**Phresco Framework
Troubleshooting Guide**

Version 1.0

November, 2013

This document applies to Phresco Framework.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 About This Document

This document contains the common issues that might be faced by the end users while using Phresco Framework 3.1.

2 Starting Phresco without Java and Maven set in a Machine

Exception: ERROR: JAVA_HOME not found in your environment. Please set the JAVA_HOME variable in your environment to match the location of your Java installation

Problem Description: The above exception occurs if jdk is not installed

Solution Recommended:
1. Install Java (preferably **jdk1.6.0_17 to jdk1.6.0_31**)
2. Default installation path for the Java Development Kit will be in a directory under C:\Program Files\Java.
3. Using Explorer, open the directory C:\Program Files\Java.
4. Inside that, path will be one or more subdirectories such as C:\Program Files\Java\jdk.
5. Set the Variable for JAVA_HOME in Enviroment variables.
6. Enter the variable name as JAVA_HOME.
7. Enter the variable value as the installation path for the Java Development Kit.
   If your Java installation directory has a space in its path name, you should use the shortened path name (e.g. C:\Progra~1\Java\jdk) in the environment variable instead.
8. Click OK.
9. Open a new cmd prompt and give java –version for verifying the installed version of jdk.

3 NO MAVEN Home set (Running the test case in cmd prompt)

Exception:
'mvn' is not recognized as an internal or external command, operable program or batch file.

Problem Description: Above error is encountered when Maven is not installed properly or the related path is not set in Environment Variables.

Solution Recommended:
MAVEN_HOME need to be set and this can be done in two ways,

1. Phresco framework comes with the maven setup and by executing env.bat in bin Folder of the framework, Maven home can be set.
   Path: Phresco-framework\bin

2. Installation of Maven separately,
   - Download the Maven from official maven website
   - Set the Variable for MAVEN_HOME in Environment Variables
   - Enter the variable name as M2_HOME.
   - Enter the variable value as the installation path for the maven up to bin folder
   - Click OK.
   - Open a new cmd prompt and give mvn –v for verifying the installed version of Maven

4 Pointing settings.xml to Default Repo

Exception:

[ERROR] Failed to execute goal on project HTML5-JqueryWidget_Eshop: Could not resolve dependencies for project com.photon.phresco:HTML5-JqueryWidget_Eshop:jar:0.0.1: Failure to find org.seleniumhq.selenium: selenium-server-standalone: jar:2.30.0 in http://repo.maven.apache.org/maven2 was cached in the local repository, resolution will not be reattempted until the update interval of central has elapsed or updates are forced -> [Help 1]

[ERROR]

[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.

[ERROR] Re-run Maven using the -X switch to enable full debug logging.

[ERROR]

[ERROR] For more information about the errors and possible solutions, please read the following articles:

[ERROR] [Help 1]

http://cwiki.apache.org/confluence/display/MAVEN/DependencyResolutionException

Problem Description: In certain machines the settings.xml of maven is set to maven default repo and Phresco may refer to this settings.xml and encounter with the above error.

Solution Recommended: Need to set Phresco repository mirror tag instead of default path in the settings.xml file of Maven.

Below are the steps that need to be followed,

1. Navigate to the path C:\apache-maven\conf
    2.   Open setting.xml and add this tag inside mirror tag
    <mirror>
    <id>Phresco Repository</id>
    <name>Phresco Repository</name>
    <url>http://phresco.photoninfotech.com/repo-2.0/content/groups/public/</url>
    <mirrorOf>*</mirrorOf>
    </mirror>

    Note: This is been set to execute code validation, tests, build and deploy through normal cmd prompt of our own project or mavenized test cases.

