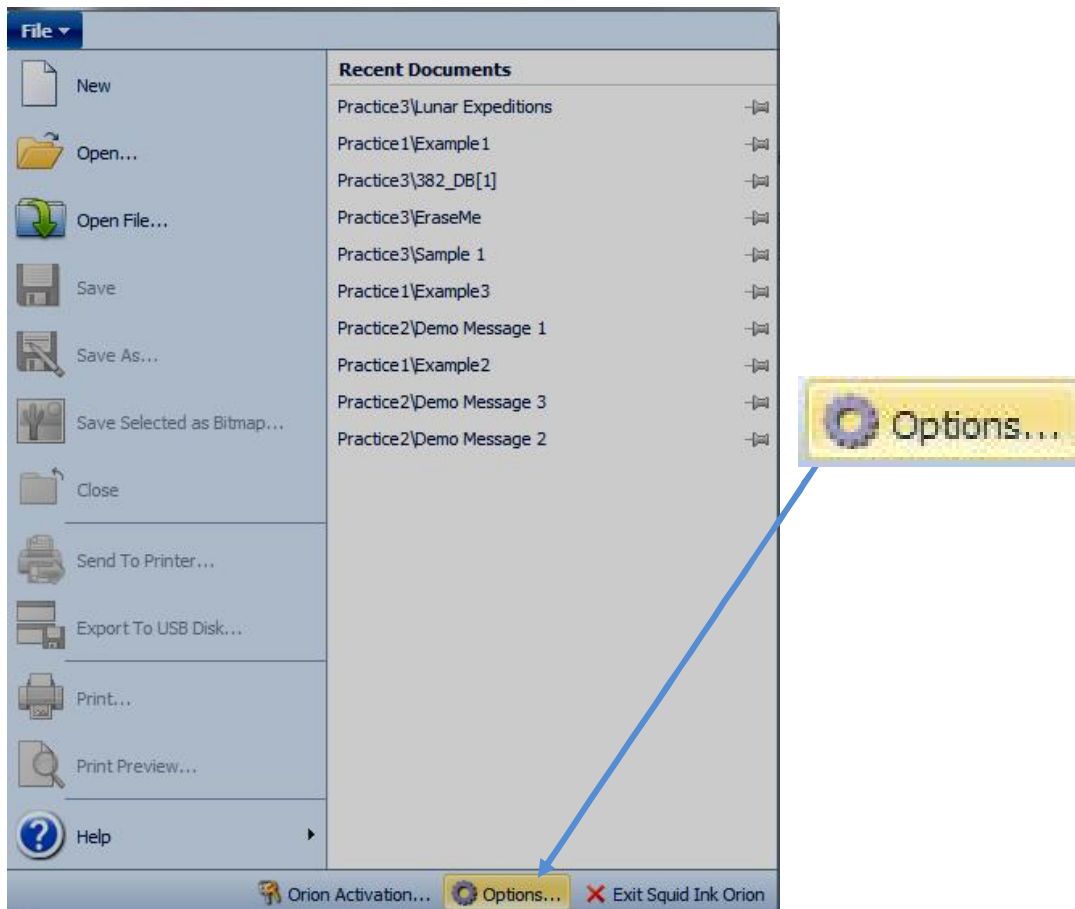
All the data pertaining to existing print stations and or messages can be saved to another location. For example, print stations created in Orion[®] on a desktop work station can be exported and saved to a USB Stick, connected tablet, desktop computer or a remote file server. All the relative data associated with the print station including messages and printers can be transferred and saved.

Transferring print station and message data across platforms is done in two steps:

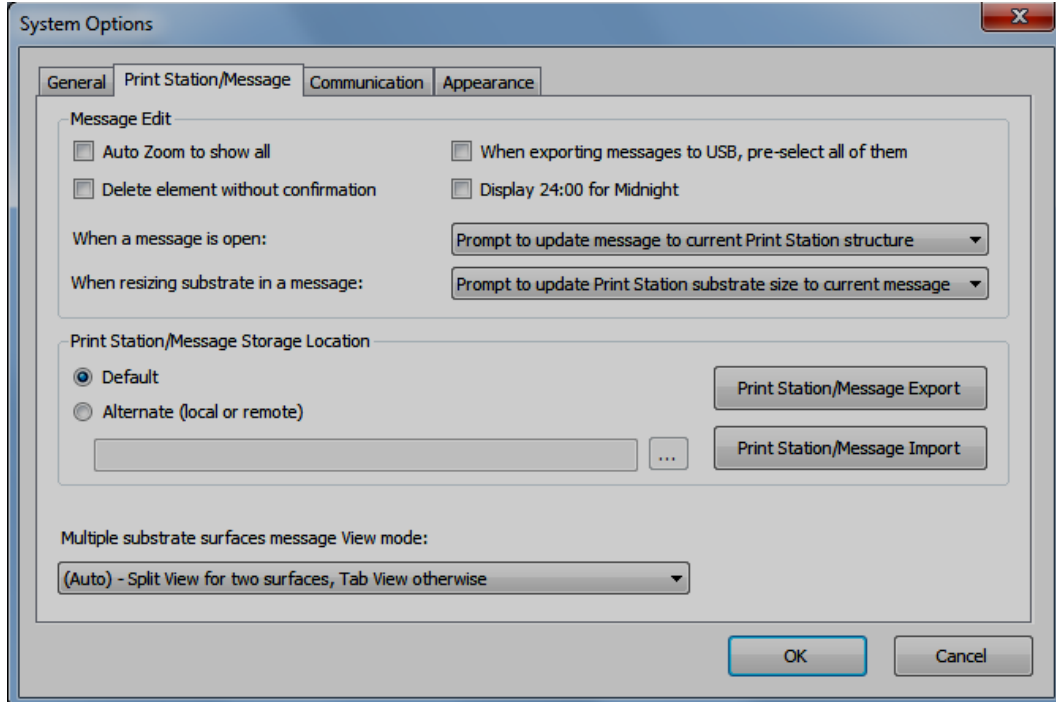
- **Export** the print station/message data to a storage device. For example a USB drive or a connected LAN server.
- **Import** the print station/message data from the storage device to the desired platform. For example, a tablet or another desktop computer at a different location.

Print Station/Message Export:

To export print station and message data, select **O**ptions+ from the **F**ile+ window.

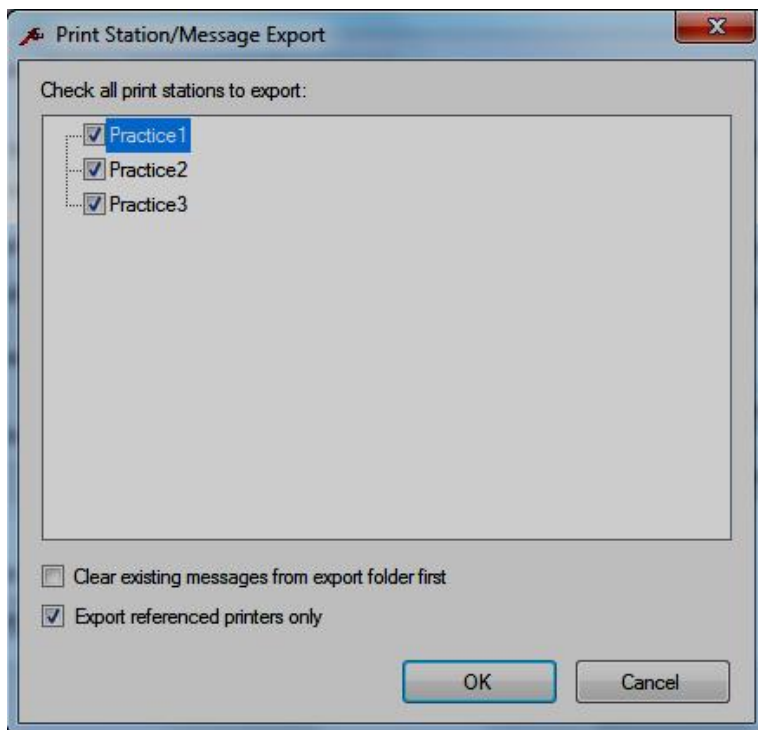


In the %System Options+ window select the Print Station/Message Tab.



Print Station/Message Export

In the %Print Station/Message+ window select %Print Station/Message Export+.



A list of all the print stations will display in the Print Station/Message Export window. In the above example there are three print Stations shown.

Clear existing messages from export folder first

Checking this box will delete all the existing print stations and messages in the target folder.

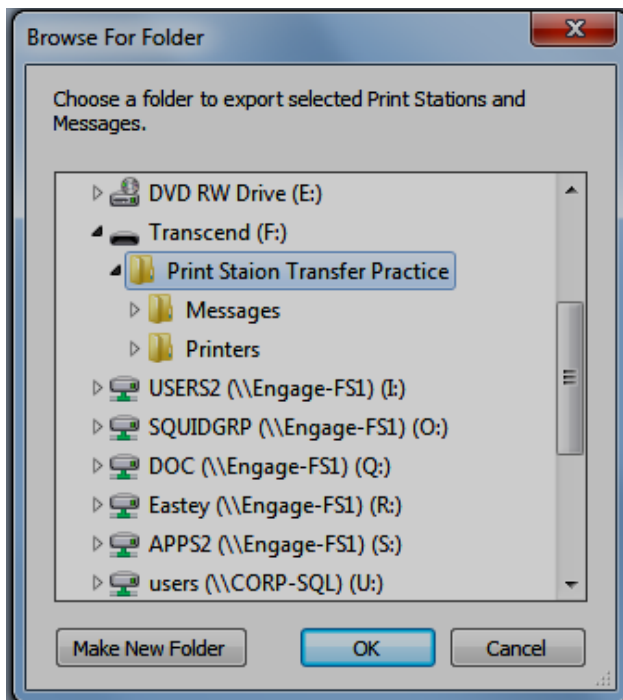
Attention! Clear all existing print stations and messages in Orion first+ will delete all print stations and messages in the target folder. Not only duplicates but all the print station and message data in will be deleted.

Export referenced printers only

Checking this box will export only those printers referenced in the selected print stations. Leaving the box unchecked will export data for all the currently registered printers.

Check the Print Station(s) you wish to copy and select “**OK**”.

The “**Browse For Folder**” window will open.



In the **Browse For Folder** window you can navigate to the desired location or create a new folder to save the Print Station/Message data.

Choose a folder location that can be accessed by the intended target device such as a USB drive or connected LAN server.

Make New Folder

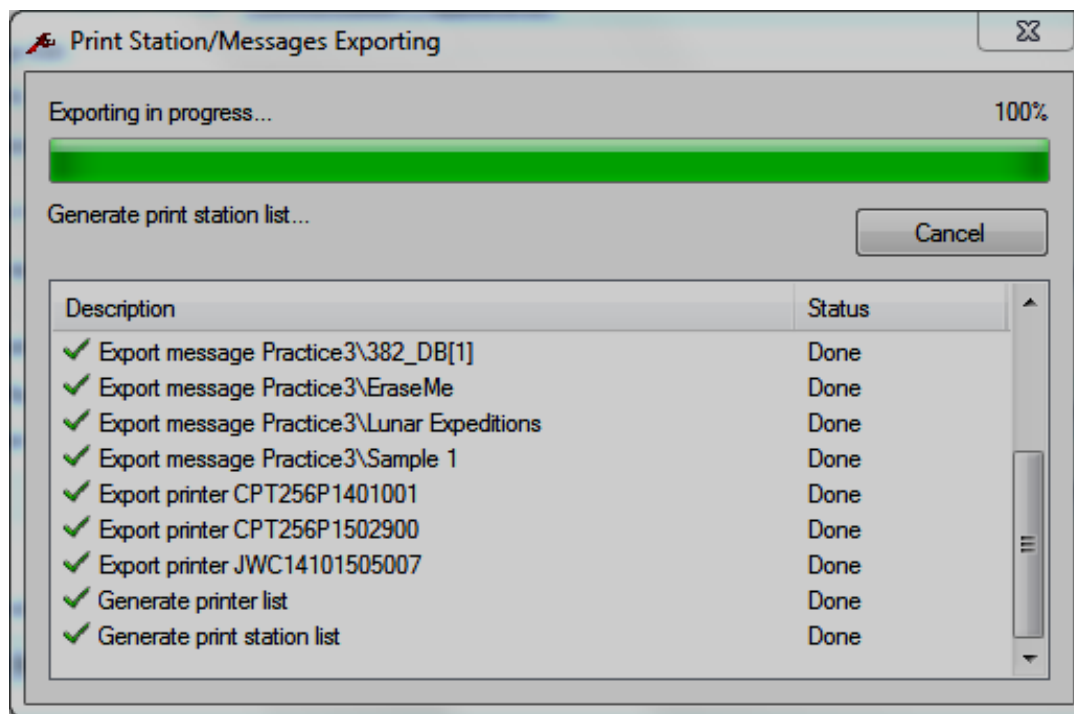
To make a new folder, select the **Make New Folder** button and create the new folder at the desired location.

Tip! It is not necessary to create a new folder. However, creating a new folder with a unique name that is specific to the print station and messages will help manage message storage and retrieval.

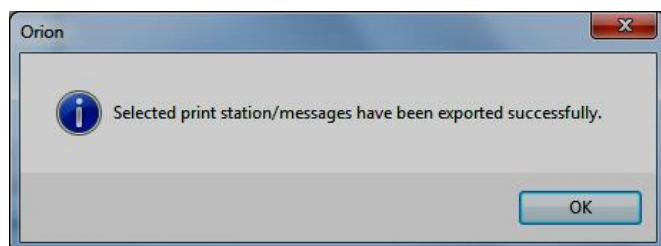
OK

Select “**OK**” to export the Print Station/Messages to the destination folder location.

While the data transfer is taking place a progress window will display.



Notice that all the data contained in the Print Stations have been saved to the new location including messages and associated printers.

