

Barcode Labels, RFID Tags, and Electronic Forms Software for IBM System i *Graphic Concepts Tutorial*

			Work with G	Graphics Gallery			
Position to graphics type							
Type option, press Enter. Resolution (dpi): 0 600 0 300 0 200 0 150 0 100 2=Change description 4=Delete Graphics Graphic Reteter 0 0 0 90 0 180 0 270							
Opt	Type	Number	Name	Rotate: 💿 0 🔵 90 🔵 180 🔵 270	tion		
	PCL	81	CYBPORT	Size (inches) : Horizontal 4.68 Vertical 0			
	PCL	82	CYBRA				
	PCL	83	SUSCO	MONOCHROME PCL			
	PCL	84	SUSCO	Monarch MPCL Use Default Reszebra			
	PCL	85	SUSCO	PCX			
_	PCL	86	VAI	View Original Preview TEC2			
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	PCL	90	CYBRA	UTBRH . 45 X . 45			
					More		
F3=E	xit F	4=Prompt	F5=Refres	sh F9=Command line			
F11=	Source gra		F12=Cance	≥l			



Welcome

Welcome to Part 3 of the MarkMagic and JMagic combined tutorials! This tutorial will teach you everything you need to know about adding graphics to your formats. As with the previous tutorials, the steps are in different colors so you can focus only on the MarkMagic or JMagic steps separately.

Before we begin we are assuming that:

- 1. You have completed and understand what was introduced in the "Basic Concepts" tutorial as well as the "Intermediate Concepts" tutorials.
- 2. You have a printer available at your location (thermal label or a laser printer) that is configured for printing on the System i server. (If not, you can use our PDF option to produce your output.)

In this tutorial, you will learn:

- 1. What a user library is and why you would want to use them.
- 2. What source and target graphics are and how to create them.
- 3. How to add a static graphic to your format.
- 4. How variable graphics work and how to add a variable graphic field to your format.

help@cybra.com User Libraries

The MarkMagic User Libraries feature lets users organize labels and forms by department, or customer, or application. If you have multiple groups of users responsible for different applications, it is advantageous to organize formats, jobs, label files, and graphic images by User Library for the following reasons:

- 1. It will be easier for multiple MarkMagic users to find and work with the formats they are responsible for maintaining.
- 2. Security is improved by the ability to grant different authorities to different User libraries.
- 3. Customers supporting multiple sites (and software vendors supporting their customers) can distribute User libraries of customized objects without needing to redistribute the entire MarkMagic product library.
- 4. Application Software Vendor customers can modify labels without damaging the software vendor's base libraries.

In each of the tutorials thus far, we have used the default user library which is named MRKMAGDTA. You might recognize this name because it is shown in various places throughout the windows and screens.



Also, for any parameter anywhere in MarkMagic that requests a user library name, ***NONE** is the same as **MRKMAGDTA**. Even though you can create formats and label files within MRKMAGDTA, we recommend the use of your own custom user libraries.

There are a few ways to create a MarkMagic user library. MarkMagic can automatically create the library for you. All you would have to do is type the name of the library in the space found on the MarkMagic main menu and press ENTER. If the library is not found, it will ask if you want to create it. If it finds a library with that name already, it will ask if you want to convert it to a user library. This does nothing detrimental to the library; all of the existing objects will still be intact. It just creates special MarkMagic database files within the library.

For this tutorial you will continue to use MRKMAGDTA as the user library. We simply wanted to introduce custom user libraries because the topic will be brought up throughout this tutorial.

<u>help@cybra.com</u> Source Graphics and Target Graphics

To print graphics in MarkMagic, on any type of printer, you first need a "source graphic". This is the actual graphic file as it exists on your PC. MarkMagic and JMagic support GIF and JPG (JPEG) source files. The source graphic is converted, using tools within MarkMagic and JMagic, to a "target graphic". A target graphic is a copy of the source graphic, but formatted to be compatible with your target printer type (Zebra, Monarch, Laser, Intermec). Let's jump right into adding a graphic to a format.

