

TURNOVER[®] Lifecycle Manager

IBM i Getting Started

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TURNOVER® Lifecycle Manager

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1 Installing TURNOVER[®] Lifecycle Manager

This document describes how to install TURNOVER[®] Lifecycle Manager, upgrade to a new release, and apply changes to an existing release.

It assumes that you have a general knowledge of the IBM i operating system; are familiar with Security Administration; understand the organization of your company's applications and databases; and have some experience of Command Language (CL).

See

'Preparing to install or upgrade' on page 6

'Getting started with an installation or upgrade on a single IBM i server' on page 10

'Upgrading to a new release' on page 18

'Additional installation information' on page 34

2 Preparing to install or upgrade

Minimum system requirements

TURNOVER® Lifecycle Manager Menu requires:

IBM i 7.1 or later

Approximately 500 megabytes of storage. The actual amount depends on how much TURNOVER® Lifecycle Manager data you create and store

If you are installing TURNOVER® Lifecycle Manager for the first time or upgrading from a previous release of TURNOVER®, you will need a product license file: contact UNICOM Systems, Inc.

To upgrade to TURNOVER® Lifecycle Manager from a previous release of TURNOVER®, you must be running TURNOVER® for iSeries v100 or v101; or TurnOver 5.3 or 5.4.

For product compatibility information, see

<https://support.softlanding.com/Home/Compatibility.aspx>

Prerequisites

IBM PTF for TURNOVER® SVN

To use TURNOVER® SVN, you may need to install an important IBM PTF before you use it. For more information, read the “Implementing TURNOVER® SVN” section of the *TURNOVER® Lifecycle Manager Administrator’s Guide*.

Use QSECOFR profile

The nature of the objects created and commands issued during installation require use of a profile with *SECOFR authorities granted. **You will be prevented from performing an installation procedure if you are not signed on with such a profile.** We strongly recommend installing under the QSECOFR user profile. If you do not have access to this profile, then make sure the profile you use has *SECOFR authorities granted.

First time install?

If you believe you are installing TURNOVER® Lifecycle Manager for the first time, check to make sure a version of TURNOVER® is not already on your system by looking for a user profile named TURNOVER.

License file required

You need a valid license file to use the software. If you do not already have one, contact your local technical support representative.

Remote systems

TURNOVER® Lifecycle Manager can distribute to any previous version of TURNOVER®. However, you should install the new version on all your systems as soon as you can: some enhancements work only if all the systems run the same version.

Autostart jobs

You should end all TURNOVER® Lifecycle Manager autostart jobs before installing or upgrading (TOMSGRCV and TURNESCQ; also TURCRARE and the WISEDESK (This job may be named WDDYNUPD on your system job if applicable)).

Preparing the system

- 1 Look for a user profile named TURNOVER. If it exists, you probably have a version of TURNOVER® already installed, and you should follow the upgrade instructions.
- 2 Check whether you have a license file for TURNOVER® Lifecycle Manager. If you do not already have one, contact UNICOM Systems, Inc.
- 3 End these jobs:
 - TURNOVER® Lifecycle Manager autostart jobs: TOMSGRCV, TURCRARE, and TURNESCQ
 - (if applicable) the WISEDESK job, which might be called WDDYNUPD.
- 4 Make sure that the TSERVER subsystem is ended. After you have installed the new version, restart TSERVER.
- 5 End TURNOVER® Helpdesk on the application server that runs it. After you have installed the new version, restart TURNOVER® Helpdesk.
- 6 Make sure that no forms are running or distributing, and that no jobs have locks on the SOFTTURN, SOFTTURN, or SOFTTURN libraries.

More information

To	See
install TURNOVER® Lifecycle Manager for the first time	<i>'Getting started with an installation or upgrade on a single IBM i server' on page 10</i>
upgrade TURNOVER® Lifecycle Manager to a new release	<i>'Upgrading to a new release' on page 18</i>
complete the installation later	<i>'Restarting the installation procedure' on page 36</i>

Planning the installation

Library lists

Do *not* include any TURNOVER® Lifecycle Manager libraries in system or user library lists because this may interfere with TURNOVER® Lifecycle Manager's operations.

TURNOVER® Lifecycle Manager handles its own library lists when you are using it or running TURNOVER® Lifecycle Manager jobs. You do not need to include TURNOVER® Lifecycle Manager in your system or user library lists.

TURNOVER® Lifecycle Manager uses the Product library entry in the library list for its program library. This is usually library `SOFTTURN`. This enables TURNOVER® Lifecycle Manager to provide a secure change environment.

For more information, see:

'Application form defaults' in the *TURNOVER® Lifecycle Manager User Guide*.

'Security Recommendations' in the *TURNOVER® Lifecycle Manager Administrator's Guide*.

Simplified installation procedure

Historically, the installation process for previous versions of the TURNOVER® product consisted of three phases: the restore phase, the analysis phase, and the install phase. The restore phase and the analysis phase both had to be run manually.

The restore phase happened when the `RSTLIB` command was used to restore the product installation library from a save file that had been transferred to your IBM i system.

The analysis phase happened when a menu option within the installation library was run to start the install. It determined which procedure the install phase should run.

With the release of TURNOVER® Lifecycle Manager, the product installation will now be performed by using just one command, M4SYS/M4LODRUN. The restore and analysis phases are run automatically and you are presented with the appropriate prompts for the installation procedure that was determined from the analysis.

Know which procedure you should follow

The process runs one of two installation procedures to install TURNOVER® Lifecycle Manager objects on your system.

- *First-time installation:* TURNOVER® Lifecycle Manager or previous versions do not exist on your system.
- *Upgrade:* You are already running one release of TURNOVER® and want to move to the next release.

If you are expecting to do a first time install, but when presented the installation panel says you are doing an upgrade – then TURNOVER® objects already exist on your system, and you need to determine how to proceed before you continue.

3 Getting started with an installation or upgrade on a single IBM i server

TURNOVER® installation files can be obtained by requesting them through your local SoftLanding technical support representative. Once obtained, download the installation program save file to either a PC or IBM i computer.

Downloading the installation program to a PC

If you download the save file to a PC, copy the file to the IBM i computer by using FTP.

- 1 Sign on as QSECOFR, or as a user who has full security officer authority.
- 2 On the IBM i computer on which you want to install TURNOVER® Lifecycle Manager, create a library with the same name as the save file (TN4WV_{nnn}, where *nnn* is the version number).
- 3 In the TN4WV_{nnn} library, use the CRTSAVF command to create a save file also named TN4WV_{nnn}.
- 4 On the PC, use FTP in binary mode (FTP command BIN) to transfer the unzipped save file from your PC into the new save file on the IBM i computer.
- 5 Next, see 'Starting the installation'.

Downloading the installation program to an IBM i computer

If you download the save file directly to your IBM i computer, put it in a library with the same name as the save file (TN4WV_{nnn}, where *nnn* is the version number).

Next, see 'Starting the installation'.

Starting the process

- 1 Add the library containing the save file to the end of the user portion of your job library list:
ADDLIB LIB(TN4WV_{nnn}) POSITION(*LAST)
- 2 Do **one** of the following:

- If you do not have the UNICOM Product Support System installed (contained in the library M4SYS), restore the objects from the distribution save file into the QTEMP library by using the following command:

```
RSTOBJ OBJ(M4SETUP) SAVLIB(TN4WVnnn) DEV(*SAVF) SAVF(TN4WVnnn)
RSTLIB(QTEMP)
```

Then run this command:

```
M4SETUP
```

- If the Product Support System is installed (library M4SYS found on your system), type this command:

```
M4SYS/M4LODRUN DSTLIB(TN4WVnnn)
```

3 The license agreement screen appears. Press F14 to accept the terms and conditions.
The Installation Menu appears.

4 Select option 1, and then type Y.

5 The TURNOVER® Lifecycle Manager Installation panel appears.

The remaining TURNOVER® Lifecycle Manager installation phase is a panel-driven process. To follow along, turn to the appropriate chapter for the procedure you will run, as indicated here:

To	See
install TURNOVER® Lifecycle Manager for the first time	‘Installing for the first time’ on page 12
upgrade to TURNOVER® Lifecycle Manager or to a new release	‘Upgrading to a new release’ on page 18

4 Installing for the first time

This chapter applies to you only if TURNOVER® Lifecycle Manager, or its predecessor TURNOVER® for iSeries, does not exist on your system.

During the install process, you will see explanations and instructions on each installation panel. Be sure to read each panel carefully.

What happens during the first-time installation procedure

The automated analysis process that was run by the M4SYS/M4LODRUN command, which you used in *'Preparing to install or upgrade' on page 6*, will have determined whether you are installing TURNOVER® Lifecycle Manager for the first time or upgrading from a previous version of the TURNOVER® product.

UNICOM Systems, Inc. Caution

If you are expecting to install for the first time, but TURNOVER® Lifecycle Manager presents you with the Upgrade panel, then there are TURNOVER® objects already on your system and you should double-check your approach before continuing.

