

Information Engineering Technology

CSE Installation Verification



Release 8.8

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Introduction & Setup

Version Information

This version of the GuardIEn CSE Installation Verification guide is for **IET DevOps Suite CSE Release 8.8**.

Introduction

This *CSE Installation Verification* guide has been created to help verify that installation has been performed successfully and that there are no environmental/technical issues which would affect the main functional areas following initial installation or subsequent upgrade of the system software. The key areas of functionality assessed are:

- Project Administration
- Queues and Tasks
- CRs, Upload Assistant and Change Capture
- Migration definition and execution
- Subset definition
- System Updating

We have designed this documentation for use by a system software installation staff and have assumed no previous DevOps Suite / GuardIEn knowledge – although some background with Gen migration/code generation would be beneficial (if you do not have this experience it may be worthwhile asking for assistance).

The installation verification is documented as a set of tests to be completed in the order presented. Failure to complete the tests in correct sequence may produce inconsistent results. At present, tests assume connection to a single CSE, although as multiple-CSE architectures become more prevalent the document will be enhanced accordingly.

The verification should take approximately 2 hours to complete (excluding any problem resolution).

Installation Verification Pre-Requisites

- Implementation of Gen CSE Encyclopaedia supporting model schema 9.2.A6 (including CSE Construction and Build Tool).
- Implementation of IET DevOps Suite CSE software (clients *and* servers) **or** server-side software *plus* ODBC Remote Data Client. This includes installation of the Windows help files on the client for reference if desired. Access to installed client software during the tests. Note that we also recommend that you have relatively easy access to the server machine in case you encounter problems during the verification process.

Questions and/or Feedback

Each section verifies a particular area of functionality, such as Subset definition/download. If any part of a test fails then that test section should be considered failed. A failure to complete one test section does not mean that another section cannot be tested. For example, if Subset definition fails, then you could attempt the System Updating tests, which are independent.

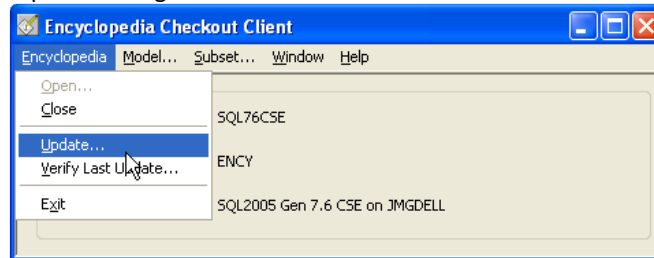
If you encounter any problems or questions whilst completing the verification and are unable to resolve them, please do not hesitate to contact your distributor or Information Engineering Technology. We are constantly striving to improve the installation material and welcome feedback of any kind!

Common Set-up

Various tasks must be completed successfully before you can tackle any of the actual verification tests. These tasks are explained here.

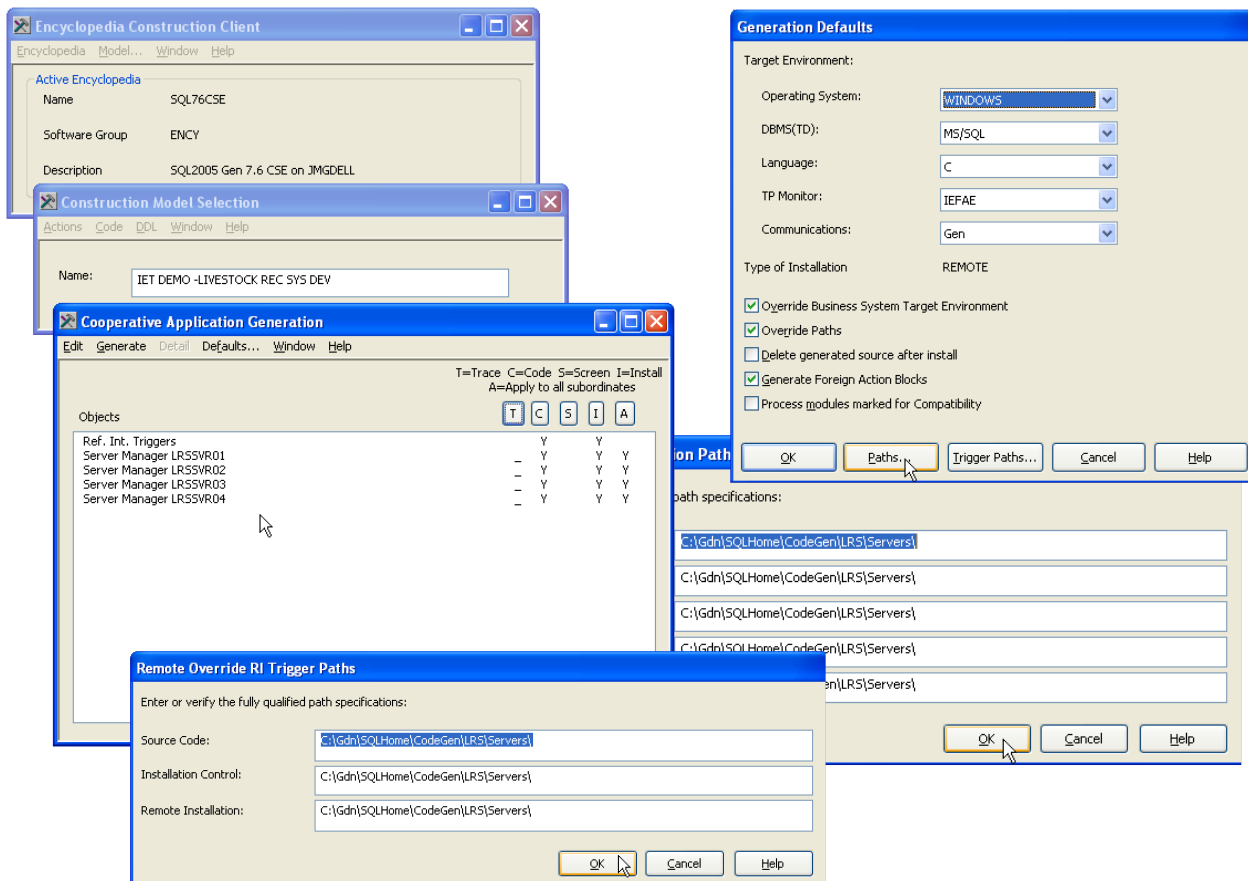
Load Model

A single **UPDATE.TRN** file is supplied with this verification document. The model name is **IET DEMO -LIVESTOCK REC SYS DEV**. Upload this model into your encyclopaedia using the Checkout Client.



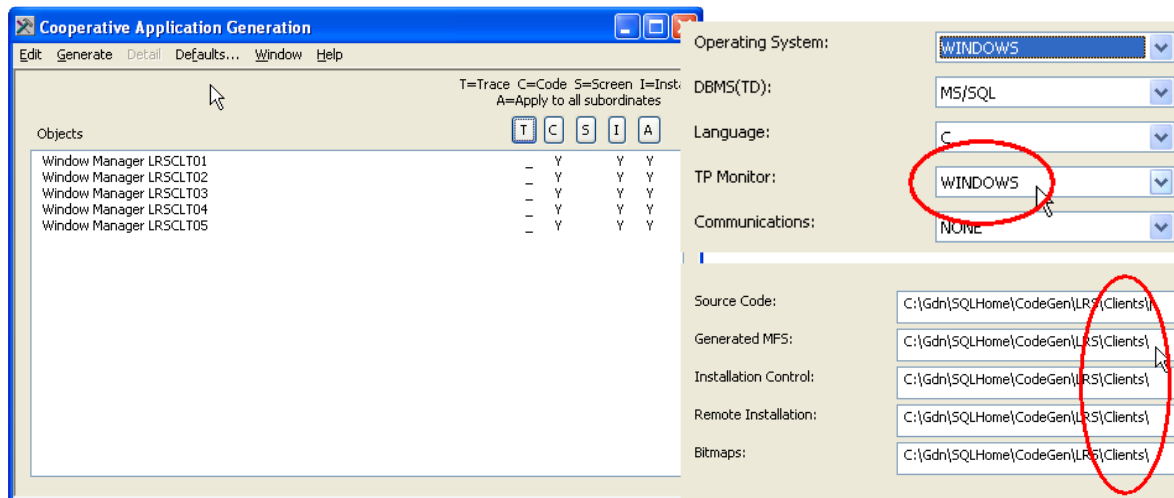
Generate RI Triggers and Servers

Use the Gen Construction Client to generate the 4 Servers and Server RI Triggers into `x:\LRS\Servers\` where `x:\LRS\` may be substituted for some other location (`/LRS/Servers/` for UNIX). This is a path relative to the CSE server.



Generate Clients

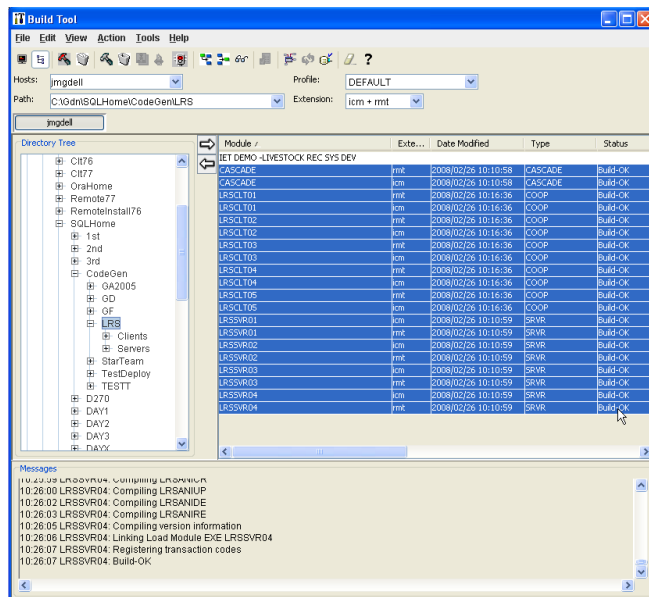
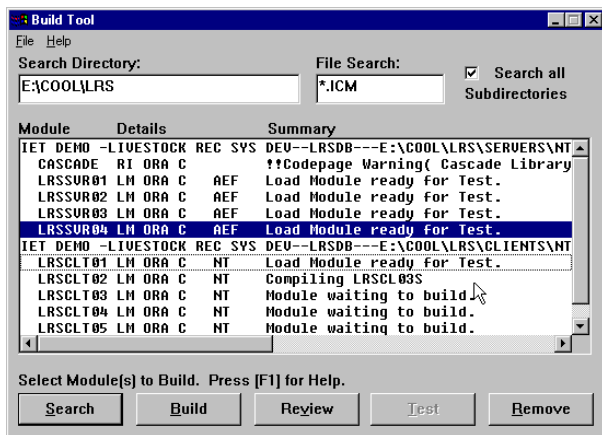
Use the Gen Construction Client to generate the 5 Clients into x:\LRS\Clients\ where x:\LRS\ may be substituted for some other location (/LRS/Clients/ for UNIX):



Install the Application

Use the Gen Build Tool / Installation Toolset to install the RMT modules produced in the section above.

For a Windows server you should install all of the modules (4 Servers, Cascade and 5 Clients). For a UNIX server just install the 4 Servers and Cascade modules. Again, this install will take place on the CSE Server itself, since that is where you generated the code onto.