Uploading the Source Graphic

JMagic is going to be used to do all of the graphics work for us, so start JMagic and get to the main screen. You should notice along the way, the option for user library. Leave it at ***NONE** to start JMagic in **MRKMAGDTA**. The source graphic must be uploaded to the System i, first, before you can convert it to print on your printer. At the very top, click Utilities, Graphics and then Load.



The Load Image into Graphics Gallery window is displayed. It is a familiar "select a file" window that you see on your PC in many other applications. It defaults to your "My Documents" folder. Use the pull down menu and the folder listings to navigate your PC for graphic files. Find the **CYBRA.gif** sample graphic file that was included with this tutorial. For simplicity, we are assuming the graphic is stored on your desktop. Pull the menu down and select **Desktop**.

🌺 Load Image in	nto Graphics Gallery 🛛 😣
Look <u>i</u> n: 🗖	Desktop 🗸 🛱 🗂 🔛 🗁
	Desktop
] My Documents
	My Computer
	🗄 3½ Floppy (A:)
2.2	S WindowsXP (C:)
	Shared Documents CD Drive (D:)
	S Storage (E:)
File <u>N</u> ame:	CYBRA.gif
Files of Type:	JPEG and GIF images (.gif, jpg)
	Open Cancel
Name:	Desc: OK

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You will be shown a list of JPG and/or GIF files that are found on your desktop. Select **CYBRA.gif** and click OPEN. Doing this simply unlocks the *Name* and *Description* fields below. This data will be used for the source image once it is uploaded to the System i. JMagic will provide a name for you based on the actual graphic name. You can overwrite this with whatever you wish, making sure the name is uppercase and no longer than 10 characters.

Load Imag	e into Graphics Gallery	8
Look in:	Desktop	
CYBRA.		
File <u>N</u> ame:	CYBRA.gif	
Files of Type	e: JPEG and GIF images (.gif, jpg)	•
		Open Cancel
Name: CY	BRA Desc: CYBRA Logo	ок

Once you are satisfied with your graphic selection and its source name, click OK. JMagic will upload the file to your System i and you will eventually receive a notice that the image is loaded into the Graphics Gallery.



Click OK and you will automatically be brought to the most important screen in this whole tutorial. The Image Converter.

🗟 Cybra GIF Converter 🛛 🛞						
Resolution (dpi) : 0 600 0 300 0 200 0 150						
Scaling %: 100						
Rotate: • 0 0 90 0 180 0 270						
Size (inches) : Horizontal 2.86 Vertical 2.75						
MONOCHROME PCL						
Use Default Resolution						
View Original Preview Convert						

The Target Graphic

Up until now, the tutorials did not mention anything about designing for specific printer types. You created a format using the standard laser PCL driver. (HPPCL5) It is now time to start thinking about your target printer. MarkMagic supports many printers and each make requires graphics to be in a certain form. That is why we must convert the now uploaded source image file to the correct format. This new file is the target graphic. The most popular printer types are Zebra, Monarch, Intermec and any kind of laser printer.

Cybra GIF Converter	
Resolution (dpi) : 🔘 600	○ 300 ○ 200 ○ 150
Scaling %	100
Rotate: 🖲 0 🛛 9	0 () 180 () 270
Size (inches) : Horizontal	2.86 Vertical 2.75
MONOCHROME -	Monarch MPCL 💌
	PCL
🗌 Use Defat	Monarch 9945
View Original P	revie Monarch MPCL
	Zebra
	PCX
	TEC2
	IOCA
	Avery Dennison 🔻

If you have a Zebra printer, choose *Zebra*. If you are printing labels on a Monarch printer, choose *Monarch* MPCL. If you own an Intermec printer, scroll down and choose *Intermec*. If you are going to continue to use your laser printer in this tutorial, choose *PCL*. Also, Printronix printers use *PCX*. For this tutorial, we have picked Zebra, but as you know, yours can be different.

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MarkMagic

The next characteristic of your target printer to think about is its resolution measured in DPI. (Dots Per Inch.) You will want to choose the dpi that matches your printer. For this tutorial, we have picked 200, but yours can be different.