The first time install job creates the following items on your system:

- Four libraries (usually SOFTTURN, SOFTTURND, SOFTTURNE, and ARCHIVESRC).
- Three user profiles (TURNOVER, TOMSGRCV, and TURNESCQ).
- Two commands in library QGPL (TURNOVER and STRPWM).
- A subsystem called TSERVER.
- Three autostart jobs (in subsystem TSERVER): TURNESCQ, TOMSGRCV, and WISEDESK. These jobs are for monitoring the escalation queue, monitoring the confirmation message queue, dynamically updating Wisedesk help tree information, and establishing TCP jobs in the TSERVER subsystem for Enhanced Mail Messenger users.

You will see the following panel:

```
MM/DD/YY 10:00:00 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 1 of 4                                           System: YOURSYS
                                                         Profile: QSECOFR

Specify libraries for installation:
Specify the libraries for the TURNOVER® Lifecycle Manager product to install
into. These libraries will be created by the install process, and must not
exist. You can install the objects into three different libraries, or any
combination of the same one or two libraries. This format provides maximum
flexibility for your backup procedures, as well as the capability to
support multiple languages and/or data environments.
We recommend that you accept the defaults listed below.

Primary product objects library . . . : SOFTTURN      Name
Data objects library . . . . . : SOFTTURND      Name
Language dependent objects library . . : SOFTTURN      Name
Source archive library . . . . . : ARCHIVESRC      Name
Auxiliary storage pool for libraries . : 1          1-32
-or- ASP Device. . . . . : *SYSBAS      *SYSBAS, Name
Current ASP group. . . . . : IASP01

NOTE: The auxiliary storage pool you specify must exist, and have adequate
      free space. If using an ASP device the current ASP group must be set
      before starting the install. (F3 to exit, then SETASPGRP, then restart
F3=Exit  F12=Previous panel  F21=System command  ENTER=Continue
```

If you need to install TURNOVER® Lifecycle Manager into an iASP, or if you distribute to another computer where TURNOVER® Lifecycle Manager is installed into an iASP, see [‘Possible iASP configuration’ on page 47](#).

- 1 Check the library names and the auxiliary storage pool setting, and then press Enter.

The default names for the TURNOVER® Lifecycle Manager are SOFTTURN, SOFTTURND, SOFTTURN, and ARCHIVESRC. If these library names conflict with library names that already exist, you can change them.

```
MM/DD/YY 10:00:15 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 2 of 4                                           System: YOURSYS
                                                         Profile: QSECOFR

Select type of installation:
There are two types of TURNOVER® Lifecycle Manager installations: one
for Development systems, and one for Remote production systems which only
need to receive the distribution of objects. Specify the type
of installation to perform.

Type of installation . . . . . : D      D=Development, R=Remote

F3=Exit  F12=Previous panel  F21=System command  ENTER=Continue
```

- 2 Specify the type of installation:

- If the computer will be used for developing software, type D.
- If the computer will be used to provide end user access to the finished product, specify R.

Press Enter.

```
MM/DD/YY 10:00:30 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 3 of 4                                           System: YOURSYS
                                                         Profile: QSECOFR

Specify password:
  The following user profiles will be created by the install procedure:
  Profile:   Description:
  TURNOVER - TURNOVER® Lifecycle Manager Administrator, owns many of the
              TURNOVER® Lifecycle Manager objects.
              Must exist for product to function properly, but does not
              need any special authority on your system.
              You will need to sign on as this user to initially setup
              your user accounts.
  TOMSGRCV - Used by the distribution module to update form statuses.
              Created with password (*NONE).
  TURNESCQ - Used by the project module to handle task escalation.
              Created with password (*NONE).

Specify password for user TURNOVER . . : *USRPRF_____

F3=Exit   F12=Previous panel   F21=System command   ENTER=Continue
```

The installation program creates these user profiles: TURNOVER, TOMSGRCV, and TURNESCQ, and adds them to the system distribution directory.(These directory entries are required if you will be using TURNOVER® Lifecycle Manager’s distribution features.

3 Specify a password for user profile TURNOVER, and then press Enter.

```
MM/DD/YY 10:00:45 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 4 of 4                                           System: YOURSYS
                                                         Profile: QSECOFR

Installation parameters:
  Review the installation parameters you have specified, and specify
  whether you want to submit the install to batch, or run it interactively.
  If you specify batch installation, you will be prompted for the SBMJOB
  command, where you will be able to specify the date/time for job, job
  queue, job description etc.

Job execution environment . . . . . : B      B=Batch, I=Interactive

Product library . . . . . : SOFTTURN
Data library . . . . . : SOFTTURN
Language library . . . . . : SOFTTURN
Source archive library . . . . . : ARCHIVESRC
Auxiliary storage pool . . . . . : 01
-or- ASP device . . . . . : *SYSBAS
Current ASP group . . . . . : IASP01
Type of installation . . . . . : D
Password for user TURNOVER . . . . . : *USRPRF_____

F3=Exit   F12=Previous panel   F21=System command   ENTER=Continue
```

4 Check the values that you have entered.

To change a value, press F12 until you see the panel containing the fields you want to change. Change the values, and then press Enter until you return to this panel.

5 In the **Job execution environment** field, specify how you want the installation to run.

- For batch mode, specify B. This is the recommended method.

- For interactive mode, specify I.

If you select I, the job starts.

If you select B, the Submit Job panel appears.

Submit Job (SBMJOB)

Type choices, press Enter.

Command to run > CALL PGM(TODEMO) PARM('*USRPRF' '5' '3.0' 'D
 ' 'SOFTTURN' 'SOFTTURN' 'SOFTTURN' 'ARCHIVESRC' '01')

Job name	> TODEMO	Name, *JOB
Job description	> *USRPRF	Name, *USRPRF
Library		Name, *LIBL, *CURLIB
Job queue	> *JOB	Name, *JOB
Library		Name, *LIBL, *CURLIB
Job priority (on JOBQ)	*JOB	1-9, *JOB
Output priority (on OUTQ)	*JOB	1-9, *JOB
Print device	*CURRENT	Name, *CURRENT, *USRPRF...
Output queue	*CURRENT	Name, *CURRENT, *USRPRF...
Library		Name, *LIBL, *CURLIB

More...

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
 F13=How to use this display F24=More keys

- 6 Press Enter to submit the job.

The installation program installs TURNOVER® Lifecycle Manager.

Completing the installation

You will see a confirmation panel showing the result of the installation, if performed interactively, or confirming submission to batch. You can now exit out of the M4LODRUN command by pressing the F3 key.

If the installation was submitted to batch, verify that the TODEMO job completed normally. If it did not, consult your job log and use its information to help solve the problem.

What if the installation did not complete successfully?

If the installation was performed interactively but was not successful, it will need to be repeated using the M4SYS/M4LODRUN command.

If the installation was submitted to batch but was not successful, it can be repeated either through M4SYS/M4LODRUN or from the INSTALL menu in the TLM2XINST installation library. For details of this alternative installation procedure see the topic ['Restarting the installation procedure' on page 36](#).

What should you do after installation is complete?

- 1 Add the TURNOVER® Lifecycle Manager data library SOFTTURN to the list of libraries you back up. Back up these libraries daily.

- 2 Add the `TSERVER` subsystem to your system startup program, so that it starts when you IPL the computer.

For more information, see *'Changing the system startup program to start the `TSERVER` subsystem' on page 37.*)

Sign on as user `TURNOVER` using the password you chose at the installation prompt.

- 3 If you have not applied a valid `TURNOVER®` Lifecycle Manager license file, the system will notify you accordingly:

```

.....
:                               License File Has Expired                               :
:                                                                                       :
: Your license file has expired or has never been entered.                          :
:                                                                                       :
: Call (603) 924-8818 to receive a new file.                                         :
:                                                                                       :
: Thank you.                                                                           :
:                                                                                       :
: Press Enter to continue . . . F3 to Exit                                           :
:.....
  
```

You may need to contact your UNICOM Systems, Inc. sales assistant or international agent now to obtain your license file.

For a complete description of the process of applying a license file, see *'Authorizing products' on page 31.*

- 4 After you have applied your license file, the `TURNOVER®` Lifecycle Manager main menu appears.

```

MM/DD/YY          TURNOVER® Lifecycle Manager          Your Company, Inc.
10:10:00                                     YOURSYS

Select one of the following:

          1. Work with application definitions
          2. Maintain programmer information
          3. Maintain Users authority

          4. Work with object history
          5. Check-out/check-in source
          6. Work with forms
          7. Submit a form to run

          8. Utility menu
          9. Work with Projects and Tasks
         10. Reporting menu
         11. Distribution menu
         12. Programmer Worklists

Select option:  __

F3=Exit      F6=DSPMSG      F12=Cancel      F14=WRKSBMJOB      F24=More keys
  
```

- Users can start `TURNOVER®` Lifecycle Manager by typing `TURNOVER` on a command line, or you can include the `TURNOVER` command on the appropriate user menus.
- `STRPWM` (Start Programmer Worklist Manager) provides direct access to the programmer's development function in `TURNOVER®` Lifecycle Manager. For more about PWM, see the *`TURNOVER®` Lifecycle Manager Developer's Guide.*

If this is the first time you have installed TURNOVER® Lifecycle Manager on your system, you can try the TURNOVER® Lifecycle Manager Tutorial.

