Welcome to this slides presentation of



for Oracle Forms Applications



LONGBRIDGE CONSULTING





Evaluation Version

DOWNLOAD URL LINK:

For the purpose of this presentation to showcase the features and functionalities of Ezy Image Manager, use our sample application provided within the Evaluation Version software as provided within the Download URL Link below.

This uses the Local Client Machine folders and/or Shared Network folders as its Document Repository .

However if you are interested in the sample application for other repositories, please do not hesitate to contact Bob Gill whose contact details are provided at the end of this presentation.

https://www.longbridge.biz/downloads/EIS/JavaBean/EIM_Bean_LNF_V521.zip

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Ezy Image Manager - Sample Application							×
CLocal Client & Shared Network Folder Repository - List of Car	otured Documents						
Filename	Capture Date/Time	Document Format	Show	Open		Thumbnail of First Page	
C:/EIS_images/jamie_gray_wm1.jpg	18-Jun-2019, 06:28 PM	jpg	Thumbnail	Viewer			
\\asus-bob/EIS_images\scan_2pgs.tif	18-Jun-2019, 01:45 PM	tif	Thumbnail	Viewer			
\\asus-bob/EIS_images\Jamie_Pg1.png	18-Jun-2019, 01:40 PM	png	Thumbnail	Viewer	12		
C:/EIS_images/5pgs_LSY_HG.tif	18-Jun-2019, 12:44 PM	tif	Thumbnail	Viewer	2		
C:/EIS_images/jamie_gray1.jpg	07-Jun-2019, 06:09 PM	jpg	Thumbnail	Viewer			
C:/EIS_images/jamie_gray.jpg	07-Jun-2019, 06:02 PM	jpg	Thumbnail	Viewer			
\\asus-bob\eis_images\orig_2pgs_scan.tif	07-Jun-2019, 03:42 PM	tif	Thumbnail	Viewer			
\\asus-bob\eis_images\jamie_1.png	07-Jun-2019, 03:39 PM	png	Thumbnail	Viewer			
C:/EIS_images/5pgs_LSY_HG_1.tif	07-Jun-2019, 03:04 PM	tif	Thumbnail	Viewer			
C:/EIS_images/v510_4pgs.tif	07-Jun-2019, 01:31 PM	tif	Thumbnail	Viewer			
C:/EIS_images/v510_jamie.jpg	07-Jun-2019, 01:29 PM	jpg	Thumbnail	Viewer			
C:/EIS_images/v510_3pgs_t1.tif	07-Jun-2019, 01:28 PM	tif	Thumbnail	Viewer	▣		
Specify File to Show Thumbnail and/or Open Document	t Viewer		Select File.				

Ezv Image Manager - Local Client & Shared Network Folder Repository Sample Application

- Upon running this sample application you should see the main screen as shown above. On the left-hand side is a
 multi-row list of captured documents that have been stored within the Local Client Machine Folder or Shared
 Network Folder Repository.
- Below the multi-row list is the 'Specify File to Show Thumbnail and/or Open Document' Forms region that allows you to manually enter the filename from the Local Client Machine Folder or Shared Network Folder Repository or a URL location to display the imaging document's thumbnail and/or entire document viewer.
- On the right-hand side is a Thumbnail Java Bean Area that will display the first page of the document if you wish to view it.

- To show the Thumbnail of the first page for the first record within the multi-row list of captured documents, press **'Thumbnail'** button, which will retrieve the image and display it as shown below, as per my environment.
- Within your own environment, you will see whichever image is the first page of the document that you had previously captured and recorded within LB_EIS_LNF_DOCS database table that is used as part of our sample application.



The document filename will also be displayed at the bottom within the Thumbnail Viewer area.

 If you wish to enter the filename manually, you may press 'Select File...' button within the Forms region 'Specify File to Show Thumbnail and/or Open Document', which will display the following 'Select Image File to Open' Dialog that will allow you to select the required imaging document, either from any of your Local Client Folder or Shared Network Folder accessible to you.



• Select the required document to be opened and press the **'Open'** button from the Dialog window that will then copy the filename into the **'Filename'** field as shown below:

<mark>ر s</mark>	Specify File to Show Thumbnail and/or Open Document			
	Filename			
	C:\EIS_images\3pgsMem.tif	Select File		
	Show Thumbnail Open Viewer			

- Pressing 'Show Thumbnail' button will display the first page of the imaging document within the Thumbnail Bean Area or pressing 'Open Viewer...' button will display the entire document within the Image Viewer popup window, which we will show in the next slide.
- To demonstrate that you can also open an imaging document from a URL location within this sample application, enter a URL address (Intranet or Internet) and press 'Show Thumbnail' or 'Open Viewer...' button.