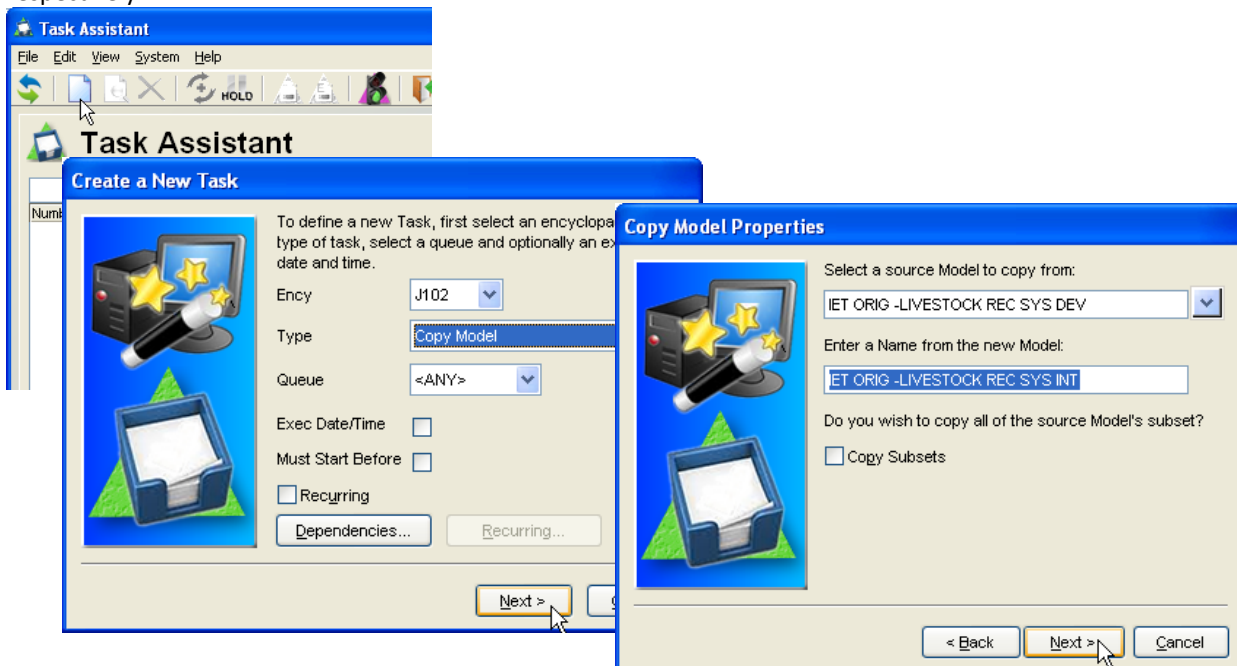


Copy Models

Now that we have a fully generated DEvelopment model (with generate timestamps in the encyclopaedia), we can copy this model to create an INTEgration Test model and a PRODUCTION model.

Use the *Task Assistant* to perform the two Model Copies.

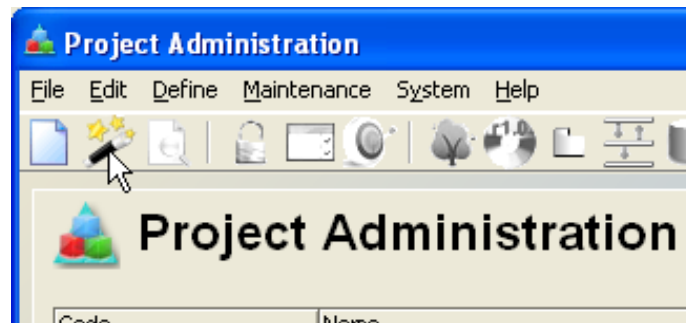
Start the Task Assistant and select **New** on the toolbar. Choose **Copy Model** as the Task Type and fill in any further details and confirmations asked for. Name the new models **IET DEMO -LIVESTOCK REC SYS INT** and **IET DEMO -LIVESTOCK REC SYS PROD** respectively.



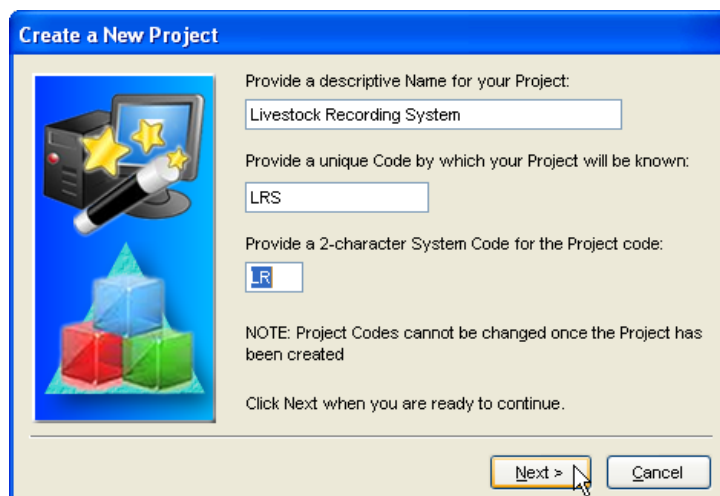
Project Creation

Use the Project Administration client's Set-Up Wizard to create a new Project...

Logon to the GuardIEn Windows client and choose the Function->Project Administration menu (you must use a userid which has access to create projects).

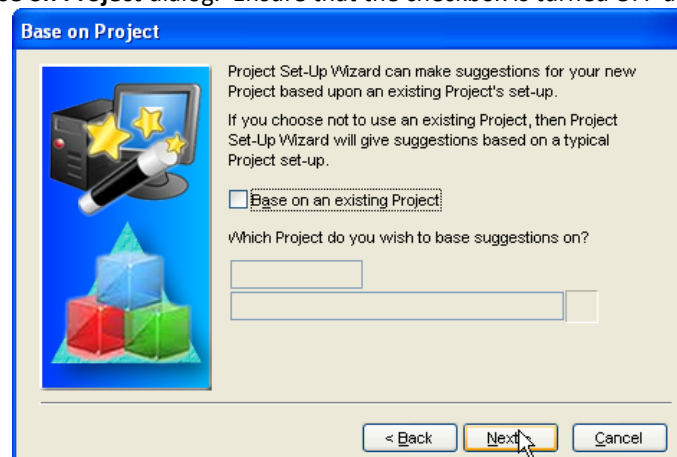


Press the **Wizard** toolbar button.

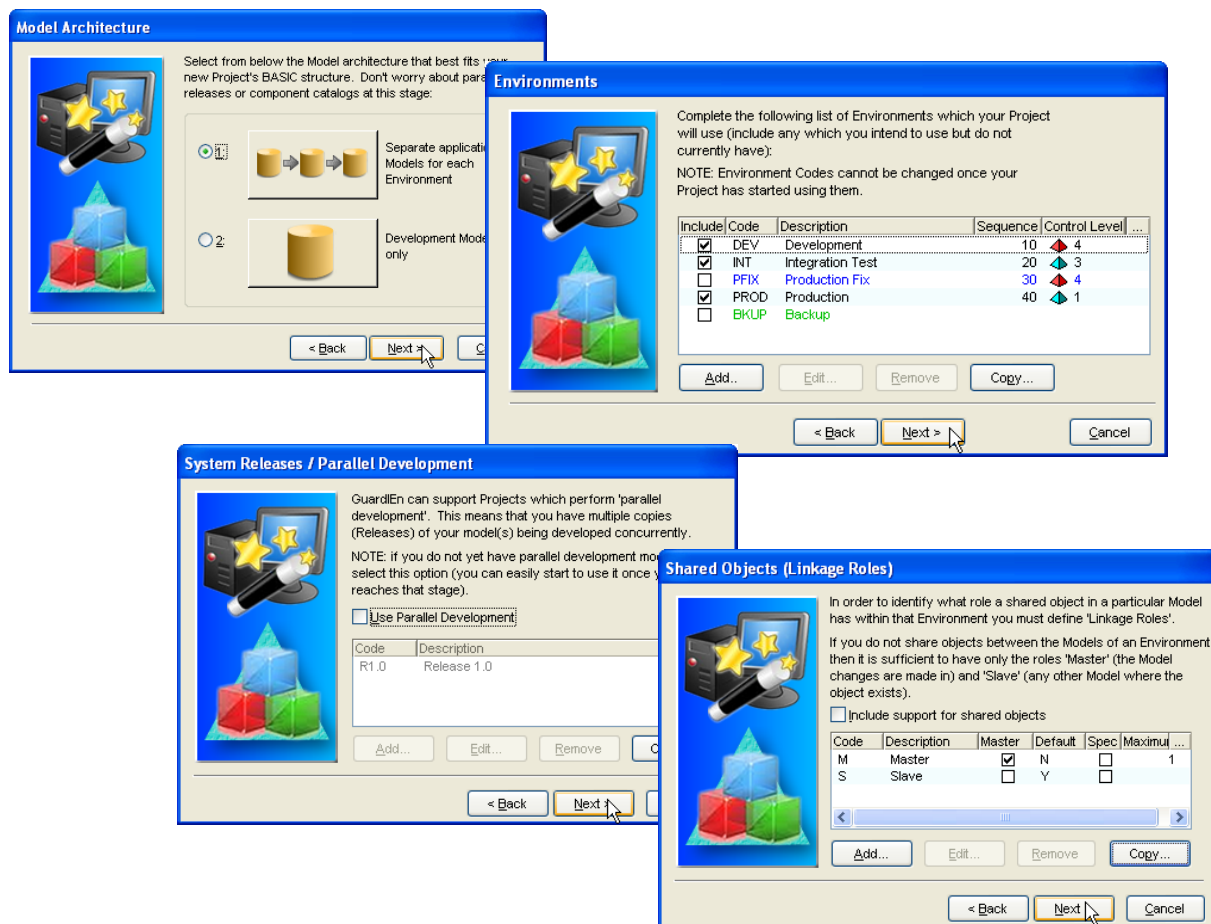


The **Create a New Project** dialog of the Wizard will appear first. Enter the values 'Livestock Recording System', 'LRS' and 'LR' into the 3 fields respectively:

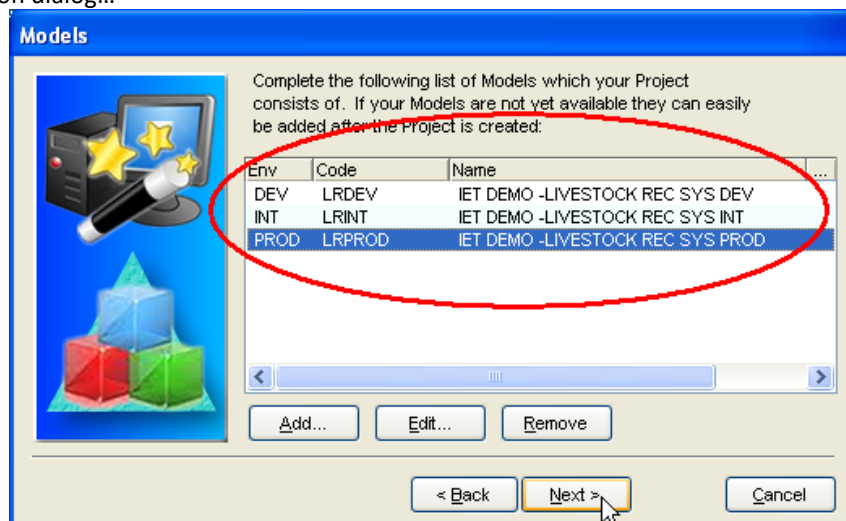
Press **Next** to proceed to the **Base on Project** dialog. Ensure that the checkbox is turned *OFF* and press the **Next** button:



You can simply accept the default suggestions for the next 4 dialogs...

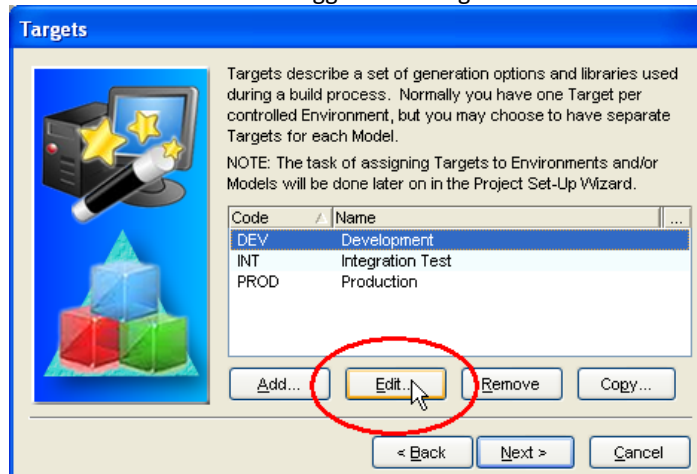


...until the Model selection dialog...