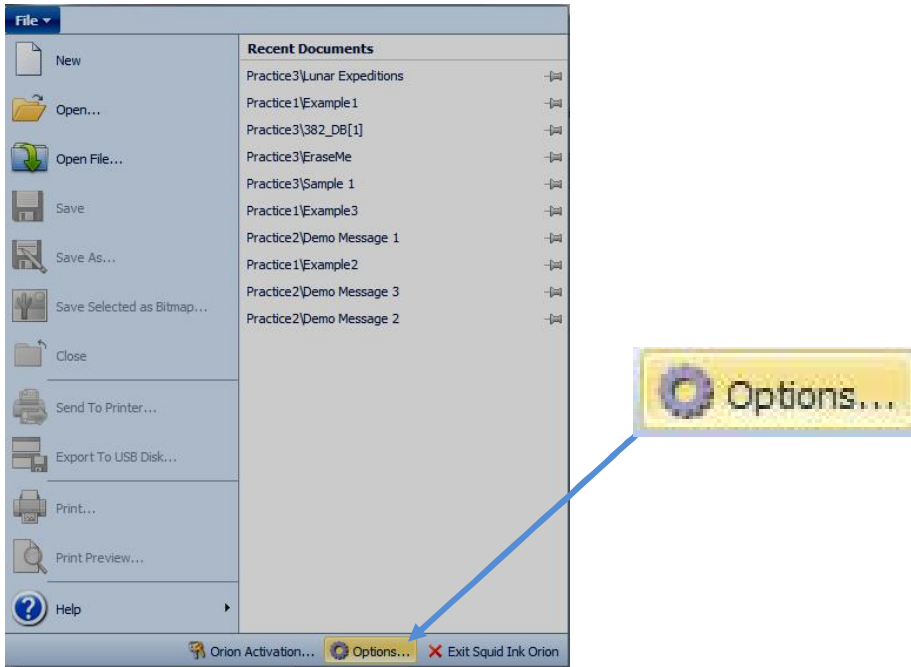


When the successfully exported window appears, select “**OK**”.

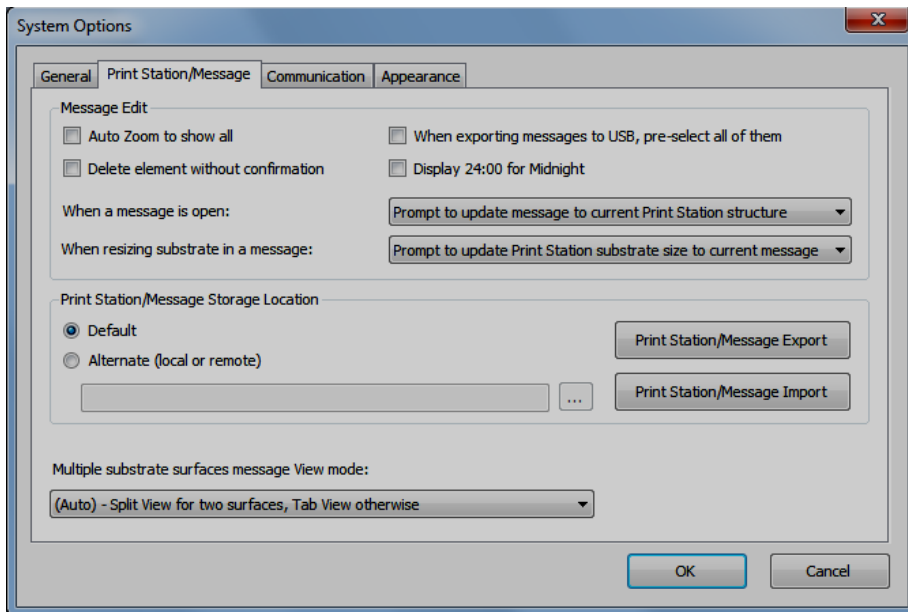
Print Station/Message Import:

You can import print station and message data from a selected location where the information has been stored.

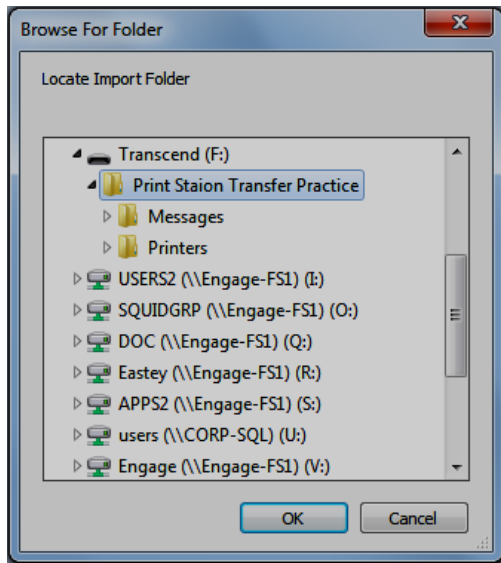
To import print station and message data, select **Options+** from the **File+** window.



In the **System Options+** window select the **Print Station Message+** Tab.

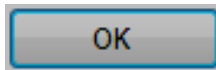


In the **Print Station/Message+** window select **Print Station/Message Import+**.

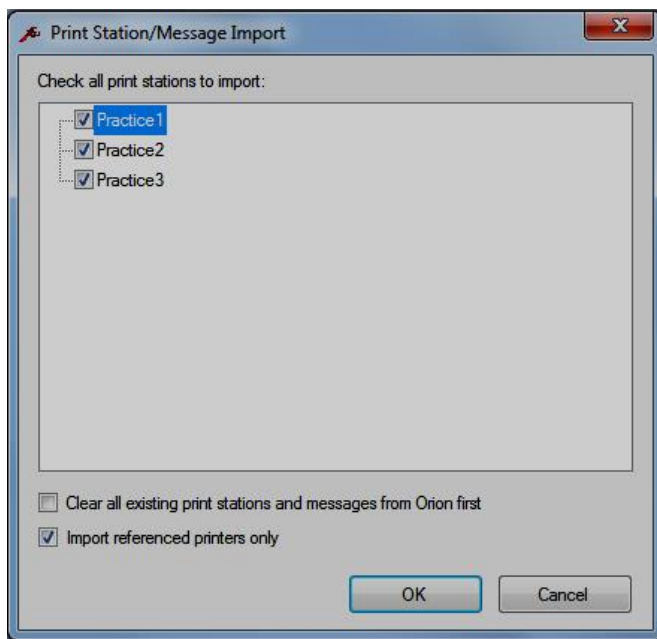


The **Browse For Folder** window will open.

In the **Browse For Folder** window you can navigate to the location where the desired print station(s) reside.

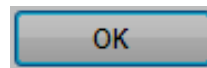


Select **OK**.



The **Print Station/Message Import** window will open and display a list of print stations residing at the specified location.

Place a check next to all the print stations you wish to import.



Select **OK**.

Clear all existing print stations and messages from Orion first

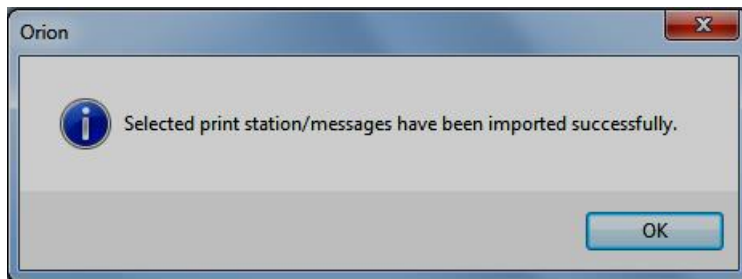
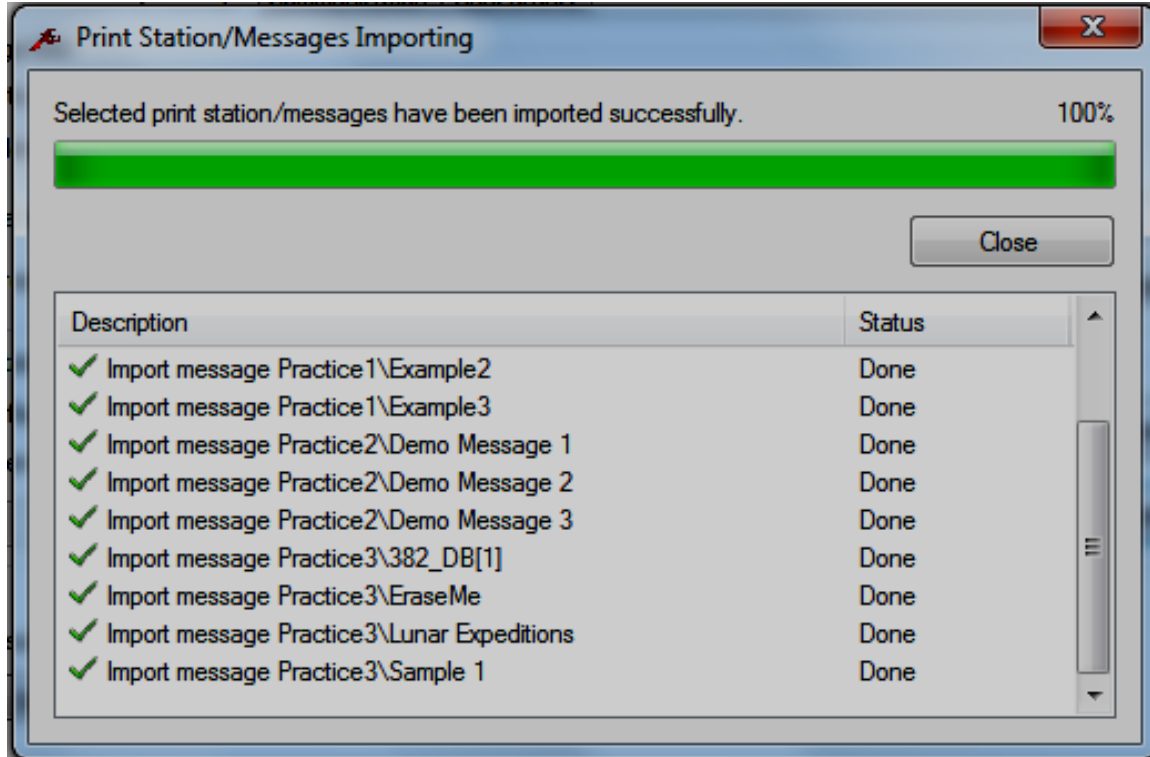
Checking this box will delete all the existing print stations and messages in your current Orion folder.

Attention! **Clear all existing print stations and messages in Orion first** will delete all print stations and messages. Not only duplicates but all the print station and message data in will be deleted.

Import referenced printers only

Checking this box will import only those printers referenced in the selected print stations. Leaving the box unchecked will import all printers contained in the Import folder.

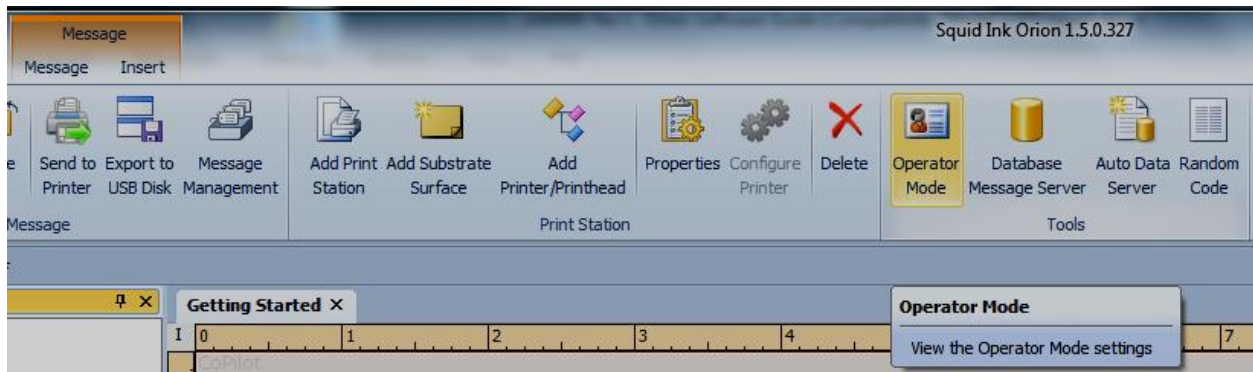
A progress window will open while the data is being imported.



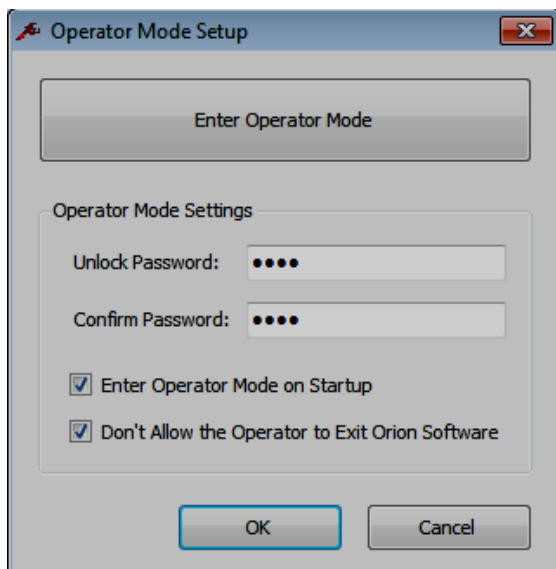
When the successfully imported window appears, select **OK+**.

Operator Mode

Orion has the capability of entering a mode in which the user is locked out of most program functions except selecting message files, transferring them to the printer and some settings functions called the **Operator Mode**. This prevents unauthorized personnel from editing message information in error or creating undesirable messages.



Click on the **Operator Mode** icon to open the **Operator Mode Settings** window.



Unlock Password is a key that you define to later unlock the operator mode and return to the **Design Mode**. You can define any password you want. Keep in mind that it is case sensitive. You can leave both boxes blank if you don't want to set a password.

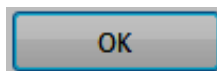
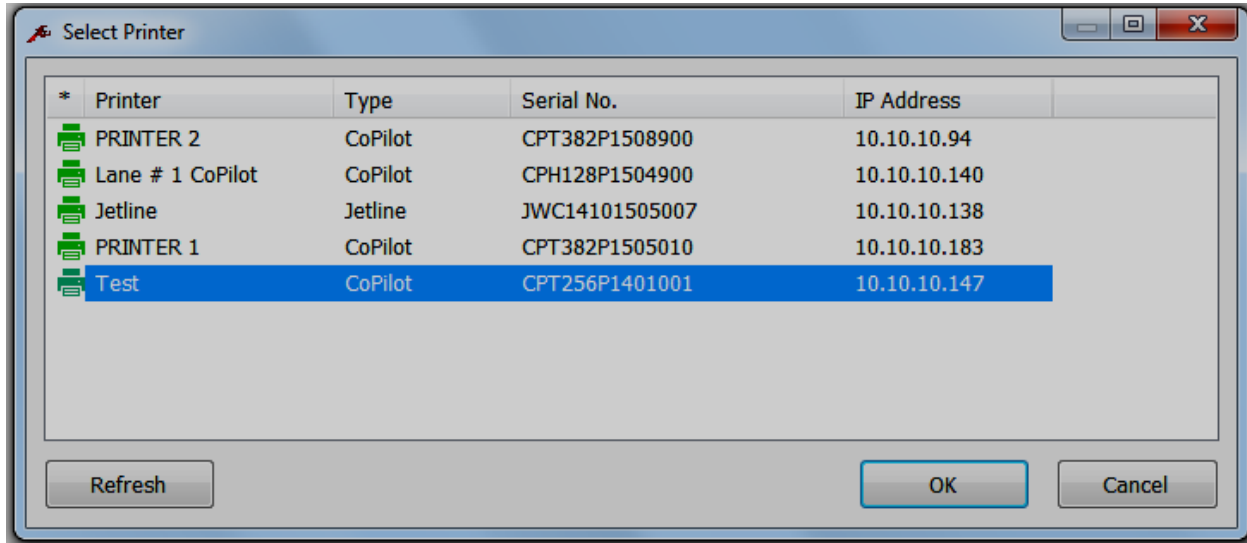
The **Enter Operator Mode On Startup** checkbox allows you to specify that from now on whenever you start the Orion program you will immediately be put into the operator mode.

