TURNOVER® FOR iSERIES V100

Tutorial
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INTRODUCTION

This tutorial contains an example of a TURNOVER® for iSeries v100 application, complete with development, test and production libraries and the necessary source and objects to demonstrate a complete change cycle. The example application corresponds to the sample application definition shipped with the system. These applications can be used as models for setting up TURNOVER® for iSeries v100 on your system. (See Chapter 2: Planning Your Application Definitions in the TURNOVER® for iSeries v100 Application Planning Guide.)

This tutorial also contains information about activities a TURNOVER® for iSeries v100 administrator might need to perform, such as restoring libraries and creating a separate training environment. Refer to page 33 for this information.

The steps you, the end-user, will perform in this tutorial are similar to those you would use in your actual working environments when you start to use TURNOVER® for iSeries v100. If you set up application definitions and forms just as they are shown, you can replicate these test results.
PREREQUISITES FOR USING THE TUTORIAL

There are some things to consider before using the tutorial. First, the tutorial libraries DEVTEST, ACPTTEST, and PRODTEST, which we ship with TURNOVER® for iSeries v100, must exist on your system.

Second, you will need to know what environment the tutorial functions in, if different from your production environment. If there’s a separate training environment on your system, select that environment using F22 on the TURNOVER® for iSeries v100 Main Menu.

Third, regardless of the environment, there must be application definitions for a two-level application called AP, and project definitions for projects SOFT and APPR, for you to complete the tutorial.

If the libraries don’t exist on your system (or are causing unexpected results), or if you don’t know what environment to use, or if you can’t find these application and/or project definitions in any environment, contact your TURNOVER® for iSeries v100 administrator and refer him/her to page 33.

UNICOM Systems, Inc. Recommends

Note to the administrator: Consider creating a separate training environment in TURNOVER® for iSeries v100, and using that to perform tutorials and product training. This way you and your users can experiment with TURNOVER® for iSeries v100 without affecting your production definitions. To create a separate training environment, follow the instructions on page 35.
Prerequisites for Using the Tutorial
STARTING THE TUTORIAL

To use the tutorial, sign on as user TURNOVER; this profile is already set with the proper authority.

As you go through the tutorial, we suggest that you print the worklist, TURNOVER® for iSeries v100 forms, and TURNOVER® for iSeries v100 Log Reports so that you have a hard copy of these examples to study. We also recommend that you print the AP application definition to familiarize yourself with the defaults and rules defined for this application.

UNICOM Systems, Inc. Recommends

Sign on as user TURNOVER to do the tutorial for the first time. You may want to repeat the tutorial under your own profile after you have been enrolled and authorized to the tutorial application and its related projects, so that you can explore in greater depth.
OVERVIEW

TURNOVER® for iSeries v100 is a complete change management system – including integrated HELPDESK and PROJECT MANAGEMENT. In this example, we are going to demonstrate the flow of a normal change, from the entry of a change request through implementation, so you can see just how easy and automated the process can be.

SUMMARY OF MAJOR CHANGE STEPS

This following diagram shows the major steps that you’re already doing for most changes, whether or not you’re using TURNOVER® for iSeries v100. We’ll use the references in the diagram to mark your progress as you do the tutorial.
STUDY YOUR ENVIRONMENT

The most important decisions you will make involve setting up the application defaults and rules. The schematic below illustrates the environment we’ll be using for the tutorial.

The application you’ll be using is called AP and consists of two levels. Each level defines an environment as well as the defaults such as library names, source file names, create methods, authorities, object owner and rules such as requiring source to be checked out, requiring a project task to reference the reason for the change, and how many copies of source to archive. Use option 1 from the TURNOVER® for iSeries v100 Main Menu to review the AP application definition in greater detail. (For more about application definitions, see Chapter 1: Working with Application Definitions in the TURNOVER® for iSeries v100 User Guide.)