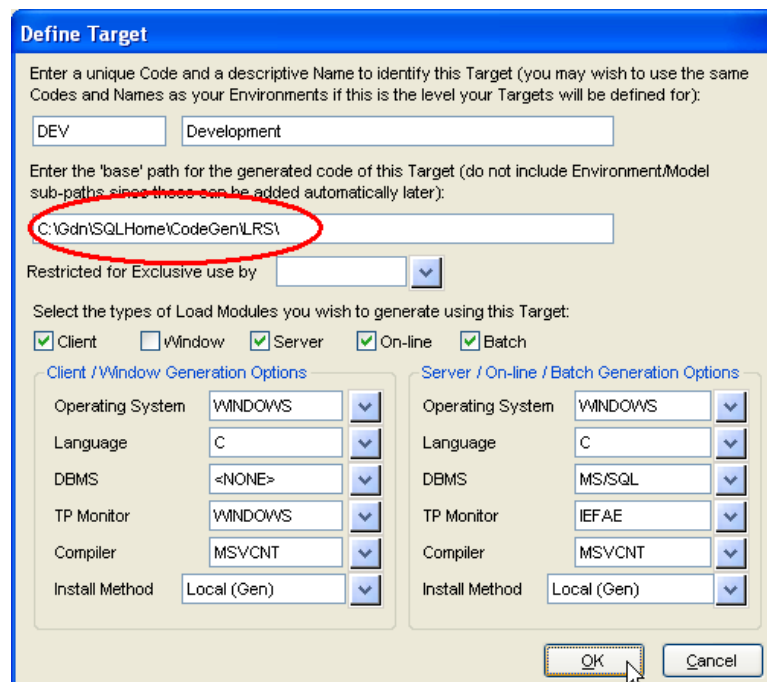


Double-click each of the 3 rows and choose the corresponding model. Click **Next** when this is complete.

The Targets dialog will appear next. The Wizard will have suggested 3 Targets.



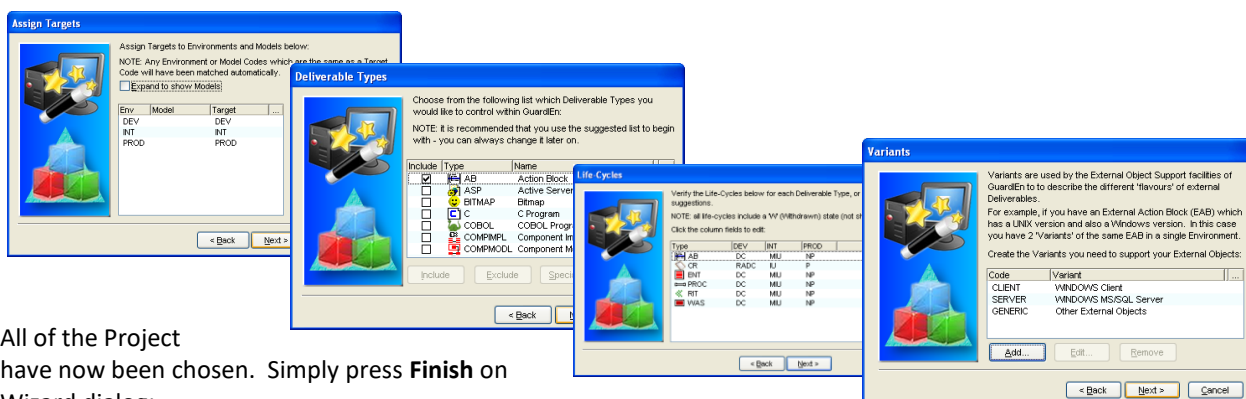
Double-click *each* one in turn and verify that 'base' path field has the same path as where generated the code from the Construction earlier (ignoring the *Servers* or *Clients* part). base path is relative to the CSE Server, not client workstation. Also verify that the generation options for Clients and Servers appropriate for your server (these will have been guessed correctly by the Wizard). are using Advantage Gen 6.5 or later, make the operating system and TP Monitor are (If you are using NT or Windows 2000, NT2000 or WINDOWS for the Operating and either IEFAE, NT2000 or WINDOWS for Monitor for servers and clients respectively).



the you Client This your are probably If you sure that correct choose System the TP

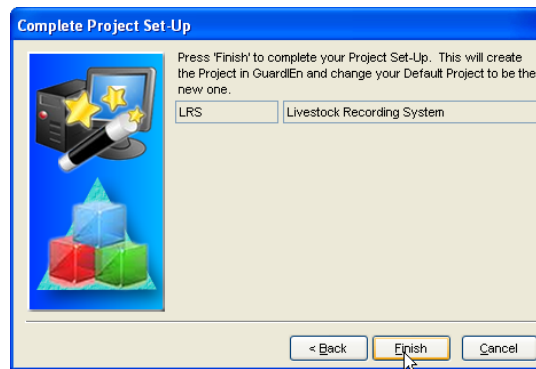
When you have completed the Target definitions press **Next**.

The suggested settings should be ok for all of the remaining dialogs so simply press **Next** on each one, until you reach the 'Complete' dialog:

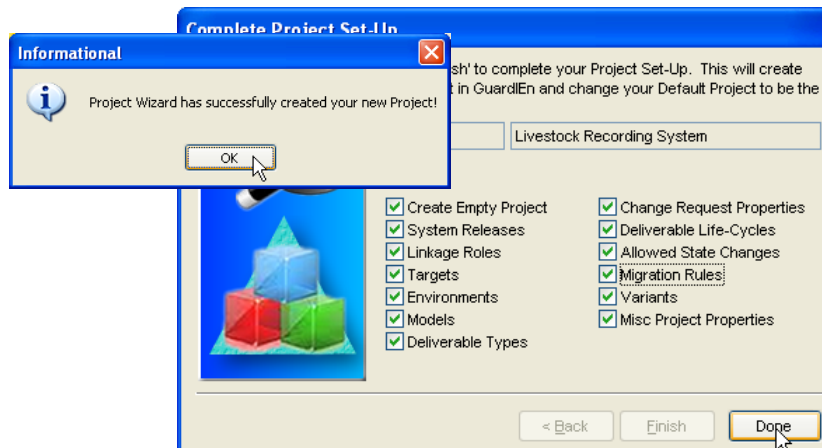


All of the Project have now been chosen. Simply press **Finish** on Wizard dialog:

options the final



The Wizard will now create the Project for you. When it is completed successfully all of the checkboxes will be checked and a message to tell you of the creation will be issue:

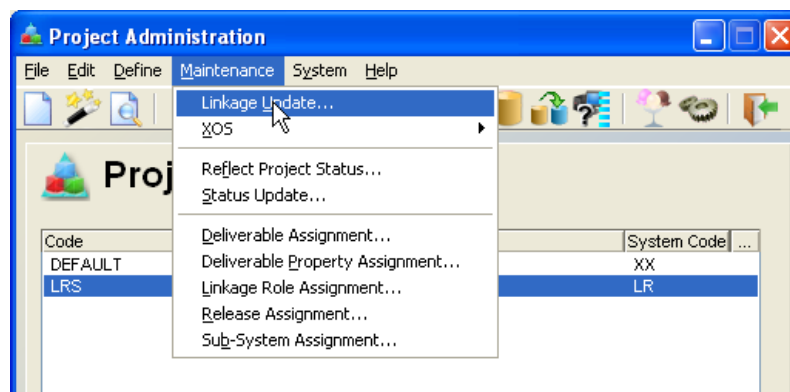


Press **Done** to return to the Project Administration client. The new Project will have been automatically made your default Project so there is no need to change to it.

Linkage Update

We must now perform a Linkage Update so that GuardlEn knows about all of the objects in the project.

While logged on to the main GuardlEn Project Administration client, choose **Maintenance->Linkage Update** from the drop-down menu.



Select all three models in the **LRS** project and press the **UPDATE** button.

Linkage Update

Environment: <ALL> Release: <ALL>

| Model | Ency | Id | Name | Add | Edit | Delete | Unmatched | Total | ... |
|--------|------|------------|----------------------------------|-----|------|--------|-----------|-------|-----|
| LRDEV | J102 | 1610612742 | IET DEMO -LIVESTOCK REC SYS DEV | 0 | 0 | 0 | 0 | 0 | |
| LRINT | J102 | 2705499 | IET DEMO -LIVESTOCK REC SYS INT | 0 | 0 | 0 | 0 | 0 | |
| LRPROD | J102 | 268435468 | IET DEMO -LIVESTOCK REC SYS PROD | 0 | 0 | 0 | 0 | 0 | |

Update Linkages... Report Output... Close

Update linkages for the selected model(s) LRS

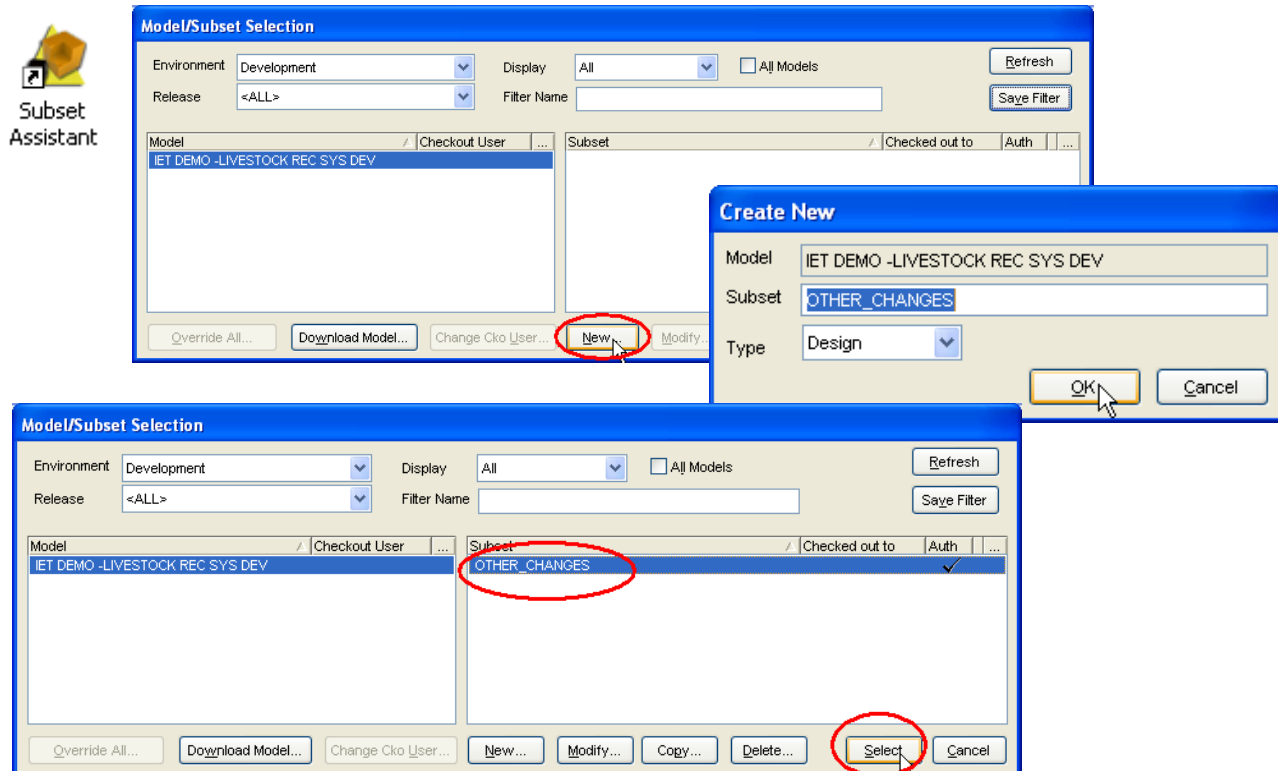
If all is ok you should get values in the **Add** column stating that 43 linkages have been added for each model. Make sure that the **Unmatched** count is zero for each model. If any of the **Unmatched** counts are not zero, select each model in turn and press **Linkages**. You will be presented with the Linkage Definition window where all of that model's linkages are listed. Verify that they are all present and matched to a deliverable by turning the **Unmatched** checkbox on. If any linkages are still displayed in the list you must determine why and correct it, probably creating deliverables by hand if necessary. **If the only Linkage which remains unmatched relates to the IEF_SUPPLIED WorkSet, don't worry too much about this one!**

| | Add | Edit | Delete | Unmatched | Total |
|---------|-----|------|--------|-----------|-------|
| YS DEV | 43 | 0 | 0 | 1 | 44 |
| YS INT | 43 | 0 | 0 | 1 | 44 |
| YS PROD | 43 | 0 | 0 | 1 | 44 |