5 Upgrading to a new release

To upgrade a previous version of TURNOVER® to a new version of TURNOVER® Lifecycle Manager, you need a new license file. If you did not receive a license file with your upgrade package, contact your Sales Administrator for the license file now.

You must be running TURNOVER® Lifecycle Manager, TURNOVER® for iSeries v100/101 or TurnOver release 5.4 to upgrade.

Important If you are upgrading an earlier version of TURNOVER which is installed in an iASP on your system, see *'iASP configurations' on page 47* for further information before you proceed.

Before proceeding with your upgrade, you should back up your SOFTTURN, SOFTTURND, and SOFTTURN libraries.

Note By default, TURNOVER® Lifecycle Manager restores to libraries SOFTTURN, SOFTTURND, and SOFTTURN. If these library names conflict with names that already exist, you can change them. However, we recommend that you do not change them unless absolutely necessary.

Preparing to upgrade TURNOVER® Lifecycle Manager

Interfaces

Before you begin the upgrade, see the Interface guides for their recommendations.

Exit programs

This version of TURNOVER® Lifecycle Manager does not contain any file changes, so you do not need to recompile your exit programs.

The TURNOVER® Lifecycle Manager product library contains all of the TURNOVER® Lifecycle Manager program objects. These objects are shipped in TURNOVER® Lifecycle Manager without observability.

Installation library

The TURNOVER® Lifecycle Manager installation library (TLM2XINST) contains all of the TURNOVER® Lifecycle Manager objects in save files. After you have installed TURNOVER® Lifecycle Manager and sent it to your remote systems, you can delete the library or just the save files that are in it.

Upgrading TURNOVER® Lifecycle Manager

- 1 Back up the SOFTTURN, SOFTTURND, and SOFTTURNL libraries.
- 2 Prepare the installation file, and then transfer it to the IBM i computer: see *'Preparing to upgrade TURNOVER® Lifecycle Manager' on page 18.*

Running the upgrade program

Following on from the end of chapter 3, where you ran the M4SETUP command and used F14 to accept the license, the upgrade panel will appear.

```
MM/DD/YY 11:05:50 TURNOVER® Lifecycle Manager Installation   Your Company, Inc.
Panel: 1 of 3                                              System: YOURSYS
                                                         Profile: QSECOFR

Product Upgrade:
The installation program has determined that it should perform an upgrade to
TURNOVER® Lifecycle Manager. Please read the note below before continuing.

Press ENTER to continue.
Warning. Please read before continuing.

NOTE: This release of TURNOVER® requires that you apply a new license file
before it will run. Please be sure that you have obtained a license
file for TURNOVER® Lifecycle Manager before proceeding with the
installation.

Once the license file has been placed in the IFS of this system, run
the command M4SYS/M4DSPPRD PRODCD(TN4) and take option 7 to verify
the license. When accepted, the license file will be moved to the
location expected by this product.

F3=Exit   F12=Cancel   F21=System command   ENTER=Continue
```

If you have not obtained your license file, contact us and get it now, before you proceed so that you can complete the upgrade smoothly.

```
MM/DD/YY 11:06:15 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 2 of 3                                          System: YOURSYS
                                                    Profile: QSECOFR

Confirm upgrade of environments:
A previous version of TURNOVER® Lifecycle Manager was found in the
environment(s) listed below. Press Enter to upgrade those
environments within the existing library structure. If you want to test
this new release before switching over, then specify alternate,
non-existing, library names to install into.
The upgrade process can migrate your existing TURNOVER® Lifecycle Manager
applications, projects, etc. to aid in your testing of the new release.
When you are finished with your testing, you can then migrate just your
object history to complete the transition to the new release.

2=Change libraries    4=Do not upgrade environment    6=Restore to defaults
                        Product      Language    Data          Copy Data
Environment  Library      Library    Library      Option
___ ENGLISH   SOFTTURN    SOFTTURN   SOFTTURN     *ALL

F3=Exit  F12=Cancel  F21=System command  ENTER=Continue

Bottom
```

1 Decide whether to:

- upgrade on top of your existing release: see [‘Upgrading over an existing release’ on page 20](#)
- upgrade to a test environment before going live: see [‘Upgrading to a test environment’ on page 24](#).

If you are upgrading from an older release, have exit programs that you need to test, or you want to experiment with a new feature before using it, you might upgrade to a test environment first. For more information, see [‘Typical upgrade-to-test scenario’ on page 25](#).

Upgrading over an existing release

Use these instructions if you want to upgrade your live version of TURNOVER® to the new TURNOVER® Lifecycle Manager release and use it for real work immediately.

If you want to test the new release before putting it into use, go to [‘Upgrading to a test environment’ on page 24](#).

What happens when you upgrade over your previous release?

You run the automated upgrade procedure *without test libraries*, which:

- Renames your existing libraries and installs the TURNOVER® Lifecycle Manager product libraries.
- Copies all TURNOVER® Lifecycle Manager files, data areas, and job and object descriptions, and so on from the renamed libraries to the new libraries.
- Moves source archives from the renamed libraries to the new version libraries.

- Loads new versions of TURNOVER® Lifecycle Manager commands into QGPL.
- Sets authorities to TURNOVER® Lifecycle Manager programs and files.
- If run in batch, produces a job log; if run interactively, sends status messages.
- Creates the new TSERVER subsystem.
- Creates and starts three autostart jobs (in subsystem TSERVER): TURNESCQ, TOMSGRCV, and WISEDESK. These jobs are for monitoring the escalation queue, monitoring the confirmation message queue, and dynamically updating Wisedesk help tree information, respectively.

UNICOM Systems, Inc. recommends

If you use Wisedesk, escalation queues, or distribution, chances are you already have autostart jobs created and running in another location. We recommend that you delete your older set to prevent confusion later.

You move your own exit programs or other objects from the renamed libraries to the new libraries. (Usually you would not store these items in TURNOVER® Lifecycle Manager libraries, but just in case...)

When installing the libraries, this procedure automatically renames the old libraries to clear the way for creating the new ones, as shown in the table below.

Library...	...is renamed to:
TURNOVER® Lifecycle Manager Data Library (usually SOFTTURND)	TODTAnnnnn
TURNOVER® Lifecycle Manager Language Library (usually SOFTTURNL)	TOLNGnnnnn
TURNOVER® Lifecycle Manager Product Library (usually SOFTTURNP)	TOPRDnnnnn

where *nnnnn* is usually 00001. (If you have the renamed libraries from any other previous upgrades left on your system, this number will vary depending on how many times you have upgraded without removing the libraries.)

After you have migrated your own objects (exit programs and so forth) to the new release libraries, you can backup the renamed libraries and delete them. We strongly urge you to backup these libraries before deleting them!

The automatic analysis that occurs when you run the M4SYS/M4LODRUN command determines that you are applying an upgrade, and asks you to confirm the name of your product library. Then you see this panel:

```
MM/DD/YY 11:06:15 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 2 of 3                                     System: YOURSYS
                                                Profile: QSECOFR

Confirm upgrade of environments:
  A previous version of TURNOVER® Lifecycle Manager was found in
  the environment(s) listed below. Press Enter to upgrade those environments
  within the existing library structure. If you want to test this new release
  before switching over, then specify alternate, non-existing, library names
  to install into.
  The upgrade process can migrate your existing TURNOVER® Lifecycle Manager
  applications, projects, etc. to aid in your testing of the new release.
  When you are finished with your testing, you can then migrate just your
  object history to complete the transition to the new release.

2=Change libraries    4=Do not upgrade environment    6=Restore to defaults
      Product      Language    Data      Copy Data
      Environment  Library    Library   Library   Option
___  ENGLISH      SOFTTURN   SOFTTURN  SOFTTURND *ALL

Bottom

F3=Exit  F12=Cancel  F21=System command  ENTER=Continue
```

- 1 On the Confirm Upgrade panel, you can omit one or more environments from the upgrade process using option 4.

Note If you do this, you cannot upgrade them later.

- 2 Press Enter.

The Job parameters panel appears.

```
MM/DD/YY 11:07:35 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 3 of 3                                     System: YOURSYS
                                                Profile: QSECOFR

Job parameters:
Specify the environment in which to run the install process. If you specify
batch installation, you will be prompted for the SBMJOB command, where you
can specify the job queue, job description, date/time etc.

Installation execution environment . . .: B  B=Batch, I=Interactive

F3=Exit  F12=Cancel  F21=System command  ENTER=Continue
```

- 3 Specify B for batch, and then press Enter.