5 Code Validation without Pear Installation

Exception:
[ERROR] Failed to execute goal org.codehaus.mojo:sonar-maven-plugin:2.0:sonar (default-cli) on project Drupal7eshop-drupal7: Cannot execute Sonar: java.io.IOException: Cannot run program "pdepend.bat" (in directory "D:\NON-Photon\Phresco-framework\workspace\projects\Drupal7eshop-drupal7"): CreateProcess error=2, The system cannot find the file specified -> [Help 1]
[ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1]
http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException
[INFO] --
[INFO] BUILD FAILURE
[INFO] --
[INFO] Total time: 1:12.656s
[INFO] Finished at: Fri Jun 14 10:51:08 IST 2013
[INFO] Final Memory: 8M/20M
[INFO] --

Problem Description: Above error is encountered when Pear is not installed properly or the related path is not set in Environment Variables.

Solution Recommended: Wamp and Pear Installation

1. Download wamp from the official site and keep it in C folder
2. Download Drupal code validation setup from downloads tab in Phresco
3. Navigate to folder C:\wamp\bin\php\php5.3.5
4. Set the Variable for PHP_HOME in Environment Variables
5. Enter the variable name as PHP_HOME.
6. Enter the variable value as "C:\wamp\bin\php\php5.3.5"

7. Enter "C:\wamp\bin\php\php5.3.5" in path
8. Click OK.
9. Open a new amd prompt and give php –v
10. Navigate to the path C:\pear\PearInstall and click the setup batch file, press enter when it ask to continue anything
 in cmd prompt
11. Open the new terminal and start Phresco and do Code Validation

Note: Pear proper installation is mandatory for php and drupal code validation.

6 Android Build without having Android Home set

Exception:
ERROR] Failed to execute goal com.photon.maven.plugins.android. generation2:android-maven-plugin:2.2.1.1000:generate-sources
(default-generate-sources) on project Android-androidnative: Execution default-generate-sources of goal com.photon.maven.plugins.android.generation2:android-maven-plugin:2.2.1.1000:generate-sources
failed: Path "sdgsdg\platforms" is not a directory. Please provide a proper Android SDK directory path as configuration parameter ... in the plugin . As an alternative, you may add the parameter to commandline: -Dandroid.sdk.path=... or set environment variable ANDROID_HOME. -> com.photon.maven.plugins.android.generation2:android-maven-plugin:2.2.1.1000:generate-sources (default-generate-sources) on project Android-androidnative: Execution default-generate-sources of goal com.photon.maven. plugins.android.generation2:android-maven-plugin:2.2.1.1000:generate-sources
failed: Path "sdgsdg\platforms" is not a directory. Please provide a proper Android SDK directory path as

Problem Description: Android Installation is not properly done or the Android Home is not set for the installed Android sdk.

Solution Recommended: Android sdk need to be installed and ANDROID_HOME need to set.
Steps involved in Android Installation are listed below

1. Download the android sdk from the official site and move to C or D drive
2. Set the Variable for ANDROID_HOME in Environment Variables
3. Enter the variable value "D:\android-sdk_r17-windows\android-sdk-windows"
4. Enter "D:\android-sdk_r17-windows\android-sdk-windows\platform-tools" in path
5. Open the new cmd prompt and start Phresco and try to build

Note: Android installation may take around 45min to 90min depending up on the local system configurations.

7 Reducing of MAVEN OPTS Size

Exception: java.lang.OutOfMemoryError: Java heap space

Problem Description: This is encountered when Maven OPTS size is very less,

Solution Recommended: Need to set size for MAVEN_OPTS.
Eg: In Windows 7, below steps can be followed to set the OPTS size.
1. Right click on My Computer and select Properties
2. Click the Advanced System Settings link located in the left navigation of System Properties to display the Advanced System Properties
3. Go to the Advanced tab and click the Environment Variables button located at the bottom of the Advanced System Properties configuration window
4. Create a New user variable, set the Variable name to MAVEN_OPTS and set the Variable value to -Xmx1024m (or more)

Note: For a system with 2gb RAM the maximum size allowed is 1024 and should not be kept as 2048m

8 MAMP Space Issue

Exception: Failed to deploy the app due to less memory

Problem Description: Sometimes the deployment gets failed due to space issue in Mamp.

Solution Recommended:
MAMP does not use my.cnf file by default.
So copy the file at /Applications/ MAMP/Library/support-files/my-medium.cnf to /Applications/MAMP/conf/my.cnf (notice the new name of the file).
Change the max_allowed_packet= 1M to max_allowed_packet=100M .
Restart the framework and try deploying.