Subsetting

Create a Subset

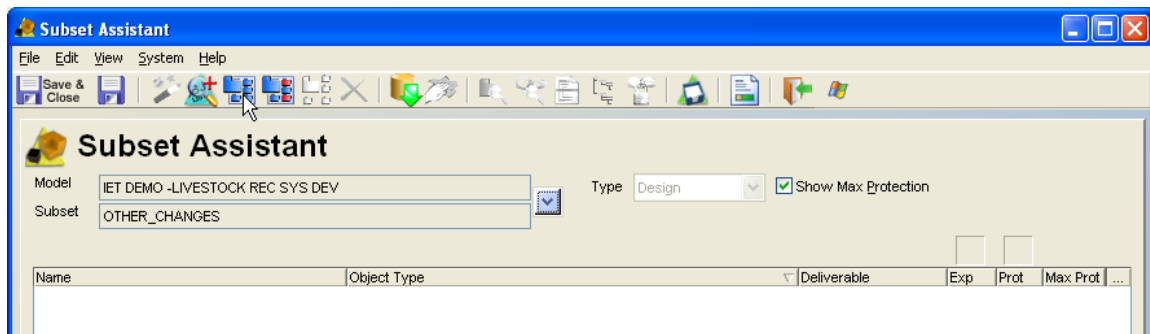
Start the **Subset Assistant** from the main GuardIn client Functions menu. You will be presented with a dialog containing the Models belonging to the First environment in your new Project, i.e. Development. A dialog box will inform you that you do not have any subsets defined for this model. Create a subset called **OTHER_CHANGES**.



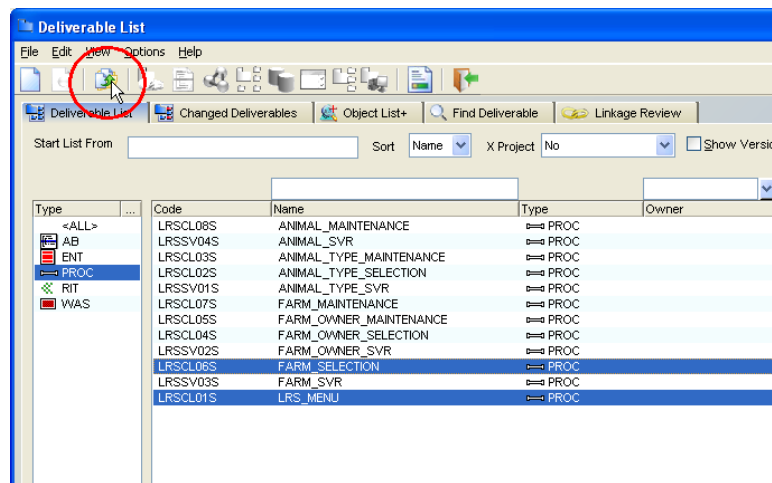
Modify Definition using Subset Assistant

Select the **OTHER_CHANGES** subset that have you just created.

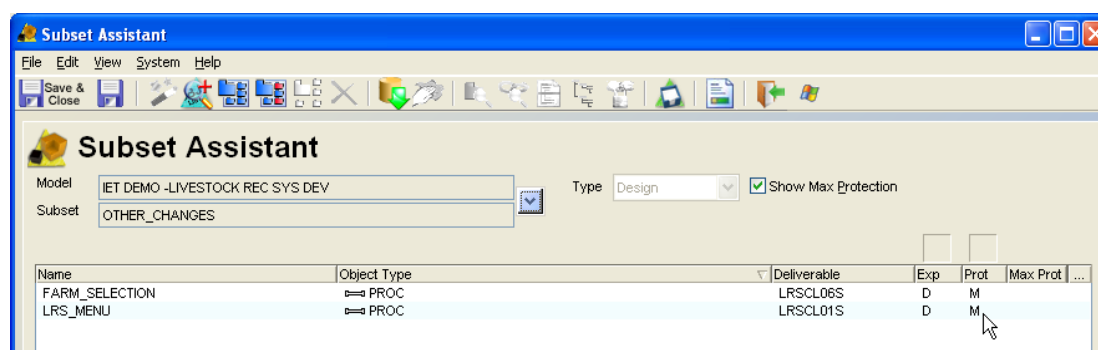
The main Subset Definition window will appear next. Initially it will be empty:



Use the **Select from Deliverable List** toolbar button to view a list of deliverables. With the 2 PROCs **FARM_SELECTION** and **LRS_MENU** selected, press the **Copy to Content** toolbar button to copying those 2 objects in the subset definition. Close the Deliverable List window to return to the subset definition.



The 2 objects should now be displayed in the list. Press **Save and Close** to store that subset definition in the CSE and exit Subset Assistant.

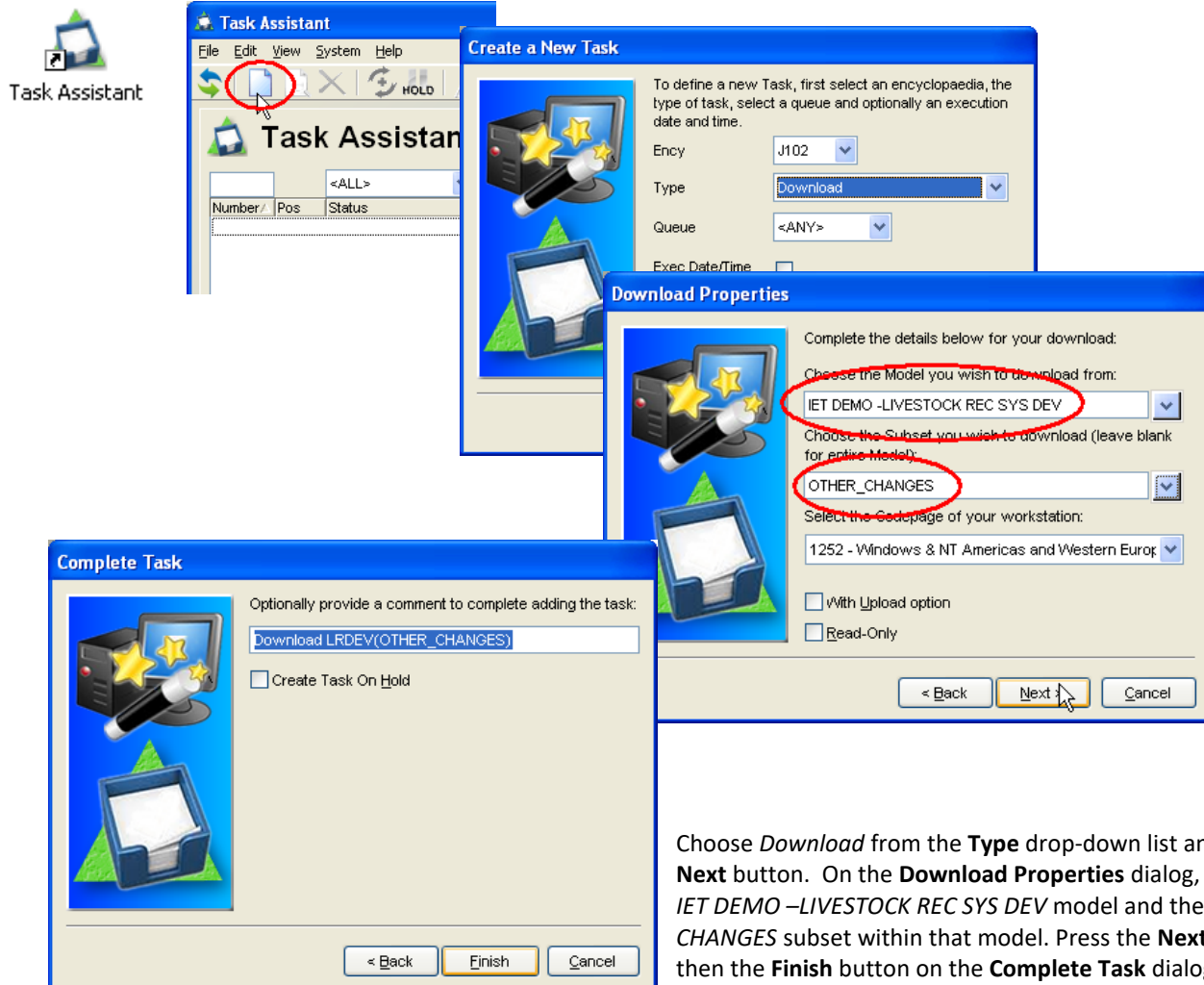


It is common for this Save operation on a subset to fail (with the message “Subset/Model in Use”) after initial installation – this is most likely due to incorrect values being specified for the encyclopaedia’s definition. Use *System Administration* client and find your *Encyclopaedia Definition* to check the API connect string, the FTP hostname as well as the Message Dispatcher details (MDName, EncyGroup and DirGroup).