The installation program checks if there are any objects in the TURNOVER® Lifecycle Manager libraries that can prevent the upgrade from continuing. If there are, the Work with Library Objects panel appears.

```
MM/DD/YY          Work with Library Objects          YOURSYS
11:20:50

Warning: Objects exist which will prevent the install from renaming
         the existing TURNOVER libraries.  These objects must be
         removed (DELETED or MOVED) before the install can proceed.

5=Work with Object  6=Work with Objects using PDM

  Object      Library   Type      Description
--  -
  SOFTTURN    SOFTTURN  *DTADCT   Data Dictionary
  SOFTTURN    SOFTTURN  *JRN      SOFTTURN Journal
  SOFTRCV     SOFTTURN  *JRNRCV   Journal Receiver
  SOFTTURN    SOFTTURN  *SQLPKG   SQL Package

Bottom

F3=Exit  F5=Refresh  F12=Cancel  F21=Command line
```

These kinds of objects should never be stored in your TURNOVER® Lifecycle Manager product libraries.

Do one of the following:

- To move or delete the objects, use the options on the panel.
- To stop the upgrade process, press F3 or F12.

4 The installation process checks for locks on your TURNOVER® Lifecycle Manager libraries.

If there are any locks, the Work with Library Locks panel appears.

```
MM/DD/YY          Work with Library Locks          YOURSYS
11:25:30

Warning: The TURNOVER® Lifecycle Manager libraries listed below have object
         locks which may prevent them from being renamed or updated during
         the install.
         Review and remove all locks before proceeding.

Note: Use F10 to bypass these locks if you are going to submit
      this process to run at a later time.  You must ensure
      there will be no locks at that time.

5=Work with Object Locks

  Object      Library   Type
--  -
  SOFTTURN    QSYS      *LIB      2 locks found
  SOFTTURN     QSYS      *LIB      1 locks found
  SOFTTURNND  QSYS      *LIB      1 locks found

Bottom

F3=Exit  F5=Refresh  F10=Bypass Lock Checks  F12=Cancel  F21=Command line
```

Do one of the following:

- Delete all locks by using the options on the panel.
- Press F10 to bypass the locks, and then schedule the batch job for a time when there are no locks.

Press Enter to continue.

The Submit Job (SBMJOB) panel appears.

Submit Job (SBMJOB)

Type choices, press Enter.

Command to run	>	CALL PGM(TOUPGRADE) PARM('5' '3.0' 'SOFTTURN')	
Job name	>	TOUPGRADE	Name, *JOB
Job description	>	*USRPRF	Name, *USRPRF
Library			Name, *LIBL, *CURLIB
Job queue	>	*JOB	Name, *JOB
Library			Name, *LIBL, *CURLIB
Job priority (on JOBQ)		*JOB	1-9, *JOB
Output priority (on OUTQ)		*JOB	1-9, *JOB
Print device		*CURRENT	Name, *CURRENT, *USRPRF...
Output queue		*CURRENT	Name, *CURRENT, *USRPRF...
Library			Name, *LIBL, *CURLIB

More...

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

- 5 Change any batch job parameters as needed, and then press Enter to submit the job.
- 6 You will see a confirmation panel showing the result of the installation, if performed interactively, or confirming submission to batch. You can now exit out of the M4LODRUN command with F3.
- 7 If the installation was submitted to batch, verify that the TOUPGRADE job completes normally. If it does not, refer to the section 'What if the upgrade did not complete successfully?' at the end of this chapter.
- 8 If TURNOVER® Lifecycle Manager is installed into an iASP, or if you distribute to another computer where TURNOVER® Lifecycle Manager is installed into an iASP, see ['iASP configurations' on page 47](#).

Applying the license file

Refer to Chapter 6 ['Authorizing products' on page 31](#) to check and apply your license file.

Upgrading to a test environment

This section describes how to upgrade to a test environment, where you can try TURNOVER® Lifecycle Manager before upgrading your live environment.

Using a test environment

Use the test environment only for trying out new features. You cannot merge anything that you do in the test environment with your live data. When you activate the new release, the test data is deleted.

To create a *permanent* test environment, see *'Using a permanent TURNOVER® Lifecycle Manager testing environment' on page 44.*

Typical upgrade-to-test scenario

A typical upgrade to test happens in three phases.

- 1 The upgrade procedure copies your setup and data from your live environment into your test environment.
- 2 In phase 2, you simultaneously run two independent versions of TURNOVER® Lifecycle Manager:

- the test version, for trying out new features and experimenting.

Test the new software using sample projects, applications, and data that, as closely as possible, resemble your live operating environment.

- the live version, for continuing with your real work.

Do not use the test version for real work, because the its data cannot be transferred to the live version.

- 3 In phase 3, you apply the upgrade to your live system after your testing is completed.

Make any adjustments that are necessary, as indicated by your testing.

When you are satisfied that things are going according to plan, back up your old version libraries, and then delete them.

During the upgrade, TURNOVER® Lifecycle Manager renames your libraries to prepare for creating new libraries. You should back up and delete these renamed libraries.

The environment still exists, with its own product, data, and language libraries. You can either:

- back up the test environment, and then delete it
- keep the test environment for testing all TURNOVER® Lifecycle Manager PTFs and upgrades before applying them to the live system. For more information, see *'Using a permanent TURNOVER® Lifecycle Manager testing environment' on page 44.*

Upgrading to test

- 1 Select your TURNOVER® Lifecycle Manager environment record with option 2 to change the library and indicate whether data from your live environment should be copied. Press Enter. This panel appears:

```

Change Upgrade Options for Environment: TESTENV

Library naming rules:
If you do not wish to just upgrade on-top of your existing installation then
keep the following rules in mind. In order to have two working versions of
the product, you must specify a new name for each of the three library names.
The library should not exist, but you can use the same library for each of
the values. If you have multiple environments, then you must either upgrade
all of them in-place, or into new libraries. Also, any library changes you
make here will be rippled through to your other environments.

Data Copying:
*ALL - Specify this value to migrate all of your data. You should do this
      if you are upgrading within existing libraries.
*NONE - Specify this value to migrate no data. Use this to test with a
        clean version of the product. UPGTODB command can be used later.
*DFTS - Specify this value to migrate all of your setup data: Applications,
        Projects, authorities etc. This will allow you to test with your
        current setup and make adjustments to take advantage of new features.
        When you have concluded testing you can migrate your history using
        the UPGTODB command.

More ...

F3=Exit F12=Cancel F21=System command

```

2 Press Page Down.

```

Change Upgrade Options for Environment: TESTENV

Product library . . . . . : SOFTTEST      library name
Language-objects library . . . . . : SOFTTESTE  library name
Data-objects library . . . . . : SOFTTESTD  library name
Data copy option . . . . . : *DFTS          *ALL, *NONE, *DFTS

Bottom

F3=Exit F12=Cancel F21=System command

```

3 Set these values. (The default values are for upgrading over an existing release.)

Field	Value
Product library	SOFTTEST or your own test product library name
Language objects library	SOFTTESTE or your own test language object library name
Data objects library	SOFTTESTD or your own test data library name
Data copy option	To copy data from the live version, specify *DFTS. To create an empty system, with not data, specify *NONE. Do not use *ALL when upgrading to test!

If your live version of TURNOVER® Lifecycle Manager is in a single library, you can also use a single library for your testing: just make sure it is different from the live version.

4 Press Enter twice to go to the Job parameters panel.

```
MM/DD/YY 11:15:35  TURNOVER® Lifecycle Manager Installation  Your Company, Inc.
Panel:  3 of 3                                           System:  YOURSYS
                                                    Profile: QSECOFR

Job parameters:
Specify the environment in which to run the install process.  If you specify
batch installation, you will be prompted for the SBMJOB command, where you
can specify the job queue, job description, date/time etc.

Installation execution environment  . . .: B   B=Batch, I=Interactive

F3=Exit   F12=Cancel  F21=System command  ENTER=Continue
```

5 Leave the value set to B, and then press Enter.

The Submit Job panel appears so you can change any of the parameters.

```
Submit Job (SBMJOB)

Type choices, press Enter.

Command to run . . . . . > CALL PGM(TOUPGRADE) PARM('5' '3.0' 'SOFTTURN')
Job name . . . . . > TOUPGRADE      Name, *JOBID
Job description . . . . . > *USRPRF   Name, *USRPRF
  Library . . . . .      _____ Name, *LIBL, *CURLIB
Job queue . . . . . > *JOBID        Name, *JOBID
  Library . . . . .      _____ Name, *LIBL, *CURLIB
Job priority (on JOBQ) . . . . . *JOBID      1-9, *JOBID
Output priority (on OUTQ) . . . . . *JOBID      1-9, *JOBID
Print device . . . . .      *CURRENT   Name, *CURRENT, *USRPRF...
Output queue . . . . .      *CURRENT   Name, *CURRENT, *USRPRF...
  Library . . . . .      _____ Name, *LIBL, *CURLIB

More...

F3=Exit   F4=Prompt   F5=Refresh   F10=Additional parameters   F12=Cancel
F13=How to use this display   F24=More keys
```

6 Change any batch job parameters as needed; then press **Enter** to submit the job.

7 You will see a confirmation panel showing the result of the installation, if performed interactively, or confirming submission to batch. You can now exit out of the M4LODRUN command with F3.