In this exercise, all program changes will be done in a common development library called DEVTEST. We’ll identify the objects we want to change and add them to a Programmer Worklist. TURNOVER® for iSeries v100 will then check out a copy of the source from production (PRODTEST) to development (DEVTEST).

Level 1 is Acceptance Testing

- After we make our changes in development, we’ll install them in a library called ACPTTEST by creating and running a TURNOVER® for iSeries v100 Level 1 form. The form will copy the source from DEVTEST to ACPTTEST and compile the new object in ACPTTEST. The source and object can be automatically deleted from DEVTEST and the project task will be updated to a status IN-TEST.

Level 2 is Production

- After our change is tested in ACPTTEST, we’ll promote the changes into production (PRODTEST). The Level 2 form will copy the source from ACPTTEST and compile the new objects in PRODTEST. Source and objects will be deleted from the testing environment, the original source (and optionally the objects) will be archived, the source will be checked in and the project task will be updated to status DONE.
MAJOR CHANGE STEPS

The major change steps you will perform are detailed on this page and on the following pages.

STEP 1: COLLECTING CHANGE REQUESTS

Most programming changes are initialized by a user or customer request. Typically, these requests can be entered directly by Helpdesk personnel or by authorized users.

Helpdesk personnel normally would work from the perspective of the customer (or Requester). S/he can look up the customer by first name, last name, company, or requester code; see the status of previously entered requests; and quickly enter a new request.

Authorized Users can enter their requests directly into the appropriate HELPDESK project. Your authorized users will be able view the status of previously entered requests, and use powerful filtering and search capabilities to research commonly reported problems.

Two commands (HELPDESK and FASTTASK) are provided for easy access to the HELPDESK system. Because most users don’t have access to a command line, you’ll add the appropriate command to their iSeries menu. If you have a menu system such as CENTRAL® for iMenu v100, you can quickly set them up as menu options. (If you’re using CL menus, you may have just identified your first change management application for TURNOVER® for iSeries v100!)

Enter a change request

Authorized User or HELPDESK person enters a Request

For the purpose of this tutorial, you’re going to enter the request as an authorized user would in your company. You might have provided the user with a menu option such as REQ – Enter Problems and Requests, but we are going to use the FASTTASK command from a command line.
1. From the TURNOVER® for iSeries v100 Main Menu, press F21 for a system command line, and then type FASTTASK and press Enter. Then, type option 1 next to the SOFT Helpdesk project and press Enter to enter your request.

2. Fill in the requested information, similar to the panel below, and press Enter. Press F4 on the Requester field to pick from a list of valid requesters.

Type the detailed description of your request. Remember, you’re an end-user and may not be fluent in the technical requirements of the request. Press Enter.
Press **Enter** when you finish typing your details – that’s all there is to adding a user request. You could add another request if want. When you’re done, press **F3** until you return to the command line and go to **Step 2.**
STEP 2: REVIEWING A CHANGE REQUEST

You or someone in your organization will be designated as the Project Coordinator for any Helpdesk project you define. As coordinator, you will periodically review pending requests and either assign them to working projects, answer and close them, or defer them to a later date.

The coordinator can also use the escalation queue to monitor and prioritize existing requests. (For more information on using the escalation queue, see Chapter 9: Working with Projects and Tasks in the TURNOVER® for iSeries v100 User Guide.)

Review and assign the user’s request

Suppose you have just received a message based on the escalation rules you have defined for this Helpdesk project. The message informs you that a user request has been entered.

1. On the command line, type the WORKTASK command and press Enter.

2. Type option 1 next to the SOFT project to review all the new requests.

3. From the Review panel, press F5 to read the details – you may choose to add specific instructions for the programmer. Press Enter to return to the review panel.

4. In this instance, we’re going to assign this request to a working project called APPR (AP Problems and Requests). Keep in mind that if this request only required an answer, we could do that in the details and then press F11 to reject the request, or we could press F13 to accept it with the intention of assigning it at a later time. For now, press F2 to assign the request and enter APPR as the working project.
5. Assign TURNOVER as the resource (or yourself if you’re doing this tutorial under your own profile) and fill in the scheduling information as indicated on the Assign a Task panel.