Don't Allow the Operator to Exit Orion Software will keep the operator in the Orion software and prevent unauthorized use of the desktop computer.

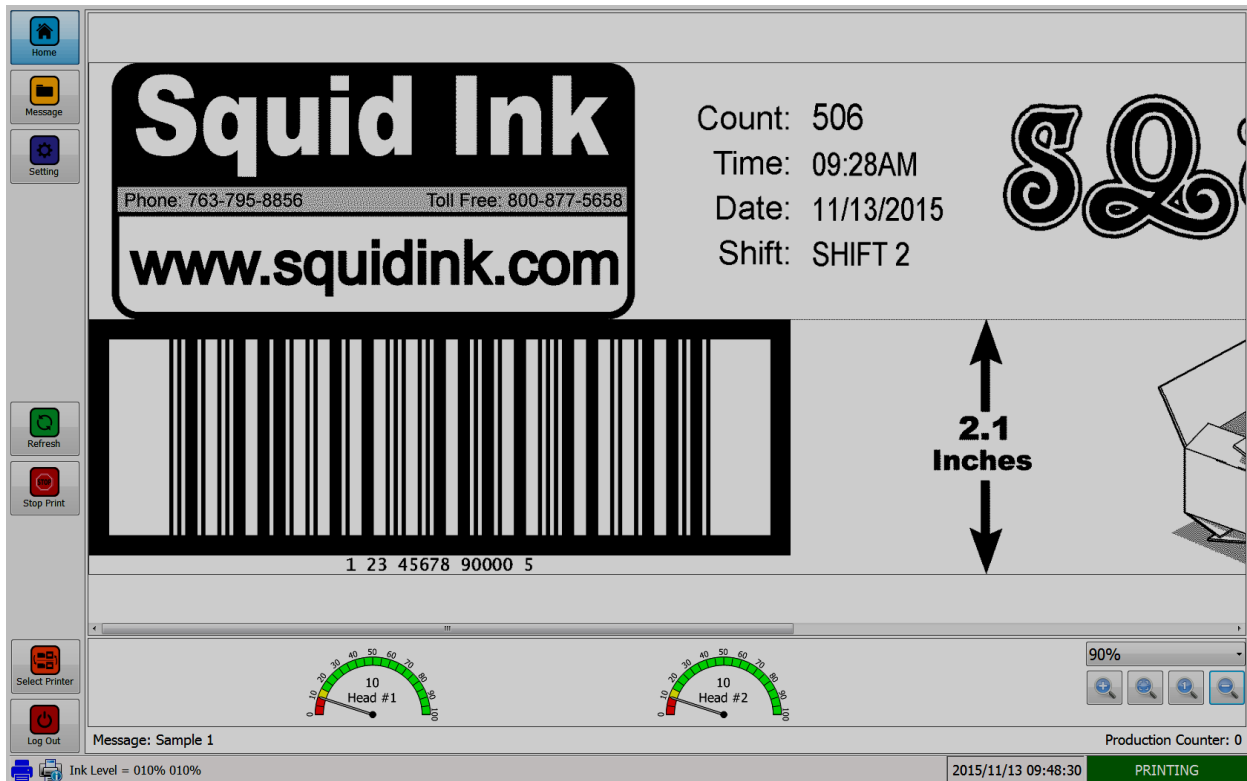
Attention! Remember the password you created to enter Operator Mode. You will need it to exit Operator Mode and return to the Design Mode.

Select **Enter Operator Mode** to enter the operator mode.

The Operator Mode will display the connected printers associated with the current print station.



Highlight the desired printer and select **OK**.



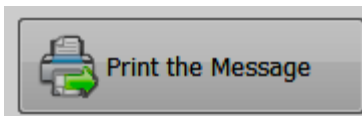
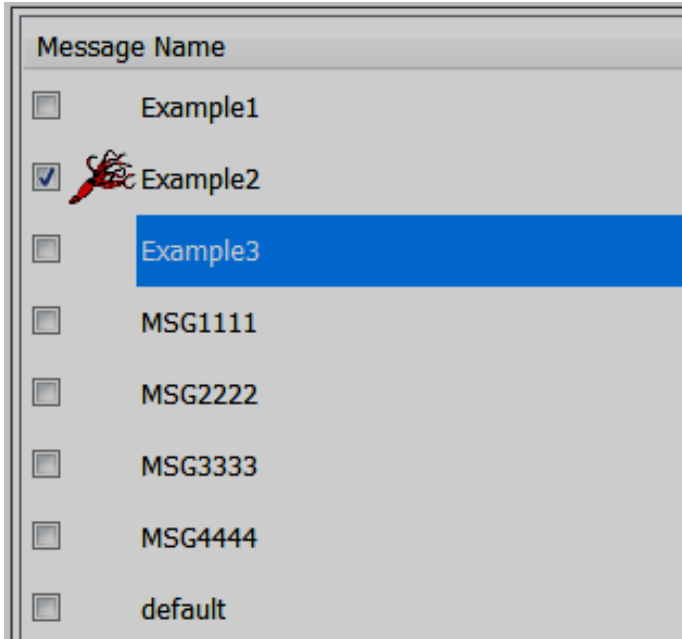
When the printer is connected the current message and information for the connected printer will display.

Operator Mode Change Message



To select a different message to print select the message icon.

The message window will open and display a list of available messages.

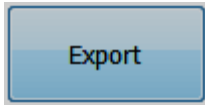


Place a check in the box next to the desired message and select the **Print the Message+** button located in the lower right corner of the screen.



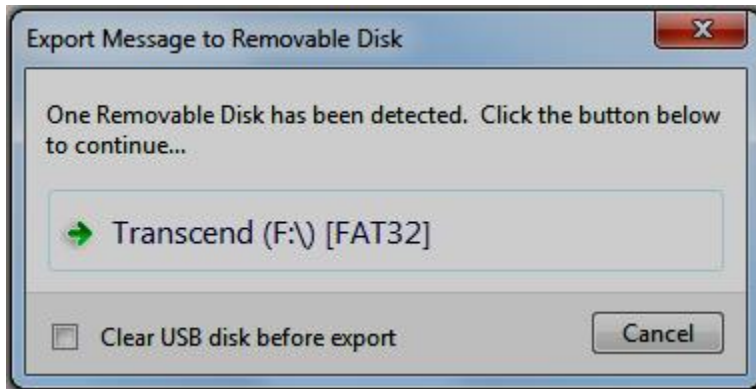
Notice the message currently residing in the printer and printing has a little Squid Icon next to it.

Message Export Operator Mode



Select the **Export** Button in the Operator Mode to export a message to a connected USB drive.

The **Export to Removable Disk** window will open.

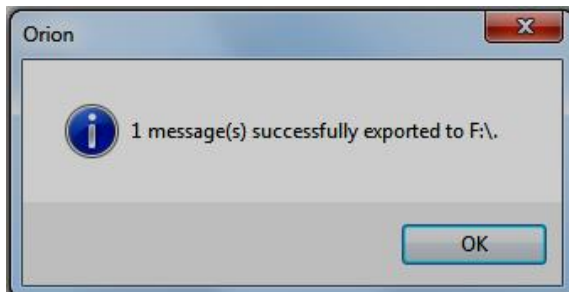
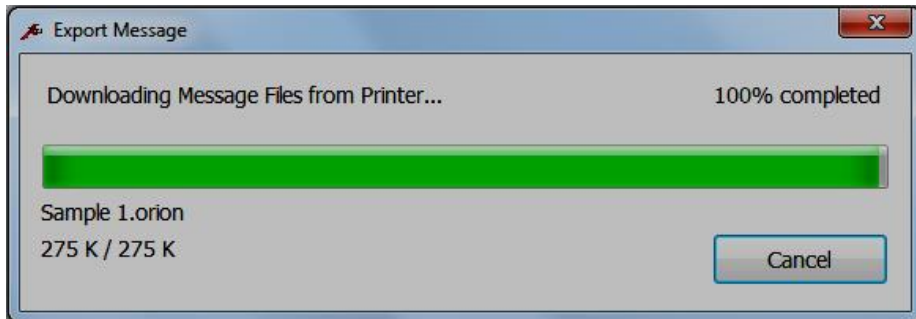


Clear USB disk before export

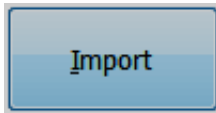
Checking this box will clear all existing Orion messages from the USB disk. It will not affect unrelated data that may be stored on the same drive.

Click on the button containing the target drive to export the message(s).

A progress window will display briefly followed by a message successfully exported notice.

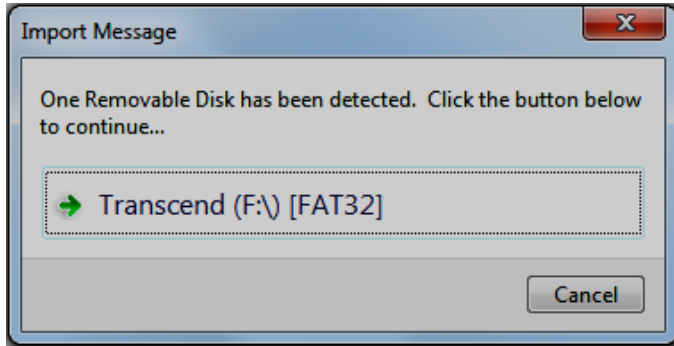


Message Import Operator Mode

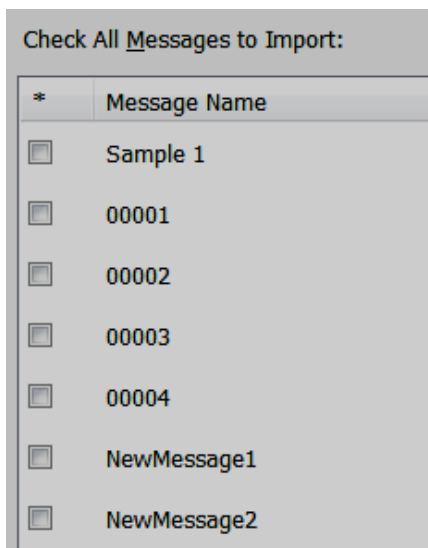


Select the **Import** Button in the Operator Mode to import a message from a connected USB drive.

The **Import from Removable Disk** window will open.

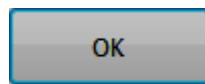


Click on the button containing the USB drive where the messages are residing to import the message(s).



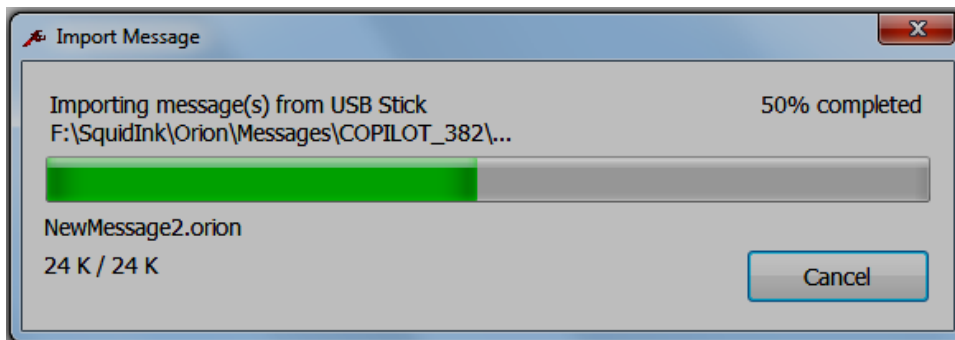
A list of message residing on the selected USB drive will display.

Check the box next to the messages you would like to import.



After all the desired messages have been checked select **OK**.

A progress window will display briefly as the messages are imported.



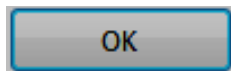
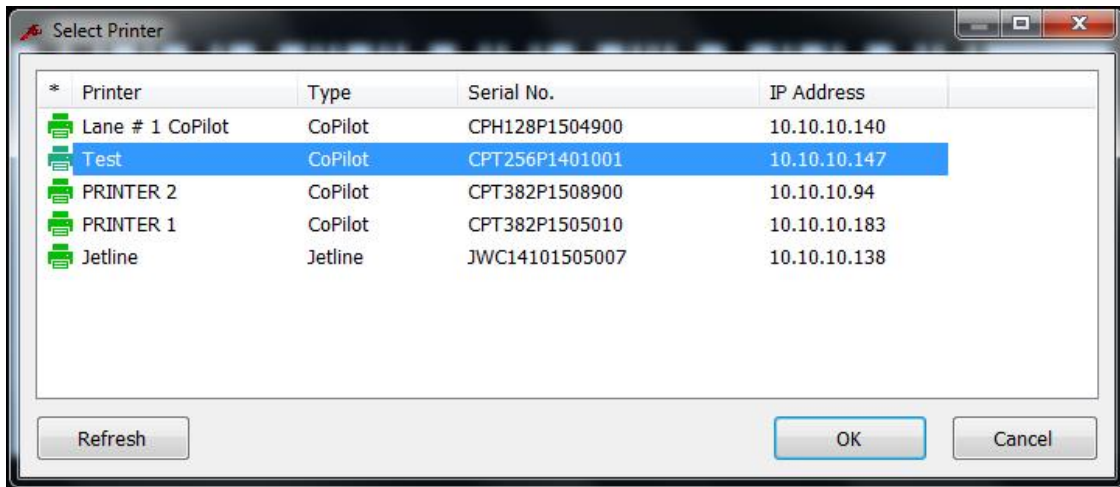
The imported message(s) can now be selected and printed in the normal fashion.