Example of an Internet address:

https://www.oracle.com/a/ocom/img/hp10p4-oracle-hq-darktext.jpg

would display the first page of the image as follows when pressing 'Show Thumbnail' button :



To load the imaging document into the Image Viewer, press 'Viewer...' button for the database record that you are interested in viewing. This will load all the pages into the Image Viewer window as shown below, with each page being displayed within the Thumbnails panel on the left-hand side and the first page displayed with a 'Fit to Page' display mode with all Toolbar controls enabled.



Page loading within Ezy Image Manager is very fast as it uses parallel processing functions to execute this
process making page navigation between pages a breeze.

- At the bottom right-hand side of Image Viewer display area, you will find the Event Control indicator
 Event Control: Java
 which indicates whether the Oracle Forms application or Ezy Image Manager Java Bean Area has the cursor
 control that allows certain event triggers to be activated upon pressing the relevant keyboard key(s) or mouse
 click on a toolbar component.
- While the cursor focus is within Ezy Image Manager component, any Key Event Trigger is then intercepted by the Java-side component to carry out whatever function that it is supposed to do.
- Key Event Triggers are 'Page Up', 'Page Down', 'Home', 'End', Up Arrow, Down Arrow & Print Screen (with or without using CTRL, SHIFT & ALT keys too).
- Also certain Shortcut Keys that carry out the relevant Java-side function such as '+' (Plus) key for 'Zoom In' function, '-' (Minus) key for 'Zoom Out' function, '/' (Slash) key for 'Rotate Clockwise' function and '\'(Backslash) key for 'Rotate Anti-Clockwise' function will also be performed upon pressing the required keystroke. These shortcut keys are meant to speed up your transaction processing actions instead of having to press the mouse on the relevant toolbar iconic buttons.
- To return cursor focus while in the Java Bean component back to Oracle Forms application, you can press "Escape" (esc) Key or just click on ANY of the Oracle Forms Application objects. This would change the Event Control indicator from "Java" to "Forms" as per the following figure:

Event Control: Forms

- Another feature within Ezy Image Manager Java Bean component is to allow or disallow the screen capture of the current image page of the document that has been opened. Normally this will be done programmatically within the application design phase based on the end user's privileges.
- However the sample application provides the checkbox 'Allow Print Screen?' to allow you to set/unset this function dynamically at run-time. By default this checkbox is not set, which will display the alert popup, as shown in the next slide, if you try to capture the screenshot when the cursor focus is within Ezy Image Manage Java Bean component using the Print Screen function available by pressing 'ctrl/prt sc', 'alt/prt sc', 'shift/prt sc' or 'prt sc' keyboard keys:

Print	Screen ERROR	×
8	You do NOT have the required permission to capture the screens	hot!
	ОК	

 With Print Screen DISABLED, and if you did think that you had captured the screenshot and then try to paste the content into any other Windows application such as Microsoft Word or MS Paint, you would get the following text instead of the actual image page of your current document that is opened:

Print Screen NOT Allowed!

- The checkboxes at the bottom of the Image Viewer, ie, ^{SHOW: VImage Editing Controls?} Viewer Crop Image Controls? with real-time configuration options are presented with the selection already turned ON to display the relevant controls within the Image Viewer. You may turn these controls ON or OFF at any time to suit your processing needs from within your Oracle Forms canvas region.
- In a real live production environment, you may have already decided which User Interface components are required, and those that need to be hidden. As such you would set up your configuration programmatically as desired to avoid having to provide the ability to show/hide components in real-time.
- Navigating to each page can be performed in a number of ways, which would load the image page into the main Image Viewer panel instantly. These are as follows:
 - Clicking on the required page within the Thumbnails panel.
 - Using the 'Page' dropdown list item: Page: 1 v of 10
 - Using the Page Navigation iconic buttons:
 - Using the keyboard keys such as 'home' (First Page); 'pgup' / Up Arrow (Previous Page); 'pgdn' / Down Arrow (Next Page); and 'end' (Last Page).

Here's a quick overview of the other Toolbar controls.