Notice the values for size. These are actual height and width values for the graphic as it will be printed. You can change the percentage of scaling to make the printed target graphic bigger or smaller and that size change will be reflected here.

The graphic can also be rotated. Some printers can not rotate a graphic at print time, so you must rotate when you create the target graphic.

The pull down menu on the left lists the different methods used to convert the image. If your source graphics is in color, then you will want to choose something other than MONOCHROME. Some selections can provide better results than others depending on the quality of your source image.

Once you are satisfied with the target image settings, you can click on *Preview* to see what the image will look like once printed. You can also click on *View Original* and compare the two.

S ^ImagePreview	
	Cybra GIF Converter Resolution (dpi) : 0 600 0 300 0 200 0 150 Scaling %: 100
	Rotate: 🖲 0 🛛 90 🔿 180 🔾 270
	Size (inches) : Horizontal 1.43 Vertical 1.38
OYBRA	MONOCHROME Zebra
	🗌 Use Default Resolution
	View Original Preview Convert

If it looks good to you, click *Convert*. The *Set Target Graphic Properties* window is displayed. Here is where you can set the name and description of the converted target graphic. Leave the name *CYBRA* and set the description to whatever you like. Leave the number set to 0. MarkMagic sorts graphics by "graphic number" and a 0 tells JMagic to use the next available number.

MarkMagic

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	S Cybra GIF Converter	
	Resolution (dpi) : 0 600 0 300 0 200 0 150	
🛓 Set Tar	rget Graphic Properties	(
	Name: CYBRA Number: 0	
Descrin	otion: CYBRA Logo	1
Deacrip		1
	OK Cancel	
	Use Detaux Resolution	
	View Original Preview Convert	

Click OK to convert the graphic. JMagic will pause while it is working and then you will eventually be returned to the previous Image Converter window. It does this so you can create more target graphics, if you wish, from the same source graphic. Since you only use this single graphic for now, close this window. Congratulations on converting your first graphic. Now it's time to add it to a format.

MarkMagic

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Adding a Graphic to a Format

In this tutorial you are going to create a new format to work with. If you are not comfortable with creating a new format, please see the first tutorial: "*Basic Concepts of MarkMagic and JMagic*." It explains, in detail, how to create new formats in MarkMagic and JMagic.

Now that you have converted a graphic to print on your specific printer, you need to make a format that uses the correct Device type designed to print on your printer. You couldn't simply direct the print job from the previous tutorials to a Zebra printer because Zebra printers use a different language than laser printers.

If your copy of MarkMagic is already configured to print to your target printer, please ignore the following step.

The first thing you must do before making specific formats is to configure MarkMagic so it supports all printers. At a command line, type **MRKMAG60/SETMMPRM** and press Enter. Type ***ALL** in the first spot for *Printer Device types* (overwriting whatever might already be there) and press **ENTER** twice. Now, MarkMagic will allow you to create formats for all sorts of printers!

		Set MarkMag	ic Para	meters		
Date: 10/ Time: 18:		CPU model CPU serial Processor Logical pa	num: group:	10C2AAE P05	Version: Mod lvl:	
Type choices	, press Enter.					
Printer de	vice types	. <u>*</u> ALL.			F4 for list	
F3=Exit	F5=Refresh F	F8=Product	Keys	F12=Cancel	М	ore

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Start MarkMagic and create a new format but this time, prompt (F4) the Device parameter. You will be shown the full list of supported printers. Since MarkMagic supports almost every printer available, your printer make and model should be listed. Place your cursor on your preferred device and press ENTER. This tutorial will use the Zebra device ZTS500, but your selection will most likely be different.