Selecting a Different Printer in Operator Mode



To change printers in Operator mode select the **Select Printer** icon.

The list of connected printers will display.



Highlight the desired printer and select **OK**.

Orion[®] will then connect to the newly selected printer and display the current message residing in the printer.

Mission Designation:
Apollo 11

Crew: Armstrong

Comand Module Name: Columbia

Lunar Module Name: Eagle

Date Landed on the Moon

Message: Apollo 11

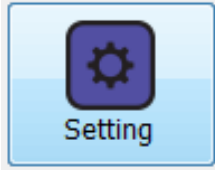
Production Counter: 437

2015/11/13 10:16:10

PRINTING

Operator Mode Settings

There are several printer settings that can be changed while in the Operator mode.



To go to the settings screen, select the **%Setting+** icon.

The **%Setting+** screen will open and display a list of printer settings that can be accessed while in the Operator Mode.



Encoder/Line
Speed



Distance to Trigger



Print Direction



Repeat Trigger



Counters



Spit Settings



Peak Encoder
Speed



Reset Ink Level



Reset Production
Counter



Reset Calibration



Date & Time



DB Message
Server



Wifi Network



Static IP/DHCP



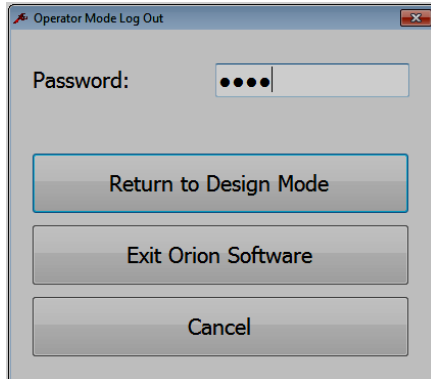
Information

A detailed description of what each setting does can be found in the User Guide that was supplied with your printer.

Return to Design Mode



To return to the design mode select the **Log Out** icon.

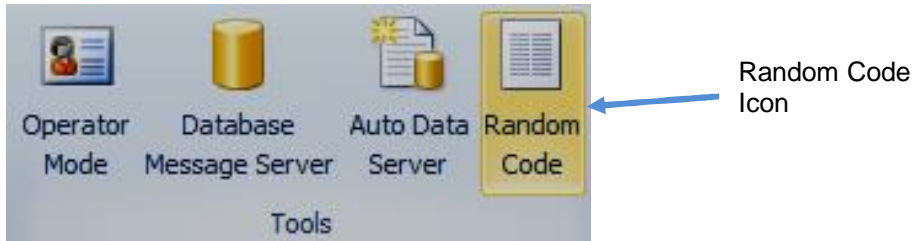


Enter the password that was defined and select **Return to Design Mode**.

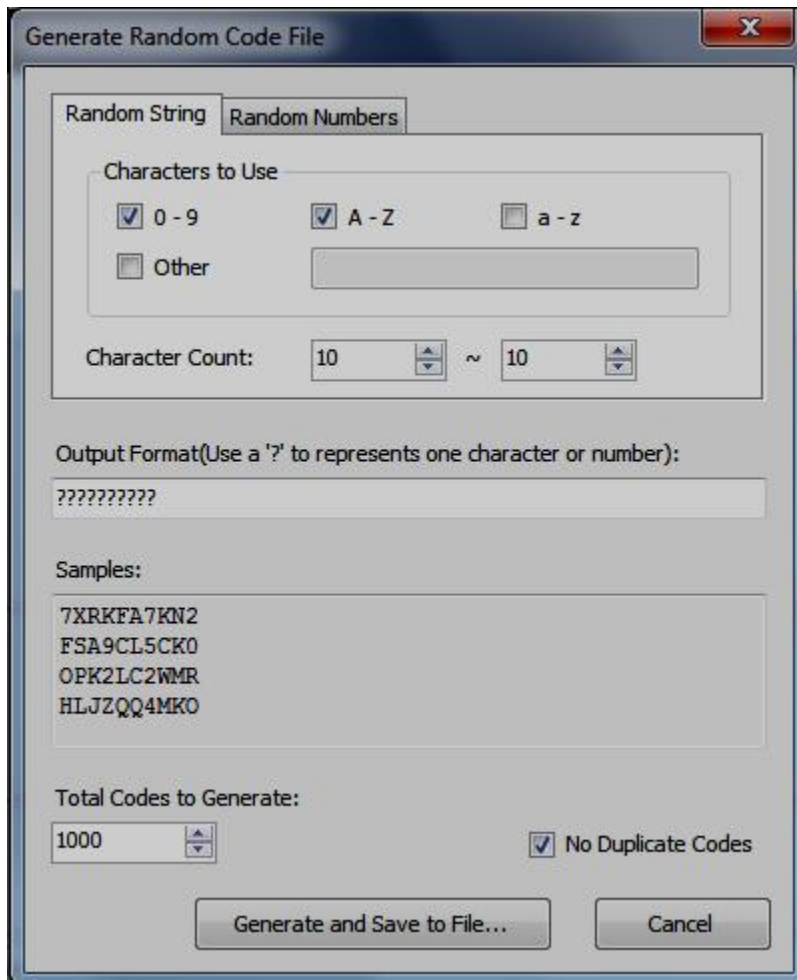
Generating Random Code Files

Orion can create a batch of random code files that can be saved as text files and printed.

To generate a Random Code File select the **Random Code** icon located in the **Tools** group.



The **Generate Random Code File** window will open.



Random String Tab

Under the **%Random String**+Tab you can define the types of characters and parameters for the random code.

%Characters to Use+defines the type of characters to use in the random code.



Check this box to use numeric characters 0 thru 9. This is the default setting.



Check this box to use upper case characters A thru Z. This is the default setting.



Check this box to include lower case characters in the random code file.

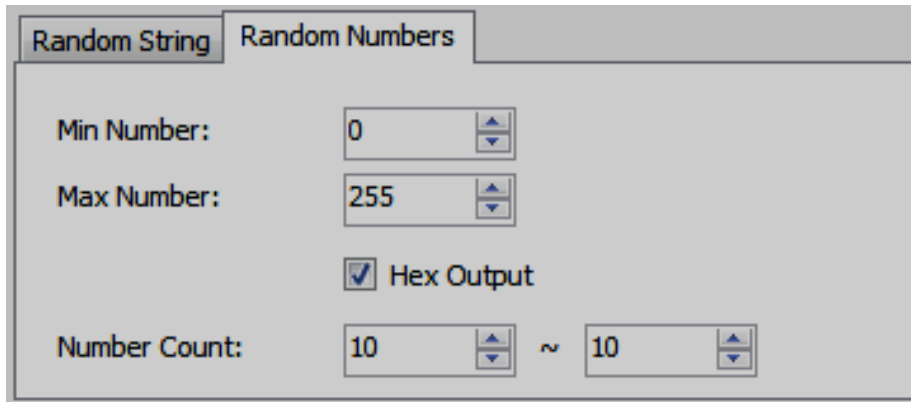


Check the **%Other**+box to include other characters in the random code. Enter the other characters you wish to use in the character box.

%Character Count+will define the number of characters used in the random code. Enter an upper and lower value. The random code will be any length between and including the two values.

Random Numbers Tab

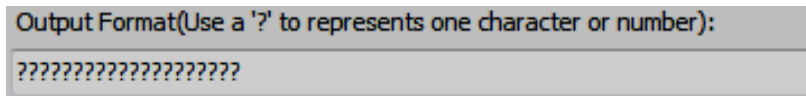
Under the **%Random Numbers+** Tab you can define the numbers and parameters to be included in the random code.



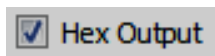

Enter the lowest number to be used in the random code. The default is 0.



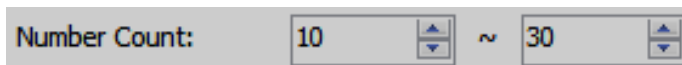
Enter the highest number to be used in the random code. The default is 255.



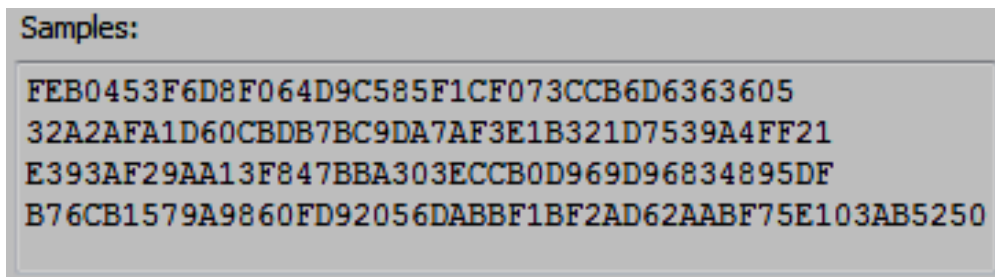
The **%?** will represent one character or number. You can also define a character or number by entering in this box. (For example, A1?????B2?????C3????).



Check this box to make hexadecimals and decimals part of the random code.



%Number Count+ will define the number of characters used in the random code. Enter an upper and lower value. The random code will be any length between and including the two values.



The **%Samples+** box will display a preview of some random codes that may be generated.

Total Codes to Generate:

1000

Use the up and down arrow keys or enter the number of codes you wish to generate. The default is 1000.

 No Duplicate Codes

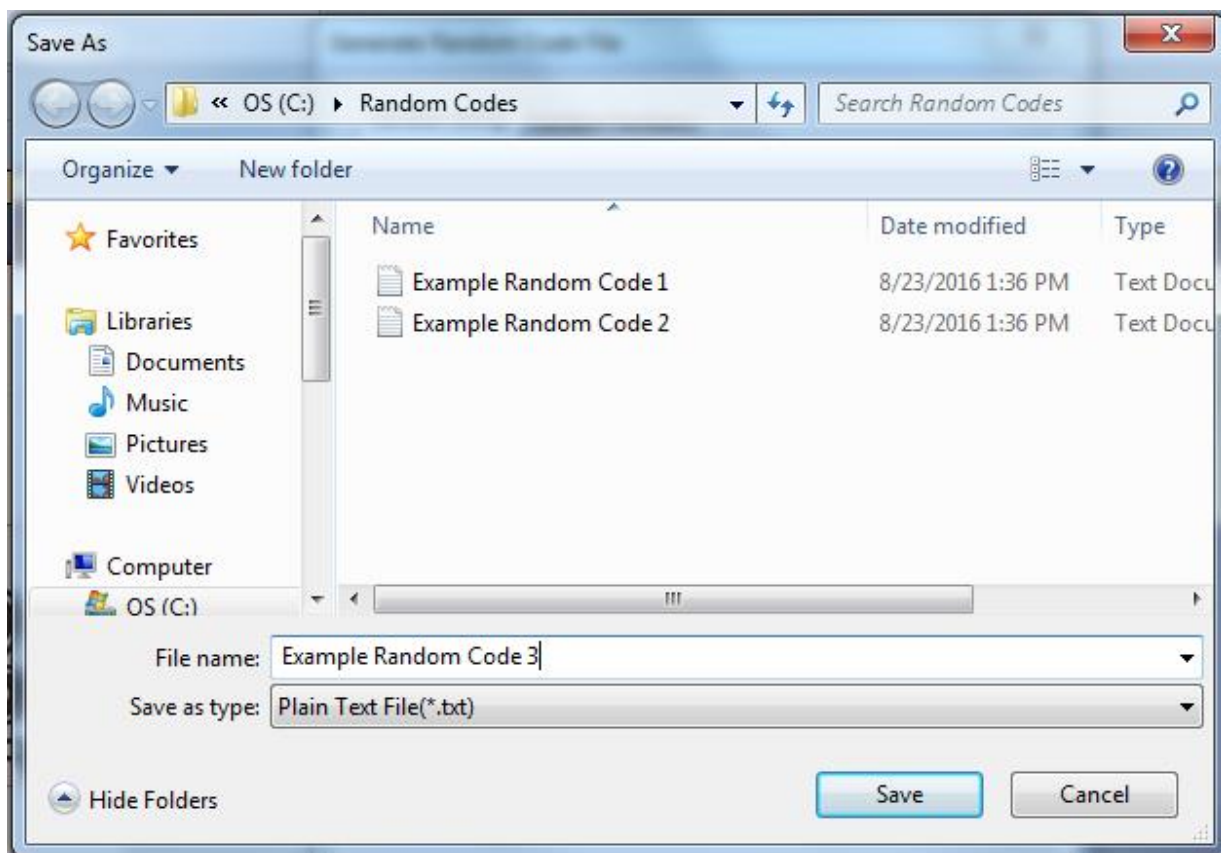
Check **No Duplicate Codes** if you wish to ensure that no random code is duplicated.

Saving the Random Code

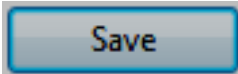
Generate and Save to File...

To save the random code file select **Generate and Save to File...**

The **Save As** window will open.

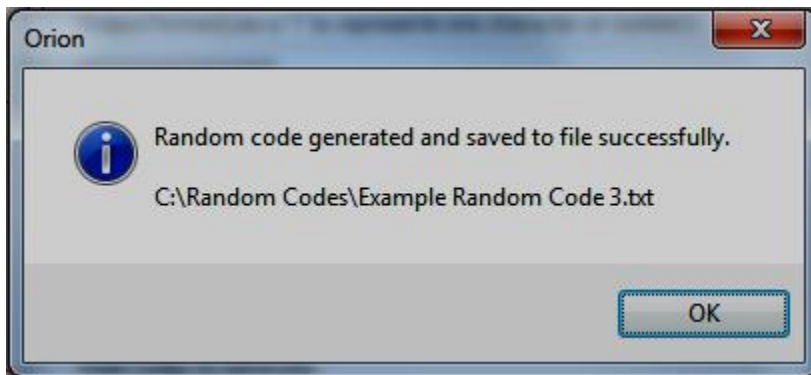
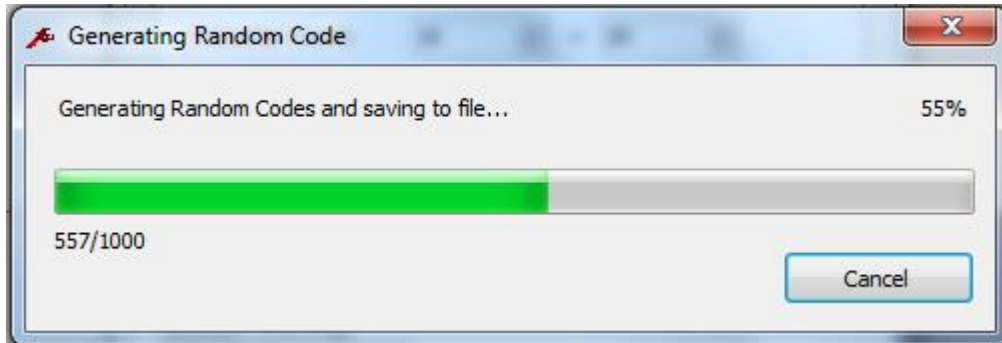


Navigate to the location where you wish to save the .txt file. In the **file name:** box enter the file name.

