



IBM OpenPages GRC Platform Lifecycle Configuration Guide





NOTE

Before using this information and the product it supports, read the information in Appendix C: Notices of this document

Product Information

This document applies to IBM OpenPages GRC Platform 7.2.0.2 and may apply to subsequent releases.

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Pre-Requisites:

Requires OpenPages 7.2.0.2 + All modules Install or higher version



Configure LifeCycle for New Objects

This document will describe steps on how to configure LifeCycle for objects other than standard defined OOB (Issue/Incident/Control/LossEvent) which comes with the installation.

Task 1: The 4 Main Steps

- The first step is to identify the object that you would like to configure the LifeCycle.
- The second step is to design a LifeCycle workflow for the object identified. Workflow is defined by the below set of attributes
 - a. Stage represents a step in the lifecycle
 - b. Transition represents the possible next stage for the current stage
 - c. Status represents the possible status upon a transition
 - d. Assignee represents the responsible person for the stage
- · The third step is to identify values for each of the attributes defined above
 - a. Stage New, In Progress, In Review, Closed
 - b. Transition Start, Send for Review, Review Reject, Review Close
 - c. Status In Progress, In Review, Review Rejected, Closed
 - d. Assignee performer, Reviewer
- The fourth step is to draw a workflow diagram with all the values for each attribute





Task 2: Define the Workflow in Detail

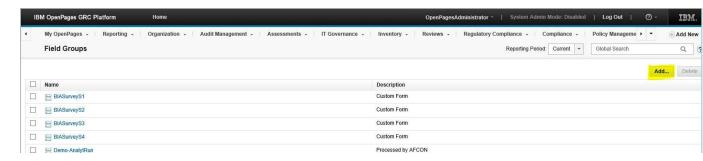
- When an object is initially created "Stage" will be set to "New"
- User can take the workflow to the next "Stage" by selecting the required transition
- From the above workflow diagram, the only "Transition" defined is "Start"
- Upon selecting the "Transition", the workflow "Stage" is set to "In Progress"
- When the "Stage" is "In Progress", the "Status" is set to "In Progress" and user who is defined as the responsible owner is "Performer"
- User can then move the "Stage" from "In Progress" to "In Review" by selecting the "Transition" to "Send for Review"
- When the "Stage" is in "In Review", the "Status" in this stage will be "In Review" and the "Reviewer" is the responsible owner



- User can the move the "Stage" from "In Review" to either close the workflow by selecting the "Transition" to "Review Close" or can take back to "In Progress" stage by selecting the "Transition" to "Review Rejected"
- When user selects "Transition" to "Review Close", the "Stage" is moved to "Closed" and the "Status" is set to "Closed"

Task 3: New Field Group

- Once the workflow is defined, the next step is to define the fields for each attribute of the workflow.
- Define a field group:
 - a. The standard notation for naming the field group is "OPLC-<Object Type>"
 - b. As an example, we are creating the workflow for "SOXTest" object
 - c. Navigate to Administration! Field Groups
 - d. Click on "Add"



e. Create a new Field Group - "OPLC-SOXTest"



f. Create 4 enumerated/dropdown fields and define values by clicking on "Add" button as shown in the below example



LCName – Specify the name of the lifecycle. You can define any number of stages as you
wish per the workflow design you have defined in the step 1. Ex: 1 Stage, 2 Stage, 3
Stage...





ii. LCStage - Specify the stages listed above. In this case, will be New, In Progress, In Review, Closed



iii. LCStatus – Specify the status listed above. In this case, will be In Progress, In Review, Review Rejected, Closed

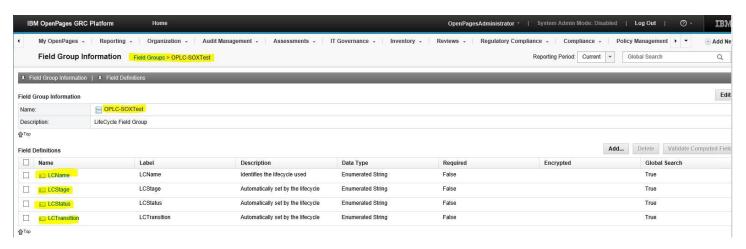


 iv. LCTransition – Specify the transition listed above. In this case, will be Start, Send for Review, Review Reject, Review Close





