



**IBM Rational ClearQuest
Application Lifecycle Management Package
Version 1.3 Release Notes**



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1 Introduction

The application lifecycle management (ALM) packages provide a solution for ensuring ALM best practices in your Rational® ClearQuest® change management system. Application Lifecycle Management is a key enabler for streamlining a team's ability to produce a release of software. It coordinates software development activities and assets to produce and manage software applications throughout their life cycles.

The ClearQuest ALM packages provide a role-based process and security model that offers optimal performance with a collection of tightly-integrated record types that create a foundation for managing software development projects.

This release of ClearQuest ALM includes new features and fixes to problems found in the previous release.

Although there is a ClearQuest ALM V1.2 package, this package is not generally available. All features and fixes in ClearQuest ALM V1.2 package are now available in ClearQuest ALM V1.3 package. Also note that ALM V1.3 package has dependencies on new versions of EmailPlus V2.1 and Attachments V2.1 Packages. Please refer to the EmailPlus 2.1 Release Notes and the Attachments 2.1 Release Notes to learn more about these new releases.

2 Prerequisites

Use the ClearQuest ALM V1.3 packages only with Rational ClearQuest V7.1.2 or later. Using these packages with ClearQuest versions earlier than V7.1.2 is not supported.

If upgrading an existing ALM package, the package must be at ALM V1.0 or later version to be able to upgrade to ALM V 1.3 package.

3 New features in this release

IBM® Rational® ClearQuest® 7.1.2 and the Application Lifecycle Management V1.3 package now provide pop-up forms support for some Record Script Alias actions. For more information about pop-up forms support in ClearQuest 7.1.2, see:

https://publib.boulder.ibm.com/infocenter/cqhelp/v7r1m2/index.jsp?topic=/com.ibm.rational.clearquest.apiref.doc/topics/r_examples_openform.htm

The pop-up forms support provided by ClearQuest Application Lifecycle Management (ALM) V1.3 package offers the following advantages to ClearQuest users:

- Significantly reduces the number of clicks required to perform tasks, thus making ALM V1.3 package more agile
- Adds support for pre-populating some fields in pop-up mode and also in non-pop-up mode for workflow automation
- Adds support for multiple pop-up forms within the same workflow

ALM V1.3 package pop-up forms support is enabled for the following actions and ALM record-types:

- QuestionOrComment and CreateTask of ALMRequest
- QuestionOrComment and CreateActivity of ALMTask
- QuestionOrComment of ALMActivity

Prior to ALM V1.3 package, these actions created child records which users had to find and open to fill out. With ALM V1.3 package and pop-up forms support using ClearQuest V7.1.2 and later, these record scripts alias actions open the related child record forms as they are created and enable you to modify and save these records. If an action leads to the creation of multiple child records, the pop-up forms are presented to the user sequentially. This pop-up capability is only available with ClearQuest V7.1.2 using ALM V1.3 package with ClearQuest Web and ClearQuest Eclipse. If you are running the ClearQuest Native Windows client, the record script alias does not provide pop-up forms and the behavior is the same as when using the ALM V1.0 or V1.1 package.

4 Upgrade considerations

Consider the following when upgrading to this release from the ClearQuest ALM V1.0 or V1.1 package:

1. ALMRequest::CreateTask must now be specifically added to ALMRole->ApprovedActions for roles that will need to perform this action. In the ClearQuest ALM V1.0 package that was not required.
2. ALMProject::SetDefault is no longer needed in any ALMRole. Every role has the permission to set the default project. There is no need to remove this approved action from an ALMRole->ApprovedActions list but there is no longer a need to add it, either.
3. All ALMWorkConfigurations must have a PrimaryRole specified before a CopyProject is performed. The copy project action will fail if this field is blank for ALMWorkConfigurations with Record type of ALMTask and ALMActivity.

4. Starting with ALM V1.1 package, at least one ALMProject must be specified with its "AssignedToAllRejectedRequests" checked.
5. If you have marked your 'ALL' Project Obsolete (used without option for Rejected Requests in ClearQuest ALM 1.0), you will need to clear the Category->Obsolete checkbox before modifying your ALMProject or you will not see the 'ALL' Category as an option on that Project and therefore will not be able to set the "AssignedToAllRejectedRequests" checkbox. This is because Obsolete settings now works properly where it did not work properly in ClearQuest ALM 1.0. Once you have updated your 'ALL' Project to be the "AssignedToAllRejectedRequests" Project, you can once again Modify the ALMCategory->Obsolete check box so that the 'ALL' Category is not a nuisance choice to your users. The 'ALL' Project will work properly so long as you do not Modify or State transition it. If you do need to change the 'ALL' Project, repeat this process.
6. In order to see Priority choices on the ALMRequest and ALMActivity (a new ClearQuest feature introduced in ALM 1.1), you need to add new ALMType records with Record Type set to ALMRequest and ALMActivity record type and Type Indicator set to Priority.
7. There is a special procedure for applying the ALMWork, Attachments, and EmailPlus packages from the DCF download site when using UTF-8 code page on Rational ClearQuest V7.1.2. The guidance on how to do this is available from the Rational Support site at:
http://www-01.ibm.com/support/docview.wss?rs=0&q1=1414422&uid=swg21414422&loc=en_US&cs=utf-8&cc=us&lang=all
8. When migrating from ALM 1.0 to ALM 1.1 or ALM 1.3, the Subject field is added to ALMComment records and is made mandatory. If you are editing ALMComments which were created in ALM 1.0, this is problematic since there is no Subject line but you are required to enter a subject.