- For Zooming functionality, following are the controls available:
- **'Zoom By**' dropdown list item allows you to specify the Zoom factor from 1 (smallest increment) to 10 (highest increment) whenever you wish to Zoom In or Out of an image page.
- When zooming in causes the current image to be larger than the Image Panel size, the normal arrow cursor indicator automatically changes to the "hand" cursor. Also the relevant Horizontal or Vertical scrollbar will also appear as soon this happens.
- With the cursor being a "hand" cursor, you can depress the left mouse button without releasing it and drag the cursor to move the image up, down, left and right as desired to view the image area that you are interested in.
- If your mouse has a Scroll Wheel, you can also scroll vertically by scrolling up or down.
- Page Display functionality controls are the following:
- **+□+ ↓**
- By default, each image page is displayed as 'Fit to Page' within the Image Panel's dimension. To display the image extended to the maximum width of the Image Panel, you can press 'Fit to Width' button. To display the image as per its actual size, press 'Display Actual Size' button.
- You can programmatically set the Page Display to the non-default value if you wish to do so during your Application Build phase.
- The Rotation controls are the following:



• To rotate an image page in an anti-clockwise direction, press the left button shown above, and in a clockwise direction, press the right button.



- Delete Pages functionality controls are the following:
- The left button, i.e., **'Delete Current Page'** will delete the current image page that is displayed within the Image Panel.
- The right button, i.e., '**Delete Page(s)**' will display the following popup window:



You can specify a valid Start and End Page Range, which will be validated, before the relevant pages are removed from the current imaging document after pressing **'OK**' button.

Size: 300

• Image Magnifier functionality controls are the following:



To move the magnified area, depress your left mouse button without releasing it and drag it around to your desired area for viewing.

Scale: 2.0

- To resize the magnified area, press **'Size'** dropdown list item and choose the required value, which will increase or decrease its size depending on your choice.
- To make the magnified area smaller or larger, press **'Scale'** dropdown list item and choose the required value.
- To return back to Normal mode, press **'Hide Magnifier'** button or press on another page within the Thumbnail Panel.



• To allow **Image Cropping**, the following set of controls are available to perform such a function:



• All other controls within the Toolbar are disabled; current cursor is changed to a crosshair symbol (+); and the following message is displayed in the Status Line of the Java User Interface:

1 Draw rectangular area within the image to crop & press 'Crop Image' button. Press 'Cancel Crop' to return to Normal mode

- **'Enable Crop'** button has now become **'Cancel Crop'** button, with its icon changed as above, to allow the user to cancel the Image Cropping process, if required.
- 'Crop on Mouse Released' checkbox is enabled, and when checked allows the user to automatically crop the image on releasing the mouse after having drawn a rectangular area to crop the image, which saves 1 keyboard stroke. When this checkbox is ticked, it changes the Image Cropping controls to the following, with the 'Crop Image' button being hidden as it is not required:

Y Crop on Mouse Released?

• Unselecting the checkbox above, displays the ('**Crop Image**') button to allow the user to manually crop the image once you have decided on which portion of the image that needs to be cropped.

 Once you have cropped the image, all the Toolbar controls that were disabled will be re-enabled; the Image Cropping controls will revert to its original state; and the newly cropped image will be updated within the Image Viewer as well as the Thumbnails panel, as shown below.



• The Image Editing functions are:



- The leftmost button is 'Flip Image Horizontally', the next button is 'Flip Image Vertically', followed by 'Convert to Grayscale', 'Resize Image' and 'Restore Original Image'.
- To resize any image page, pressing '**Resize Image**' button will display the popup window below:

🔀 Resize Image	×				
This Resize feature will always honor the image's original proportions and maintain the Aspect Ratio. If invalid target dimensions are specified, it will re-calculate proper dimensions honoring the primary dimension of the image first.					
Resize By: Percent Pixels					
Resize %: 100 V New Width: 580 pixels New Height: 1237 pixels					
Scaling Method: Automatic \checkmark Resizing Mode: Automatic \checkmark					
'Exact Fit' Resizing Mode will ignore the proportion of the source image and it will be stretched to fit the exact dimensions given.					
Pad Edges of Image? Padding Size: 2 Padding Color: Black					
V Resize Image 🔀 Close					

 To resize any image page, by a Percentage (25 to 300%) or by Pixels you can specify the desired Scaling Method and Resizing Mode:



- The recommended setting of 'Automatic' for both Scaling Method and Resizing Mode is the best to use to resize any image page, though you may try with other settings to suit your specific needs.
- If you wish to pad your image page(s) with a colored box, tick the checkbox 'Pad Edges of Image?' and set the Padding Size between 1 and 5, and choose your Padding Color accordingly from the list, before pressing 'Resize Image' button within the popup window.