<table>
<thead>
<tr>
<th>Description</th>
<th>Tutorial Documentation Test Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource</td>
<td>TURNOVER F4=List</td>
</tr>
<tr>
<td>Status</td>
<td>Assigned F4=List</td>
</tr>
<tr>
<td>Requestor</td>
<td>PHILLIPS F4=List</td>
</tr>
<tr>
<td>Application</td>
<td>AP F4=List</td>
</tr>
<tr>
<td>Release</td>
<td></td>
</tr>
<tr>
<td>Version</td>
<td></td>
</tr>
<tr>
<td>Priority</td>
<td>1 to 3</td>
</tr>
<tr>
<td>Priority sequence</td>
<td></td>
</tr>
<tr>
<td>Duration</td>
<td>Planned: 2.00 Actual: 0/00/00 Units: H</td>
</tr>
<tr>
<td>End date</td>
<td>Planned: 1/13/99 Actual: 0/00/00</td>
</tr>
<tr>
<td>Date needed</td>
<td>1/15/99</td>
</tr>
<tr>
<td>Date promised</td>
<td>1/15/99</td>
</tr>
<tr>
<td>Task type</td>
<td>A ASAP F4=List</td>
</tr>
</tbody>
</table>

Look at any user-defined fields for the working project by paging down to the next panel.

Press Enter when you’re finished entering the assignment information. (As you continue to press Enter, you’ll be able to edit project details and print a report.) When you reach the Main Menu, go to Step 3.

Recap

You can define any number of HELPDESK projects to collect requests from your users.

- You can define escalation queue rules with triggers to monitor the requests being entered and automate much of the information-gathering and -tracking process.

- You decide if, when and how you’re going to handle each request – while providing a flexible and easy-to-use interface for the end-user or Helpdesk person.

Take a few minutes to experiment with the many filters and options available on the FASTTASK and WORKTASK panels from both a User’s and Project Coordinator’s perspective.

UNICOM Systems, Inc. Recommends

For more information about the HELPDESK and Project system, see the Overview section of Chapter 9: Working with Projects and Tasks in the TURNOVER® for iSeries v100 User Guide.
STEP 3: ANALYZING CHANGE IMPACT

In this step, you are working from the programmer’s point of view to determine the impact of a change request.

There are several ways to analyze the impact of a change, check out source, make changes in your development library and install those changes as a programmer who is using TURNOVER® for iSeries v100. You can:

1. Use the Main Menu options to check out source, and then build and run a TURNOVER® for iSeries v100 form.

2. Use PDM user-defined options to do the entire process from within PDM.

3. Use the **Programmer Worklist Manger (PWM)**, a tool that has many PDM-like features for development, but is tightly integrated with TURNOVER® for iSeries v100 to include the necessary analysis, development and change management functions on a single panel. The worklist is the easiest and most productive way to use TURNOVER® for iSeries v100.

We recommend that you take time to review the *TURNOVER® for iSeries v100 Developer’s Guide* after you do the tutorial to get a more complete understanding of the worklist.

Creating a worklist

As a programmer, you’ll need to decide which objects need to be changed or created to fulfill the request or to fix the problem. With this tutorial, we’ll make a simple change to file APPF001 (yes, that’s right, a file change can be simple when you use TURNOVER® for iSeries v100). You’ll see how the cross-referencing will identify all related objects that will be affected by the change.
1. Select option 9 from the Main Menu to *Work with Projects and Tasks*.

2. Type option 12 next to the APPR project and press Enter to work with tasks.

3. Type option 20 next to your assigned task and press Enter to create your worklist. Because you’re creating the worklist from the project task, you can leave the *PROJECT defaults on the Create Programmer Worklist command and press Enter to create your worklist.

