

Creating Customization sets

I LMM server files

- A. On the VMWARE image, go to the root directory of the LMM application,
 1. C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war
- B. Make a new directory under the war directory.
 1. For this example we will named it "CustDemo".
 2. The "CustDemo" directory will house the customization sets for CSS, JSP, and images
 3. Copy the following files and folders in to the "CustDemo" folder.
 - a. Folder "CSS"
 - b. Folder "Images",
 - c. Folder "js" - JavaScript
 - d. All of the JSP files located in the root of the lms-imm-complete-23.war folder.
 4. This will be the set of files that you can edit for the customization set we will create for the class and all future customization sets.
- C. This initial process is somewhat time-consuming. If you plan to create multiple customization sets I recommend zipping the "CustDemo" folder before making changes in case of mistakes, and a backup of the customization directory so that you will always have a base folder to work from.
- D. What all those components are used for:
 1. The "CSS" folder
 - a. Cascading Style Sheets (CSS) allow a web developer to define aspects of document layout and formatting, such as fonts, text colors, and placement of images.
 - 1) Contains language specific subfolders – example "en" for English.
 - 2) Each language folder contains two sub folders for the supported browsers:
 - a) styleInternetExplorer5
 - b) styleNetscape6
 - 3) Both browser folders contain ten CSS files that are distinctly named and can be customized through a simple text editor such as Notepad.
 2. The "Images" folder
 - a. Contains 158 objects.
 - b. All are GIF files with one exception, bckPrimHeader.jpg.
 - c. A simple image editor can be used to modify these files, or new image files can be created and saved to this folder with the file name of the original image to be replaced.
 - d. I recommend making back ups before replacing files.
 3. The "js" folder
 - a. A single file, scripts.js is included here.
 - b. This file is used to change the background color of a table row associated with the selection, or either a radio button or checkbox.
 4. The Java Server Page (JSP) files.

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- a. There are 452 JSP files.
- b. These files can be edited using a simple text editor such as Notepad also.
- c. Be very careful when editing JSP's it is very easy to make syntactical errors.

II Customizing Resources

- A. The resources customization set is located in a separate directory
 1. C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-Imm-complete-23.war\web-inf\classes\resources\lmm\
- B. Make a new directory under the "lmm" directory.
 1. For this example we will name it "CustDemoRes".
 2. The "CustDemoRes" directory will house the customization sets for CSS, JSP, and images
 3. Copy the following files and folders in to the "CustDemoRes" folder.
 - a. "Properties" folder
 - b. "Templates" folder
 4. This will be the set of files that you can edit for the customization set we will create for the class and all future customization sets.
 5. This initial process is somewhat time-consuming. If you plan to create multiple customization sets I recommend zipping/copying the "CustDemoRes" folder before making changes so that you will always have a base folder to work from.
- C. The "Properties" folder
 1. Properties files are used for message cataloging for translation purposes.
 - a. There are 30 files here which follow a naming convention
 - 1) The language is indicated by the addition of a three character string to the name of the property files
 - 2) International English property files do not include this string
 - a) The English Application Error text property file is named: "ApplicationError.properties"
 - b) The Spanish equivalency is named: "ApplicationError_es.properties"
 2. Can be modified through a simple text editor such as Notepad.
 - D. The "Templates" folder
 1. Template files are used to layout system notifications, error messages, and emails.
 - a. There are 449 simple text files here.
 - 1) The language is indicated by the addition of a three character string to the name of the property files
 - 2) International English property files do not include this string
 - a) One of the English Enrollment notification template files is named: "notificationEnrollmentClassTooSmall.properties"
 - b) The Spanish equivalency is named: "notificationEnrollmentClassTooSmall_es.properties"
 - b. Can be modified through a simple text editor such as Notepad.
 - III The Process is the same for the Delivery server and will not be covered in this training.

Utilizing customization sets provided from a 3rd party such as a development team

I LMM server files

- A. On the VMWARE image, go to the root directory of the LMM application,
 - 1. C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war
- B. In the first section on customization it was advised that you create a backup of the customization directory – unzip that file now into this directory.
- C. If you don't have a backup of the customization directory used for customization sets then you will need to repeat the following steps:
 - 1. Copy the following files and folders in to the "NewCustDemo" folder.
 - a. Folder "CSS"
 - b. Folder "Images",
 - c. Folder "js" - JavaScript
 - d. All of the JSP files located in the root of the lms-imm-complete-23.war folder.
 - 2. This will be the set of files that you can overwrite with the files provided for the customization set provided
- D. Again, this initial process is somewhat time-consuming. If you plan to create multiple customization sets I recommend zipping/copying the "NewCustDemo" folder before making changes so that you will always have a base folder to work from.
- E. Copy the files provided in to the appropriate directory, answer yes to overwrite existing files as prompted.
 - 1. If CSS files are provided (*filename.CSS*) copy those files into the following folder:
C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war\NewCustDemo\CSS
 - 2. If Image files are provided (*filename.gif*, or *filename.jpg*) copy those files into the following folder:
C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war\NewCustDemo\Images
 - 3. If a java script file is provided (*scripts.js*) copy that file into the following directory:
 - 4. C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war\NewCustDemo\js
 - 5. If Java Server Page files are provided (*filename.jsp*) copy those files into the following folder:
C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-imm-complete-23.war\NewCustDemo\Images