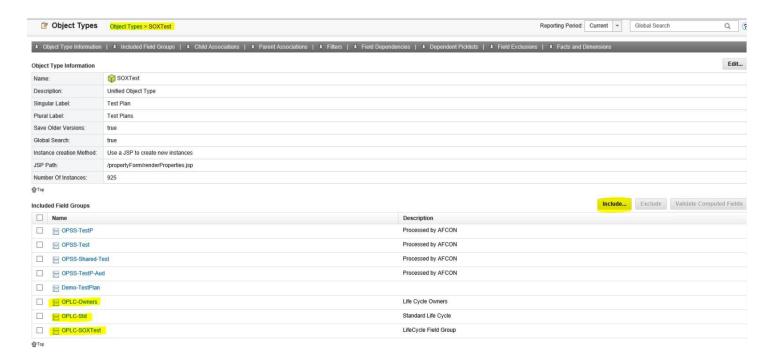
v. The final field group after creating the 4 fields will look like the below



Task 4: Object Level Changes

- Once the field group is created, navigate to Administration! Object Types! SOXTest! Included Field Groups
- · Click on "Include..." button next to the "Included Field Groups" section
- Include the below highlighted fields
 - a. "OPLC-Owners"
 - i. Optional and contains a default list of possible owners at different stages in the lifecycle
 - b. "OPLC-Std"
 - i. LCAssignee the owner at the current stage of the lifecycle
 - ii. LCComment optional comment the user supplied on a transition
 - iii. LCDueDate can be used for specifying a due date
 - iv. LCInReview can be used for UI behavior
 - v. LCReadOnly can be used for UI behavior
 - vi. LCUpdateAssignee used to update/reset the LCAssignee field for the current stage
 - c. "OPLC-SOXTest"
 - i. Created in Task 3





- Navigate to Administration! Object Types! SOXTest! Dependent Picklists
- Create a new picklist dependency between "LCTransition" and "LC Stage"



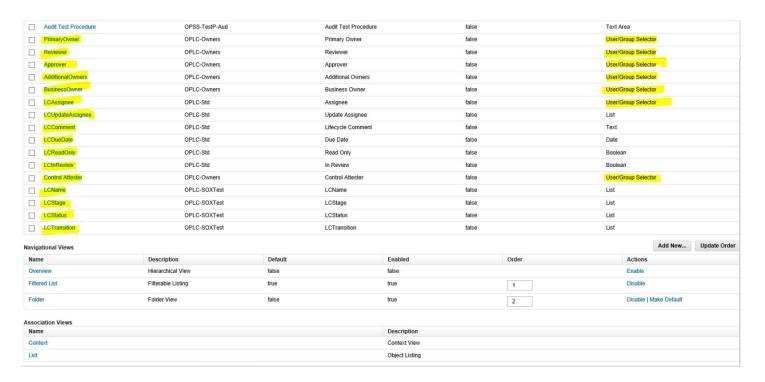
Controlling field is "LCStage" and dependent picklist is "LCTransition" field



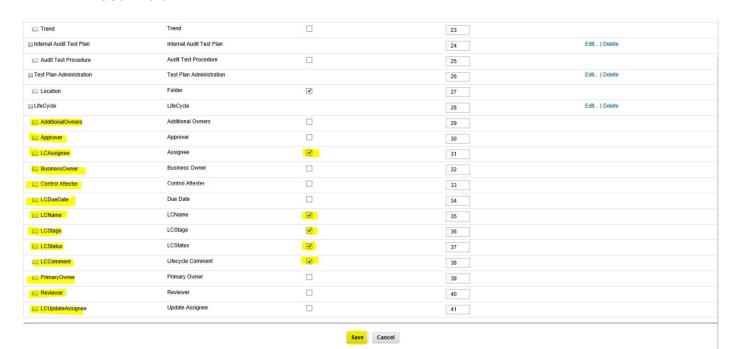
Task 5: Profile Level Changes

- Navigate to Administration! Profiles! Pick a profile! Object Fields
- · Click on "Include..." button next to "Object Fields" section





- Include all the lifecycle fields from the field groups added to the object to the detail view except "LCTransition",
 "LCReadOnly" and "LCInReview" fields
 - o All the owner fields included in the profile should have the display type as user/group
 - selector o The below fields should be set to "Read-Only" in the views
 - LCName
 - " LCStage
 - " LCStatus
 - " LCAssignee
 - " LCComment