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MarkMagic

Version .	: 6.1	MarkMagic	Mod lvl .	: 070928
<u> </u>		_	_	
Format	6	Print	Ut	ilities
<u>N</u>				
New				
Open				
Сору	Create a forma	t		
Rename				
Edit	Device <u>ZT</u>	<u> 5500</u> Name, F4 for	list	
Delete	Format <u>GR</u>	<u>APHIC Name</u>		
Generate.				
eXit	F3=Exit F4=Prom	pt F5=Refresh F12=	-Cancel	
F12=Cance				
Enterprise				
Edition				
F3=Exit F4	4=Prompt F9=Cmd	line F10=List View		

Name your new format anything you like, but for this tutorial, **GRAPHIC** was chosen as a name. Press ENTER to get to the *Work With Format Definition* screen.

When you create your format, make sure it is sized correctly. Most thermal label printers use 6 inch length and 4 inch width labels. Once again, yours may vary. After creating the format, you will eventually be brought to the familiar design view.

Add a ***HEADING** text field towards the top-middle of your format with **Graphics Tutorial** typed in the *Description* line. Leave every other parameter at the default. This will create a simple text field at the top.

Next, a few inches below that, press F6 to add a new field, but this time press G for *Graph field*. Notice that it also has a name of ***HEADING**.

Work with Graphic F	ield
Device : ZTS500 Format : GRAPHIC Length: 6.00"	Width: 4.00" Rotation: 0
Field # : 002	
Type choices, press Enter.	
Field name <u>*HEADING</u>	Name, *HEADING, *LINK, F4 for list of fields
Description	
Length	1 - 30
Decimals	0 - 9
Reference type	O=number, N=name, D=description
Row / Column <u>3.40</u> <u>1.70</u>	.04 - 6.00 / .01 - 4.00
Stored graphic	number, F4 for graphic list
Length	.04 - 6.00
Width	.04 - 4.00
F3=Exit F4=Prompt F5=Refresh F12=Can	More
F3=Exit F4=Prompt F5=Refresh F12=Cand	

Just like text fields, graphic fields can be ***HEADING** fields. Except the description field doesn't matter here. The way you tell MarkMagic what graphic to print is by specifying the graphic number in the *Stored graphic* parameter. Place your cursor there and prompt the field. You will be shown a list of graphics that are compatible with the device you chose. (Example: Zebra graphics will not show if you are working with a Monarch format, etc.)

MarkMagic

		Select	a Graphic	
Devid	ce	: ZTS500	Graphics type :	ZPL
Posi	tion to	graphic number	tala antara antara di <mark>di</mark>	
	option, Select	press Enter.		
	Graphic			
Opt	Number		Description	
<u>1</u>	1	CYBRA	CYBRA Logo	
				Bottom
F3=E>	×it	F5=Refresh	F11=Source graphics F12=Cancel	
			(c) Copyright CYBRA Corp.	1991, 2005

There may be more than one graphic in the library you are working in that is compatible with your device. Place a **1** next to the graphic you made earlier and press ENTER. MarkMagic will put the graphic name in the description line for visual purposes. All you need to do is type in the actual graphic *Length* and *Width* values. In most cases, these values do not need to be exact. Type **1.00** for each value.

```
Work with Graphic Field
Device . . . : ZTS500
Format . . . : GRAPHIC
                       Length: 6.00"
                                      Width: 4.00"
                                                    Rotation:
                                                             0
Field # . . : 002
Type choices, press Enter.
 Field name . . . . . . . . <u>*HEADING</u>
                                    Name, *HEADING, *LINK,
                                     F4 for list of fields
   Description . . . . . . . . <u>CYBRA</u>
                                    1 - 30
 Length . . . . . . . . . . . . _____
 0 - 9
 Reference type . . . . . . . _
                                    O=number, N=name, D=description
 number, F4 for graphic list
                                     .04 - 6.00
 Length . . . . . . . . . . . <u>1.00</u>
 Width . . . . . . . . . . . <u>1.00</u>
                                    .04 - 4.00
                                                        More...
F3=Exit
        F4=Prompt
                   F5=Refresh
                              F12=Cancel
```

Press ENTER twice to add your new graphic field! You should see it added to the design view as a box.