One workaround for this limitation is to use the following DB2 SQL command to update all ALMComments with blank subjects:

```
---IBM DB2 UDB 8.1 or above
-- ALM 1.0 to ALM 1.1 or 1.3 Upgrade

-- Set the value of the Subject field on ALMComments to the first
-- 254 characters of the comment itself.

---DB2ADMIN needs to be substituted with what is on your database
```

```
UPDATE DB2ADMIN.ALMCOMMENT ALMCOMMENT
SET SUBJECT =
  CASE
    WHEN (LENGTH(COMMENTS) > 254) THEN
      SUBSTR(COMMENTS,1,251) || '...'
    ELSE SUBSTR(COMMENTS,1,254)
  END
WHERE ALMCOMMENT.SUBJECT IS NULL;
```

NOTE: Use equivalent syntax for other database vendors.

5 Known issues and limitations

1. A failed hook execution issue has been identified when using ClearQuest ALM packages (downloaded from the DCF download site), with the ClearQuest schema repository and user database managed with Microsoft SQL Server 2005. We have isolated the issue to the following configurations:

- Windows 2003 Simplified Chinese OS + ClearQuest v7.1.1 + ALMWork 1.3.3 package + SQL Server 2005

- Windows 2003 Japanese OS (with or without WindowsServer2003-KB945142-v2-x86-JPN.exe) + ClearQuest v7.1.1 + ALMWork 1.3.2 package + SQL Server 2005

- Window 2003 Simplified Chinese OS + ClearQuest v7.1.1 + ALMWork 1.3 package + SQL Server 2005

When creating ALMRequest the user might encounter the following errors:

"Problem creating resource: Execution of a hook failed during the action Open. It was the FIELD_PERMISSION hook of the field AttachmentsErrorText, attached to the ALMRequest "SAMPL00000020". The reason for the failure was: Can't locate object method "FormatTraceInfo" via package "AXPAttachment" (perhaps you forgot to load "AXPAttachment" ?) at main::attachmentserrortext_Permission line 416."

or

"Error! It failed when executing the Hook of Open Action. The Hook is ACTION_ACCESS_CONTROL in ALMRequest "AdEntity@0x03a5cd20.dbid=0.id='0'". The reason of Error is: Undefined subroutine &main::almrequest_AccessControl called"

At this time there is no solution or workaround to this issue. A support tech note will be published when there is a resolution.

2. If you are extending the schema, we suggest that you do not begin any global variable names or any function names with the following characters:

ALM_

since this may cause confusion with existing ClearQuest ALM global variable names and function names.

The following are known issues and limitations of ALM V1.3 pop-up forms support:

3. In the ClearQuest Web client, the new ClearQuest form always opens in a new tab and, if the parent record form is in a floating window, the new child record form is behind the parent form making it difficult to enter field values. To address this issue, take one of the following actions:
 - Minimize the floating window to edit the record in the tab
 - Change the user preference to avoid floating windows by selecting User Preference → Result Set → How to open related records, and setting the option to "tab"
5. If you close the parent form before saving the child record, you will receive an error message that reads, "An error occurred while committing the record". This error does not impact functionality and may be ignored.
6. The following information is for the Schema Designer: Even though multiple child records may be created, there is no notification at the end that all child records have been processed. You can change the schema to add such a notification. For example, if you want to present a notification message when all the child tasks have been processed, take the following actions:
 - a. Copy the global script of "Generating a custom message" into your scheme from <http://www-01.ibm.com/support/docview.wss?&rs=939&uid=swg21322606>
 - b. Append the following code to CreateChildRecordSave record script after line OpenNextChild();

```
$msg_summary = "Information";      # the message  
box title  
  
$msg_details = "All tasks have been created for  
this request, please refresh the form to find  
the new tasks";      # whatever message you want  
to appear in the message box  
  
DieWithCustomMessage("INFO", $msg_summary,  
$msg_details);
```

7. After completing a workflow which invokes pop-up forms scripting, the parent record does not show the newly created records in its associated field. To see the records, you must click the Refresh button of ClearQuest Web or ClearQuest Eclipse.

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