4. From the *Work with Programmer Worklist* panel, you can press F6 to add the name of the object you wish to change to the worklist. Type APPF001 in the object name field and PF in the attribute field and press Enter. If you were unsure of the object name, you could press F20 to start PDM and select the names from a list of objects or source members with a PDM user-defined option – typing AW from the object or member list will add the name to the worklist.

Remember, at this point in the process, all you’re doing is building a list of objects that you need to work on for this request.

Let’s review what you’re seeing on the worklist now that you’ve added the first object name.
The first thing you notice is that there are three lines for the APPF001 file. There is a line for each library in which the object could exist, based on the AP application definition. In essence, the worklist is a top-down view of your application environments as represented in the application schematic you saw earlier.

The highlighted lines indicate that source and/or an object exists in the library. The Y/N under the Obj and Src columns indicate what’s there, or perhaps more importantly when you’re using your real applications, what’s not there. The Chk/Out column lets you know if the source is already checked out. The F11 key will present several alternate views you can use.
The next thing to familiarize yourself with are **filter settings** and **session defaults**. You’ll see just how important and useful these features are as we add more object names to the list.

- **Filters** - Type Y or N in the **Apply Filters** field at the top of the worklist panel to quickly switch between a subset of your list or the big picture (all the environments). Press F17 to change the filter settings. Go ahead and do that now – press F1 to read the online Help on each of the filter fields.

- **Session Defaults** - Press F18 to view and change the session defaults. You’ll find these extremely useful in controlling how the worklist appears and performs. Again, press F1 and read the online Help on session defaults fields.

Another important feature of the worklist is the **Next Option** field – which is going to help you through the process by identifying the next step you may need to perform for a given level. Remember, it’s only a recommendation – when you perform the option is always up to you.

Take a few minutes to experiment with the many powerful features available on the worklist. Don’t expect to learn everything that can be done during this quick demonstration, but do take the time to read some of the help and be sure to read the *TURNOVER® for iSeries v100 Developer’s Guide* at some point. Also, *Chapter 9: Working with Projects and Tasks* in the *TURNOVER® for iSeries v100 User Guide* includes an introduction to PWM.

5. Now we’re ready to use TURNOVER® for iSeries v100’s cross-reference file to determine the impact of adding new fields to file APPF001. Type option **15** next to the production level (library PRODTEST) line and press Enter.

    **Cross-reference Panel**

The cross-reference panel displays the list of objects that **use** or are **used by** the selected object. You can add any of these objects to the worklist directly from the cross-reference panel by using option **1**. One of the many great features of TURNOVER® for iSeries v100 is that you only have to check out the objects that you actually have to change.
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**Major Change Steps**

TURNOVER® for iSeries v100 will check the cross-reference file again when you build the form to promote your change to the next environment. Any logical files that need to be recreated, or programs that need to be recompiled for testing, can be added to the form at that time.

From the cross-reference panel, you can use option 6 to see the relationships for any of the other objects on which you want to work. The X-Ref Depth count will increase as you drill down the relationships between objects. Any objects you have selected will appear as highlighted lines to help you keep track of where you are.

6. Select LF APLF001A and the RPG program APRPG001 by typing option 1 next to the object names and pressing Enter to add them to your worklist.

7. Next, check the relationships for logical by typing a 6 next to logical file APLF001A. Press Enter. Type a 1 next to APRPG002 to add this program to your worklist. Then press F3 to return to the worklist. The second logical can be added from the cross-reference list when we build the level 1 form – if we forget, or don’t need LF APLF001B for testing, TURNOVER® for iSeries v100 will add it automatically when we build the level 2 form. Remember, we only have to check out objects we intend to change.

8. Now it’s time to use the filters. Press F17 and enter *PROD in the Level field and press Enter. Only the production lines will appear. The next option should be 21, which indicates that the next step is to check out a copy of the production source to your development library. Type 21 next to the first line and press F13 to repeat the selection. Depending on your session default settings for F19, press Enter or F19 to submit the checkout process to batch. (Press F18 to check your session default settings for F19.)