Device: ZTS500		Desig	Design a Format		Format:	GRAPHIC	
Form	at	fielDs	Optic	ons	Print	Util	ities
+Data		0.50		.50 2.0			
3.90 3.80	+	!+	+		+!.	+ .	
3.70 3.60 3.50							
3.40 3.30 3.20			CYBRA				
3.10 3.00 2.90							
2.80 2.70 2.60							
2.50							
F2=Edi F7=Cop		F3=Exi F8=Delo		Revert =Move	F5=Undo F12=Cancel		Create More keys

Congratulations on adding your first graphic to a MarkMagic format. Yes, it is that easy. When this format prints, the graphic will show up in the same spot on every label or form. This is because it is a ***HEADING** field. If you want different graphics to print based on specific data, then you will want to see the section describing the use of *Variable Graphics* later in this tutorial.

At this time, you can print your format if you wish. Since there is no variable data on this format, so you can print it just like you did the format in the "*Basic Concepts*" tutorial. Please reference that section if you need help printing from MarkMagic.

JMagic 6-

When starting MarkMagic, make sure to leave the selection for *User Library* as ***NONE**. This way, JMagic will look in the MRKMAGDTA library for formats and graphics.

Create a new format. You will be presented with a large list of *Device Types*. Since MarkMagic supports almost every printer available, your printer model should be listed. Click on your printer type and then type. This tutorial will choose **ZTS500**, but yours will most likely be different.

	ZTS300		
	ZTS400		
Device Type			
	ZTS600		
	ZTTLP2722		
	ZTTI P2742		
Format	GRAPHIC		

Provide a name for your new format. This tutorial will name the format **GRAPHIC**, but yours can be different. Click OK to go to the *Create a Format* screen.

When you create your format, make sure it is sized correctly. Most thermal label printers use 6 inch length and 4 inch width labels. Once again, yours may vary. After creating the format, you will eventually be brought to the familiar design view.

Add a ***HEADING** text field towards the top middle of your format with **Graphics Tutorial** typed in the *Description* field. Leave every other parameter at the default. This will create a simple text field at the top. Now, it is time to add the graphic.

At the top, click the *Create a Graphic Field* button. Just like any other field, the cursor will turn into a +, so click a few inches below the text field you added and the *Create a New Graphic Field* window will appear.



Just like text fields, graphic fields can be ***HEADING** fields. So, name the field ***HEADING**. For graphic fields, the description doesn't matter. The way you tell JMagic what graphic to print is by selecting the graphic from the pull down menu at the bottom. You will be shown a list of graphics that are compatible with the device you chose. (Example: Zebra graphics will not show if you are working with a Monarch format, etc.)

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MarkMagic

🌺 Edit A	Graphic Field						. 🗆 🔁 🔀
	Device		Format				
	Name:	ZTS500	Name:	GRAPHIC	Length	6.0" Width	4.0"
	Description:	Zebra S-500	Description:	Graphic Test		Rotation	A ··
Propert	ies						
[Name and	d Description —	./	and the second s				
Field Na	me *HEADIN	NG B	rowse	Field #	# 1 Refe	erence Type	
Descrip	tion:						
Positionir	ng Properties						
Row	1.94" Co	lumn0.91'					
Length	1.34" \	Midth 1.41	•				
Graphic							
Stored	Granhic 1 C	YBRA CYBRA Logo		e.			
Giorda		BRA CYBRA Logo	and the second se				
and an	an a	oration; 2000; All Rig			OF	Cancel	
© Соругі с	· · · · · · · · · · · · · · · · · · ·				1 1 1 1	[ance]	Help

JMagic will automatically fill in the *Length* and *Width* values of the graphic. This is all you need to do to add a static graphic to a format, so click OK. You should see the actual graphic now placed on the JMagic design canvas.



Congratulations on adding your first graphic to a JMagic format. Yes, it is that easy. When this format prints, the graphic will show up in the same spot on every label or form. This is because it is a ***HEADING** field. If you want different graphics to print based on specific data, then you will want to see the section describing the use of *Variable Graphics* later in this tutorial.

At this time, you can save the format and print it. Since there is no variable data on this format, so you can print it just like you did the format in the "*Basic Concepts*" tutorial. (Using ***LAYOUT** as the label file name.) Please reference that section if you are having trouble printing from JMagic.

