

# **The OLR System<sup>®</sup>**

Release 3.0

## *Maintenance Guide*



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# Chapter 1 Upgrading the OLR System

This chapter provides step-by-step instructions for applying the Release 3.0 upgrade to the OLR System, including the following steps:

- unloading the first dataset
- unloading the rest of the datasets
- linking the OLR load modules
- upgrading the OLR Server database
- setting the system parameters
- updating CICS definitions
- installing the OLR CICS Intercept.

## Overview

This procedure applies if you have already installed the OLR System (OnLine Reference, OnLine Help, and/or OnLine Notepad) Release 2.2.

If you have installed interim updates (DR605S or DR506S), this procedure also applies, but you will bypass steps in the database update procedure.

In following this process to upgrade your OLR System to the DR608I maintenance level you will:

- upgrade the load libraries required to run the OLR System
- upgrade the OLR Server database
- re-bind the OLR System plans
- update the definition of the OLR System in your CICS environment
- upgrade the online help provided about the OLR System to reflect the changes and new features provided with this release
- maintain any OLR user exit program used with the OLR System, or any application program that interfaces with the OLR System

The Release 3.0 upgrade for the OLR System is available on a standard label tape cartridge.

**Call DBASoftware at [510] 521-7300 before starting the installation to discuss installation procedures with DBASoftware technical staff.**

# 1. Unload the first dataset

Create an IEBCOPY job to read the first dataset from the maintenance tape:

```
//JOBNAME JOB 'OLRCOPY',CLASS=X,MSGCLASS=X
//OLRCOPY PROC TAPUNIT='CTAPE',
//          OLRTVOL='DR608I',
//          OLRPDS='YOUR.DBAOLR.CNTL',
//          OLRDVOL='XXXX',
//          DUNIT='DISK',
//          SYSOUT='*'
//*
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=&SYSOUT
//INTAPE DD DSN=DBAOLR.INSTALL.TAPEF01,DISP=(OLD,PASS),
//          UNIT=&TAPUNIT,
//          VOL=SER=&OLRTVOL,
//          LABEL=(1,SL)
//OUTPDS DD DSN=&OLRPDS,DISP=(NEW,CATLG,DELETE),
//          UNIT=&DUNIT,
//          VOL=SER=&OLRDVOL,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120),
//          SPACE=(3120,(65,30,5),RLSE)
//*
// PEND
//RUN EXEC OLRCOPY
//STEP1.SYSIN DD *
COPY OUTDD=OUTPDS,INDD=INTAPE
/*
```

**1A. Edit the job card and proc statement to conform to your site naming standards.**

**1B. Run the job.**

The resulting CNTL dataset will contain the member DBXUNLDM used for unloading the remaining files.

# 2. Unload the rest of the datasets

**2A. Prepare the JCL.**

Tailor the DBXUNLDM member in the CNTL dataset copied from tape in Step 1.

You may need to edit the JCL further before submitting it if you have any special site requirements which apply.

**2B. Run the job.**

Upon completion, 12 additional datasets will have been created.

## 3. Link the OLR load modules

### 3A. Allocate Load Libraries

The OLR System requires separate load libraries for its online and batch modules. If you will not be linking the OLR System load modules into existing load libraries, you will need to allocate two new load libraries.

- **YOUR.DBAOLR.CICS.LOADLIB**  
must be at least 160 tracks (3380) with 40 directory blocks.
- **YOUR.DBAOLR.BATCH.LOADLIB**  
must be at least 100 tracks (3380) with 20 directory blocks.

### 3B. Tailor the DBXLINK member in the CNTL dataset

Tailor the DBXLINK member in the CNTL dataset.

If you are running in CICS/ESA Release 3.3 or above, concatenate link card for **DBXUT074** in first step; exclude link card for **DBXUT074** in second step.

If you are not running in CICS/ESA Release 3.3 or above, concatenate link card for **DBXUT074** for second step; exclude link card for **DBXUT074** in first step.

### 3C. Run the job.

Upon completion, all OLR System programs will be linked.

## 4. Update the OLR Server

Two existing DB2 tables will be upgraded and three new tables will be added to the database. New messages will be loaded into the OLR TSM Messages table. Release 3.0 reduces the number of OLR plans to 4. These plans will need to be bound.

We suggest you perform your regular DB2 maintenance backup of the whole OLR/Server database before upgrading it to Release 3.0.