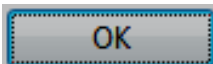


Select %**S**ave+ to save the file.

A progress box will display briefly while the random code is generated and saved.



After the random code has been generated and save select %**O**K+.



Installing System Updates

Occasionally software and/or firmware updates will become available from Squid Ink Manufacturing. Software and Printer System Firmware can be updated from the desktop via Orion. Periodically check to see if updates are available.

Downloading Updates

To download updates the desktop PC must have the Orion graphical software package installed and have internet access.

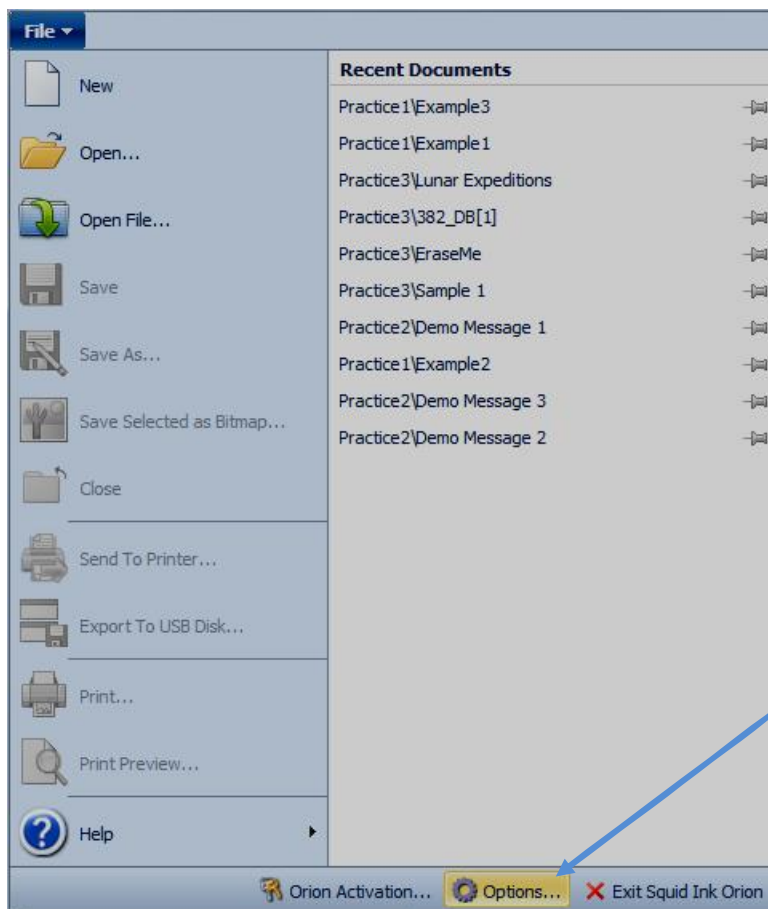


Open the Orion Graphical software package in the normal fashion.

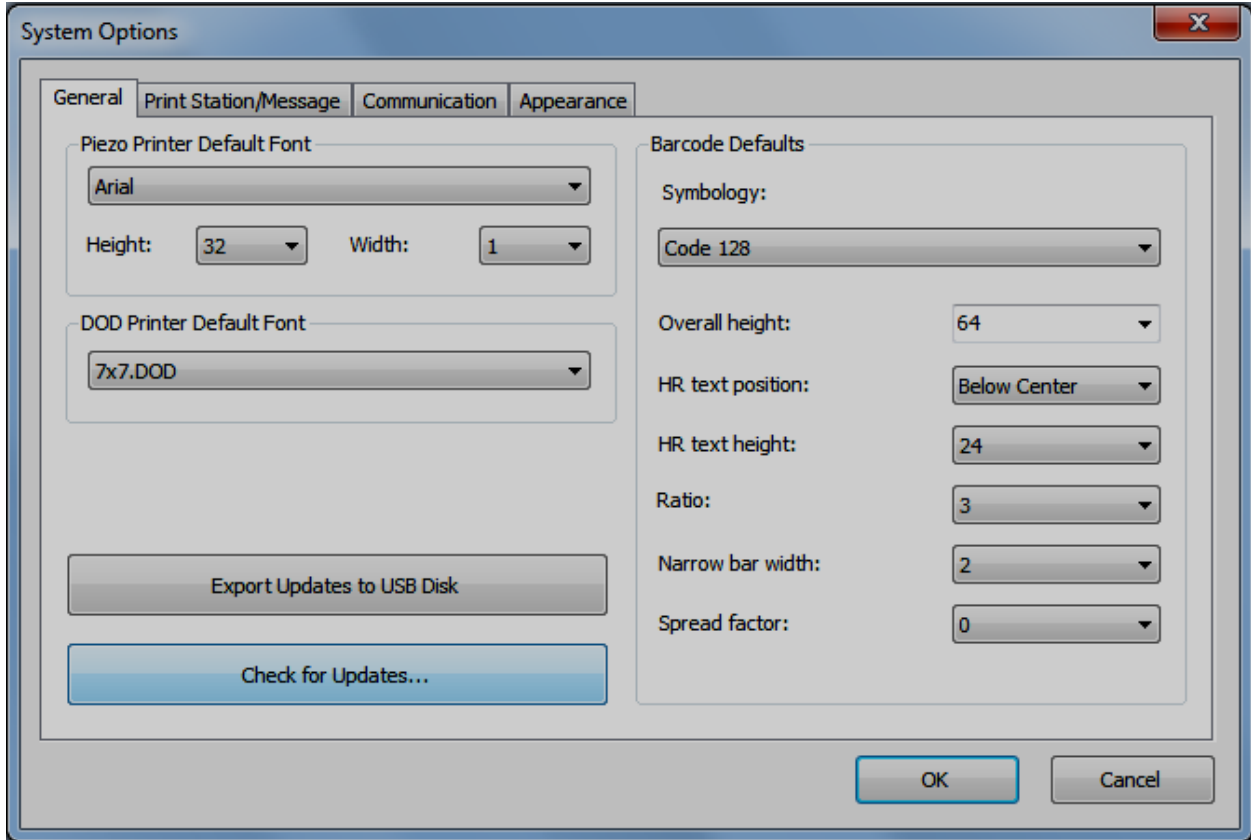


In the Orion software package select the **F**ile+tab.

Select the **O**ptions+Tab located at the bottom of the **F**ile+window.



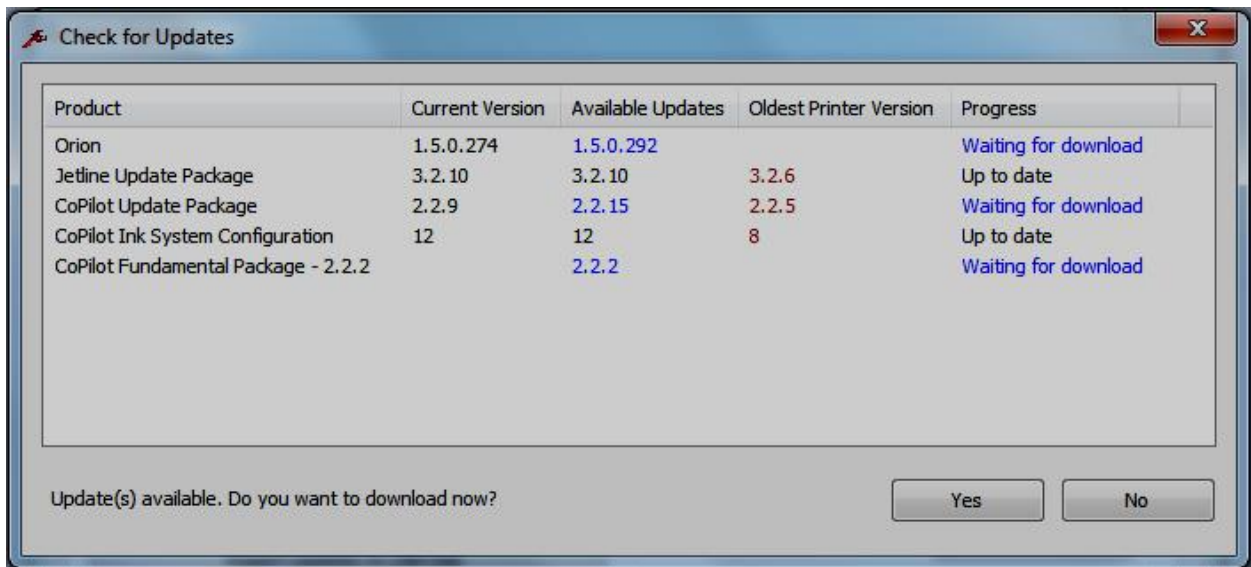
The **S**ystem Options+Window will open.



System Options Window



In the System Options Window select the **“Check for Updates...”** button. The %Check for Updates+window will open.



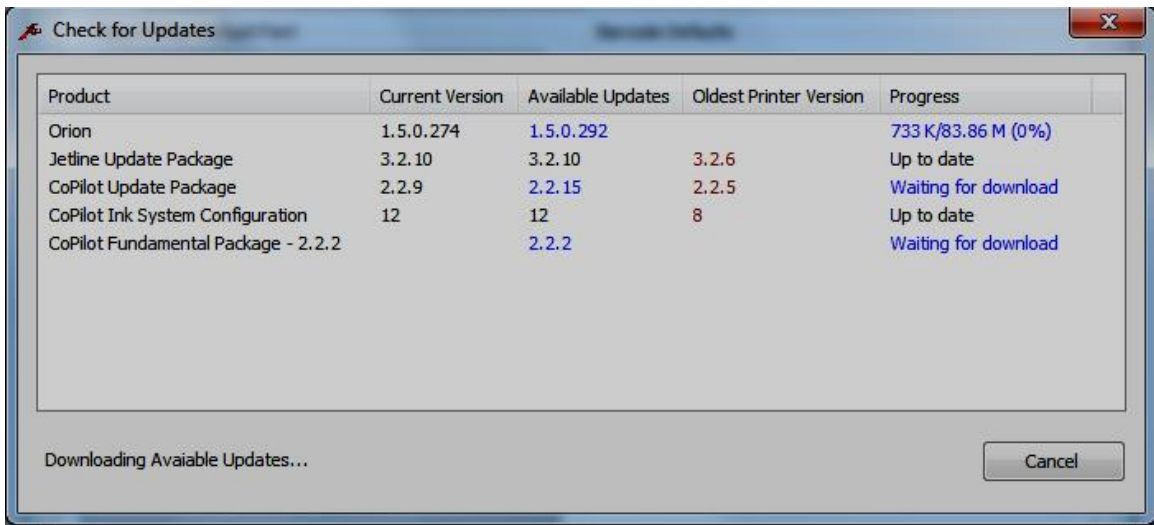
Check for Updates Window

The **Check for Updates** will display the current version of Orion and the current software/firmware version for any connected and licensed printers. Any available updates will also be displayed. Select **Yes** to download any available updates.

Select **Yes** to Download Available Updates

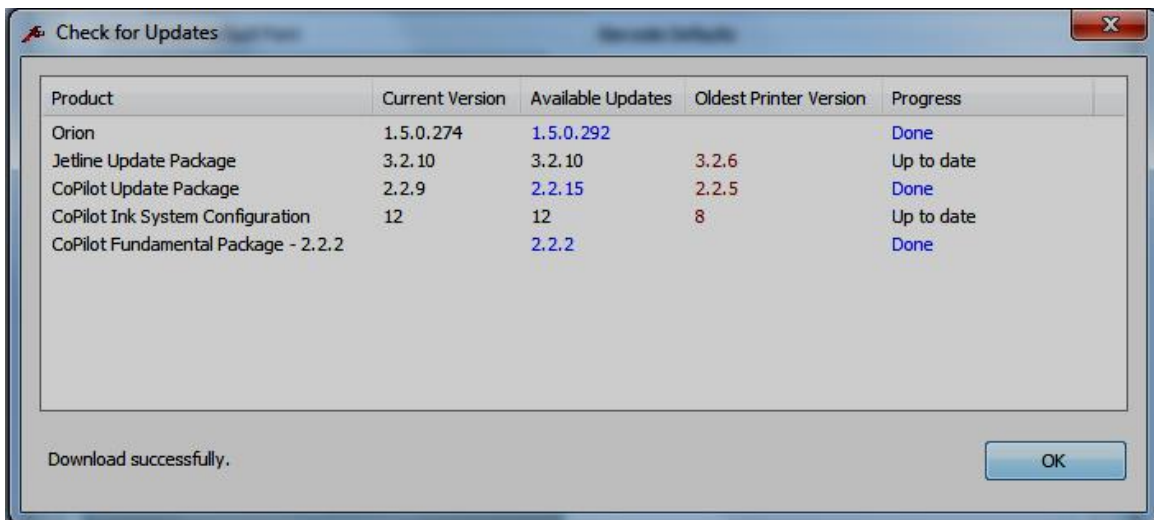


After selecting **Yes** the available updates for Orion and any connected printers will begin to download. A progress window will display during the downloading process.

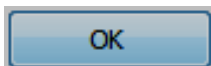


Download Progress Window

When the download is complete, **Download successfully** will display.