If the installation was submitted to batch, verify that the TOUPGRADE job completes normally. If it does not, refer to the section *'What if the upgrade did not complete successfully?'* at the end of this chapter.

Note Leave the TLM2XINST library on your system until after you have applied the upgrade to your live version of TURNOVER® Lifecycle Manager.

- 8 If TURNOVER® Lifecycle Manager is installed into an iASP, or if you distribute to another computer where TURNOVER® Lifecycle Manager is installed into an iASP, see '[Possible iASP configuration](#)' on page 47.

Accessing the test version

This procedure changes the user profile TURNOVER and the TURNOVER® Lifecycle Manager commands in QGPL to point to your test version. Before proceeding, manually change these to point back to your working version.

You can now access the test version and start the sampling.

- 1 Sign on as a user already enrolled in your previous version of TURNOVER®.
- 2 Type the command SOFTTESTE/TURNOVER to access the new release of TURNOVER® Lifecycle Manager.
- 3 If the following panel appears, then you have not yet applied the necessary license file.

```

.....
:                               License File Has Expired                               :
:                                                                                       :
: Your license file has expired or has never been entered.                           :
:                                                                                       :
: Call (603) 924-8818 to receive a new file.                                         :
:                                                                                       :
: Thank you.                                                                           :
:                                                                                       :
: Press Enter to continue . . . F3 to Exit                                           :
:.....

```

You may need to contact your UNICOM Systems, Inc. Sales Assistant or International Agent now to obtain your license file. If you press Enter, this runs the TWRKLIC (TURNOVER® Lifecycle Manager Work with Licenses) command, which will confirm your license status, and provide all the necessary system information for a license file to be generated.

For a complete description of the process of applying a license file, see '[Authorizing products](#)' on page 31.

If you have applied your license file, the TURNOVER® Lifecycle Manager Main Menu appears. You are ready to continue using TURNOVER® Lifecycle Manager.

Activating the new release after testing

When you have determined how to implement the new release, you can convert all of your live TURNOVER® Lifecycle Manager data to the new release and start using it.

- 1 Make sure that:
 - no TURNOVER® Lifecycle Manager forms are running or waiting in the job queue
 - no TURNOVER® Lifecycle Manager distribution jobs are running or waiting in the job queue

- no one is working in any TURNOVER® Lifecycle Manager function.
- 2 Sign on as QSECOFR.
 - 3 On the command line, type `GO TLM2XINST/INSTALL`, and then press Enter.

The Installation menu appears.
 - 4 Select option 1.
 - 5 Follow the instructions for *'Upgrading over an existing release' on page 20*; then return here and continue.
 - 6 Copy or move any of your own objects (for example, exit programs) that are in TURNOVER® Lifecycle Manager libraries from the old libraries to the new libraries.
 - 7 Change the TURNOVER® Lifecycle Manager settings and definitions according to what your testing indicated is necessary to use the new features and functions.
 - 8 Back up your product, data, and language libraries for the previous release: `TOPRDnnnnn`, `TODTAnnnnn`, and `TOLNGnnnnn`, and then delete them.
 - 9 Back up the libraries you used for testing.
 - 10 You can either delete these after backup, or keep them on your system as a permanent test version, where you can apply and test all future PTFs and upgrades before going live with them.
 - 11 Make sure that the `TURNOVER` user profile points to the live production libraries, and not the test ones.

TURNOVER® Lifecycle Manager is now activated in your live environment and ready for use.

What if the upgrade did not complete successfully?

If the upgrade was unsuccessful, before attempting to run it again, first examine the job log and use the information to resolve the issue.

If the upgrade was for immediate use or to test, and it was performed interactively, it will need to be repeated using the `M4SYS/M4LODRUN` command.

If the upgrade was submitted to batch, including if you were going live with a new version after testing, the upgrade can be repeated either through use of `M4SYS/M4LODRUN` or from the `INSTALL` menu in the `TLM2XINST` installation library. For details of this alternative installation procedure, see *'Restarting the installation procedure' on page 36*.

Post-upgrade checks

Upon completion of the upgrade process, you should check the authority of the TURNOVER® product libraries is set in accordance with the UNICOM recommendation of *PUBLIC *USE:

- SOFTTURN
- SOFTTURN D
- SOFTTURN E

Similarly, you should also ensure that the authority of the TURNOVER job description is also set to *PUBLIC *USE.

6 Authorizing products

Use of all UNICOM Systems, Inc. products for IBM i is controlled by a license file that is supplied by Customer Services. This section describes how to check your license file, and then link it to the associated product.

Checking and applying license files

Before applying a new license file, check that it is valid for the system on which you want to use it.

- 1 Take a backup copy of your most recent license file.
- 2 Change the name of the new license file to a name such as `license.new`.
- 3 Copy the new license file to where you want to store it:
 - The default location is `/home/unicom/licenses/xxx/`, where `xxx` is the product code.
 - To use a different folder to store the license file (or if you have already changed it and want to find out what it is), use the `M4SYS/M4DSPPRD` command, and then select option 8 for the product.
- 4 Repeat steps 1– 3 for all the products for which you have a license file.
- 5 Invoke the `M4SYS/M4VFYLIC` command, and then press F4.
This can also be invoked from the `M4DSPPRD` panel option 7.

Verify license file (M4VFYLIC)		
Type choices, press Enter.		
Product code	*ALL	Character value, *ALL...
Version	*LATEST	Character value, *LATEST
License file	*NEW	
Feature code	*NONE	
Replace license file	*YES	*YES, *NO
New license file name	*DFT	
Bottom		
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display		
F24=More keys		

- 6 Do one of the following actions:

- If you are applying a license for one product, enter the product code.
 - If you are applying license files for two or more products, leave the product code set to *ALL.
- 7 Leave the Version, License file, and Feature code set to their default values (*LATEST, *NEW, and *NONE respectively).
- 8 Do one of the following actions:
- To replace the old license files with the new ones, if they are verified as valid, set Replace license file to *YES. The old license files are renamed to `license.yyyy-mm-dd-hh.mm.ss.nnn000.bak`.
 - To only check that the new license files are valid, set Replace license file to *NO.
- 9 If you changed the name of the new license files to anything other than `license.new`, set License file name to the new name. (*DFT uses the default value of `license.new`).

Displaying product authorization details

- 1 Type the following command, and then press `Enter`:

```
M4SYS/M4DSPPRD PRODCD (xxx)
```

where `xxx` is the product code.

The 'Product Details' screen is displayed.

- 2 Select option 6.

The license file is displayed (see below).

- 3 If required, do one of the following actions:

To	Do this
verify a new license file	Select option 7.
store the license file in a different folder	Select option 8, and then type the folder path and filename. Make sure that you put the license file in this folder; it will not be moved automatically.

Example extract from a license file

```
[UNICOM Systems, Inc. License]
WARNING: unauthorised editing of this file will prevent products from running.

[Main]
Licensee=Company name
License Commencement Date=dd/mm/yyyy
License Expiry Date=dd/mm/yyyy

[License Manager]
Allowed Hosts=serial1,serial2
Allowed MAC Addresses=All
Allowed OS=V6R1M0
Allowed Models=525
Allowed Features=All
Allowed Groups=All
```

- The license file contains information such as when the license starts and ends; and the server serial number, OS version, server models and feature codes for which it is valid.
- Dates are in day/month/year format.
- Some terminal emulators can not display the square brackets [and] correctly. Do not change the characters; the license validation process can read them correctly, however they appear on screen.

Changing the location of license files

- 1 To change the folder in which a license file is stored, use the `M4SYS/M4CHGLIC` command, and then specify the product code, version identifier, and the folder path.
- 2 Copy the license file to the new folder.

7 Additional installation information

See

'Installation menu' on page 35

'Restarting the installation procedure' on page 36

'Applying license files' on page 36

'Changing the system startup program to start the TSERVER subsystem' on page 37

'Loading TURNOVER® Lifecycle Manager at a hot site' on page 39

'Using national language libraries' on page 40

'Using multiple TURNOVER® Lifecycle Manager data libraries' on page 40

'Maintaining the TURNOVER® Lifecycle Manager's environment file' on page 41

'Impact of multiple environments on change distribution' on page 43

'Effect of the IBM i operating system level on distribution' on page 44

'Using a permanent TURNOVER® Lifecycle Manager testing environment' on page 44

'Removing TURNOVER® Lifecycle Manager' on page 46

Installation menu

To access the installation menu, type GO TLM2XINST/INSTALL.