Tasks and File Transfer

Submit a Download Task

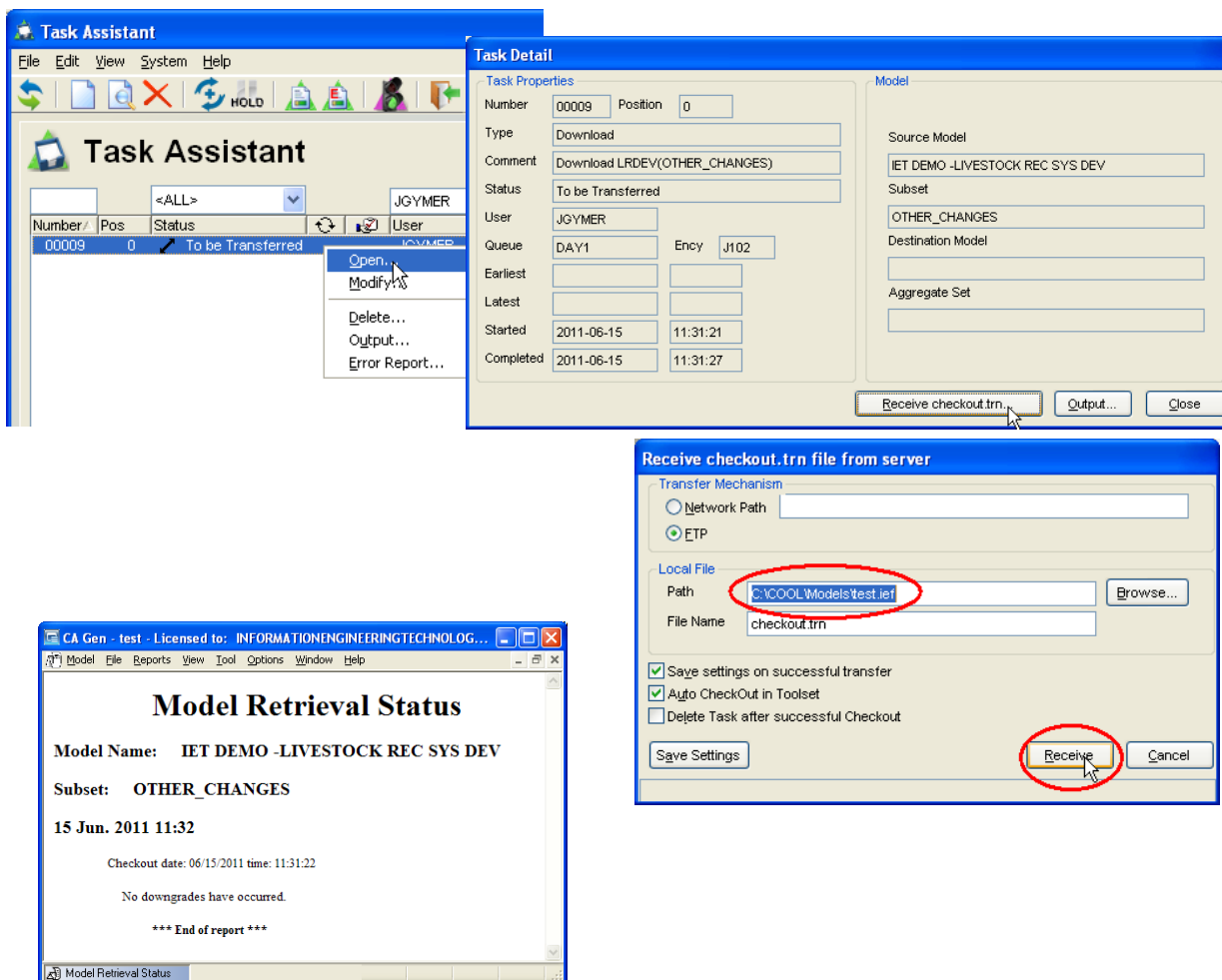
Start **Task Assistant** from the main GuardlEn Functions menu. Press the **New** toolbar icon. This will display the Task Creation 'Wizard'.



Choose *Download* from the **Type** drop-down list and press the **Next** button. On the **Download Properties** dialog, select the *IET DEMO -LIVESTOCK REC SYS DEV* model and the *OTHER CHANGES* subset within that model. Press the **Next** button, then the **Finish** button on the **Complete Task** dialog.

File Transfer

Wait for the task to complete (it will have a status of *T – To Be Transferred* in the list), then **Open/Detail** it in Task Assistant and choose **Receive checkout.trn...**



If your CSE is running on Windows, you may need to create a shared network resource if you wish to use the **Network Drive** option as shown in the example above. In the example, we have created a share on the server's c:\ directory called and mapped it locally on the workstation as the R: drive. If your CSE is running on Unix, use the FTP transfer mechanism. Enter a suitable path on your workstation where you wish to transfer the checkout.trn file to be saved. Note that these settings are saved automatically by default so that they are displayed when you go back into this dialog the next time. Press **Receive** to perform the transfer to your workstation. You will get a message giving stating the success or failure of the transfer.

Toolset Checkout

By default the *Auto CheckOut in Toolset* checkbox will have been switched on in the *File Transfer* dialog above. This means that the Gen Toolset will be automatically started for you, the checkout.trn file transferred, and all necessary checkout functions invoked automatically for you so that the subset is available and ready for use. After the checkout, you should have a Toolset active with the checkout report something similar to below:

Upload

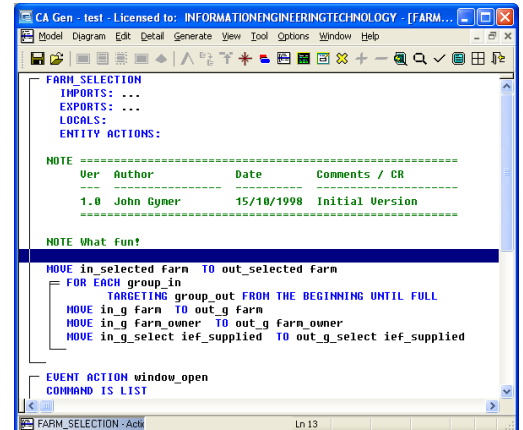
Makes Changes, Upload and Capture

In this chapter, you will test that the Upload process works correctly, which includes Toolset interaction and Upload Assistant functions.

Make a Change

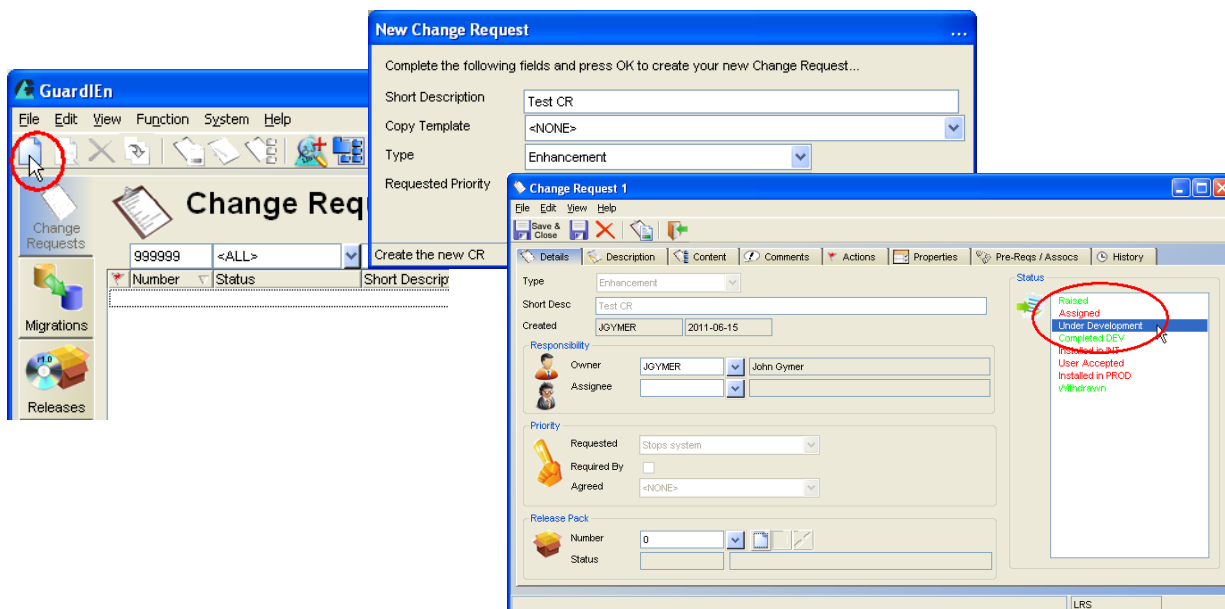
Using the Toolset that you just checked out the *OTHER CHANGES* subset into, open one of the ABs or PStepABs and make a small change, such as adding a blank line, or add some NOTE statements.

Save the subset and start the main GuardIEn client.



Create a Change Request

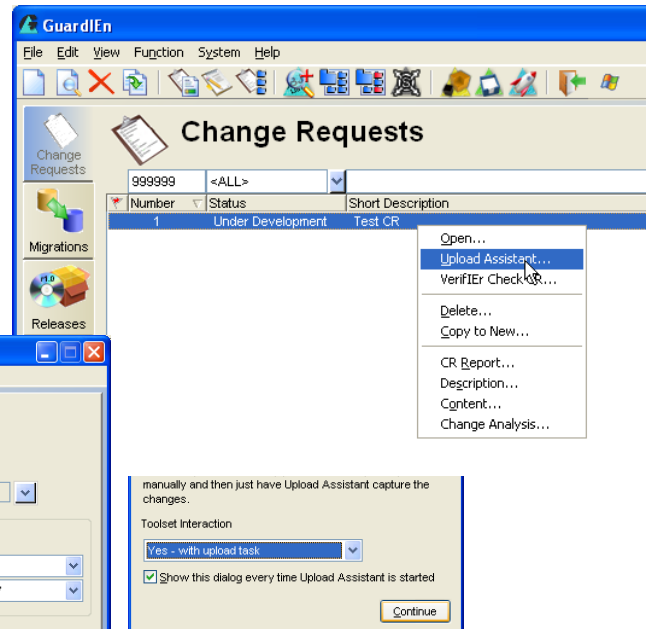
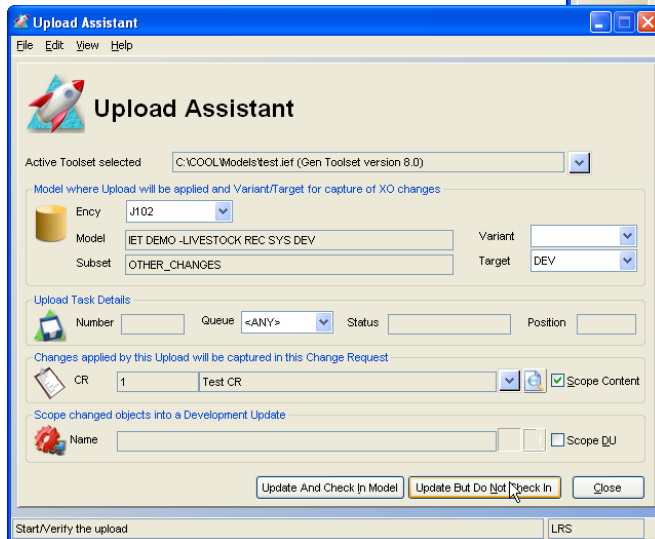
Use the New toolbar icon to create a new Change Request that we will use to test the change capture features of Upload Assistant. Type in a Short Description, and select Type and Requested Priority. When the CR appears, use the right-click on the green/red life-cycle to move the CR forward to the *Under Development* status (right click *Assigned* and press *Save*, then right click *Under Development* and press *Save*). Press *Exit* to return to the main CR List window.



Perform the Upload

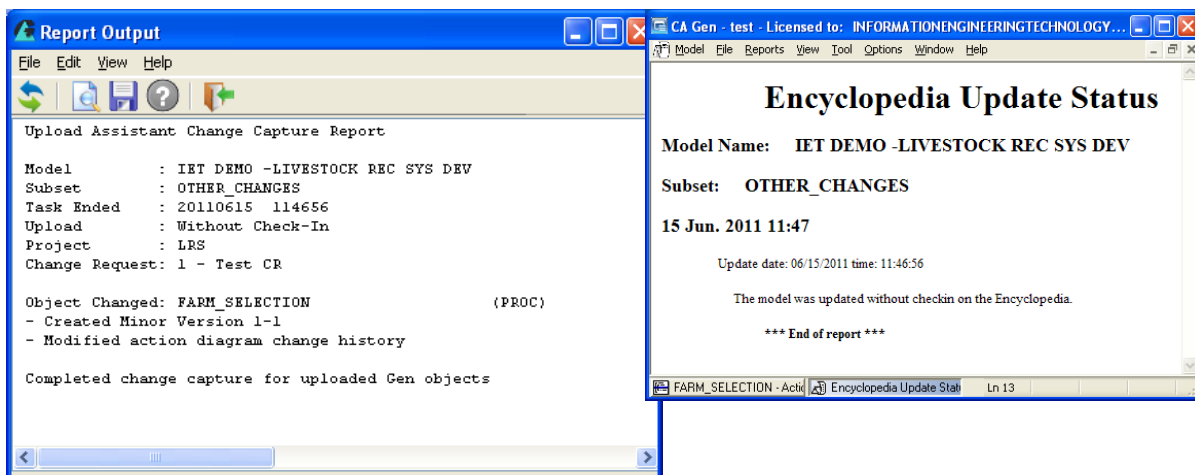
In the main GuardlEn CR List window, select your newly created CR in the list, and press the Upload Assistant toolbar button, or right-click the CR in the list.

Upload Assistant will start, and probably give you the *Toolset Interaction* information dialog. You should switch the *Toolset Interaction* drop-down to *Yes – with upload task*. Press Continue. Upload Assistant will start.