When the checkout job finishes, press F5 to refresh. The Chk Out column will now be ‘Y’ which indicates the source is now checked out.
STEP 4: MAKING THE PROGRAM CHANGES

Once the source is checked out, you can make the necessary changes using the worklist. You will only see the objects you are working on for this request.

**Edit and compile in development**

Everything you need to make your change should be available on the worklist. You can edit every source type, access SDA and RLU – all without changing source files – directly from the worklist. You also have access to *source compare*, *source merge*, *cross-referencing*, and the complete *object change history* – directly from the worklist.

1. Press **F17** to change your filters. Type **DEV** in the filter by level and press **Enter**. When you return to the list, only the development lines will be displayed. The **Next Option** is now **32** for any line where source actually exists – if you’re creating a new program, enter the **32** to create a new member. Once the source is checked out, you can edit every source type without having to change source files.

If you want to change the sequence of the objects on the list, use the session defaults. Press **F18**, then page down to the second page and type **CRTSEQ** in the **List Sequence** field if you want the objects to appear in the order in which you should change and compile them.

If you are using your own profile for this tutorial, consider changing your session defaults to match these.
2. Now use option 36 to compile all of these objects. If you enter 36 next to multiple lines, they will be submitted as a single job in the correct compile sequence – regardless of the worklist sequence. The library list used can be controlled in your session defaults, the *APP default is recommended. The compile will be submitted with a library list of your development library followed by the application libraries – in the correct order.

After your compile job finishes, you will see a Y under the Obj column. You may have to press F5 to refresh, or F11 for an alternate view. Remember, the worklist is real time – the current status of the objects and source is displayed each time you refresh or change filters.
STEP 5: INSTALLING THE CHANGES IN ACCEPTANCE

The TURNOVER® for iSeries v100 Level 1 application definition contains all the necessary information for installing the objects in the QA environment. Library names, source file names, creation methods for each object type as well as how to set object attributes and authorities are all defined in the application. As a programmer, all you need to know is the level number to which you want to promote. As you have seen, the worklist presents each level that is defined in the application definition.

Create level 1 form

After you’ve unit tested your change in the development library, you’re ready to promote the changes to the Level 1 Acceptance Test environment by building and running a TURNOVER® for iSeries v100 form. Typically, each programmer creates and runs his/her own form for Level 1.

1. Press F17 and type a “1” in the Level field and press Enter. When you return to your worklist, you’ll now see only the lines for the ACPTTEST library. Notice that none of the lines are highlighted and the Next Option is 46 (Add to Form).

2. Type a 46 next to the first object name and press F13 to repeat the selection to the end of the worklist. Then, press Enter to submit a job to build the form in batch.
When the form build job completes, the word READY appears under the **Form Status** column and the **Next Option** should now be **47 (Run form)**. You can use option **42** to edit the form if you need to add any of your own commands or override any of the application defaults, but normally, you’ll run the form without editing it.

3. To run the form, type option **47** next to **one** of the lines and press **Enter**. Because all the objects are on the same form, you only need to enter the option once. (**Note**: you must have RUN authority to this level of the application.)

4. Accept the defaults on the Submit TURNOVER® for iSeries v100 Form prompt and press **Enter**. This will submit two jobs to job queue QBATCH. The first job, error checking, will run immediately – the job name will be SBM#### (where # = form number). If there are no errors, a second job will be submitted to run the form which will install the source and objects in the ACPTTEST library – the job name will be TO#####.

You can track the progress of the form by pressing **F5** while the job is **RUNNING**. You’ll notice the highlighting and the OBJ and SRC flags will change each time you refresh the worklist panel with **F5**.