Working With Variable Graphics

It is highly recommended that you understand the information covered in the "*Intermediate Concepts*" tutorials before working on this section of the graphics tutorial. Many of the methods introduced by those tutorials will be used here without much explanation.

Just like a text field, graphics can be either static or variable. With a variable text or barcode field, you provide the text to be printed or encoded via a MarkMagic label file or mapped from different pages in a spooled file. A graphic field can be linked to a variable data field in much the same way as text field can be. However, you do not provide an actual graphic file when you want to print the graphic; you would provide data that matches an existing graphic's name, description or number. For instance, if you wanted to print a graphic that has the name LOGO, you would pass LOGO as the variable data. This is only if you have it setup to reference the graphic name. You can also have it setup to reference the graphic number. In that case, if you wanted to print graphic number 39, you would pass 39 as the data and that specific graphic would print. Lastly, if it is setup to reference the graphic's description and wanted to print a graphic that has a description of "Company Logo 2", you would have to pass "Company Logo 2" as the variable data. Each record can pass different data and therefore a different logo can be printed on each label or form.

A good example is a company printing a picture of each of their products by referencing the description of the graphic field. In each description is the products UPC number. They link a graphic field to their UPC barcode and, in doing so, the UPC number is passed to the graphic field. The graphic with the matching numbers in the description field will then print.

How can you change the number, name and description of your graphics to match your data? What is referencing? What happens if data is sent that does not match any graphic in the gallery? Read on for the answers and a quick guide to variable graphics.

Uploading / Converting More Graphics

All of the graphics that you plan on using as variable graphics must be uploaded and converted correctly prior to printing them. Follow the steps described earlier in this tutorial to upload and convert any new graphics you will use. If at any point you want to convert an *already uploaded* source image (remember you just need to upload the source one time) in JMagic, click on *Utilities*, then *Graphics* and then *Convert* to bypass the uploading step.

	Utilities	Help		
100 100	Graphic	S	•	Load
	Grids and Templates			Convert
	Support	:	Þ	Delete

The *Choose a Source Graphic* window will appear. Click the expander button next to the type of graphic and then click the source graphic that you want to re-convert and then click OK. The familiar Image Converter will then be shown.

The last step of the conversion process is the most import step when implementing variable graphics. It is the screen where you provide a unique graphic name, description and/or number. One of these three details will need to be matched exactly with your data when printing. There is a way, within green screen MarkMagic, to change the name, description and number of an already converted graphic, so don't worry if you make a mistake here.

	Cybra GIF Converter	
	Resolution (dpi) : 0 600 0 300 0 200 0 150	
🌺 Set Targe	Graphic Properties	×
	Name: CYBRA Number: 0	
Descriptio	n: CYBRA Logo	
	OK Cancel	
	Use Detault Resolution	
	View Original Preview Convert	

If you need to make changes to the graphic's name/description/number, you can do this in MarkMagic. Go to *Utilities* (**U**), *Graphics* (**G**), *Open* (**O**). You will be presented with a list of graphics sorted by printer type and graphic number. Here is a sample screenshot. (Yours will be different.)

			Work with	Graphics Gallery	
Posi	tion to gr	aphics ty	pe	· · · · ·	
Posi	tion to gr	aphic num	ber	· ·	
Tupe	option, p	oress Ente	r:		
			4=Delete	5=Display 7=Renumber	
	Crarbier	Graphic			
Opt	Graphics Type	Number	Name	Description	
_	AFP	1	INTERFACE	Interface Logo	
	AFP	2	BBB555	Bed Bath and Beyond 2	
_	AFP	3	BBB444	Bed Bath and Beyond 2	
	AFP	4	BBB555	Bed Bath and Beyond 2	
	AFP	5	BBB5454	Bed Bath and Beyond 2	
	AFP	6	BBB77777	Bed Bath and Beyond 2	
<u> </u>	PCL	1	REPACETEST	Seneca Medical	
_	PCL	2	ATLOGO	Atlogo	
-	PCL	3	21250	North American 0 Rotation	
	PCL	4	NA180DEG	North American 180 Rotation	
					More
F3=E	xit F	4=Prompt	F5=Refre	sh F9=Command line	
F11=	Source gra	aphics	F12=Canc	el	

If you type a **2** next to the graphic that you want to change and press ENTER, you can change the name and description. Also, if you type a **7** and press ENTER, you can renumber the graphic.