In the main Upload Assistant window, check that the *Active Toolset Selected* is what you expect, then press the *Update But Do Not Check In* button. This should start a dialog with your Toolset requesting the upload, and will then proceed to transfer the *update.trn* file to the CSE server, create a Task for the upload, monitor the task, and when the task is complete should bring the *verify.trn* back to your workstation and instruct the Toolset to re-synch (verify last update).

The upload should complete. A *Report Output* window will appear giving details of the changes captured, and your Toolset should have the standard verify window displayed.



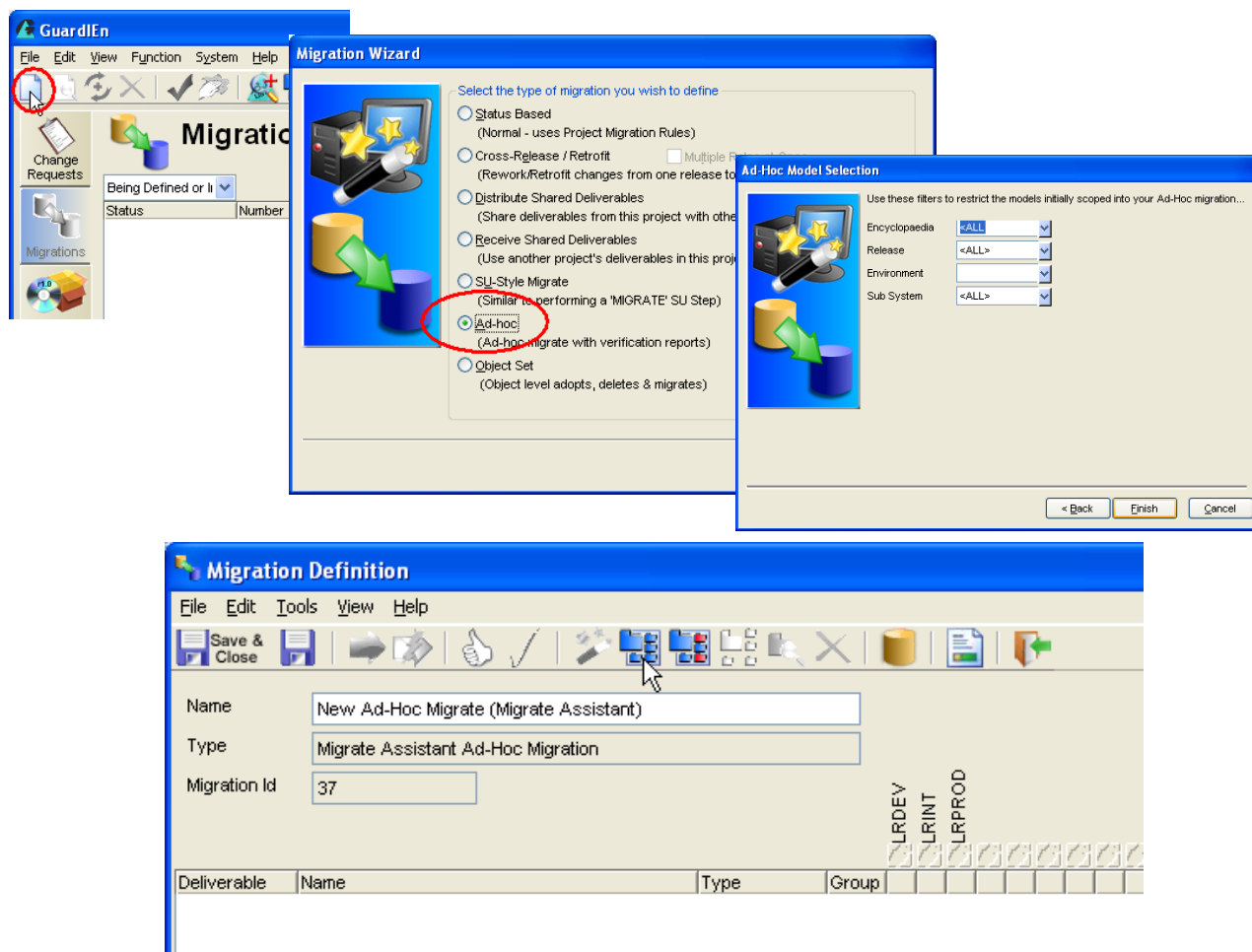
Migration

Define an Ad-hoc Migration

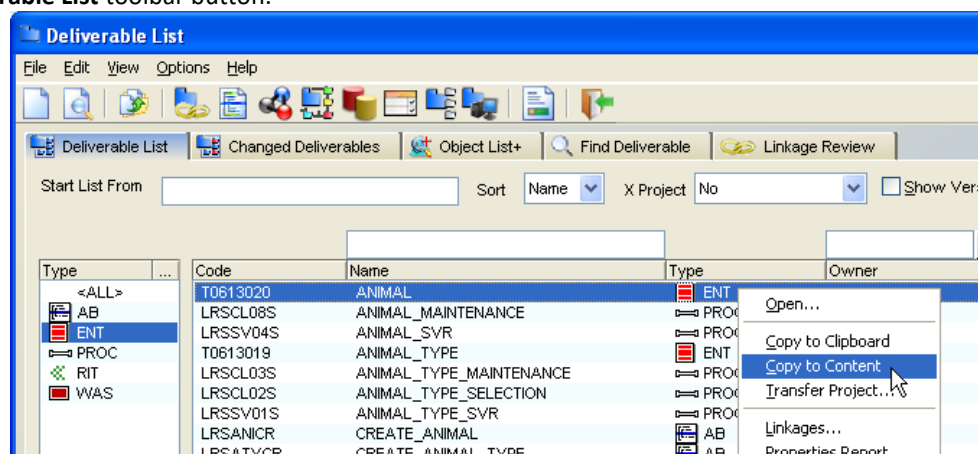
To check that the migration facilities work correctly we shall attempt a test migration using the GuardlEn Ad-hoc Migrate option. For this test we will attempt to migrate the Entity *ANIMAL* from the DEV model to INT and PROD. Open the main GuardlEn client (an empty Change Request List will be displayed) and click on the large **Migrations** icon on the left side of the window.



There are no migration definitions created yet for this Project, so press the **New** toolbar button to add one. Select the **Migrate Assistant (Ad-Hoc)** radio button and press **Finish**.



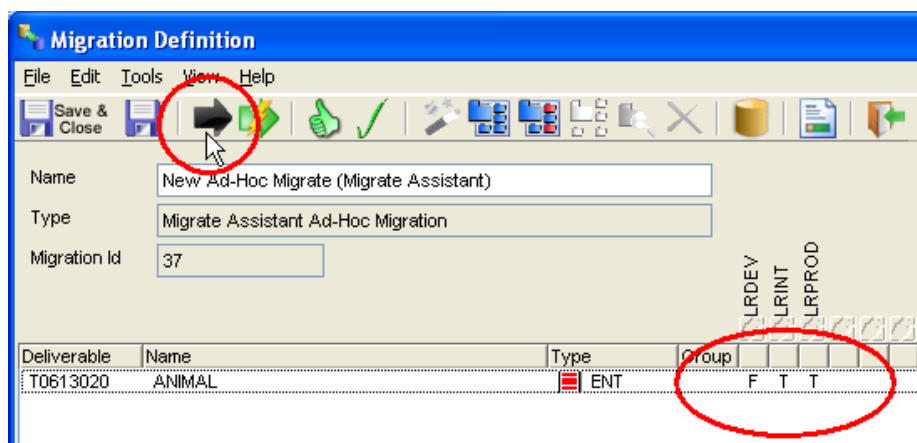
The migration definition window will appear. Change the value in the Name field to *Test Migrate* and press **Save**. Press the **Select from Deliverable List** toolbar button.



Locate the Entity called *ANIMAL* on the subsequent list (this should be the top row). Select it and press the **Copy to Content** toolbar button (or right-click option).

Close the deliverable list window.

The Entity should be displayed in the migration definition list now. Click the models column entries for that row setting the DEV model entry to 'F' (from) and the INT and PROD model entries to 'T' (to) as in the example following:



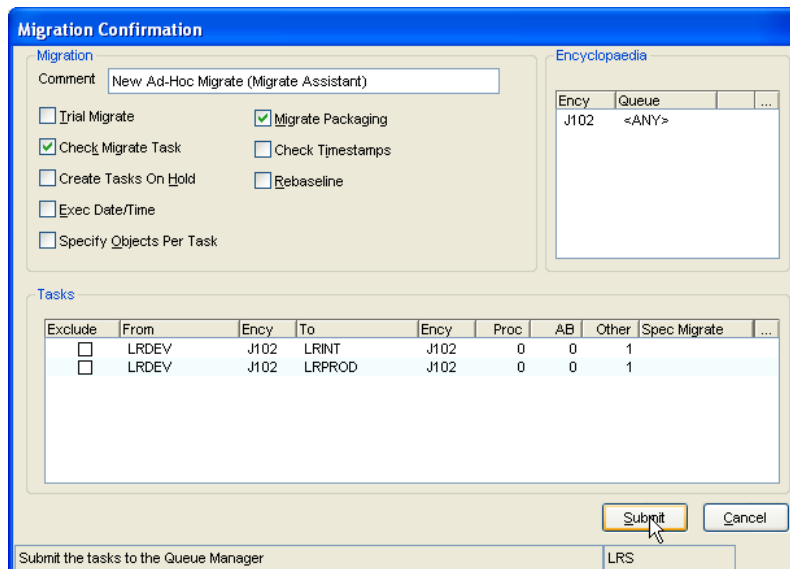
Press the **Save** toolbar button when you have finished.

Submit a Migration

To submit the Migrate task, press the **Proceed** toolbar button.

Ensure that a Queue is selected in the **Encyclopaedia** group box for your Encyclopaedia (or <ANY> is displayed). If the Queue column is blank for your CSE you must double-click that row and choose a Queue explicitly. If there are no Queues listed when you do this then you must define one or more Queues using the **Queue Manager**.

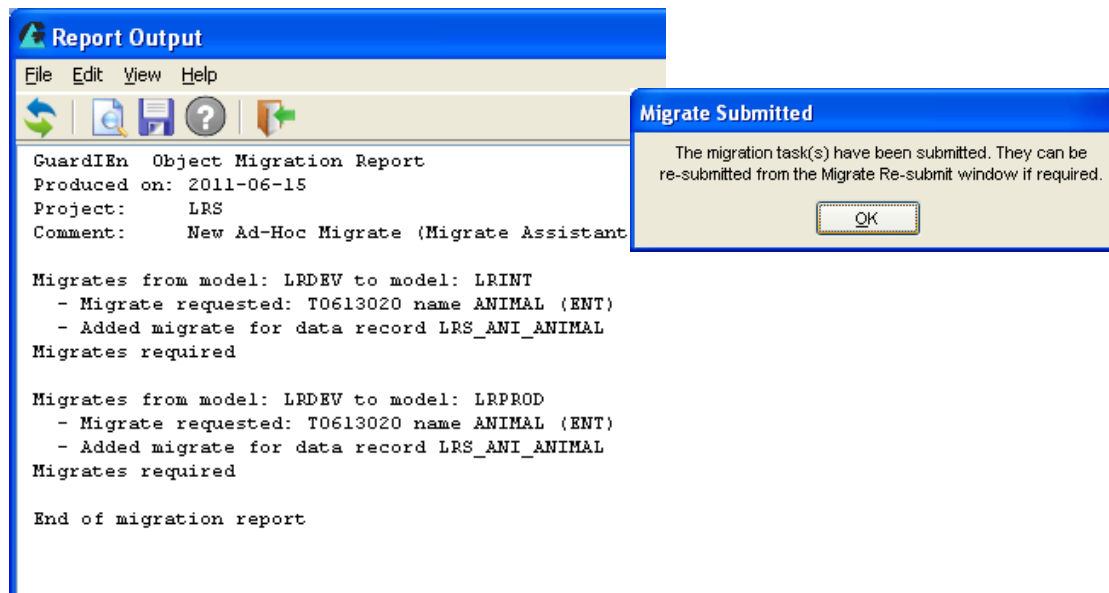
Verify that 2 rows are displayed in the main list. One should detail the migration from DEV to INT, and the other from DEV to PROD. Remember that GuardIEn uses Aggregate Sets in the background to perform migrations, so you must have some *registered* within the **System Administration client** (you probably did this as part of the Server Install).