- To restore the original image, in case you had made a mistake with any of your image transformation operation, you can always press if **'Restore Original Image'** button. Every single image page that may have been transformed in any way can be restored back to its original state, if desired, within the current session. Thus, Ezy Image Manager allows you to revert back to its original form to allow a new set of imaging functions to be performed, before you decide to update the document back into its document repository.
- These 2 buttons ie, 'Add Page(s) Before Current Page from Document and 'Add Page(s) After Current Page from Document, allows you to perform such a function, if you wish to add more page(s) from existing digital documents into your current imaging document.

Pressing any one of these 2 buttons will popup, as shown below, the 'Select Image File to Add Page(s) From' Dialog Window that allows you to select any of your existing image file in BMP, GIF, JPG, PNG or TIF format:



• Upon selecting the required image file, and pressing **'Open'** button, the image will be added before/after the current image page within the Image Viewer, depending on the 'Add Page(s)' button you had pressed.

To print the currently loaded imaging document with whatever changes made, ie, rotations, deletions, additions, resizing, editing and/or cropping, press 🗧 'Print Document' button. This will automatically display the Print Dialog window as shown below, with the pages automatically derived based on the number of pages within the currently displayed document.

🛓 Print	×
General Page Setup Appearance	
Print Service	
Name: EPSON5A034A (WorkForce	630) ∨ P <u>r</u> operties
Status: Accepting jobs	
Туре:	
Info:	Print To <u>F</u> ile
Print Range	Copies
⊖ A <u>I</u> I	Number <u>o</u> f copies:
Pages 1 To 2	Collate
	Print Cancel

Set whatever Printer properties as desired and press the 'Print' button to send the imaging document to the Printer Queue, or press 'Cancel' button to return back to the Image Viewer panel.

If you do not wish to see this Print Dialog and wish to send sensitive and confidential imaging documents directly to the default printer that is connected to your local client machine or send these documents to another targeted local or remote printer that is accessible from your local client machine, kindly have a look at our Ezy Image Print product.

To reload the current document press 'Reload Last Opened Document' button: ٠



To clear the current document press 'Close Document' button: ٠



• Pressing 'Update Document' button within the Oracle Forms region will always perform a check to determine if any changes have been made to the current imaging document. This would display the following message in the Status Line of the Java User Interface with an animated icon to indicate that the check document change process is in progress:

Checking if document has been changed. Please Wait...

• Should there be no changes made, the following message will then be displayed in the Status Line to inform the user of the current status:

1 Document has NOT been modified.

 Assuming that the user has made some changes for a document opened from the Shared Network Folder, pressing 'Update Document' button would display the following "Update Document in Shared Network Folder' Progress Window, if the application has been set to automatically update any changes to it:



Upon completion of the document update process, the Status Line message would be updated accordingly, as shown below:

1 Image Document successfully updated in Shared Network Folder.

 In the event that the application has been set to request the user to decide if any update to the relevant repository upon a modification being made should proceed or be cancelled, then you would see the following popup window if the original document had been changed:

🕪 🖬 Update Document in Shared Network Folder			
×	Update 🔀 Cancel		
Progress:	0%		
• Press 'Upload' or 'Cancel' butt	on.		

 However if the original document format has been changed from a single page document with a file format of '.bmp', '.gif', '.jpg', '.jpeg' or '.png' to a multiple pages document (ie, '.tif'), possibly due to addition of page(s) from any of the supported input sources (scanners, webcams, digital cameras, mobile devices or existing local/shared network folder(s), then the following popup screen would be displayed, which contains a WARNING Icon and a message to alert the user:

🗊 🖥 Update Document in Shared Network	k Folder
Document format will be changed	l to 'tif' to support multiple pages.
Vpdate	🔀 Cancel
Progress:	0%
• Press 'Upload' or 'Cancel' button.	

- The 'Update Document in Shared Network Folder' OR 'Update Document in Local Folder' (if you had opened an imaging document from the Local Client Repository) popup window will allow you to decide if you wish to update the document within the source repository or close the window and return to the Image Viewer screen.
- Pressing **'Cancel'** button will close this popup screen and return back to the Image Viewer screen with the following message displayed in the Status Line of the Java User Interface:

• Pressing '**Update**' button will start the process of updating the file to the relevant repository.