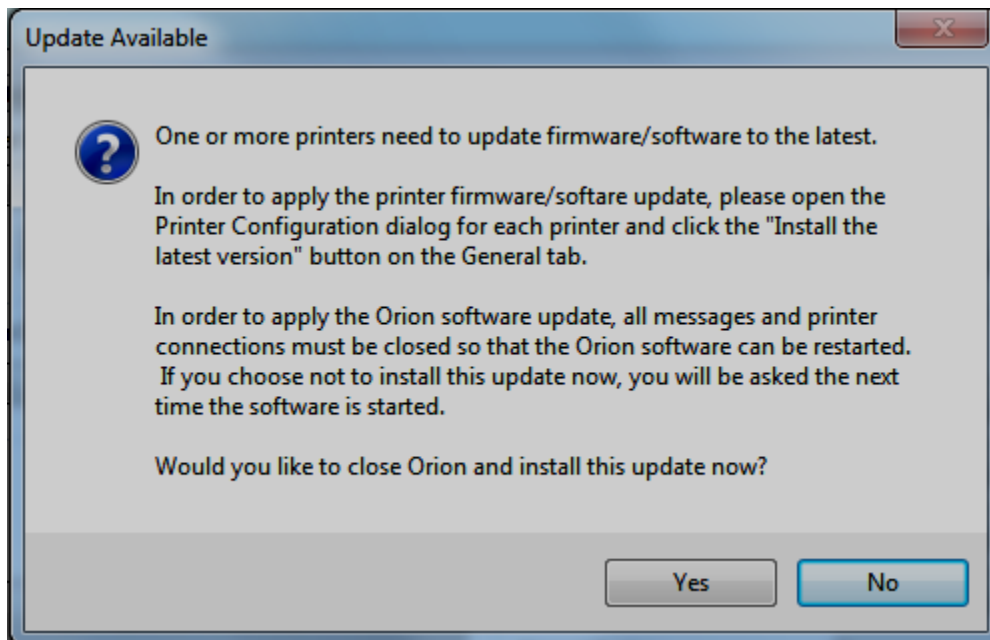


Download Successful Window

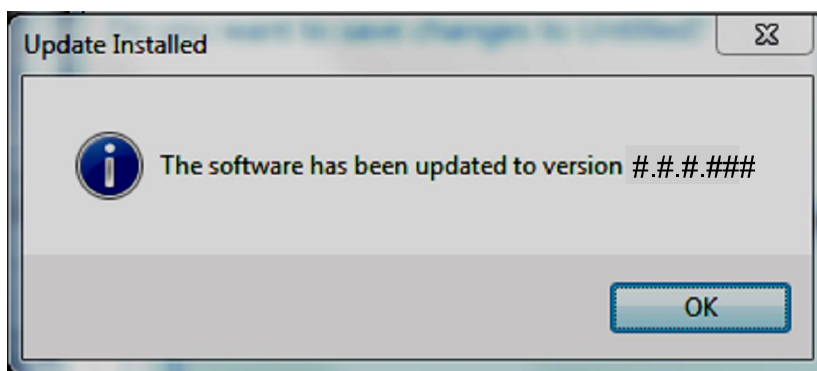


After the updates have been downloaded select **OK**.

After selecting **OK** the following window will open.



Select **Yes** to close Orion and install the updates.




The new current software version will display in the **Update Installed** window.

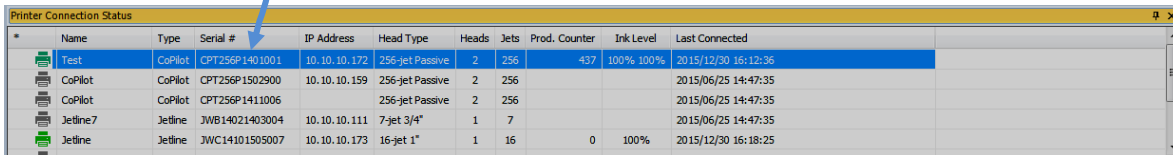
Select **OK** and resume normal operation.

Updating Software/Firmware to Connected Printers

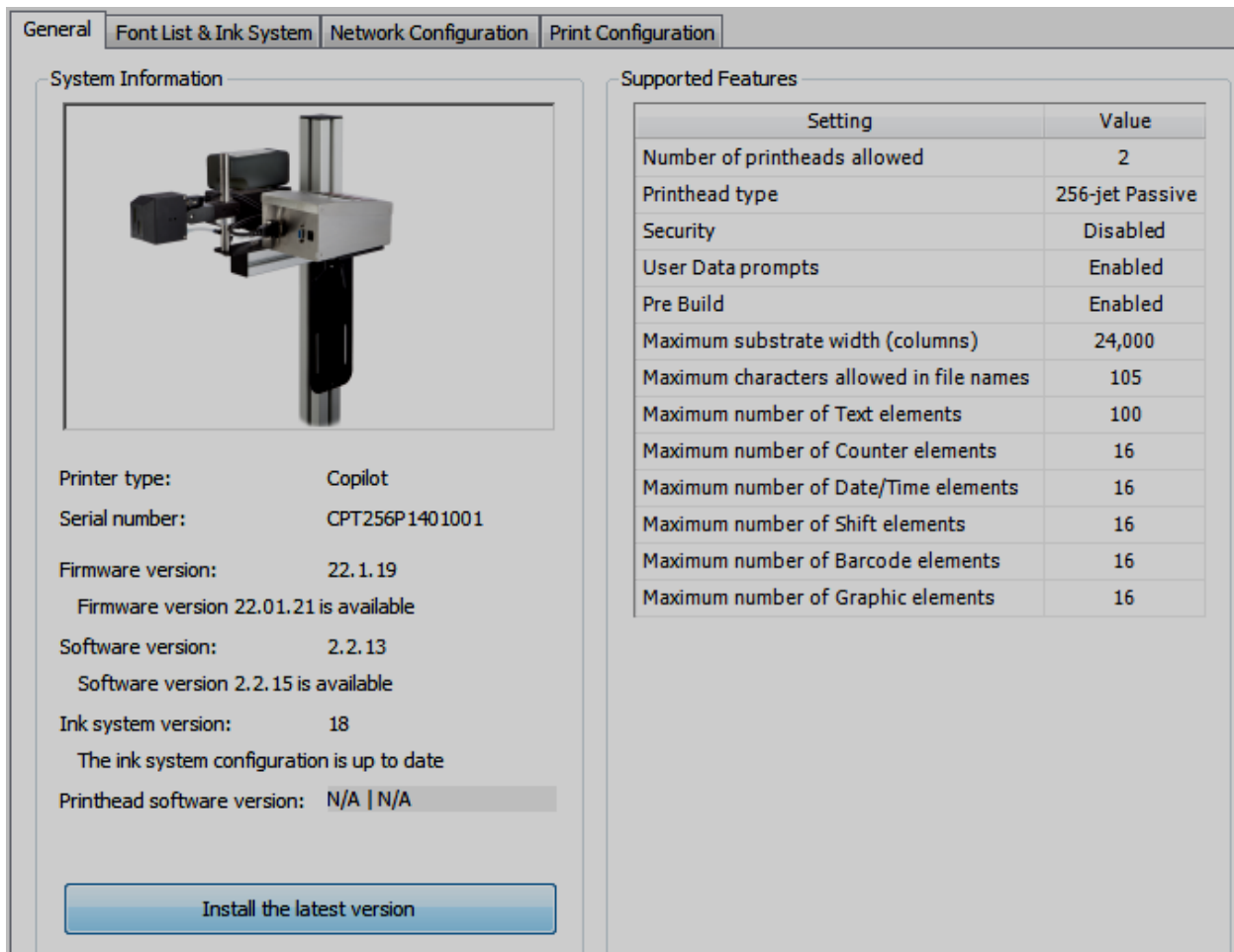
Open the Configuration Window for a connected printer.

Double mouse clicking on a printer in the Printer Connection Status panel will open the Printer Configuration window for that printer in the Orion[®] workspace. You can also open the configuration window for a selected printer by selecting the  Printer Configuration icon for a highlighted printer in the print station explorer list.

Double Click on Desired Printer to Open
the Printer Configuration Window




Name	Type	Serial #	IP Address	Head Type	Heads	Jets	Prod. Counter	Ink Level	Last Connected
Test	CoPilot	CPT256P1401001	10.10.10.172	256-jet Passive	2	256	437	100% 100%	2015/12/30 16:12:36
CoPilot	CoPilot	CPT256P1502900	10.10.10.159	256-jet Passive	2	256			2015/06/25 14:47:35
CoPilot	CoPilot	CPT256P1411006		256-jet Passive	2	256			2015/06/25 14:47:35
Jetline7	Jetline	JWB14021403004	10.10.10.111	7-jet 3/4"	1	7			2015/06/25 14:47:35
Jetline	Jetline	JWC14101505007	10.10.10.173	16-jet 1"	1	16	0	100%	2015/12/30 16:18:25



General | Font List & Ink System | Network Configuration | Print Configuration

System Information



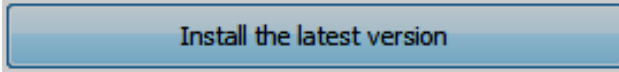
Printer type: CoPilot
 Serial number: CPT256P1401001
 Firmware version: 22.1.19
 Firmware version 22.01.21 is available
 Software version: 2.2.13
 Software version 2.2.15 is available
 Ink system version: 18
 The ink system configuration is up to date
 Printhead software version: N/A | N/A

[Install the latest version](#)

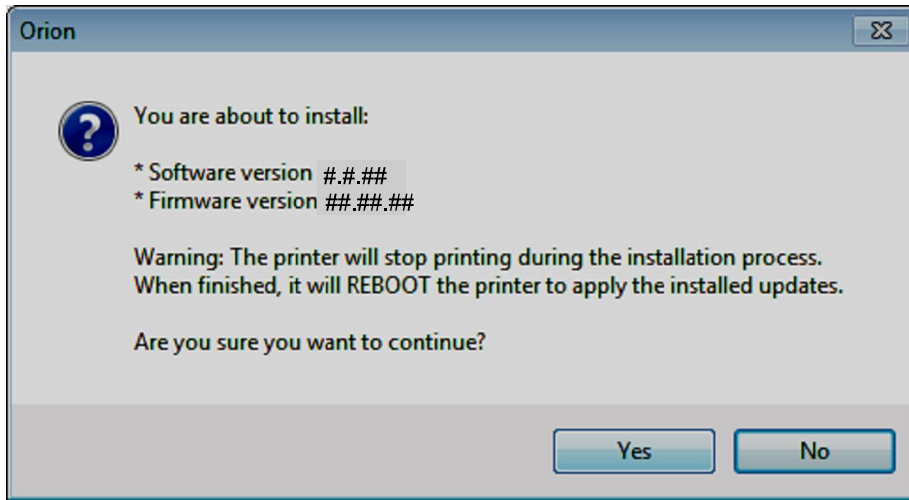
Supported Features

Setting	Value
Number of printheads allowed	2
Printhead type	256-jet Passive
Security	Disabled
User Data prompts	Enabled
Pre Build	Enabled
Maximum substrate width (columns)	24,000
Maximum characters allowed in file names	105
Maximum number of Text elements	100
Maximum number of Counter elements	16
Maximum number of Date/Time elements	16
Maximum number of Shift elements	16
Maximum number of Barcode elements	16
Maximum number of Graphic elements	16

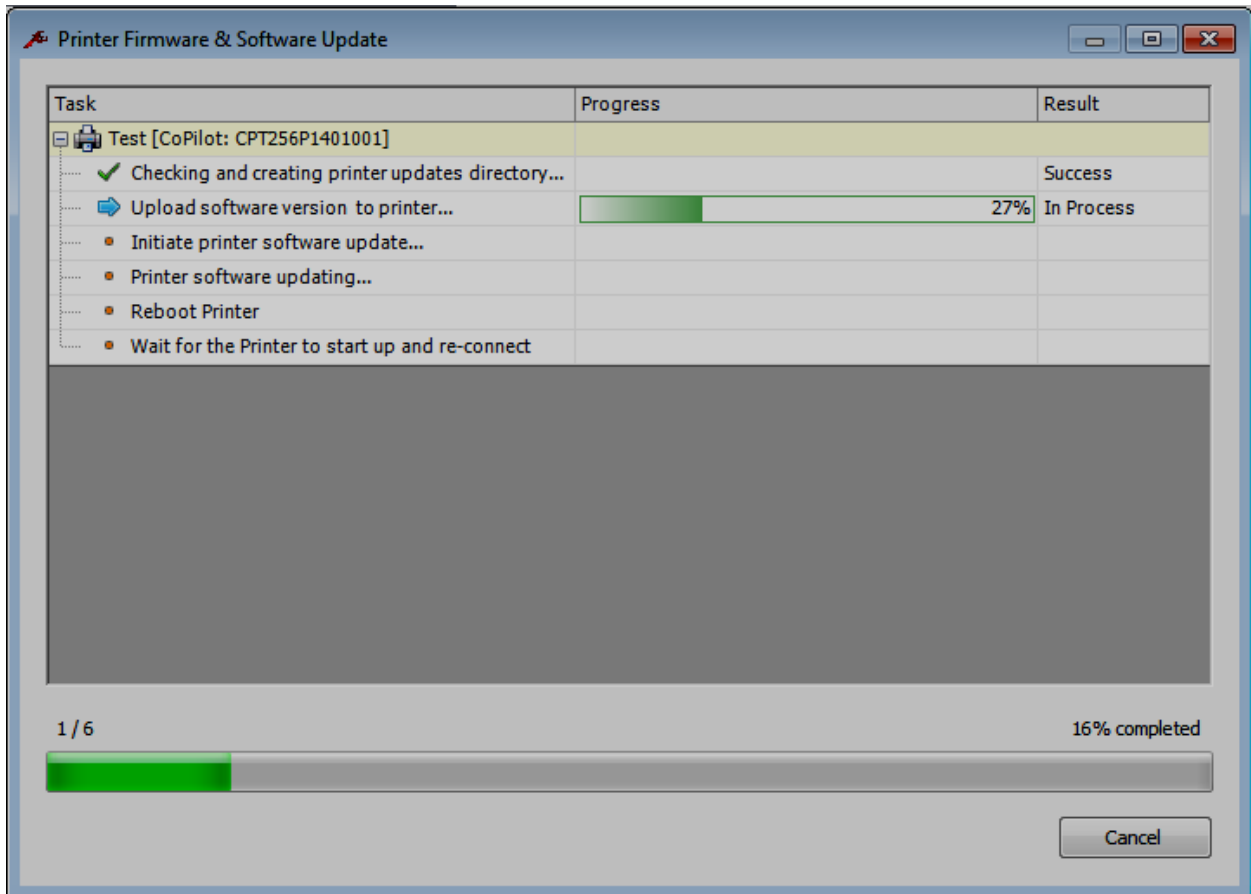
Printer Configuration Window, General Tab