INSTALL	TURNOVER® Lifecycle Manager Installation Menu	System: YOURSYS
Select one of the following:		
1. Install TURNOVER® Lifecycle Manager Objects 2. Send TURNOVER® Lifecycle Manager Objects 4. View Installation History Log 7. Work with Distribution Queues 8. Work with Network Files 10. Install Secondary Language		
Selection or command		Bottom
===> _____		
F3=Exit	F4=Prompt	F6=Display messages
F13=Information assistant	F14=Work with submitted jobs	F9=Retrieve
		F12=Cancel
		F24=More keys

This menu enables you to install TURNOVER® Lifecycle Manager on your systems, as well as some other useful features. Different options appear under different circumstances.

1: Install TURNOVER® Lifecycle Manager Objects

Installs the TURNOVER® Lifecycle Manager product for the first time, to install a new release of TURNOVER® Lifecycle Manager.

For more information, see *'Getting started with an installation or upgrade on a single IBM i server' on page 10*.

2: Send TURNOVER® Lifecycle Manager Objects

Sends the TURNOVER® Lifecycle Manager software or changes to other compatible systems.

The TLM2XINST library is saved and sent to designated systems.

7: Work with Distribution Queues

Checks the distribution queue to see data has been sent.

8: Work with Network Files

If you are on a computer to which you have sent the TURNOVER® Lifecycle Manager product or changes, use this option to work with the network files for the target user.

10: Install Secondary Language

Installs additional national languages.

Restarting the installation procedure

This procedure assumes that you have already successfully restored the installation library by using the M4SYS/M4LODRUN command, but that the submitted or automated interactive installation had to be cancelled or did not complete properly. If you have not run M4SYS/M4LODRUN yet, turn to the chapter that corresponds with the kind of install you are doing and follow the instructions there.

If you interrupted the automated installation procedure or it was not successful, you can restart it at any time. Follow these instructions:

- 1 Sign on as QSECOFR.
- 2 Type `GO TLM2XINST/INSTALL`, and then press Enter.

The Installation menu appears.

- 3 Select option 1 to restart the installation job.

More information

To	See
install TURNOVER® Lifecycle Manager for the first time	<i>‘Installing for the first time’ on page 12</i>
upgrade TURNOVER® Lifecycle Manager to a new release	<i>‘Upgrading to a new release’ on page 18</i>

Applying license files

This topic describes the TURNOVER® Lifecycle Manager Work with Licenses (TWRKLIC) command and the Display Products (M4SYS/M4DSPPRD) commands. Use this information if you are:

- Installing TURNOVER® Lifecycle Manager for the first time (*[‘Installing for the first time’ on page 12](#)*).
- Upgrading to a new release (*[‘Upgrading to a new release’ on page 18](#)*).

The TWRKLIC command runs automatically when you try to start TURNOVER® Lifecycle Manager under an expired license file. (The product is shipped expired, so that you must apply a license file to begin use.) A notification panel appears, indicating license file expiry. When you press Enter, the Work with Licenses panel appears.

```

09:35:00                                Work with Licenses
MM/DD/YY

To receive a product license, the following information is required:

    1. Partition serial number, as shown
    2. Operating system
    3. Server model
    4. Processor feature
    5. Processor group

Press F8 to view these values for this partition or system.

Product                                Expires    Users      Install Version
TURNOVER® Lifecycle Mgr Dev             MM/DD/YY  Unlimited  2.1002B
TURNOVER® Helpdesk (Eclipse)           MM/DD/YY  Unlimited
TURNOVER® Helpdesk (Browser)           No code
TURNOVER® SVN                          MM/DD/YY  5
TURNOVER® for LANSA                     No code
TURNOVER® for CA 2E                     No code
TURNOVER® for ProGen Plus               No code

Bottom

F3=Exit  F5=Refresh  F12=Cancel  F21=Command line
  
```

You can see the current status and expiry date(s) of your license estate for TURNOVER® Lifecycle Manager and its interface products on this system. (Different products might display different fields.)

Changing the system startup program to start the TSERVER subsystem

You can change your system startup program so that the TSERVER subsystem is automatically started after an IPL.

- 1 Determine the name of the system startup program:

```
DSPSYSVAL QSTRUPPGM
```

This command shows the name and library where the startup program resides.

- 2 Find the program source:

```
TDSPOBJD OBJ(library/program) OBJTYPE(*PGM)
```

- 3 Edit the source, and then recompile it.

Example system startup program

In the example system startup program below, **bold** indicates lines that have been added to the IBM defaults.

This code is provided only as an example, and is not intended for you to copy and use.

```

/*****/
/*
/* 5716SS1 V7R1M0 961108      RTVCLSRC Output      MM/DD/YY 13:30:30  */
/*
/* Program name . . . . . : QSTRUP      PN*/
/* Library name . . . . . : QSYS        PL*/
/* Original source file . . . . . :      SN*/
/* Library name . . . . . :      SL*/
/* Original source member . . . . . :      SM*/
/* Source file change
/*   date/time . . . . . :      SC*/
/* Patch option . . . . . : *NOPATCH    PO*/
/* User profile . . . . . : *USER      UP*/
/* Text . . . :      TX*/
/* Owner . . . . . : QSYS      OW*/
/* Patch change ID . . . . . :      PC*/
/* Patch APAR ID . . . . . :      PA*/
/* User mod flag . . . . . : *NO      UM*/
/*
/*****/
PGM
DCL VAR(&STRWTRS) TYPE(*CHAR) LEN(1)
DCL VAR(&CTLSBSD) TYPE(*CHAR) LEN(20)
DCL VAR(&CPYR) TYPE(*CHAR) LEN(90) VALUE('5716-SS1 (C) COPYRIGHT-
IBM CORP 1980, 1996. LICENSED MATERIAL - PROGRAM PROPERTY OF IBM')
QSYS/STRSBS SBSD(QSPL)
MONMSG MSGID(CPF0000)
QSYS/STRSBS SBSD(QSERVER)
MONMSG MSGID(CPF0000)
QSYS/RLSJOBQ JOBQ(QGPL/QS36MRT)
MONMSG MSGID(CPF0000)
QSYS/RLSJOBQ JOBQ(QGPL/QS36EVOKE)
MONMSG MSGID(CPF0000)
QSYS/STRCLNUP
MONMSG MSGID(CPF0000)
QSYS/RTVSYVAL SYSVAL(QCTLSBSD) RTNVAR(&CTLSBSD)
IF COND((&CTLSBSD *NE 'QCTL QSYS ') *AND (&CTLSBSD *NE-
'QCTL QGPL ')) THEN(GOTO CMDLBL(DONE))
QSYS/STRSBS SBSD(QINTER)
MONMSG MSGID(CPF0000)
QSYS/STRSBS SBSD(QBATCH)
MONMSG MSGID(CPF0000)
QSYS/STRSBS SBSD(QCMN)
MONMSG MSGID(CPF0000)
DONE:
QSYS/RTVSYVAL SYSVAL(QSTRPRTWTR) RTNVAR(&STRWTRS)
IF COND(&STRWTRS = '0') THEN(GOTO CMDLBL(NOWTRS))
MONMSG MSGID(CPF0000)
CALL PGM(QSYS/QWCSWTRS)
MONMSG MSGID(CPF0000)
NOWTRS:
QSYS/DLYJOB DLY(300)
MONMSG MSGID(CPF0000)
QSYS/STRTCP STRSVR(*YES)
MONMSG MSGID(CPF0000)
QSYS/DLYJOB DLY(300)
MONMSG MSGID(CPF0000)
QSYS/STRHOSTSVR SERVER(*ALL)
MONMSG MSGID(CPF0000)
QSYS/STRSBS QGPL/TSERVER
MONMSG MSGID(CPF0000)
RETURN
CHGVAR VAR(&CPYR) VALUE(&CPYR)
ENDPGM

```

Loading TURNOVER® Lifecycle Manager at a hotsite

This procedure enables you to install TURNOVER® Lifecycle Manager temporarily on a backup computer.

You can use TURNOVER® Lifecycle Manager on backup computers only temporarily, for testing emergency procedures, or in case of a real emergency. If you are testing your emergency procedures, contact UNICOM Systems, Inc. for an authorization code prior to doing your test.