9 WAMP Space Issue

Exception: Failed to deploy the app due to less memory

Problem Description: Sometimes the deployment gets failed due to space issue in Wamp.

Solution Recommended:
Default memory present is 2 M, this needs to be changed to 1024M.
Rewrite and override permissions needs to be given.
Goto Wamp->PHP->php.ini->replace 2M with 1024M.
Goto Wamp->apche->httpd.conf->Uncomment the line with the word
"rewrite" Goto Wamp->apache->httpd.conf->replace the word "None" with "All" (check for Allowoverride)

10 Code Validation takes too much time to run

Exception: In some cases, the Code validation takes huge time and UI may get hanged.

Problem Description: For certain applications, the Code Validation may take hug time and this may also hang the flow of Phresco.

Solution Recommended: To overcome the above issue, certain modules need to excluded in pom.xml
To Exclude the open source modules navigate to the
Path "Phresco-framework\
workspace\projects\Drupal7eshopdrupal7\source\sites\all\modules"
Open the project pom.xml goto to line,
<sonar.exclusions xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance">**\
field**,**\file**,**\field_sql_storage**,**\options**,**\text**,**\shopmenu**</sonar.
exclusions>
Here, you can make the entries of the modules that need to ignored while performing Code Validation.

11 Code Validation Timeout Error

Exception:
[ERROR] Failed to execute goal org.codehaus.
sonar:sonar-maven-plugin:3.2:sonar
(default-cli) on project poc: Execution default-cli
of goal org.codehaus.sonar:sonar-maven-plugin:3.2:
sonar failed: Fail to download the file:
http://localhost:2468/sonar/jdbc-driver.jar (no proxy):
Read timed out

Problem Description: For certain applications, the Code Validation may take hug time
and this will throw Code validation timeout exception as above.

Solution Recommended: Go to project pom.xml and search for the below and increase
the time limit.
sonar.phpDepend.timeout
sonar.phpPmd.timeout
sonar.phpCodesniffer.timeout
Increase the time limit as you want eg:"100"

12 settings.xml Failure

Exception: "Failed to execute, 2.2.1.1000 artifact is missing"

Problem Description: This is due to overriding of maven setting file execution within Phresco by .m2 setting.xml file data residing within C:\Documents and Settings\User\.m2

Solution Recommended:
Go to
C:\Documents and Settings\vignesh_p\.m2 - > Settings.xml
Either rename the settings.xml or delete it and restart the framework.

13 Unable to start Phresco in Mac

Exception: Encountered with the error "Operation not permitted" while trying to start Framework

Solution Recommended:

Execute the command below in a terminal

xattr -l /usr/local/bin/mvn and xattr -d com.apple.quarantine /usr/local/bin/mvn"

Note: This the one time activity for particular MAC machine

14 Zend configuration issue in Apache server

Exception: This is not an issue it's another framework used by PHP.

Problem Description: PHP is been implemented as Raw in Phresco, so few changes to be done manually to meet the Zend framework requirement.

Solution Recommended: The following libraries should be enabled in php as below:
In php.ini file,
PHP – SOAP lib, PHP -curl, PHP -Fileinfo, PHP -GD Library , PHP -Ldap, PHP – Open SSL.
Also, the below changed needs to be done at the source code of the customer,
Navigate to the path , Phresco-framework/workspace/projects/php/source/ application/configs/ application.ini and modify the code as per your wamp directory path,
exifTool.Path = "C:/exiftool/exiftool";
mediaInfo.Path = "C:/mediainfo/mediainfo";
logFile = "C:/wamp/www/sample/public/files/log.txt";
files.fileuploaddir = 'C:/wamp/www/sample/public/files/';
files.thumbnailuploaddir = 'C:/wamp/www/sample/public/thumbnails/';
files.fileuploadurl = 'http://localhost/sample/files/';
files.thumbnailuploadurl = 'http://localhost/sample/thumbnails/';