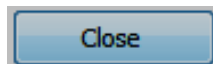
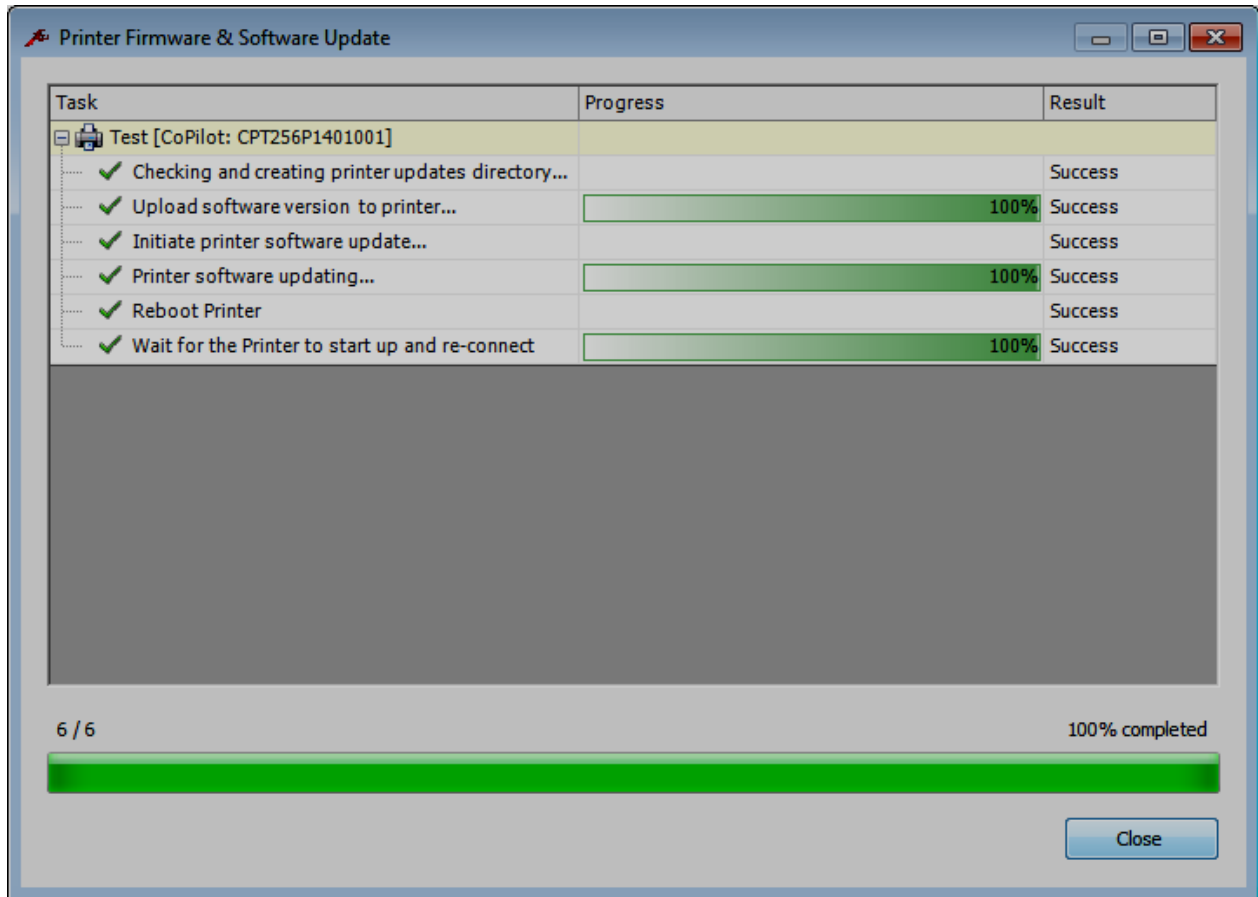
In the Printer Configuration Window General Tab select %Install the latest version+.



Select “**Yes**” to begin updating the printer. Updating will take about six (6) to ten (10) minutes. During the system update an update progress window will display.

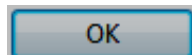
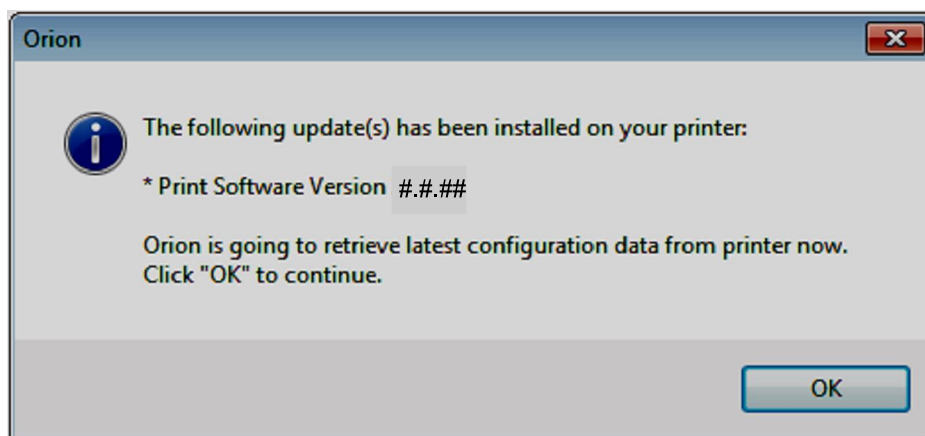


Printer Firmware & Software Update Progress Window



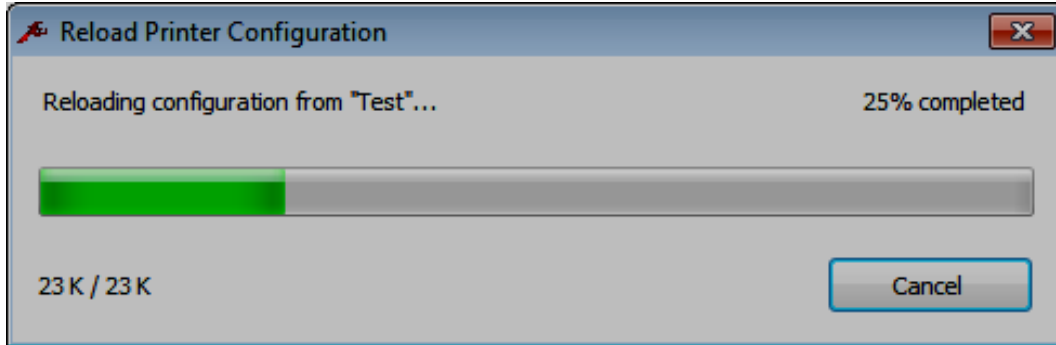
After the update has completed, select “**Close**” in the Printer Firmware & Software Update Window.

After selecting %Close+you will be prompted with the following message.

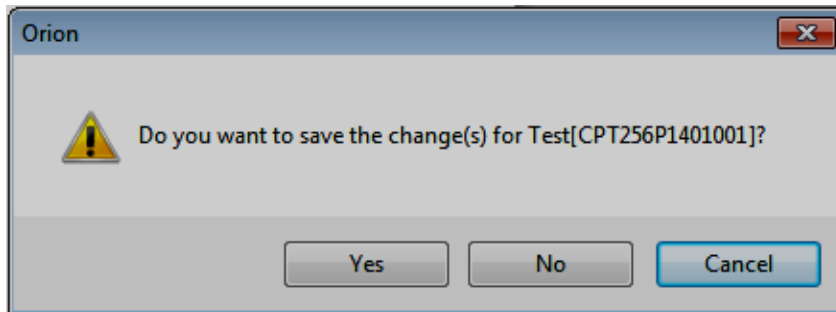


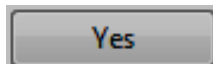
Select “**OK**” to continue.

A progress window will display briefly while the new printer configuration is reloaded.

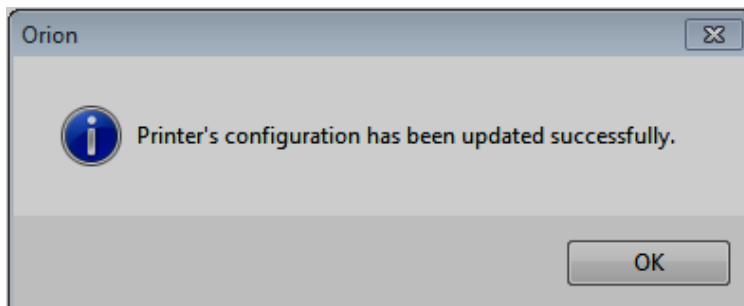
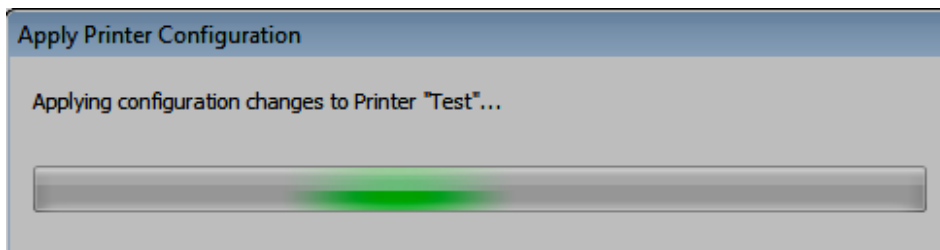


After the new configuration for the printer has loaded, close the printer Configuration Window. When the Printer Configuration Window is closed you will be asked to save the changes.



 Select **"Yes"** to save the changes to the printer.

A progress bar will display briefly as the changes are saved.



After the changes have been saved, select **"OK"** and resume normal operation.

Export Updates to USB

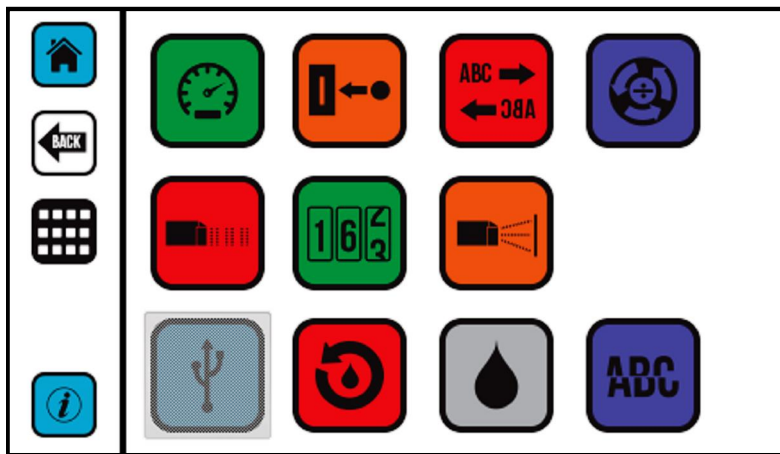
Updates can be exported to a connected USB drive and physically transported to the desired printer.

Attention! When exporting updates to a USB drive it is important to know the current level of software and firmware currently residing in the target printers.

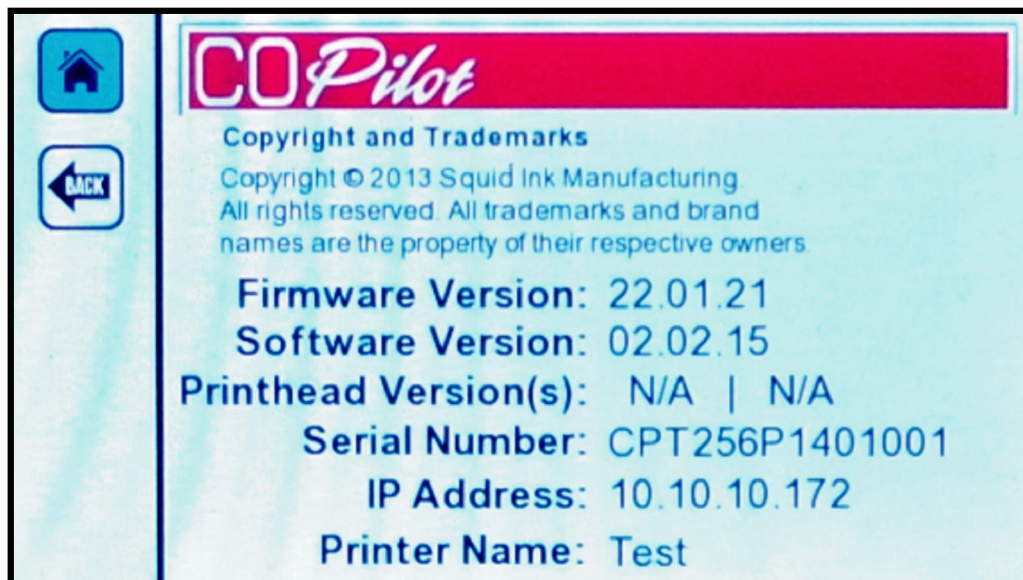
At the Target Printer(s):



To find the current software and firmware levels, at the printer select the Settings button to open the Settings screen on the printer.



In the settings screen select the Printer Information Button and the information screen on the printer will display. The information screen contains the current Firmware and Software versions residing in the printer.