When the Level 1 form completes, the Form Status should be **RAN-OK** (you may need to refresh); the objects and source are installed in the ACPTTEST environment and ready for testing. Remove the filters by pressing **F17** and blanking all filters or by setting **Apply Filters** to **N** on the top of the worklist panel. Then press **Enter**. Also note that the objects and source have been deleted from the DEVTEST library.

The Level 1 application definition has been set up to change project task status to **IN-TEST** if the form runs all right. Use option **25** next to any line to review the task information. Notice that TURNOVER® for iSeries v100 has updated the start date.
Tracking time and updating task details

While you’re waiting for the form to finish, you can log your programming time and update the project task details. The worklist name is created from the Project/Task/Subtask composite key. Access to the task and to any time entries made from the worklist is quick and automatic.

Log your time

1. Press F22 to display a time entry panel. This assumes you want to log your time for the task associated with the current worklist. Press F4 on the Project or Task field to log time to a different project/task.

2. Press F4 on the Category field and pick a user-defined category.

3. Type a short comment if necessary – these will be displayed on the Timesheet panel and will print on the Timesheet Reports.

4. Type the From and To times, or type the Total. Press Enter and follow the panel prompts to finish.

Update task details

1. Type option 25 next to any line on the worklist.

2. Press Enter.

You’ll probably elect to use the Project Defaults in the application definition so that TURNOVER® for iSeries v100 will automatically update the task status and the actual start and end dates. If you do not, you can update any of the task information directly from the worklist. You’ll probably update the details by pressing F5 from the Change a Task panel. Press Enter or F3 to return to the worklist.
STEP 6: INSTALLING CHANGES TO PRODUCTION

After testing, the change is ready to be promoted back to production. An administrator or a project manager might run this step directly from the Work with TURNOVER® for iSeries v100 Forms panel. In this case, we are going build the form for Level 2 by copying the Level 1 form from the worklist.

Level 2 of our sample application has been set up to submit the Form Finalization as a secondary batch job. Functions such as source archiving, cross-reference updates and, clean up of the ACPTTEST environment can be deferred – the form status will change to FIN-OK as soon as the objects are available for use in the production libraries.

Create level 2 form

Earlier, we decided to check out only one of the logical files that were built over the APPF001 physical file. The second logical (APLF001B) will have to be removed and recreated during install of the production change. TURNOVER® for iSeries v100 will add the LF to the form automatically if you forget to do so.

1. Type option 43 (Copy form) next to one of the RAN-OK lines to copy the associated form and press Enter.

   The Copy form option will set the level number to the next highest unlocked level defined in your application definition if the form you are copying RAN-OK, or to *SAME if the previously run form had failed.

   The Copy form option will check for dependent logical files not on the form and add them automatically. Leave the Check cross-reference parameter as Y and press Enter or F19 to submit the copy form job to batch. TURNOVER® for iSeries v100 will check the cross-referencing and add any programs that need recompiling to the form – including those that use any logicals that may have been added. TURNOVER® for iSeries v100 will also check for missing LFs during error checking.

   Your worklist will now indicate that a form exists for the production level. However, the form status (APL-PN) of the Level 2 form indicates that an Approval is required before the form can be submitted to run. Before you approve the form, type option 45 next to one of the production level lines to view the form. You will now see that logical file APLF001B and RPG program APRPG003 have been added. The LF was added because it was created over PF APPF001 and the RPG was added because it uses LF APLF0001B.
2. Type option 48 next to one of the lines for the associated form and press Enter.

If you’re part of the approval group, you can type a ‘Y’ in the Approved field to approve the change. If you’re not signed on as user TURNOVER, you will have to sign on as user TURNOVER and approve the form, or add yourself to the level 2 Approval List from Main Menu option 1 (Work with Application Definitions).

Before you approve the form, you may want to press F9 to view the task information. You should also press F11 view the form and review any commands that may have been added.

3. After the form has been approved, you can run the production level form by typing 47 next to one of the lines for the associated form.