The Migration Confirmation dialog box is shown. It has a blue title bar and a light beige background. The 'Migration' section on the left contains a 'Comment' field with the text 'New Ad-Hoc Migrate (Migrate Assistant)'. Below it are several checkboxes: 'Trial Migrate' (unchecked), 'Check Migrate Task' (checked), 'Create Tasks On Hold' (unchecked), 'Exec Date/Time' (unchecked), 'Specify Objects Per Task' (unchecked), 'Migrate Packaging' (checked), 'Check Timestamps' (unchecked), and 'Rebaseline' (unchecked). The 'Encyclopaedia' section on the right shows a table with two columns: 'Ency' and 'Queue'. The first row has 'J102' in the 'Ency' column and '<ANY>' in the 'Queue' column. The 'Tasks' section at the bottom contains a table with columns: 'Exclude', 'From', 'Ency', 'To', 'Ency', 'Proc', 'AB', 'Other', 'Spec Migrate', and '...'. There are two rows of tasks, both with 'Exclude' checked. The first row shows a migration from 'LRDEV' to 'LRINT' with 'Ency' 'J102' and 'Spec Migrate' value '1'. The second row shows a migration from 'LRDEV' to 'LRPROD' with 'Ency' 'J102' and 'Spec Migrate' value '1'. At the bottom right are 'Submit' and 'Cancel' buttons. A status bar at the very bottom says 'Submit the tasks to the Queue Manager' and 'LRS'.

| Exclude | From | Ency | To | Ency | Proc | AB | Other | Spec Migrate | ... |
|-------------------------------------|-------|------|--------|------|------|----|-------|--------------|-----|
| <input checked="" type="checkbox"/> | LRDEV | J102 | LRINT | J102 | 0 | 0 | 1 | | |
| <input checked="" type="checkbox"/> | LRDEV | J102 | LRPROD | J102 | 0 | 0 | 1 | | |

If all of the data is as expected, press the **Submit** toolbar button to execute the migration task.



The Report Output window is shown on the left, displaying a migration report. It has a blue title bar and a menu bar with 'File', 'Edit', 'View', and 'Help'. Below the menu bar are icons for back, forward, search, and other functions. The report text is as follows:

```
GuardIEn Object Migration Report
Produced on: 2011-06-15
Project: LRS
Comment: New Ad-Hoc Migrate (Migrate Assistant)

Migrates from model: LRDEV to model: LRINT
- Migrate requested: T0613020 name ANIMAL (ENT)
- Added migrate for data record LRS_ANI_ANIMAL
Migrates required

Migrates from model: LRDEV to model: LRPROD
- Migrate requested: T0613020 name ANIMAL (ENT)
- Added migrate for data record LRS_ANI_ANIMAL
Migrates required

End of migration report
```

On the right, a 'Migrate Submitted' dialog box is shown. It has a blue title bar and a light beige background. The text inside says: 'The migration task(s) have been submitted. They can be re-submitted from the Migrate Re-submit window if required.' There is an 'OK' button at the bottom.

A report will be produced detailing exactly what migrations have been submitted.

Exit from the Migrate Assistant.

Verify Migration

Migrations are executed as Tasks under the control of a Queue. These Tasks can be viewed using the **Task Assistant**, which can be accessed from the main GuardIEn Function menu.

The final 3 Tasks in the list should correspond to your 2 migrations (DEV to INT and also DEV to PROD) plus a *Check* Task. The *Check* Task verifies that the previous migration Tasks completed successfully by looking at the timestamps of the objects in the CSE.

Wait for all 3 Tasks to finish (status Completed or Failed).

The 2 migration Tasks should contain messages stating that objects have been *REPLACED*. Ensure that this is the case in both reports and also check that the *Check* Task completes successfully.

Task Assistant

File Edit View System Help

Task Assistant

<ALL>

JGYMER

<A

| Number | Pos | Status | User | Que |
|--------|-----|-------------|----------|-----|
| 00009 | 0 | ✓ Completed | JGYMER | DA |
| 00010 | 0 | ✓ Completed | JGYMER | DA |
| 00011 | 0 | ✓ Completed | JGYMER | DA |
| 00012 | 0 | ✓ Completed | JGYMER | DA |
| 00013 | 0 | ✓ Completed | 2 JGYMER | DA |

Report Output

File Edit View Help

GuardIEn

Migrate, Task T00011

Start Time: 2011-06-15 11:53:40

Source Model: IET DEMO -LIVESTOCK REC SYS DEV

Destination Model: IET DEMO -LIVESTOCK REC SYS INT

End Time: 2011-06-15 11:53:43

Migrate Aggregate Object Report

Source Model Name: IET DEMO -LIVESTOCK REC SYS DEV

Destination Model Name: IET DEMO -LIVESTOCK REC SYS INT

Date: 2011-06-15 Time: 11:53:41

User: JGYMER

The following objects were selected for migration:

Data Table LRS_ANI_ANIMAL

Entity Type ANIMAL

Total number of migrations requested: 2

*** MIGRATION COMPLETED SUCCESSFULLY ***

| OBJECT LABEL | ACTION |
|--|----------|
| Data Table LRS_ANI_ANIMAL | REPLACED |
| Constraint that implements Rel ANIMAL IS_CLASSIFIED_BY ANIMAL_TYPE | REPLACED |
| Constraint that implements Rel ANIMAL IS_KEPT_ON FARM | REPLACED |
| Data Column LRS_ANI_ANIMAL LRS_ANI_TAG_NUMBER | REPLACED |
| Data Column LRS_ANI_ANIMAL LRS_ANI_DOB | REPLACED |
| Data Column LRS_ANI_ANIMAL LRS_ANI_NAME | REPLACED |

Report Output

File Edit View Help

Report has Warnings

Started migration check

Updating deliverable linkages for destination models

Started deliverable linkage update for model LRINT

GDCWS161: deliverable not auto-created - duplicate code (Project GDNTRAINA, Type WAS)

Completed deliverable linkage update for model LRINT

Started deliverable linkage update for model LRPROD

GDCWS161: deliverable not auto-created - duplicate code (Project GDNTRAINA, Type WAS)

Completed deliverable linkage update for model LRPROD

Completed deliverable linkage update for all target models

Previous migration tasks completed, checking timestamps for migrates in current encyclopaedia

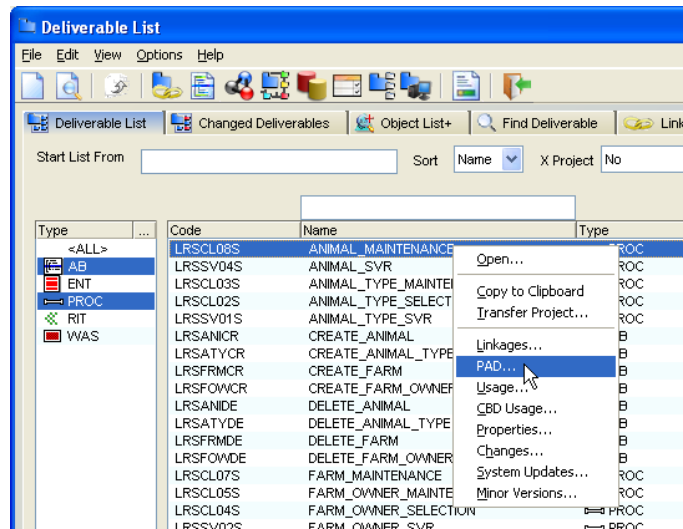
All migrations completed OK

Completed check for migration, Task T00013

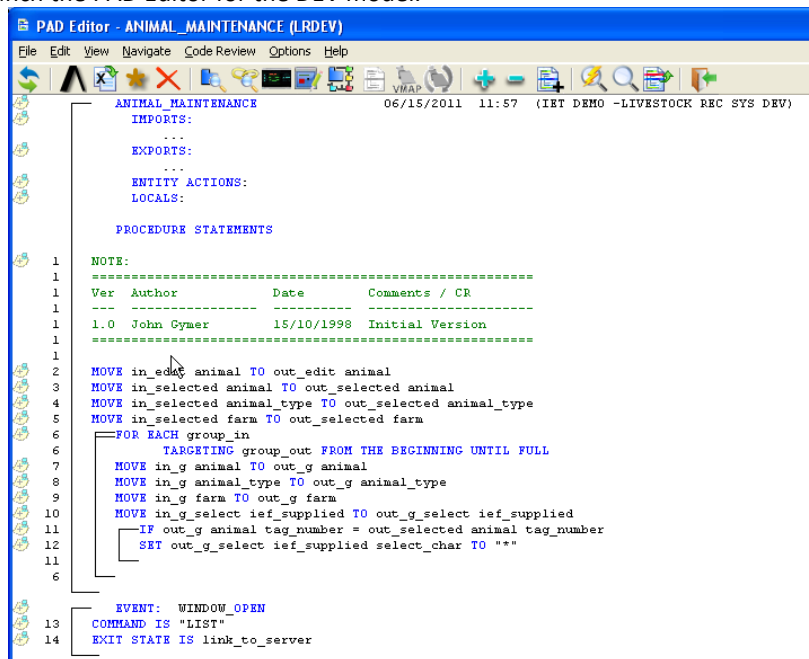
PAD Listing

To ensure that the PAD Listing facility is available we must make sure that an extract works.

Logon to the main GuardIEn client and press the **Deliverable List** toolbar button. Select the PROC called **ANIMAL_MAINTENANCE** and press the **PAD** toolbar button.



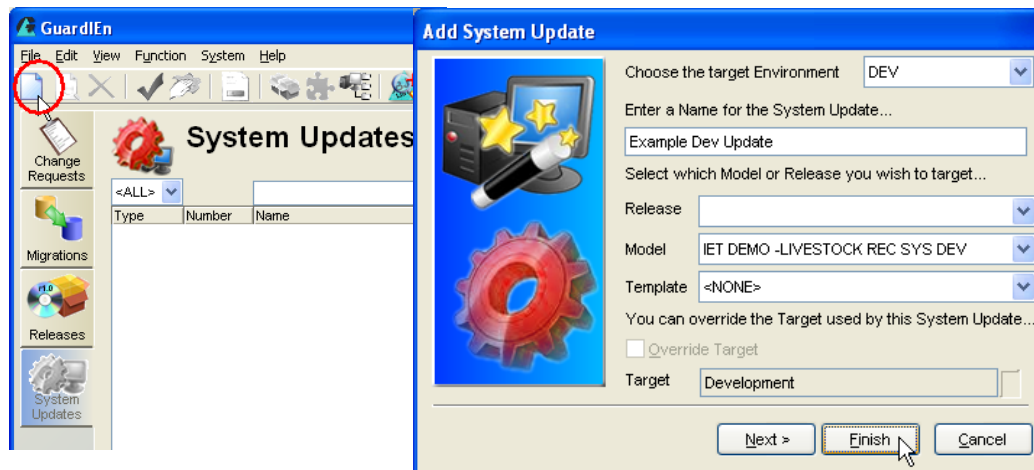
This should extract and launch the PAD Editor for the DEV model.