II Customizing Resources

- A.** The resources customization set is located in a separate directory
 - 1.** C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-Imm-complete-23.war\web-inf\classes\resources\lmm\
 - B.** In the first section on customization it was advised that you create a backup of the customization directory – unzip that file now into this directory.
 - C.** If you don't have a backup of the customization directory used for customization sets then you will need to repeat the following steps:
 - 1.** Make a new directory under the "Imm" directory.
 - a.** For this example we will named it "NewCustDemoRes".
 - b.** The "NewCustDemoRes" directory will house the customization sets for CSS, JSP, and images
 - c.** Copy the following files and folders in to the "NewCustDemoRes" folder.
 - 1) "Properties" folder
 - 2) "Templates" folder
 - 2.** This will be the set of files that you can edit for the customization set we will create for the class and all future customization sets.
 - D.** Again, this process is somewhat time-consuming. If you plan to create multiple customization sets I recommend zipping/copying the "NewCustDemoRes" folder before making changes so that you will always have a base folder to work from.
 - E.** Copy the files provided in to the appropriate directory, answer yes to overwrite existing files as prompted.
 - 1.** If Properties files were providee then copy them into the following folder:
C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-Imm-complete-23.war\web-inf\classes\resources\lmm\NewCustDemoRes\NewCustDemoRes\properties
 - 2.** If Templates files were provided then copy them into the following folder:
C:\WebSphere\AppServer\installedApps\LMSNetwork\IBM Lotus LMS LMM.ear\lms-Imm-complete-23.war\web-inf\classes\resources\lmm\NewCustDemoRes\templates
- III** The Process is the same for the Delivery Server and will not be covered in this training.

Add the customization sets to the LMS

I Learning Management Module (LMM)

A. Log on to the LMM.

1. Launch Euphrates LMM
 - a. <http://lms.mindspan.com/lms-lmm>.
2. Logon to the system as an administrator
 - a. Click the [Log In](#) link in the upper right corner of the browser.
 - b. Enter "**lmsadmin**" as the username
 - c. Enter "**password**" as the password.
 - d. Click the **Log In** action button on that form.
3. ALL Views are available to a System Administrator, but would not be for a Course Administrator in a true environment. In the interest of time, we have included both roles here because they are so intertwined.
4. The [Home](#), [Student Catalog](#), and [Users](#) tabs will be explored later in this section.

II (A) Click on Settings Tab

- A. Click on the [Manage Customization Sets](#) link
- B. Click on the **Add** button
- C. A popup window opens
 1. Enter a Title such as "Demo"
 2. Enter the LMM Resource Directory value "NewCustDemoRes"
 3. Enter the Web Directory value "NewCustDemo"
 4. Leave the Deliver Server fields blank
 5. Accept the default Matching String Type (Attribute)
 6. Enter a matching String Value¹
 - a. We recommend using a single user to test such as "LdapId=georgep"
 - b. If you make a mistake refer to section above.
 7. Leave the URL fields blank
 - a. **Logo URL** - identifies the logo to be displayed on the home page.
 - b. **Logoff URL** - identifies the logo to be displayed when the user exits from the Learning Management System
 8. There are a list of customization subsets that you can choose to apply:
 - a. **Use Custom Images** – files stored in the "Images" folder
 - b. **Use Help** – files stored in the "Help" folder
 - c. **Use CSS** – files stored in the "CSS" folder
 - d. **Use JSP** – JSP's in the root of "CustDemo" folder
 - e. **Use templates** – files in the "Templates" folder
 - f. **Use text** –files in the "Properties" folder

¹ Use extreme caution when editing/defining Matching Strings

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9. Only select those options for which you have created customization sets.
 10. For the Customization set that we have provided those options should be:
 - a. Use Custom Images
 - b. Use CSS
 - c. Use JSP
 - d. User Text
 11. We recommend that you do not apply all of your changes at once
 - a. This will allow you to see how the items in a customization set will affect the UI individually
 - b. If there are any issues with the changes you have made it will be easier to locate those if you apply changes by one subset at a time.
 - c. Changes are immediately applied.
 12. Click **Save** to apply your changes to the customization sets.
- D.** Test your changes
1. Do not log off or close your existing browser window.
 2. Test your changes in a new browser window
 - 1) Log on as georgep/password.
 - b. Verify your applied changes.
 - c. Log off and close the test browser window
- E.** Return to your original administrator browser window.
- F.** If the changes were applied as expected repeat the previous steps to apply additional changes and retest one subset at a time.
- G.** If the changes did not appear as expected remove your customization subset selection and repair.