Each of the following steps uses control cards which provide the names of your database, storage groups, and other site specific information. You must revise these control cards to reflect your site's specifications before running the jobs. The control cards are in the CARDS dataset.

### 4A. Download existing Topic and Note tables

Columns have been added to the Topic and Note tables. Data in your current Topic and Note tables will be converted into the new table formats. This step will download your existing Topic and Note tables to create backup datasets.

Edit the **DSNTIAUL** member in the **CARDS** dataset.

Tailor the **DB2MUNLD** member in the **CNTL** dataset.

You may need to make additional changes to the JCL before submitting it if you have any special site requirements which apply. Make sure you have allocated enough space for your output datasets.

Run the job. Upon completion, your existing Topic and Note tables will be downloaded to sequential datasets for backup.

### 4B. Update OLR Server database tables

This step will drop and recreate the TSM table. It will also alter existing Topic and Note tables, and create new TAG, FLD, and FFV tables.

Edit the **DSNSPUFI** member in the **CARDS** dataset.

Tailor the **DB2MUPDB** member in the **CNTL** dataset.

If you have already installed DR506S you do not need to create the TAG table, so delete the DD statement referring to DBCRTAG in DB2MUPDB.

If you have already installed DR605S, you do not need to create the TAG, FLD and FFV tables, so delete the DD statements referring to DBCRTAG, DBCRFFV and DBCRVFD in DB2MUPDB.

Run the job. Upon completion, the OLR Server database will have been upgraded.

### 4C. Reload OLR Server TSM table

This step loads a new set of topic server messages into the TSM table.

Tailor the **DB2MUPTB** member in the **CNTL** dataset. Run the job.

Upon completion, new Topic Server Messages will be loaded in your TSM table.

**4D. Bind DB2 plans**

Edit the **DSNBIND** member in the **CARDS** dataset. Be sure to replace “**YOUR.DR608I.DBRMLIB**” in all LIB statements.

Tailor the **DB2BIND** member in the **CNTL** dataset.

Make sure that your plan name is included in your **RCT**.

Run the job. Upon completion, all OLR plans will have been bound.

**4E. Convert OLR Server tables**

This step will convert your new Topic and Note tables to the OLR 3.0 format.

Edit **DSNIX4**, **DSNIX5**, and **DSNIX6** in your **CARDS** dataset.

Tailor the **DB2MCVRT** member in the **CNTL** dataset. Run the job.

You may get a **CC=08** from job step 3. This is normal.

**4F. Import OLR System help and demo data**

This step will replace existing OLR help data, help links and demonstration data in your OLR Server database.

Edit the **DSNIX1** member in the **CARDS** dataset.

Tailor the **DBXIXHLP** member in the **CNTL** dataset.

Run the job. Expect to see a return code of 4 from this job. Upon completion, all OLR help and demo data will have been updated.

## 5. Set the system parameters

You will need to reassemble and relink the Sysparms table into your new load library. The source for the Sysparms table is in member DBXORSIT in your TABLES library. You can either update the source from the TABLES library to reflect your site customization settings, or you can update your current source to include a copy of the new parameters shown below.

### 5A. Define new System Parameters

The OLR System Parameters Table has been upgraded to allow more flexibility in using the OLR System.

The TYPE=SYSADM statement can now be used to assign multiple system administrators. Include one statement for each system administrator.

Note that the TYPE=ENTRY statement from R2.2 has been deleted for R3.0.

The following extensions have been added to the TYPE=INITIAL syntax:

Parameter	Description
APPONLY	<b>YES/NO</b> indicates whether notes can be updated or not. Setting this option to YES disables the writer's ability to update a note.
FLDCOLOR	<b>YELLOW</b> sets the color attribute for fields in OnLine Notepad forms.
FORMGRP	<b>FORMGRP</b> sets the name of the Group library which contains blank forms.
NOHLPBP	<b>YES/NO</b> indicates whether a help reader will see a message when there is no help defined for an application, screen or field. If YES, the message is not sent to the screen.
PRTYLIST	<b>YES/NO</b> activates note priority settings. When these are on, notes will appear in note lists by priority, then date.
SCTAB	<b>YES/NO</b> restricts the sticky cursor feature to work only when the cursor is on a table field in a help window. When YES, the sticky cursor is only active on table entries.
SCPOS1	<b>YES/NO</b> if YES, the sticky cursor will always select data starting at the first position on a line in a table.
TAGCOLOR	<b>RED</b> sets the color attribute of hypertext tags within text.