CoPilot Printer Information Screen

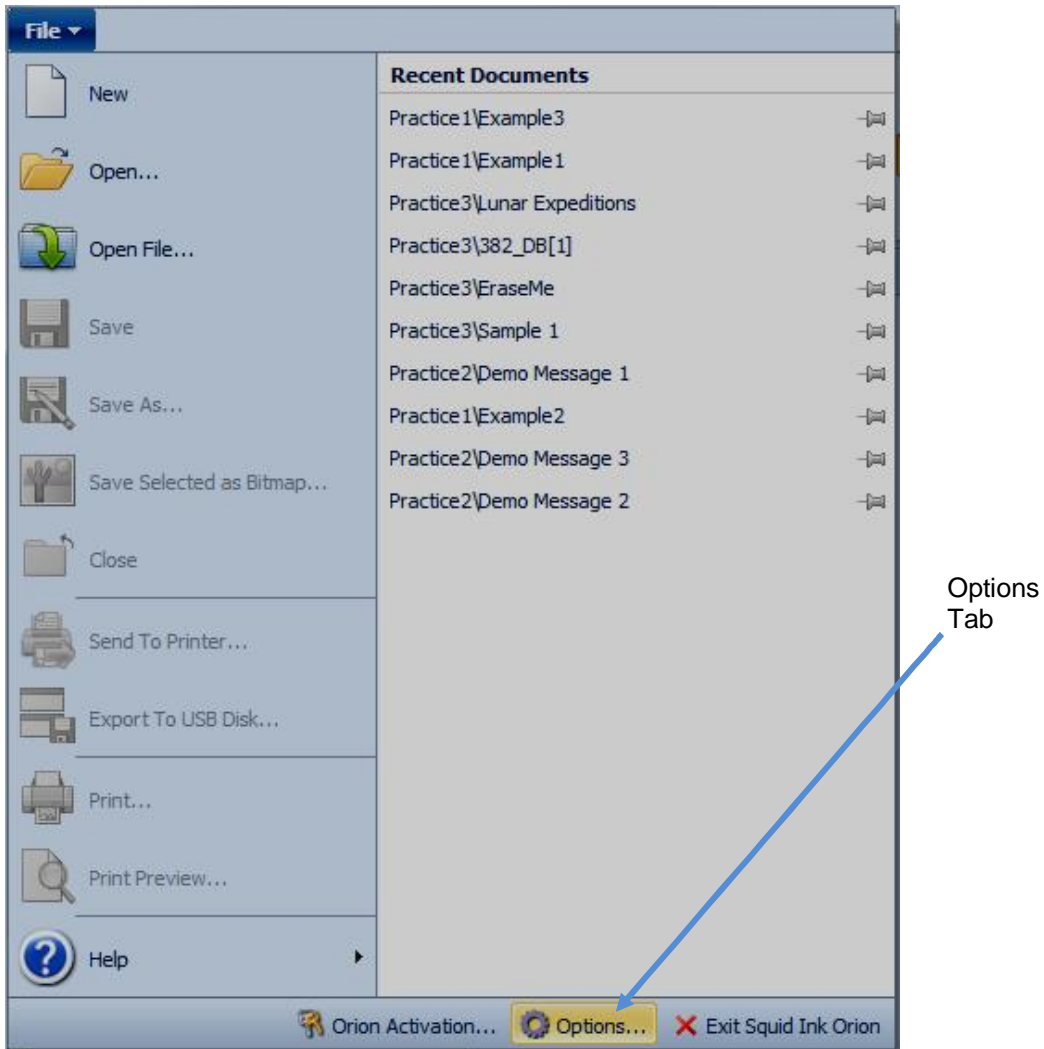
At the desktop:

After downloading updates from the internet and Orion has restarted connect a USB drive to the PC where Orion and the updates reside.

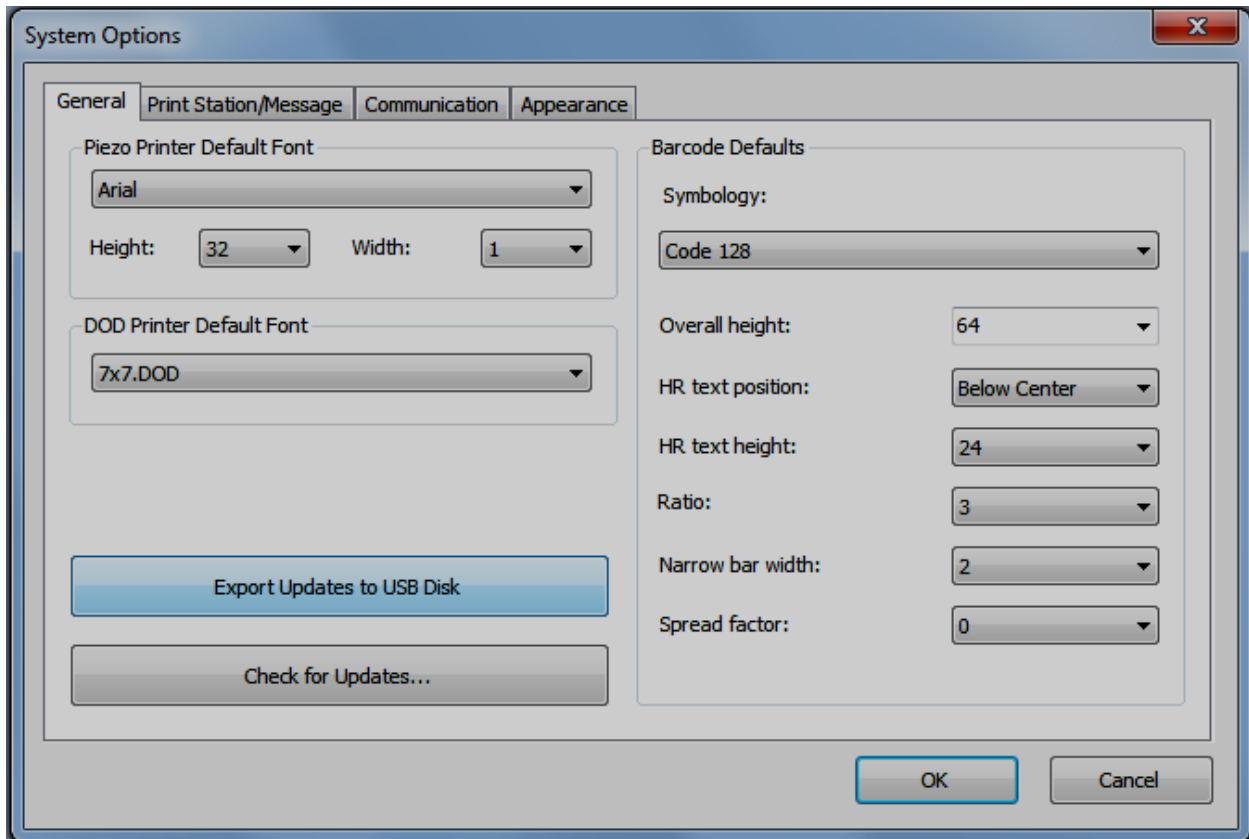


In the Orion software package select the %File+tab.

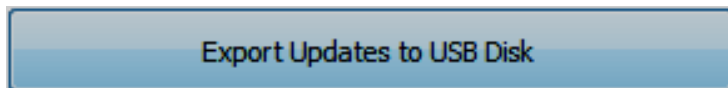
Select the %Options+Tab located at the bottom of the %File+window.



The %System Options+Window will open.

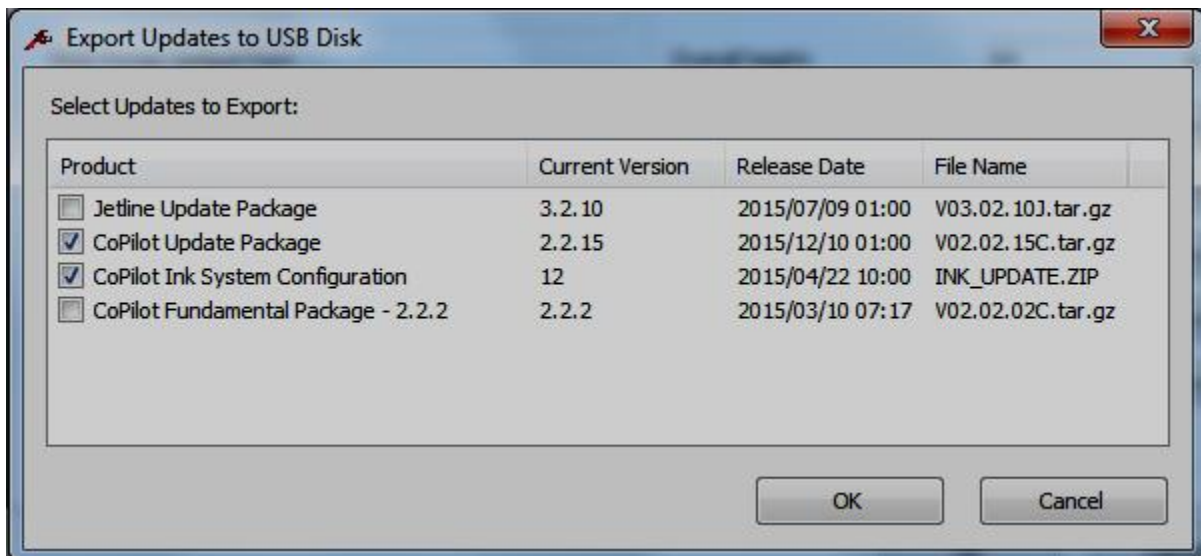


System Options Window



In the System Options window select the **Export Updates to USB Disk** button

The **Export Updates to USB Disk** will open.



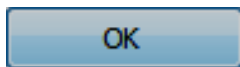
Export Updates to USB Disk Window

<input type="checkbox"/>	Jetline Update Package	3.2.10
<input checked="" type="checkbox"/>	CoPilot Update Package	2.2.15
<input checked="" type="checkbox"/>	CoPilot Ink System Configuration	12
<input type="checkbox"/>	CoPilot Fundamental Package - 2.2.2	2.2.2

In the %Export Updates to USB Disk+ window place a check mark next to the updates you wish to export to the connected USB drive.

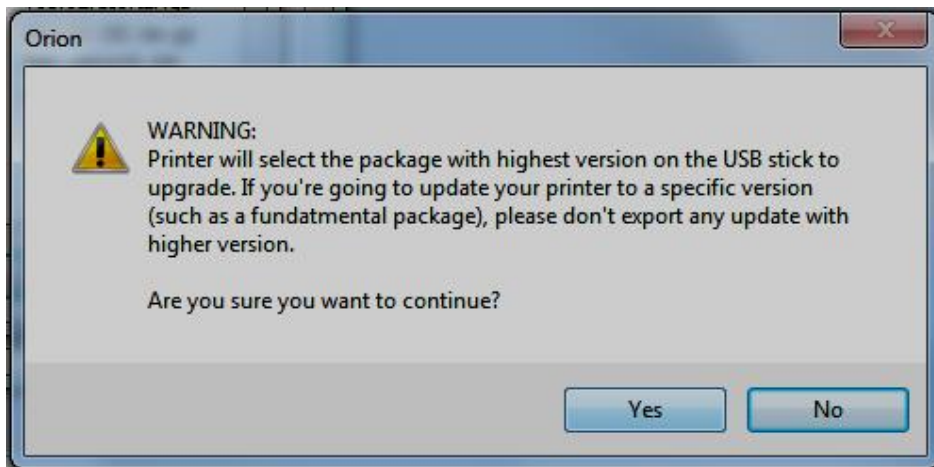
When updating a Copilot printer in most instances the %CoPilot Update Package+ should be selected. The %CoPilot Fundamental Package+ should only be selected if the target printer has not been updated before version 02.02.02. Generally you would not check both the %CoPilot Update Package+ and the %CoPilot Fundamental Package+ for USB export.

Attention! Go to the printer(s) you wish to update and determine the current software level residing on the printer(s). If the CoPilot software version is below 2.2.2 you must update the %Fundamental Package+ first. If the current software level is already above 2.2.2 simply check the latest %CoPilot Update Package+.



After the desired updates have been checked select “**OK**”.

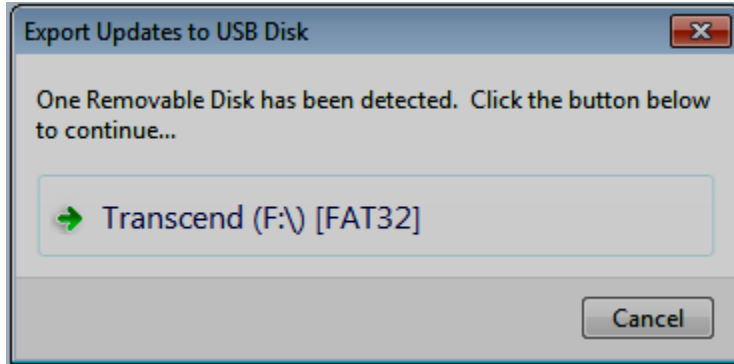
If both the %CoPilot Update Package+ and the %CoPilot Fundamental Package+ have been checked this warning will appear.



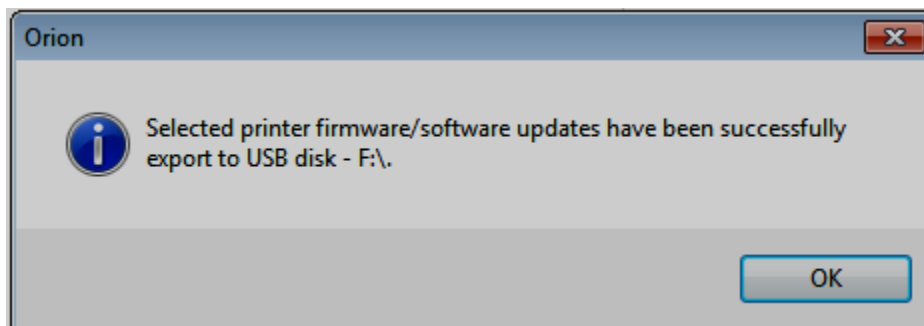
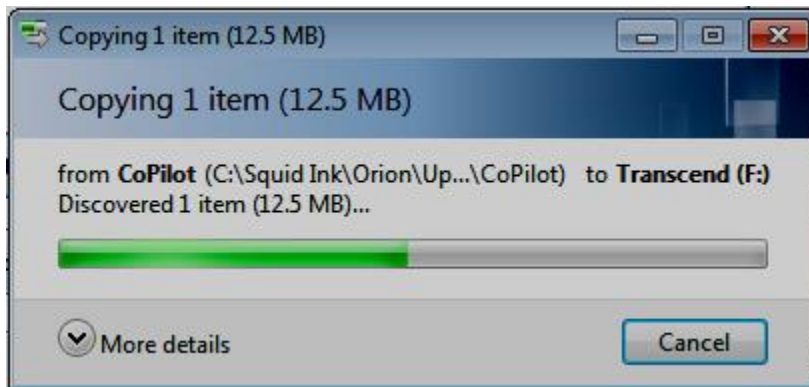
If the current software level in the target printers is above version 02.02.02 select “**Yes**” to export the selected updates to the USB drive.

Warning! If the current CoPilot software is below Version 02.02.02 you must update to the %Fundamental Package+ Version 02.02.02 before updating to the latest CoPilot Update Package+.

Orion will detect any connected USB drives. Select the intended target drive.



A progress window will display briefly while the updates are exported to the selected USB drive.



Select **OK**. The printer software and firmware updates now reside on the USB drive.

To update a printer insert the USB drive into the desired printer. After a few seconds the printer will show a USB screen containing an **Update Firmware/Software** icon. Press this icon and the update will begin. Update will take from six (6) to ten (10) minutes to perform.



Customer Support

Squid Ink Technical Service

For help installing and using the Orion Graphical Software Package, please contact Squid Ink Technical Service at one of the numbers listed below.

Phone 800-253-2627
 (55) 5426-4137

E-mail info@alfamaq.mx
Web www.alfamaq.mx

Thanks again for your purchase of Squid Ink products. We are pleased to be a part of your marking and coding needs.

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