The Progress Bar within this window would be updated as per the screen below while the upload process is taking place:

Provide a comment in Shared Network Folder				
Document format will be changed	ed to 'tif' to support multiple pages.			
Vpdate	X Cancel			
Progress:	<mark>50</mark> %			
Uploading Document. Please Wait				

• Upon completion of the document update process, the Status Line message would be updated accordingly as per the following message:

1 Image Document successfully updated in Shared Network Folder.

Assuming that I had added additional pages to the single page 'JPG' document for the 1st record and upon pressing the 'Close' button after having updated the document to upload it back to its original source location, we would see the original file, as per our example 'C:/EIS_images/jamie_gray_wm1.jpg' to be renamed to 'C:/EIS_images/jamie_gray_wm1.tif' as well as the new Document Format to be updated to 'tif', and the updated 'Capture Date/Time', as per the screen in the next slide:

🛃 Ezy Image Manager - Sample Application

CLocal Client & Shared Network Folder Repository - List of Captured Documents -

ilename	Capture Date/Time	Document Format	Show	Open	Thu	Imbnail of First Page
:/EIS_images/jamie_gray_wm1.tif	27-Jun-2019, 06:33 PM	tif	Thumbnail	Viewer		Gathermonia of and income forther of the contract of the
\asus-bob/EIS_images\scan_2pgs.tif	18-Jun-2019, 01:45 PM	tif	Thumbnail	Viewer		
\asus-bob/EIS_images\Jamie_Pg1.png	18-Jun-2019, 01:40 PM	png	Thumbnail	Viewer	2	
C:/EIS_images/5pgs_LSY_HG.tif	18-Jun-2019, 12:44 PM	tif	Thumbnail	Viewer	81	
C:/EIS_images/jamie_gray.jpg	07-Jun-2019, 06:02 PM	jpg	Thumbnail	Viewer		
\asus-bob\eis_images\jamie_1.png	07-Jun-2019, 03:39 PM	png	Thumbnail	Viewer		
C:/EIS_images/3pgs_7Jun2019.tif	07-Jun-2019, 12:35 PM	tif	Thumbnail	Viewer		
C:/EIS_images/V500_5pgs_beauties.tif	19-Apr-2019, 01:40 PM	tif	Thumbnail	Viewer		
\ASUS-BOB\EIS_images\V500_test2_3pgs.tif	15-Apr-2019, 08:00 PM	tif	Thumbnail	Viewer		
2:/Users/bob/Documents/V500_LF_Test1.tif	15-Apr-2019, 07:55 PM	tif	Thumbnail	Viewer		
ASUS-BOB\EIS_images\V500_autocrop_resize_800.tif	01-Apr-2019, 06:21 PM	tif	Thumbnail	Viewer		
ASUS-BOB\EIS_images\v500_autocontrast_resize_800_noautocrop.tif	01-Apr-2019, 06:19 PM	tif	Thumbnail	Viewer		A CONTRACTOR OF A CONTRACT OF
Specify File to Show Thumbnail and/or Open Doc Filename	ument		Select File			
Show Thumbnail	Open Viewer	1				
Allow Print Screen?			Exit	Application		C:/EIS_images/jamie_gray_wm1.ti

×

Summary of Ezy Image Manager

- Very comprehensive solution for Oracle Forms applications that has no match within this marketplace where we have engineered all the "plumbing" tasks to provide the interconnection and connectivity to various repositories and imaging devices.
- Sample application provides knowledge on how to integrate the various APIs into your own applications. Simple & easy to just Copy & Paste relevant sections for quick implementation within 1 to 3 days ONLY.
- Sample application is a huge time saver compared against other competitors, mainly offering SDKs, where lots of time will be spent on developing routines to design Java UI; figure out which APIs to use; test for success, error & exceptions; and lots of other tasks typical of any software development project, which can take 6 to 12 months of effort.

Summary of Ezy Image Manager

- Java UI can be programmatically customized to easily suit your needs and front-end can just call the relevant APIs instead of providing any Forms UI for specifying the API values. User Guide, Technical Guide, Document Capture Error Processing Guide & Technical Support from us will provide you with much valuable information for a successful implementation in no time.
- We are happy to enhance and customize Ezy Image Manager to fit in with your unique & specific needs & requirements. Feel free to contact Bob Gill, whose email is provided at the end of this presentation.
- Not only do we provide a Java Bean version for Oracle Forms applications, but also have a Java Applet and Java Web Start version for other webbased technologies such as Oracle Apex, ADF, JSP, OAF, .Net, ASP, PHP, Python, Ruby, Formspider, etc, thereby providing a uniform & consistent Look & Feel and rich User Experience across your organization's various application development platforms.

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