Accept the defaults and press Enter from the Submit TURNOVER® for iSeries v100 Form panel. (Note: You may want to submit the form as a timed-job for your real production level applications.) If you did not add the second LF, you will receive a warning message informing you that a logical file was added to the form.

Our sample application definition is set up to run Level 2 forms in two steps. The first step creates the new objects in the production library (PRODTEST), recopies the data, sets the authorities, and so on. As soon as the objects are ready for the users, the form status will be set to FIN-OK. A second job will be submitted to do all the cleanup steps such as source archiving, cross-reference updates, and the cleanup of the test environments.

After the cleanup job completes, the form status should be RAN-OK (refresh if necessary). You can now review the audit log. From the worklist panel, type option SP (WRKSPLF) next to any line on the list or press F14 to Work with Submitted Jobs.

Notice that two logs are produced with each form job. Type option 5 next to the first TURRLOGR file and review the steps that were performed to promote the objects to production. Now look at the second TURRLOGR file to see the cleanup steps that were performed to archive source or objects (or both) and to delete test source or objects (or both). You’ll get a good understanding of the process.
WHAT’S NEXT?

The intent of this tutorial is to introduce you to TURNOVER® for iSeries v100. You should now have a good idea of the overall process from collecting and reviewing the user requests through the analysis, development, and installation of the change. As you can see, TURNOVER® for iSeries v100 is a complete system designed from the ground up with the complete development cycle in mind.

If you’re ready to continue your evaluation, you should give us a call and schedule a phone walk-through with one of our experienced staff members. We’ll go through the entire product with you and concentrate on areas of the system where you may have questions or look at features you may have missed. We certainly will want to discuss how TURNOVER® for iSeries v100 will be set up in your company. Whether you maintain your own applications or complex vendor applications, TURNOVER® for iSeries v100 can be configured to automate the process and make everyone’s life more manageable.

Be sure to review the application models in Chapter 2: Planning Your Application Definitions in the TURNOVER® for iSeries v100 Application Planning Guide.
MANAGING THE TUTORIAL

If you’re a TURNOVER® for iSeries v100 administrator, you may be asked to restore the tutorial libraries or create a separate training environment. The following topics provide the information you need to satisfy such requests.

RESTORING THE TUTORIAL LIBRARIES

Someone might ask you to restore the tutorial libraries if:

- Your system was recently upgraded from a previous release.
- The tutorial libraries have been deleted from your system.

Restore the libraries from the new versions stored in the TURNOVER® for iSeries v100 installation library, T54INST.

*You do not need to do this procedure if you have just loaded TURNOVER® for iSeries v100 for the first time (as opposed to upgrading from a previous version).*

You must be signed on as QSECOFR to do this.

To restore the tutorial libraries, do the following:

1. Check to make sure the installation library T54INST exists. If it does, skip this step and continue with Step 2.

   If the installation library was deleted after you installed TURNOVER® for iSeries v100, you’ll have to restore it first, then proceed with restoring the libraries. To restore the installation library, you must load the most recent version of the TURNOVER® for iSeries v100 distribution media on your tape drive. On a command line, type:

   ```
   ==>RSTLIB SAVLIB(T54INST) DEV(TAPnn) ENDOPT(*UNLOAD)
       MBROPT(*ALL) ALWOBJDIF(*ALL)
   ```

2. On a command line, delete the old versions of the tutorial libraries (if they’ve already been deleted, skip this step and continue with Step 3):

   ```
   ==>DLTLIB DEVTEST
   ==>DLTLIB ACPTTEST
   ==>DLTLIB PRODTEST
   ```
3. On a command line, restore the new versions of the libraries:

```bash
==>RSTLIB SAVLIB(DEVTEST) DEV(*SAVF) SAVF(T54INST/DEVTEST) MBROPT(*ALL) ALWOBJDIF(*ALL)

==>RSTLIB SAVLIB(ACPTTEST) DEV(*SAVF) SAVF(T54INST/ACPTTEST) MBROPT(*ALL) ALWOBJDIF(*ALL)

==>RSTLIB SAVLIB(PRODTEST) DEV(*SAVF) SAVF(T54INST/PRODTEST) MBROPT(*ALL) ALWOBJDIF(*ALL)
```