15 Negative seek offset error in MAC during CI

Exception:

[ERROR] Failed to execute goal org.apache.maven.plugins:maven-war-plugin:2.1.1:war
(default-war) on project ci: Error unpacking file [/Users/neiman_marcus/Desktop/Phresco-
framework/bin/../workspace/repo/org/jenkins-ci/main/jenkins-war/1.442/jenkins-war-1.442.war]to
[/Users/neiman_marcus/Desktop/Phresco-
framework/workspace/tools/jenkins/target/war/work/org.jenkins-ci.main/jenkins-war]: Error while
expanding /Users/neiman_marcus/Desktop/Phresco-
framework/bin/../workspace/repo/org/jenkins-ci/main/jenkins-war/1.442/jenkins-war-1.442.war:
Negative seek offset -> [Help 1]

Problem Description: Incomplete download of Jenkins war, this happens due to
network issues.

Solution Recommended:

Stop the Framework
Delete the Jenkins-ci from the below path,
Path: "Phresco-framework-> workspace->repo->org->jenkins-ci
Start the Framework

16 Phresco not launching the app in iPhone simulator

Exception: In the console it shows build success while deploying, but the expected app is not launched in simulator

Solution Recommended:
Navigate to path "\Phresco-framework\workspace\tools\waxsim" in terminal and execute the command below
xcodebuild install DSTROOT=

Note: This is automated with the latest release of Phresco i.e., 2.3

17 Running Unit test cases (Application test) for IOS without starting the ios sim manually

Problem Description: If IOS sim is not installed, then console says build success but the tests are not executed, the reported are not generated.

Solution Recommended:

For executing Application test in iPhone technology, IOS-Sim tool should be installed manually.

For this go to the path,

phresco-framework/workspace/tools/ios-sim

Then execute the below command to install ios-sim in the local machine.

rake install prefix=/usr/local/

18 Running Unit test Cases for Drupal technology without doing build and deploy

Exception: Error: Unit test: [Fatal Error] AllTest.xml:1:1: Premature end of file. (Drupal)

Problem Description: For drupal tech: Unit test execution depends on the modules

Solution Recommended: Build and deploy need to done before executing the Unit test cases.

19 Deploying the android app without having any device

Exception: "No Online Device"

Problem Description: This occurs when one tries to deploy the app to a device and the same is not connected to the PC or the connected devices are not detected by the system.

Solution Recommended: Open the terminal and type adb kill -server and then press enter.
Now type adb devices to see the list of devices attached.

20 Executing Application Unit Test for iOS in iPad

Exception: Not Applicable / Pre-requisite

Problem Description: This is the pre-requisite, which needs to be performed before executing Unit Tests (Application Test) for IPAD.

Solution Recommended: The workaround for this is to override the run platform scripts that are being used by apple and have a custom script. The script is attached. The script needs to be placed under Run Script of the application test target. This script will make use of ios-sim, which is a third party tool to launch the simulator. Application tests will get executed once the simulator launches and the rest of the process is the same.

Note: This will run both on workspace and target based architectures and has been tested in xcode4.5.

script.sh :

```
if [ "$RUN_UNIT_TEST_WITH_IOS_SIM" = "YES" ]; then
    test_bundle_path="$BUILT_PRODUCTS_DIR/$PRODUCT_NAME.$WRAPPER_EXTE
    NSION"
    environment_args="--setenv
    DYLD_INSERT_LIBRARIES=/../../Library/PrivateFrameworks/IDEBundleInjection.fra
    mework/IDEBundleInjection --setenv XCInjectBundle=$test_bundle_path --setenv
    XCInjectBundleInto=$TEST_HOST"
    ios-sim launch $(dirname $TEST_HOST) $environment_args --args -SenTest All
    $test_bundle_path
    echo "Finished running tests with ios-sim"
else
    "${SYSTEM_DEVELOPER_DIR}/Tools/RunUnitTests"
fi
```

21 Mocha needs to be installed for performing Code Validation, Build and Deploy for Nodejs

Exception: Not Applicable / Pre-requisite

Problem Description: This is the pre-requisite installation , which needs to be done before executing Code validation, Build and Deploy for Nodejs.