- 1 Backup all TURNOVER® Lifecycle Manager libraries.
- 2 Get an authorization code.
- 3 Sign on as QSECOFR.
- 4 Restore the TLM2XINST library. Type:

```
RSTLIB TLM2XINST DEV(*SAVF) SAVF(QGPL/TLM2XINST)
```

- 5 On the backup hotsite computer, create a user profile called TURNOVER.
- 6 Enter these commands to restore TURNOVER® Lifecycle Manager libraries from your backup media to the backup computer:

```
RSTLIB SOFTTURN DEV(device) MBROPT(*ALL) ALWOBJDIF(*ALL)
```

```
RSTLIB SOFTTURND DEV(device) MBROPT(*ALL) ALWOBJDIF(*ALL)
```

```
RSTLIB SOFTTURNE DEV(device) MBROPT(*ALL) ALWOBJDIF(*ALL)
```

```
RSTLIB ARCHIVESRC DEV(device) MBROPT(*ALL) ALWOBJDIF(*ALL)
```

```
SETTOAUTH SCOPE(*ALL)
```

The SETTOAUTH command sets TURNOVER® Lifecycle Manager object authorities to their proper values.

- 7 If any of your TURNOVER® Lifecycle Manager applications are set up to use stream file source code or manage IFS (Integrated File System) objects, then save and restore the entire /TURNOVER folder structure also.
- 8 To access the TURNOVER® Lifecycle Manager Main Menu, type TURNOVER.
- 9 TURNOVER® Lifecycle Manager will notify you in the absence of a valid license file. Please apply the file you have been provided with and complete option 6 again. (Call UNICOM Systems, Inc. if you have any difficulty.)

Using national language libraries

TURNOVER® Lifecycle Manager manages its product libraries by using the environment file.

The language library contains national language-specific objects such as printer files, help text, and commands; and the name of the language message file TURNOVER® Lifecycle Manager should use. The message files are in the `SOFTTURN` product library.

If you have more than one language library and language message file installed, you can switch between them; different users can use different languages at the same time.

For each language installed, you must have at least one environment record. When you change from one language to another, TURNOVER® Lifecycle Manager refers to the environment file to determine the language library and message file name it should use.

For example, if you have three language libraries loaded, you have three environment records:

	Record 1	Record 2	Record 3
Environment	ENGLISH	FRCANADA	GERMAN
Product library	SOFTTURN	SOFTTURN	SOFTTURN
Data library	SOFTTURND	SOFTTURND	SOFTTURND
Language library	SOFTTURNE	SOFTTURNF1	SOFTTURNG
Message file	TNLENGL	TNLFR037	TNLGERM

In addition to the environment file, there is a *user environment file*. This contains a record for each user that indicates the last environment used. To change the language, select F22 on the TURNOVER® Lifecycle Manager main menu.

Using multiple TURNOVER® Lifecycle Manager data libraries

You can use multiple data libraries. This might be useful when, for example:

- Two different development groups use TURNOVER® Lifecycle Manager on two different computers. Each might have set up various product defaults and options separately, and then, later, merged the two groups together onto one computer.
- Two different development groups maintain different products autonomously, but on the same computer.
- You decide that two or more groups should be managed separately for security or performance reasons, using different TURNOVER® Lifecycle Manager product data libraries.

You can either duplicate the TURNOVER® Lifecycle Manager data library, `SOFTTURND`, or reload the empty version from the distribution media, and then create the appropriate environment record.

To create more than one TURNOVER® Lifecycle Manager environment on your computer, you can reinstall the TURNOVER® Lifecycle Manager data library from the install library, and then add new environment records.

For example, if you have one group maintaining in-house systems and one group maintaining the SW2000 software product, you can create two environments:

	Record 1	Record 2
Environment	INHOUSE	S2K
Product library	SOFTTURN	SOFTTURN
Data library	SOFTTURND	SOFTTURNS2
Language library	SOFTTURNE	SOFTTURNE
Message file	TNLENGL	TNLENGL

Maintaining the TURNOVER® Lifecycle Manager's environment file

- 1 Sign on as user `QSECOFR`.
- 2 On the command line, type `WRKTOENV`.

You can display, add or change the environment records. Make sure that you have the libraries on your system that are referenced in this file.

- 3 To change an environment, select it with option 2 (Change).

The Change an Environment panel appears.

MM/DD/YY 16:32:38	Change an Environment	Your Company, Inc. YOURSYS
Type required Environment information and press Enter.		
Environment	ENGLISH	
Description	<u>English Production Version</u>	
Product library	SOFTTURN	
Data library	<u>SOFTTURN</u>	Name
Language library	<u>SOFTTURN</u>	Name
Message file	<u>TNLENG</u>	Name
Coded character set ID	_____	
Additional environment libraries		

F3=Exit F12=Cancel		

Changing environments

When you change environments, TURNOVER® Lifecycle Manager changes your library list to the libraries related to the environment you want to use. Additional libraries can be included in the environment definition. If you want to change the **Coded character set ID** when you change environments (and if your system supports it), include the appropriate CCSID as well.

- The data environment file is called `TENVF`.
- The user environment file is called `TUSRENVF`.

These are the only data files that are in the TURNOVER® Lifecycle Manager product library; all other data files are in the TURNOVER® Lifecycle Manager data library.

If you load additional language libraries or decide to use more than one TURNOVER® Lifecycle Manager data library, you must create additional environment records:

- Check the job descriptions `TURNOVER`, `TURCRARE`, `TOMSGRCV`, and `TURNESCQ` to make sure their initial library lists contain the appropriate library names for the environments to which they apply, and that they do not contain names of any non-existent libraries.
- Update the commands in the TURNOVER® Lifecycle Manager type code file that specify library `SOFTTURN`, to point to the new language library.
- Update the TURNOVER® Lifecycle Manager commands in QGPL that specify library `SOFTTURN` to point to the new language library.

If you are using more than one environment, you might want to create a menu to access the appropriate version of TURNOVER® Lifecycle Manager, or use a menu system such as SoftMenu.

Impact of multiple environments on change distribution

Multilingual environment

If you have multiple language environments defined on your development computer, you have to define multiple language environments on your production computers only if you need multilingual support there. TURNOVER® Lifecycle Manager uses a default environment record to determine library names. Your changes are processed correctly.

However, if you do have multiple language environments defined on your production computers, the environment names must match those on the development computer. TURNOVER® Lifecycle Manager refers to the matching environment record, uses the appropriate libraries, and maintains its job log in the same language as the original distribution.

Multidata library environment

If you have defined multiple data environments with more than one TURNOVER® Lifecycle Manager data library on your development computer, you must have matching environments defined on the production computers; however, it is not necessary that they use different TURNOVER® Lifecycle Manager data libraries. For example, suppose you have defined these environments on your development computer:

	Record 1	Record 2
Environment:	INHOUSE	S2K
Product Library:	SOFTTURN	SOFTTURN
Data library:	SOFTTURND	SOFTTURNS2
Language library:	SOFTTURNE	SOFTTURNE
Message file:	TNLEGL	TNLEGL

Your production computer environments might look like this:

	Record 1	Record 2
Environment:	INHOUSE	S2K
Product Library:	SOFTTURN	SOFTTURN
Data library:	SOFTTURND	SOFTTURND
Language library:	SOFTTURNE	SOFTTURNE

	Record 1	Record 2
Message file:	TNLENGL	TNLENGL

Important If you are distributing from two different TURNOVER® Lifecycle Manager data library environments to the same production computers defined with a *single environment*, make sure that each environment on the development system uses a different range of TURNOVER® Lifecycle Manager form numbers to avoid duplication. TURNOVER® Lifecycle Manager does not process a duplicate form number on a remote Production computer. For more information, see TURNOVER® Lifecycle Manager form numbers' in the *TURNOVER® Lifecycle Manager User Guide*.

Effect of the IBM i operating system level on distribution

No special instructions are required when you update the IBM i operating system to a new release.

However, if you distribute changes to one or more other computers, and you upgrade your development computer to a higher operating system release than your production computers, you must set the create command's target release (TGTRLS) parameter to *PRV or to the appropriate version release code for program, module, and service program object types; likewise for TURNOVER® Lifecycle Manager's global defaults.

- To set the TGTRLS for your type codes, use main menu option 8, option 4.
- To set TURNOVER® Lifecycle Manager's global defaults, use main menu option 8, option 5.

Using a permanent TURNOVER® Lifecycle Manager testing environment

In an environment with a complex network, environment, exit program, and/or distribution arrangements, you might want to keep a separate installation of TURNOVER® Lifecycle Manager for testing purposes.

You can use this installation to test new TURNOVER® Lifecycle Manager versions before applying them to your live environments.

A test installation of TURNOVER® Lifecycle Manager has its own product, data, and language library and functions, which are separate from your daily working system.

To set up a permanent TURNOVER® Lifecycle Manager test environment

- 1 Type GO TLM2XINST/INSTALL, and then press Enter.

The Installation menu appears.

- 2 Select option 1.

TURNOVER® Lifecycle Manager asks you to confirm your product library.

- 3 Press F10.

The TURNOVER® Lifecycle Manager Installation: Introduction panel appears.

- 4 Press Enter.