Once you’ve restored the libraries, check to see that application definitions AP level 1 and 2 exist and projects SOFT and APPR exist. If they do, you’ll need to change the tutorial application definition and rebuild the cross-reference file for the AP application:

1. Type the TURNOVER command on a command line, or sign on as user TURNOVER.

2. On the TURNOVER® for iSeries v100 Main Menu, select option 1 to work with application definitions.

3. On the Work with Application Definitions panel, type 2 next to the AP level 2 entry.

4. Select Application defaults and rules.

5. Set X-Ref method to *TURNOVER.

6. Set X-Ref Table to APDEMO and press Enter.

7. Press Enter twice to return to the Work with Application Definitions panel.

8. Select the AP level 2 with option 20 and submit the cross-reference build job.

   (Press F14 to Work with Submitted Jobs and release the job.)
CREATING A SEPARATE TRAINING ENVIRONMENT

You may have decided to create a separate training environment, regardless if the AP application definitions, and SOFT and APPR project definitions, have been deleted or not. You can define more than one TURNOVER® for iSeries v100 operating environment. TURNOVER® for iSeries v100 is shipped with three product libraries. All of TURNOVER® for iSeries v100’s data files are stored in one of these libraries. To define additional environments to TURNOVER® for iSeries v100, you must:

1. Restore TURNOVER® for iSeries v100’s data library from a savefile in TURNOVER® for iSeries v100’s installation library, T54INST, into a new Tutorial data library, and

2. Create an environment definition record, specifying the Tutorial data library in place of your live data library. When you select to work in the new Tutorial environment, TURNOVER® for iSeries v100 switches the library list to include the Tutorial data library you created.

You must be signed on as QSECOFR to create a training environment.

To create a new Tutorial data library, restore TURNOVER® for iSeries v100’s data library into the new library, and give user TURNOVER authority to the new library, type the following commands on a command line:

```plaintext
==>
CRTLIB LIB(TURNTUTOR) TEXT('TURNOVER® for iSeries v100 Tutorial Training Library') <Enter>

==>
RSTOBJ OBJ(*ALL) SAVLIB(T54PRDD) DEV(*SAVF)
SAVF(T54INST/DATALIB) MBROPT(*ALL) ALWOBJDIF(*ALL)
RSTLIB(TURNTUTOR) <Enter>

==>
GRTOBJAUT OBJ(TURNTUTOR/*ALL) OBJTYPE(*FILE) USER(TURNOVER)
AUT(*ALL) <Enter>
```

You can replace the Tutorial library name, TURNTUTOR, with any library name you want.

**UNICOM Systems, Inc. Caution!**

**DO NOT OMIT** the RSTLIB parameter on the RSTOBJ command, or you’ll overlay the TURNOVER® for iSeries v100 product data library you are now using!

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1 If you’ve installed all TURNOVER® for iSeries v100 objects into one product library, you will not be able to use multiple environments. Therefore, we recommend that you install TURNOVER® for iSeries v100 to use the default library names. See the Getting Started with TURNOVER® for iSeries v100 for the iSeries guide.
Managing the Tutorial

To create a new environment record, type the following on a command line:

```
==&gt;WRKTOENV <Enter>
```

Press **F6** to add a new environment entry. You’ll see this panel:

![Environment Creation Panel](image)

Complete the panel as illustrated above, substituting your tutorial library name in the **Data library** field, and press **Enter**.

Instruct your users to access the tutorial environment by pressing **F22** on the Main Menu and selecting the tutorial environment with option **1**.

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2 The product and language library and message file names shown are the default names used by the TURNOVER® for iSeries v100 installation process. You should substitute your own if they differ.