Creating a Variable Graphic

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Open your existing format that you made earlier in this tutorial. Find the graphic that you made and place your cursor on it and press **F8** to delete it. Now create a new one in the same spot. Currently, it is a ***HEADING** field, but to make it variable you can either give it a unique name or link it to a variable field. You can also map a graphic field directly to spooled file data. For this tutorial, just give it the name **GRAPHIC**.

Work with Graphic Field
Device : ZTS500
Format : GRAPHIC Length: 6.00" Width: 4.00" Rotation: 0
Field # : 001
Type choices, press Enter.
Field name <u>GRAPHIC</u> Name, *HEADING, *LINK, F4 for list of fields
Description
Length <u>10</u> 1 - 30
Decimals
Reference type \underline{N} \leftarrow O=number, N=name, D=description
$R_{\rm ev}$ ($C_{\rm e}$) where $C_{\rm e}$ ($C_{\rm e}$) ($C_{\rm e}$) $C_{\rm e}$ ($C_{\rm e}$) $C_{\rm e}$ ($C_{\rm e}$)
Row / Column <u>3.60</u> <u>1.15</u> .04 - 6.00 / .01 - 4.00
Stored graphic 🔶 number, F4 for graphic list
Length <u>1.00</u> .04 - 6.00
Width <u>1.00</u> .04 - 4.00
More
F3=Exit F4=Prompt F5=Refresh F12=Cancel

The most important parameter here is the *Reference type*. If the data you are passing is going to match up with the target graphic's number, select **0**. If it is the target graphic's name, select **N**. Or if it is the target graphic's description, select **D**. Make sure *Stored graphic* is blanked out. Lastly, depending on the *Reference type* the field must be the correct length. For graphic name the *Length* must be **10 alpha**, for graphic number, the *Length* must be **5 and 00 decimal**, and for description, the *Length* must be **30 alpha**. This tutorial chose to reference the graphic's full 10 character name. If you chose to link it to another field, you must make sure to link the appropriate amount of characters or you will not be able to create the variable graphic. If you chose to map it to a spooled file, make sure you map the correct length. Once everything is set, press ENTER twice to create your variable graphic field.

JMagic 6-

Open your existing format that made earlier in this tutorial. Find the graphic that you made, click on it and press DELETE on your keyboard to delete the static graphic. Now, create a new one in the same spot. Before, you created it as a ***HEADING** field. Now, to make it variable, you will have to link it to a variable field already on your format. You can also map a graphic field directly to data in a spooled file.

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MarkMagic

👌 Edit A	Graphic Field							0
	Device		Format					
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The most important parameter here is the *Reference type*. If the data you are passing is going to match up with the target graphic's number, type **0**. If it is the target graphic's name, type **N**. Or if it is the target graphic's description, type **D**. You must make sure to link the appropriate amount of characters or you will not be able to create the variable graphic. For graphic name, the *Length* must be equal to 10, for graphic number, the *Length* must be 5 and 00 decimal and for description, the *Length* must be 30. Once these settings are made, click OK to create your variable graphic.

MarkMagic Variable Graphics Example

Notice in the screen shot below, the Reference type is "N" and the Field name is SKU.



mailto:help@cybra.com

Note there is no Stored graphic number — the graphic number only applies to *HEADING (static) graphics.

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In the Graphics Gallery, the Graphic Name contains the actual SKU numbers that match the items. For example, the Shower Head graphic will print when SKU 0122587589 appears in the Label File record, the Pipe Fitting graphic will print when SKU 0256565899 appears in the Label File record, etc.

Test the function by printing a label file that has a different SKU associated with each graphic. As the SKU changes, the graphic image printed will change.