Solution Recommended: Steps For Setting Up Node Js before testing the Node JS Project.

- Download and install Node Js.
- Set the path of the installed Node Js in the environment variables.
- Open the command prompt , move until the path of the installed Node Js and execute the following commands.
  - 1. npm install mocha
  - 2. npm install mocha-lcov-reporter
  - 3. npm install should
- After Creating a Node Js project in Phresco Framework, in downloads tab and in others sub tab , you will find jscoverage. Download it and unzip at any system location.
- Set the path of this jscoverage folder in the environment variables.

NOTE: This is a one time installation process.

22 Migrating 2.3.x adopted projects to 3.0.x

Exception: Steps to migrate the 2.3.x adopted project to 3.0.x

Problem Description: If the customer wants to migrate the 2.3.x adopted projects to 3.0.x, then the customer needs to follow the below description.

Solution Recommended:

- Check out the project which was adopted using 2.3.x Phresco Framework.
- Move the project to the 3.0.x workspace.
- Change the version from 2.3.x to 3.0.x in all the available pom.xml's of the adopted project
- Create a new project in 3.0.x (same technology as that of 2.3.x) and replace all the xml's in the 2.3.x with the 3.0.x (.phresco's) xml files.
- Get the id values of "selected values" and "selected components" in the **project.info** file from the newly created 3.0.x project and then replace the same in the 2.3.x's projects project.info file.

Note:
Make sure you have selected same modules/components in the 3.0.x created project as similar to 2.3.x project

23 iOS Application Unit Test Report Issue

Exception: Report Not Generated for Application Unit Test - iOS

Problem Description: Application Unit tests are executed successfully but the report is not generated. This is w.r.t the current 2.3.0.28002 release only.

Solution Recommended:

- This is a work around which can be followed to get the reports generated for the executed application unit tests.
- Go to the path, workspace\tools\apache-tomcat-https-7.0.21\webapps\phresco\components\dynamicPage\js\listener Open the file with the name, **dynamicPageListener.js**
- Search for the method, **constructCheckboxCtrl(),** over right the last if-else both with the below,

```
if (liLastPrevId !== undefined && liLastPrevId.indexOf('checkCtrl') !== -1)
{
    whereToRender.append('<li type="checkbox" class="ctrl checkCtrl '+columnClass+'" '
    +optionalAttrs.show+' id="'+parameter.key+'Li"><input type="checkbox"
    showHide="'+parameter.show+'" parameterType="'+ parameter.type+'" name="'+
    parameter.key +'" '+checked+' value="'+parameter.value+'"
    additionalparam="'+additionalparam+'" dependency="'+dependency+'"
    id="'+parameter.key+'" ' +optionalAttrs.editable+' >
    '+parameter.name.value[0].value+optionalAttrs.required+'</li>');
}
else
{
    whereToRender.append('<li type="checkbox" class="ctrl checkCtrl '+columnClass+'" '
    +optionalAttrs.show+' id="'+parameter.key+'Li"><input type="checkbox"
    showHide="'+parameter.show+'" parameterType="'+ parameter.type+'" name="'+
    parameter.key +'" '+checked+' value="'+parameter.value+'"
    additionalparam="'+additionalparam+'" dependency="'+dependency+'"
    id="'+parameter.key+'" ' +optionalAttrs.editable+' >
    '+parameter.name.value[0].value+optionalAttrs.required+'</li>');
}
```

24 Migrating 3.0 adopted projects to 3.1

Exception: Steps to migrate the 3.0 adopted project to 3.1

Problem Description: If the customer wants to migrate the 3.0 adopted projects to 3.1, then the customer needs to follow the below description.

Solution Recommended:

- Import the project which was adopted using 3.0 Phresco Framework.
- Change the version from 3.0.x to 3.1.0.7000 in all the available pom.xml's of the adopted project
- Create a new project in 3.1 (same technology as that of 3.0) and replace all the xml's in the 3.0 with the 3.1 (.phresco's) xml files.