The Specify libraries for installation panel appears.

```
MM/DD/YY 14:17:03 TURNOVER® Lifecycle Manager Installation   Your Company, Inc.
Panel: 1 of 4                                                System: YOURSYS
                                                            Profile: QSECOFR

Specify libraries for installation:
Specify the libraries for the TURNOVER® Lifecycle Manager product to install
into. These libraries will be created by the install process, and must not
exist. You can install the objects into three different libraries, or any
combination of the same one or two libraries. This format provides
maximum flexibility for your backup procedures, as well as the capability
to support multiple languages and/or data environments.

We recommend that you accept the defaults listed below.

Primary product objects library . . . : SOFTTEST      Name
Data objects library . . . . . : SOFTTESTD      Name
Language dependent objects library . . : SOFTTESTE      Name
Source archive library . . . . . : SOFTTESTA      Name
Auxiliary storage pool for libraries . : 1          1-16

NOTE: The auxiliary storage pool you specify must exist, and have
      at least 300 megabytes of free space.

F3=Exit   F12=Previous panel   F21=System command   ENTER=Continue
```

- 5 Specify the product, data, language, and source archive library names that you want to use for your testing version, for example: SOFTTEST, SOFTTESTD, SOFTTESTE, and SOFTTESTA.

Do not use the default library names: the test version must be in a different set of libraries.

- 6 Follow the onscreen instructions.

Important This procedure changes the user profile TURNOVER and the TURNOVER and STRPWM commands in QGPL to point to the test version; you must change them to point to your working version.

Applying changes and upgrades to a test environment

To apply an upgrade to your test environment first by changing the default product library to your test product library when prompted at the start of the upgrade procedure.

```
MM/DD/YY 14:54:37 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: Product library                               System: YOURSYS
                                                    Profile: QSECOFR

Confirm product library:

The installation program has determined that a version of
TURNOVER® Lifecycle Manager is installed in the library indicated below. If
the library is blank, or incorrect, then specify the library in which
TURNOVER® Lifecycle Manager is installed and press Enter.

Confirm that the library is correct and press Enter to continue the
installation process.

Product library . . . . . : SOFTTEST

NOTE: You must specify a library that contains TurnOver Release 5.3
      or higher. If you are on an earlier release of TurnOver, then
      you must upgrade to TurnOver Release 5.3 before you can continue.

F3=Exit F12=Cancel F21=System command ENTER=Continue
```

Removing TURNOVER® Lifecycle Manager

To remove TURNOVER® Lifecycle Manager from your system, delete the following items *in the order shown*:

- 1 TURNOVER® Lifecycle Manager program, data, language, and source archive libraries (all versions, all environments).
- 2 QGPL commands TURNOVER and STRPWW.
- 3 Autostart job entries for TOMSGRCV, TURCRARE, TURNESCQ, and WISEDESK autostart jobs, if they are associated with a subsystem other than TSERVER.
- 4 All objects in library QGPL named TSERVER (such as SBSD).
- 5 Leftover form libraries, such as archive libraries (TnnnnnnnnD), form distribution libraries (TnnnnnnnnS), form work libraries (TnnnnnnnnW), or archive explode libraries (TnnnnnnnnDnn), if any.
- 6 User profiles TURNOVER, TOMSGRCV, and TURNESCQ.
- 7 The TURNOVER® IFS folder along with any files and sub-directories that exist under that location.

8 iASP configurations

Possible iASP configuration

TURNOVER® Lifecycle Manager allows several possible scenarios for installation of the product libraries:

***SYSBAS only**

The TURNOVER® Lifecycle Manager product, data and language libraries are in the system ASP (ASP1) or in a basic user ASP (ASPs 2 – 32).

This is the only option that allows promotion of objects from one iASP to another (by a level that goes into *SYSBAS).

iASP only

The TURNOVER® Lifecycle Manager product, data and language libraries are all in the same iASP group.

***SYSBAS and iASP**

- The TURNOVER® Lifecycle Manager product library is in the system ASP (ASP 1) or in a basic user ASP (ASPs 2 – 32).
- All data libraries for this TURNOVER installation are in the same iASP group.
- The TURNOVER language library can be in either the same ASP as the TURNOVER product library, or the same iASP group as the data library.

Note All data libraries defined in the TURNOVER® Lifecycle Manager environment must be in the same iASP.

New installation into an iASP

When installing TURNOVER® Lifecycle Manager for the first time, you can specify which ASP device the TURNOVER® Lifecycle Manager libraries are installed into.

- When installing into *SYSBAS, leave the `-or- ASP Device` parameter set to *SYSBAS. All TURNOVER® Lifecycle Manager libraries will be created in the Auxiliary storage pool number specified.

- When installing using configuration options 2 or 3, you must first set the ASP group of your job:

```
SETASPGRP ASPGRP (IASP01)
```

- 1 On the TLM2XINST/INSTALL menu, select option 1.
- 2 On panel 1, specify in the “-or- ASP Device” parameter the ASP device where the TURNOVER® Lifecycle Manager libraries should be created, and then press Enter.

The Install to ASP device column appears.

```
MM/DD/YY 10:00:00 TURNOVER® Lifecycle Manager Installation Your Company, Inc.
Panel: 1 of 4                                           System: YOURSYS
                                                         Profile: QSECOFR

Specify libraries for installation:
Specify the libraries for the TURNOVER® Lifecycle Manager product to install
into. These libraries will be created by the install process, and must not
exist. You can install the objects into three different libraries, or any
combination of the same one or two libraries. This format provides maximum
flexibility for your backup procedures, as well as the capability to
support multiple languages and/or data environments.
We recommend that you accept the defaults listed below.

Primary product objects library . . . : SOFTTURN      Name      Y
Data objects library . . . . . : SOFTTURN      Name      Y
Language dependent objects library . . : SOFTTURN      Name      Y
Source archive library . . . . . : ARCHIVESRC      Name      Y
Auxiliary storage pool for libraries . : 1           1-32
-or- ASP Device. . . . . : IASP01      *SYSBAS, Name
Current ASP group. . . . . : IASP01

NOTE: The auxiliary storage pool you specify must exist and have adequate
      free space. If using an ASP device the current ASP group must be set
      before starting the install. (F3 to exit, then SETASPGRP, then restart)
F3=Exit  F12=Previous panel  F21=System command  ENTER=Continue
```

- 3 Specify where you want the library to be created:

- To create the library in the ASP device, type Y.
- To create the library in *SYSBAS, type N.

Upgrade installation into an iASP

When performing an upgrade process when your TURNOVER® Lifecycle Manager product is already installed into an iASP, you must first set the ASP group of your job, for example:

```
SETASPGRP ASPGRP (IASP01)
```

Then start the installation from M4SYS/M4LODRUN or option 1 of the TLM2XINST/INSTALL menu.

The installation program recognizes that the product is installed in an iASP, and then upgrades accordingly.

Configuring TURNOVER® Lifecycle Manager to use temporary libraries in an iASP

During the form promotion process, TURNOVER® Lifecycle Manager creates some work libraries. These libraries can be created in an iASP by creating and setting the value of a data area.

- 1 Check whether the TTMLIBASP and TTMLIBDEV data areas exist in your TURNOVER® Lifecycle Manager product library.

If not, you must create them:

```
CRTDTAARA DTAARA(SOFTTURN/TTMLIBASP) TYPE(*DEC) LEN(2 0) TEXT('Temp
library ASP (0 = default)')
```

```
CRTDTAARA DTAARA(SOFTTURN/TTMLIBDEV) TYPE(*CHAR) LEN(10 0) TEXT('Temp
library iASP device')
```

- 2 Set the values:

```
CHGDTAARA DTAARA(SOFTTURN/TTMLIBASP *ALL) VALUE(-1)
```

```
CHGDTAARA DTAARA(SOFTTURN/TTMLIBDEV *ALL) VALUE(IASP01)
```

- 3 Specify your ASP device for the value in the TTMLIBDEV data area.

Distribution considerations

When distributing changes to or from a TURNOVER® Lifecycle Manager installation in an iASP, you must specify in the *FTP overrides the iASP device where TURNOVER® Lifecycle Manager is installed.

- 1 On the TURNOVER® Lifecycle Manager main menu, use option 11 to go to the Distribution menu, and then use option 6 to go to Override Network distribution method.
- 2 Find or create the remote system definition, and then specify the “Remote product library iASP” in the field provided.

Change Distribution Method Override		
System name	THERE	
Network distribution method	*FTP	*FTP, *KNET, *CDIRECT
Remote product library	SOFTTURN	*LOCAL
Remote product library iASP.	IASP01	*LOCAL, *SYSBAS, name
Remote data library	SOFTTURN	*LOCAL
Remote language library	SOFTTURN	*LOCAL
Message receive job user profile	TOMSGRCV	*LOCAL
**** FTP-specific values ****		
Remote system address	THERE	
User profile for FTP		
Password for FTP		Confirm . .
Mixed case password.	*NO	
Use Distribution Queues	*NO	*YES, *NO
F12=Cancel		

You must do this on both the sending system to specify the remote computer iASP, and the remote computer to specify the FROM computer iASP.



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