You can change these entries to suit your site's needs and preferences. Edit the **DBXORSIT** member in the **TABLES** library. Make sure to provide your current password and list the OLR features, and to apply any modified settings from your OLR 2.2 configuration.

For an explanation of all settings in the Systems Parameters Table, see the OLR System Customization Guide.

### 5B. Prepare the JCL.

Tailor the **ASMORSIT** member in the **CNTL** dataset.

**5C. Run the job.**

Upon completion, the DBXORSIT load module table will have been updated.

DO NOT issue a CEMT NEWCOPY directly for DBXORSIT. Use the newcopy function in the System Administration Screen from the OLR System Main Menu. This will control and ensure that all current OLR System sessions will be synchronized with any updated system parameter setting. (The only exception to this rule is when you are experiencing an authorization problem because your password/features are incorrect. In this case, you may newcopy the DBXORSIT directly via CEMT).

## 6. Update CICS definitions

Here's what's new with Release 3.0:

Type	Items	Description
<b>Obsolete TRANIDs and Plans</b>	Txxx	All OLR transactions starting with T are obsolete and may be deleted. The plans corresponding to these TRANIDs in your R2.2 RCT are also obsolete and no longer needed.
<b>New Assembler Programs</b>	DBXPIDDN DBXPI150 DBXPI160	New programs have been added.
<b>New COBOL Programs</b>	DBXDBSP1 DBXDBSP2 DBXDBFFV DBXDBVFD DBXWR360 DBXWR370 DBXWR920 DBXWR930 DBXWR940 DBXWR950 DBXWR980 DBXTS214 DBXTS632 DBXTS900 DBXTS910 DBXTS930 DBXTS931 DBXTS940 DBXTS941	New programs have been added.
<b>New Mapsets</b>	DBXMI15 DBXMI16 DBXMR37 DBXMR93 DBXMR94 DBXMR95 DBXMR98	New mapsets have been added
<b>Obsolete Programs</b>	DBXCS120 DBXTS250 DBXTS254 DBXTS258 DBXTS750 DBXTS754 DBXMR32 DBXMR34 DBXUT050 DBXLS100	Programs have been removed

**6A. Update CICS Definitions for CICS/ESA**

If your site is not running CICS/ESA, skip this step.

Tailor the **DBXLDCSD** member in the **CNTL** dataset.

If your CICS environment is MRO you will need to run the **DBXLDCSD** job twice. Change the JCL to refer to the **DBXCSDAO** member when updating the CSD file used by your AOR and to the **DBXCSDTO** member when updating the CSD file used by your TOR

Tailor the **DBXCSDAO** and **DBXCSDTO** members in the **CARDS** dataset. Be sure to change “XXXX” to your SYSID in all REMOTESYSTEM statements

You may need to make additional changes to the JCL before submitting it if you have any special requirements which apply.

Run the job. Upon completion, a group called OLR30 will have been created on your CSD file containing definitions for all OLR resources. (In an MRO environment, group OLR30AO is created in the CSD file for your AOR and group OLR30TO is created in the CSD file for your TOR).

Proceed to step 6C.

**6B. Update CICS Definitions for non ESA CICS**

The **CARDS** dataset contains **DBXPCT**, **DBXPCTAO**, **DBXPCTTO**, **DBXPPT**, **DBXPPTAO**, **DBXPPTTO**, **DBXFCT** and **DBXFCTTO** members. Use these to update your PPT, PCT and FCT as appropriate.

**DBXPCTAO**, **DBXPCTTO** **DBXFCTTO** will need to be tailored. Be sure to change “XXXX” to your SYSID for all occurrences of SYSIDNT=.

**6C. Update RCT Definitions**

Coordinate changes required for the RCT. The **DBXRCT** member of the **CARDS** dataset contains RCT entries for Release 3.0.

Re-assemble the RCT.

**6D. Update TCT Definitions**

If your site uses the OLR Online Print Facility, your CICS printers need to be defined in the TCT.

Re-assemble the TCT.

**6E. Update DCT Definitions**

If your site uses the destination routing option of the OLR Online Print Facility (**DESTTYPE=TDQ** in the **TYPE=INITIAL** entry of the Sysparms table), your transient data destinations need to be registered in the DCT.

Re-assemble the DCT.