Task 6: New Trigger Config XML

Create a new trigger definition file

value="Closed"/>

The below is the sample snippet of the trigger definition file

```
<?xml version="1.0" encoding="UTF-8"?>
<trigger-definitions>
  <!-- If <default settings> are set they will be used in the create.object
event handling in the 'PRE' position.
       If an <assigneefield> is specified for a transition, then an e-mail will be
sent during an update.object POST handling
       Transition "name" attribute: Should be a valid enum value in the
lifecycle transition field.
       Transition "nextstage" attribute: Should be a valid enum value in the
lifecycle stage field.
       setstatus "value" attribute: Should be a valid enum value in the lifecycle
status field. -->
  <grcTrigger name="SOXTest Lifecycle" type="lifecycle"</pre>
    id="op.lifecycle.soxtest"> <objecttype value="SOXTest"/>
    <lifecyclegroup value="OPLC-SOXTest"/>
    <attribute name="from.address" value="donotreply@openpages.com"/>
    <attribute name="email.subject.string.key" value="lifecycle.soxissue.email.subject"/>
    <attribute name="email.subject.parameter.fields" value="name"/>
    <attribute name="email.body.string.key" value="lifecycle.soxissue.email.content"/>
    <attribute name="email.body.parameter.fields" value="OPLC-</pre>
Std:LCAssignee, name, description, OPLC-Std:LCComment, OPLC-
Std:LCDueDate, OPLC-SOXTest:LCStatus"/>
    <defaultsettings>
      <assigneefield objecttype="" field="OPSS-</pre>
      Iss:Assignee"/> <attribute name="readonly"</pre>
      value="false"/> <attribute name="reviewmode"</pre>
      value="false"/>
      <attribute name="sendemail" value="true"/>
    </defaultsettings>
    <transitions>
      <transition name="Start" nextstage="In</pre>
        Progress"> <setstatus value="In Progress"/>
        <assigneefield objecttype="" field="OPSS-</pre>
        Iss:Assignee"/> <attribute name="readonly"</pre>
        value="false"/>
        <attribute name="reviewmode"</pre>
      value="false"/> </transition>
      <transition name="Send for Review" nextstage="In</pre>
        Review"> <setstatus value="In Review"/>
        <assigneefield objecttype="" field="OPSS-</pre>
        Iss:Assignee"/> <attribute name="readonly"</pre>
        value="true"/>
        <attribute name="reviewmode"
      value="true"/> </transition>
      <transition name="Review Reject" nextstage="In</pre>
        Progress"> <setstatus value="In Progress"/>
        <assigneefield objecttype="" field="OPSS-</pre>
        Iss:Assignee"/> <attribute name="readonly"</pre>
        value="false"/>
        <attribute name="reviewmode"
      value="false"/> </transition>
      <transition name="Review Close"</pre>
        nextstage="Closed"> <setstatus
```



```
<attribute name="readonly" value="true"/>
        <attribute name="reviewmode" value="true"/>
      </transition>
    </transitions>
  </grcTrigger>
</trigger-definitions>
```

Once the trigger definition file is ready, check in the file in the OPX



- Configure the trigger definition file in the registry settings by logging into the application and navigating to Administration! Settings! Applications! GRCM! Trigger Configuration Files
- Add the Trigger XML file name at the end of the registry setting



Restart the application services

Task 7: Post-Installation Steps

Sub-Task 1: Test the Workflow

- Login to the application and create a new Test Plan object
- During creation of the record, select the "LCName" from the drop down



- Once the TestPlan object is created by selecting the lifecycle stage, User will have the option to initiate the workflow by selecting "Start" from the Lifecycle dropdown
- Observe that the lifecycle dropdown values are the values from the "LCTransition" field

- Test Pla	nn for ABC				
Description:		Testing Status: Not Tested			
Trend: Not Dete	rmined				
Business Entity	Hierarchy: Global Financial Services > North America > Retail Banking				
Primary Parent I	Hierarchy: RB-05 > RB05-03 > 1-RSK-02-02-01 > 1-CTL-02-02-01-03				
Fields			Lifecycle +	Print	Actions -
— General			Start		
Name:	Test Plan for ABC	Description:			
				11	



Lifecycle Comment:

Update Assignee:

Read Only:

Submit for review

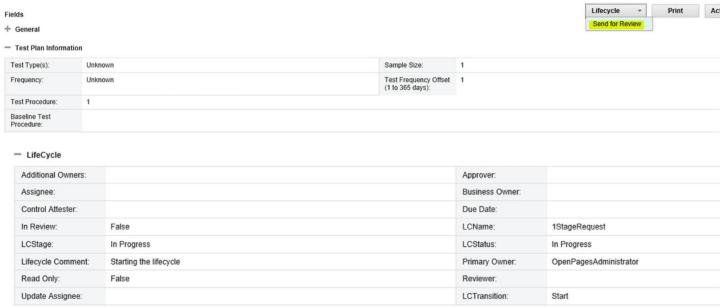
True

Business Analytics Software

The below screenshot displays the values of the configured Lifecycle fields



- As per the workflow diagram, the next stage is "In Progress"
- Observe that the Lifecycle dropdown in this stage has the value "Send for Review" which is the only transition
- Also, notice that the "LCStage" is set to "In Progress" and "LCStatus" is set to "In Progress"



From "In Progress" stage user is provided with option either to close the review and complete it or to reject and bring back to the "In Progress" stage Testing Status: Not Tested Trend: Not Determined Business Entity Hierarchy: Global Financial Services > North America > Retail Banking Primary Parent Hierarchy: RB-05 > RB05-03 > 1-RSK-02-02-01 > 1-CTL-02-02-01-03 Lifecycle Fields Review Reject Review Close Name: Test Plan for ABC Description Test Plan Information Test Type(s): Unknown Sample Size: Frequency: Unknown Test Frequency Offset 1 (1 to 365 days): LifeCycle Additional Owners: Approver: Assignee: Business Owner Control Attester: Due Date: In Review: True LCName: 1StageRequest LCStatus: LCStage:

Primary Owner

Reviewer

LCTransition:

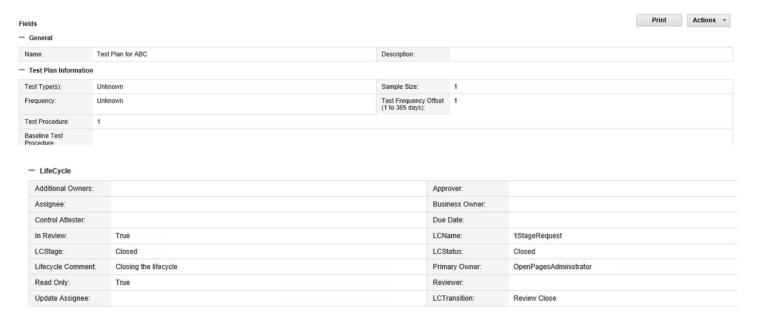
OpenPagesAdministrator

Send for Review

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• When user selects "Review Close", observe that the Lifecycle dropdown disappears and the Status is set to "Closed", indicating that the lifecycle is completed



Task 8: Invoking Custom Triggers from LifeCycle (Optional)

- · We can also invoke custom written triggers along with the LifeCycle created above
- The custom written trigger should be included in the trigger xml in this case "OPLC-SOXTest.xml" by adding the below tag

</trigger-definitions>

- The custom trigger should extend "com.ibm.openpages.api.trigger.oob.lifecycle.DefaultLifecycleEventHandler"
- The below sample trigger xml shows the way to invoke a custom trigger



<trigger-definitions> <!-- If <default settings> are set they will be used in the create.object event handling in the 'PRE' position. If an <assigneefield> is specified for a transition, then an e-mail will be sent during an update.object POST handling Transition "name" attribute: Should be a valid enum value in the lifecycle transition field. Transition "nextstage" attribute: Should be a valid enum value in the lifecycle stage field. setstatus "value" attribute: Should be a valid enum value in the lifecycle status field. --> <grcTrigger name="SOXTestResult Lifecycle" type="lifecycle" id="op.lifecycle.soxtestresult"> <objecttype value="SOXTestResult"/> fecyclegroup value="OPLC-SOXTestResult"/> <attribute name="from.address" value="donotreply@openpages.com"/> <attribute name="email.subject.string.key" value="lifecycle.soxtestresult.email.subject"/> <attribute name="email.subject.parameter.fields" value=""/> <attribute name="email.body.string.key" value="lifecycle.soxtestresult.email.content"/> <attribute name="email.body.parameter.fields" value=""/> <defaultsettings> <transitions> <transition name="Start" nextstage="In Progress"> <transition name="Send for Review" nextstage="In Review"> <transition name="Review Close" nextstage="Closed"> <transition name="Review Reject" nextstage="In Progress"> <eventHandler class="com.ibm.openpages.ext.lifecycle.triggers.TestResultLifecycleTriggerEventHandler" > </eventHandler> </grcTrigger> </trigger-definitions>



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