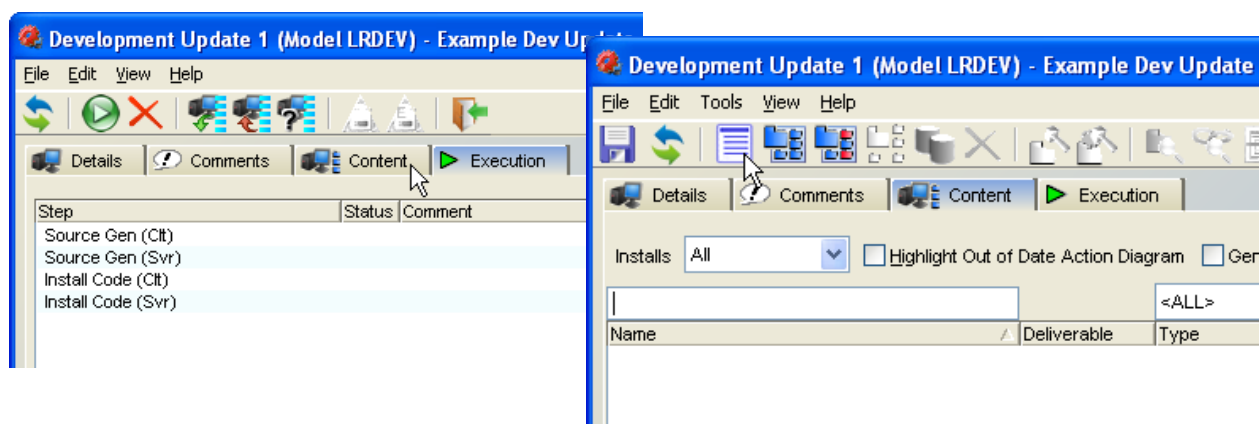
System Updating

We need to ensure that you can run through a development update smoothly. This includes code generation and installation into the libraries we specified earlier. Remember that we already generated and installed the whole application using the standard Construction Client and Build Tool. This test will verify that GuardIEn can *update* that application.

Logon to the main GuardIEn client and click on the *System Updates* icon on the left side of the window. Then press the **New** button and Choose the **DEV** environment, enter a name of "**Example DEV Update**" and select the DEV Model. Press **Finish** which will automatically select everything required and create the Dev Update itself.



The Detail Development Update window appears next. Select the **Content** tab, then the **Select From Object List** toolbar button.



For this test we will generate and install a Server Pstep, a Client Pstep and a Server Action Block...

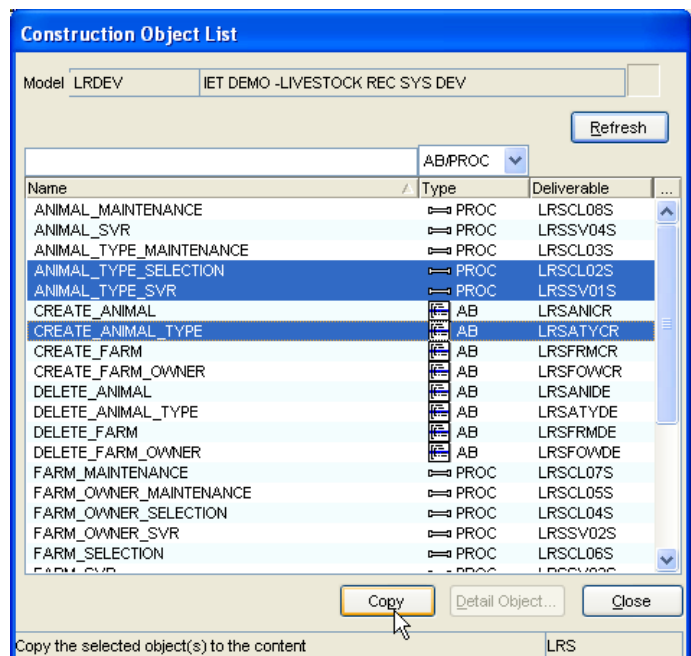
Press the **Refresh** button to list all Action Blocks and Procedure Steps. Select and **Copy** each of the following items:

ANIMAL_TYPE_SELECTION – client Pstep

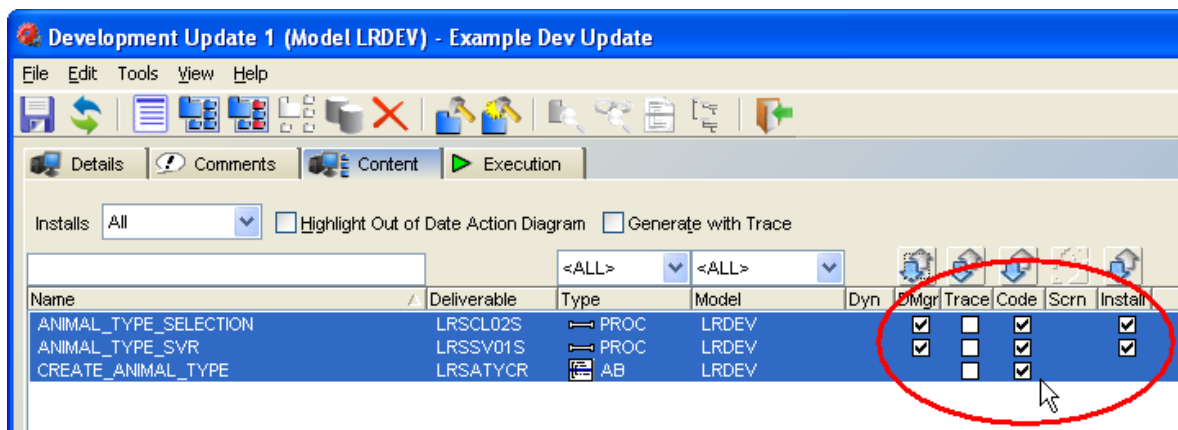
ANIMAL_TYPE_SVR – server Pstep

CREATE_ANIMAL_TYPE – server Action Block

Close the Construction Object List dialog when you are done.

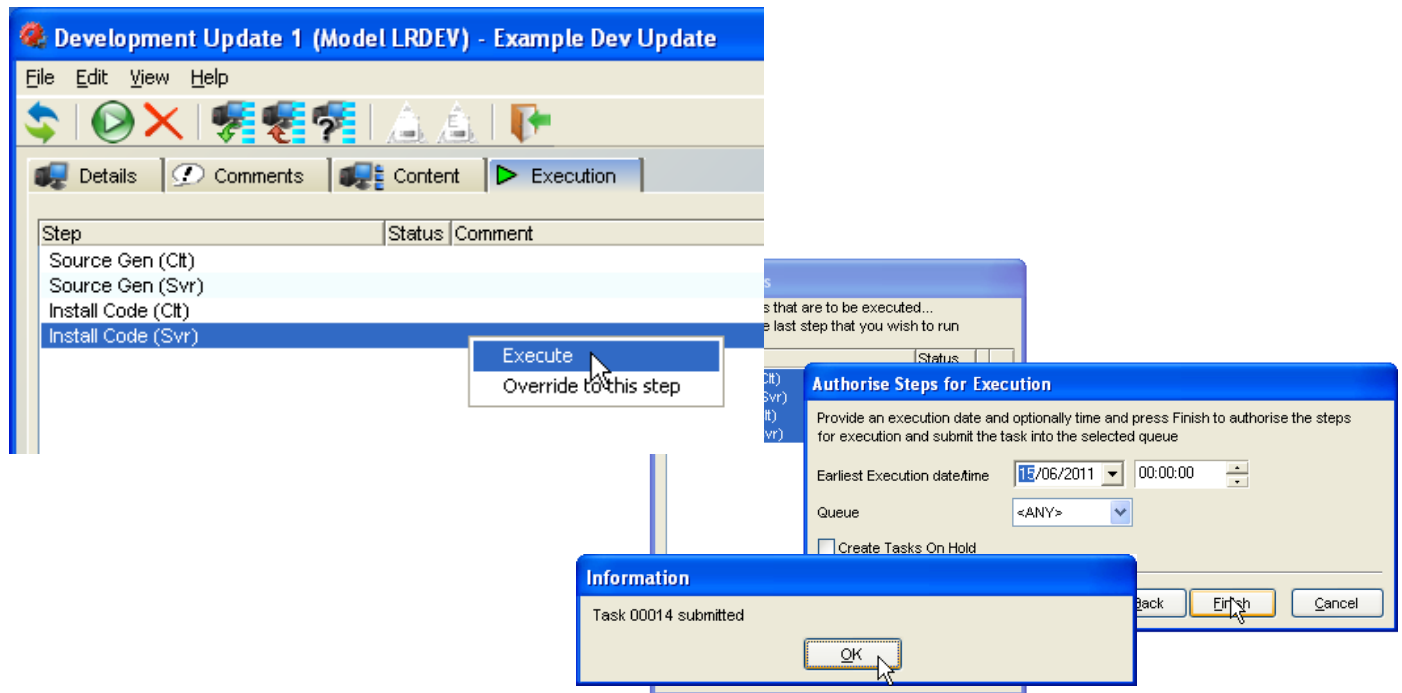


Check that your development update contents contains those objects detailed above. You should also switch on all of the **DlgMgr**, **Code**, and **Install** flags as shown here:

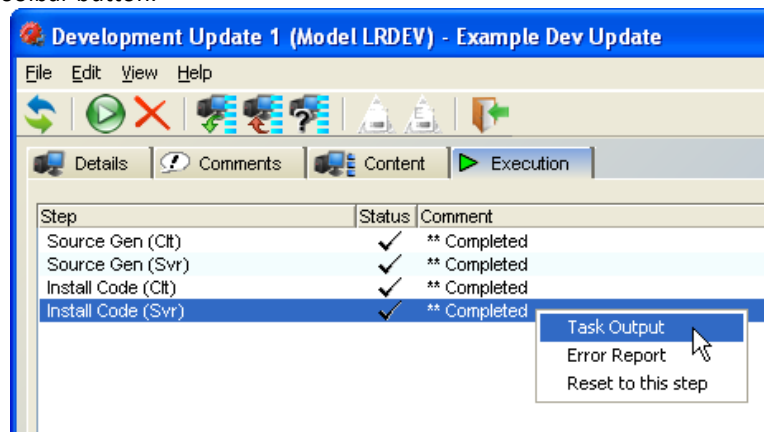


. Press the **Execution** tab when you are finished (the content is saved automatically).

To execute the steps right-click the last visible step in the main list and choose **Execute** from the pop-up menu. Everything should be pre-selected correctly for you, but check that a Queue has been selected (it should choose one by default) and press the **Finish** button. Finally, a confirmation dialog will appear to tell you that a Task has been submitted to process those steps.



Pressing the **Refresh** button will re-read the current status of each step. To view the output from the Task simply select a step and press the **Task Output** toolbar button.



When the steps have all completed you should be able to view the output that will look something like the following:

Started Development Update

Started step: Source Gen (Clt)

Started Source Gen (Clt) for model: LRDEV
(WINDOWS, <NONE>, C, WINDOWS)

Client Managers:

- LRSLT02 (CLIENT)

Procedure Step Action Blocks:

- LRSL02S ANIMAL_TYPE_SELECTION

Completed generation of source code

Started step: Source Gen (Svr)

Started Source Gen (Svr) for model: LRDEV
(WINDOWS, MS/SQL, C, IEFAE)

Server/Dialog/Batch Managers:

- LRSSVR01 (SERVER)

Procedure Step Action Blocks:

- LRSSV01S ANIMAL_TYPE_SVR

Action Blocks:

- LRSATYCR CREATE_ANIMAL_TYPE

Completed generation of source code

Started step: Install Code (Clt)

Starting Install

Installation Control (icm) files:

Model: LRDEV

- LRSLT02 (CLIENT)

Building load modules:

Model: LRDEV

- LRSLT02 : OK

All installs completed successfully

Started step: Install Code (Svr)

Starting Install

Installation Control (icm) files:

Model: LRDEV

- LRSSVR01 (SERVER)

Building load modules:

Model: LRDEV

- LRSSVR01 : OK

All installs completed successfully

No further steps selected for execution

This test verifies that Client and Server generation and installation work correctly.