## 7. Update the CICS Intercept Table

Several new parameters have been added to the CICS Intercept Table:

Parameter	Description
<b>AUTAPP</b>	<b>DEMO</b> specifies which application help topic will be used when an automatic intercept criteria is used with no application designated.
<b>AUTGRP</b>	<b>DEMOGRP1</b> specifies the group library which will hold help topics when an automatic intercept criteria is used and no detail record is provided.
<b>AUTSCRN</b>	<b>SCREEN</b> specifies the screen help topic which will hold help topics when an automatic intercept criteria is used but no screen literal is found in the datastream.
<b>BMSX</b>	<p><b>YES/NO</b> specifies whether the region is running CICS 4.1 or later with the BMS extension.</p> <p><b>NOTE: The initial version of CICS 4.1 did not provide the BMS extension, which manages BMS information in a BMS Extension instead of the TCTTE.</b></p> <p><b>IBM released the BMS Extension update in an APAR PN69050, and has added it to new CICS 4.1 installations.</b></p> <p><b>If you are running CICS 4.1 with the BMS Extension feature, you must set BMSX to YES for proper handling of BMS screens.</b></p>
<b>INTDD</b>	<b>OLRINT2</b> sets the DDNAME of the OLR Intercept File in the CICS JCL.
<b>PFKXLATE</b>	<b>YES/NO</b> if yes, PF keys 13-24 will automatically translate to 1-12.

You can add these parameters to your existing source for the CICS Intercept table (DBXORGTB), or you can modify the source provided in the TABLES library to reflect any site customization you have applied.

### 7A. Update the Intercept Table source

For full documentation of the CICS Intercept Table, see the OLR System Customization Guide.

### 7B. Prepare the JCL

Tailor the **ASMGATB** member in the **CNTL** dataset.

### 7C. Run the job.

Upon completion, the DBXORGTB load module table will have been updated.

*Note:* DBXORGTB is a resident module. If you newcopy the new load module in your CICS region, it may cause some problems.

When you make changes to DBXORGTB and re-assemble it, you must wait for the CICS region to be recycled to pick up the new load module.

## 8. Update OLR User Exits and The OLR API

For the new release of the OLR System, there have been changes in the parameter lists used for the existing OLR Exits, OLR Attach Facility (OLR API), Intercept Attach Facility (OLR API), and Intercept Attach Facility Target Application (OLR API). If you are not using any OLR User Exit or are not licensed for the OLR API, skip this section.

### Updating Exit Programs

You need to recompile or reassemble and link all OLR exits you are currently using. Be sure to include your DR608I **COPIES** library into your compile JCL.

### Updating OLR API Programs

If you are licensed for the OLR API and you have written OLR Server programs, contact DBA Software Technical Support for new versions of the library descriptions and parameter lists you are using.

You will need to recompile and relink application programs that use any OLR Server program to pick up the new object module in the **OBJLIB** dataset provided in this release. OLR Server records and programs may have changed and your plans may need to be re-bound.

If you have embedded DB2/SQL statements in your application program to access any OLR Server DB2 table, talk to DBA Technical Support. The OLR Server database has changed and you may need to make changes to your SQL statements and re-bind your plan.

## **Chapter 2 Reference Information**

In this chapter, we provide additional information describing the files on the installation cartridge and discussing installation considerations..

## Files on the OLR Maintenance Cartridge

Maintenance for the OLR System has been provided for you on a standard-label EBCDIC cartridge. The cartridge contains a total of 31 files, 13 of which will be unloaded for this maintenance procedure. The files marked with a change bar will be unloaded

The first file contains a JCL member that will be used to read the other files.

If you would like to use the DR608I tape for a full install, please contact DBA Software and request a copy of the OLR System Installation guide.

File Name	Contents
DBAOLR.INSTALL.TAPEFO1	JCL for Maintenance Procedure
DBAOLR.INSTALL.TAPEFO2	Control Cards for Maintenance Procedure
DBAOLR.INSTALL.TAPEFO3	DBRM Modules for OLR/Server Programs
DBAOLR.INSTALL.TAPEFO4	Object Modules for the OLR System and OLR/Server
DBAOLR.INSTALL.TAPEFO5	Macro library
DBAOLR.INSTALL.TAPEFO6	Table source
DBAOLR.INSTALL.TAPEFO7	Copylib
DBAOLR.INSTALL.TAPEFO8	Sample programs
DBAOLR.INSTALL.TAPEFO9	Link control cards
DBAOLR.INSTALL.TAPEF10	Batch link control cards
DBAOLR.INSTALL.TAPEF11	QMF Reports
DBAOLR.INSTALL.TAPEF12	QMF Forms
DBAOLR.INSTALL.TAPEF13	OLR Entry Point Table
DBAOLR.INSTALL.TAPEF14	OLR Group Table
DBAOLR.INSTALL.TAPEF15	OLR Group User Table
DBAOLR.INSTALL.TAPEF16	OLR Extended Help Table
DBAOLR.INSTALL.TAPEF17	OLR Help Link Table
DBAOLR.INSTALL.TAPEF18	OLR Keyword Table
DBAOLR.INSTALL.TAPEF19	OLR Note Table
DBAOLR.INSTALL.TAPEF20	OLR Topic Keyword Table
DBAOLR.INSTALL.TAPEF21	OLR Topic Note Table
DBAOLR.INSTALL.TAPEF22	OLR Topic Table
DBAOLR.INSTALL.TAPEF23	OLR Outline Table
DBAOLR.INSTALL.TAPEF24	OLR Message Table
DBAOLR.INSTALL.TAPEF25	OLR Text Audit Table
DBAOLR.INSTALL.TAPEF26	OLR Text Block Table
DBAOLR.INSTALL.TAPEF27	OLR Text Attribute Table
DBAOLR.INSTALL.TAPEF28	OLR User Table
DBAOLR.INSTALL.TAPEF29	OLR Tag Table
DBAOLR.INSTALL.TAPEF30	OLR Field Table
DBAOLR.INSTALL.TAPEF31	OLR Intercept File Source

## MRO Considerations

If you will be using the OLR System in an MRO environment with a separate terminal owning region (TOR) and application owning region (AOR), there are some special CICS considerations.

In an MRO environment,

- a copy of the OLR Intercept must be active in each TOR whose associated AOR(s) contain applications which have links to OnLine Help or OnLine Notepad
- only one copy of the OLR System can be active in one AOR.

The MRO configuration requires special definitions in each TOR and in the AOR which runs the OLR System.

See the OLR System Customization Guide for details on setting up the OLR System in an MRO configuration.

## CICS/ESA Release 3.2 Considerations

In previous releases of the OLR System, it was possible for the OLR System to provide support for lowercase characters in text entered onto the system online by temporarily overriding uppercase translation by the terminal only in non-ESA versions of CICS. It was not supported in CICS/ESA.

However, the OLR System 3.0 now provides case change support in all releases of CICS **except in Release 3.2**. If you are currently using the OLR System in CICS/ESA Release 3.2, the following will serve as a reminder about CICS/ESA considerations.

With the advent of CICS/ESA, it is possible to control uppercase translation on a transaction-by-transaction basis. In order to preserve lower case characters in text entered onto the OLR System online, it will be necessary to define your terminals and OLR transactions in such a way that uppercase translation will not automatically occur.

Your CICS documentation from IBM is the best source of technical information on how to set up your CICS environment to support applications that handle lower-case input from a terminal. The following considerations apply:

- terminal definitions should refer to a TYPETERM where UCTRAN is set to NO or TRANID. When UCTRAN is set to NO, data input from a terminal in lowercase is not translated to uppercase. When UCTRAN is set to TRANID, tranids entered in lowercase are translated to uppercase, but no other input is translated.
- transactions designed to handle lowercase input should use a PROFILE where UCTRAN is set to NO. All transactions in the OLR System are designed to handle lowercase input. The profile shipped with the product has UCTRAN set to NO.
- other transactions in your environment that are not designed to handle lowercase input should use a PROFILE where UCTRAN is set to YES.

## Print Considerations

You can provide an online print facility for the OLR System to enable online printing to SCS and 3270 printers.

You can also provide a spool print facility for printing to JES printers.

See the OLR System Customization Guide for an explanation of this facility and setup instructions.

## OLR Language Support

You can use the OLR Language Support feature to tailor language elements such as commands, messages and screen literals to fit the needs of the people who will be using OLR at your site. You can select a different date format, or change the characters used to frame windows on OLR.

You can also use the OLR Language Support feature to define additional languages. This makes it possible to accommodate the needs of users who speak different languages, or have widely varying language preferences. Once you have defined a different language, the OLR System can be presented to different users in different ways.

The OLR System is shipped with an OLR default language for its basic user interface. The OLR default language uses English for its commands, messages and screen literals. It uses USA standards for date formats and provides a default set of window frame characters.

See the OLR System Customization Guide for further information and instructions for setting up language definitions.