

Supplement #61

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HANDLING MESSAGE IDS IN TURNOVER® FOR ISERIES

This document describes how to control and track changes to individual message IDs within TURNOVER® for iSeries. Each message ID can be checked out, changed and promoted independently, without having to lock or merge a message file.

DEFINING TYPE CODES FOR MESSAGE IDS

You change message IDs with TURNOVER® for iSeries by creating a special type code for handling the messages in a particular message file. The key component to the type code is the object type parameter that must be ***MSGID**. The type code, with the exception of the name and description you assign, should look like this:¹

4/14/14 09:41:45		Change a Type Code	Your Company, Inc. YOURSYS
Type code	MSGID	CM scheme	*TURNOVER
Description	Message ID	Attribute	
Object type	*MSGID	Source file name . . .	
Sequence	100	Data object	Y COPR
Create command . . .			

"&OB" = Object name	"&RF" = Reference	"&X0"-"&X9" = Exit
"&LI" = Library name	"&TO" = Test object name	
"&TY" = Type code	"&TL" = Test object library name	
"&SM" = Source member name	"&TR" = Target release	
"&SF" = Source file name	"&FM" = From source member name	
"&SL" = Source library name	"&FF" = From source file name	
"&U0" = Generation options	"&FL" = From source library name	
"&U2" = Optimization level	"&U1" = Debugging views	
"&U4" = Activation Group	"&U3" = Compiler options	
"&U6" = WEBLICATE Release	"&U5" = WEBLICATE System designator	
"&U8" = Binding directory	"&U7" = Binding directory	
F3=Exit F4=Prompt/select F7=Applications F12=Cancel F22=Long command	"&U9" = Run as User Profile	

You can use the same type code to control different message files in different applications, but if you need to manage more than one message file within a single application, you'll need a unique type code for each message file. We recommend that you set the sequence value for your message ID to a value that will place it on forms before any object types that may use it for compiling (such as CMDs, DSPFs, and PRTFs). Fill out the rest of the fields as shown above.

¹ When you apply TURNOVER® for iSeries changes, one MSGID type entry will be created for you. If you need more, you can copy it.

ASSIGNING A MESSAGE ID TYPE CODE TO YOUR APPLICATION

After adding the type code to the list of valid type codes for your application, you need to maintain that application type code to specify the message file where TURNOVER® for iSeries should look for the message IDs. This should look like the following panel:

4/14/14	MSGID Defaults		Your Company, Inc.
10:23:56	Application: TO	Rel: 3 Ver: 2 Lev: 2	SYSTEM: YOURSYS
Type choices and press Enter.			
			Field Attributes R=Restrict, L=Lock
From message file	<u>TMSGF</u>	Name	L
Library	<u>SOFTTURNQA</u>	Name, *PGMR	L
Target message file	<u>TMSGF</u>	Name	R
Library	<u>SOFTTURN</u>	Name	R
Delete from message ID . . .	<u>Y</u>	Y, N	R
Distribute	<u>N</u>	Y, N	
F3=Exit F12=Cancel			

On this panel, you define the **From** and **Target message files** for message IDs that are promoted on forms for this level of the application. You can also specify whether you want to remove message IDs from the **From message file** as they are promoted, and whether you want them to distribute message IDs on forms intended for distribution.

Once these IDs are defined to your application, you are ready to check out and promote message IDs.

CHECKING OUT MESSAGE IDS

The Checkout Message ID (**CHKOUTMSG**) command lets you check out individual message IDs from a message file. When you enter the command, you can specify an individual message ID, or ***SELECT** to build a list. If you specify one ID, TURNOVER® for iSeries either checks out or reserves the ID, (provided it isn't already checked out or reserved), and tries to copy the message ID into your development message file. If the message file does not exist, TURNOVER® for iSeries creates it first.

```
Checkout Message ID (CHKOUTMSG)

Type choices, press Enter.

Message ID . . . . . *SELECT      Message ID, *SELECT
Type code . . . . . _____    MSGID, MSGID2, MSGWI
Application . . . . . _____    Character value
Release . . . . . _____        Number
Version . . . . . _____        Number
Reference . . . . . _____        Character value, *SELECT

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

Bottom
```

If you choose to select from a list of message IDs, you'll see the following panel:

```
4/28/14      Checkout Message IDs      Message file: MPMSGF
12:02:00      Library: PRODMF

Position to Msg ID . . _____

1=Checkout  5=Display Message Description

Msg ID      Description      Chk      To Pgmr
Out

- LAN0001    Reserve message ID for programmer . . PHILLIPS      N
- LAN0002    Type is not a valid Lansa type for this applicat      N
- LAN0003    Invalid from-partition entered.                      N
- LAN0004    Invalid from-Lansa program library entered.              N
- LAN0005    Invalid target partition entered.                      N
- LAN0006    Invalid target Lansa program library entered.          N
- TUR0001    Process must be entered if object is a function.      N
- TUR0002    Turnover form &1 submitted to batch.                        Y      FISHER
- TUR0003    Turnover job &1/&2/&3 started.                                N
- TUR0004    Form control record not on file for form &1. Tur          N
- TUR0005    Form &1 has already been run or cancelled. Turno          N
- TUR0006    Date/time range invalid for form &1. C=Cancel, G      Y      FISHER
- TUR0006    Invalid date/time warning was ignored by operato      N
More...

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

The list of messages is built interactively in a physical file in library QTEMP, and will be reused for subsequent checkouts, as long as the list is there. (In the unlikely event that messages have been added since the list was created and you want to rebuild the list, then you can delete file TMSGIDF in library QTEMP.)

Handling Messages IDs in TURNOVER® for iSeries

To reserve a new message ID, type it on the line at the top of the list. When a programmer reserves an ID, only a checkout record is created; no message IDs are merged or created. Use the command **WRKMSGF** for this purpose.

To check out one or more IDs, select the message IDs you want to check out and press **Enter**. A checkout record is created, and the message ID is merged² into your development message file. At any point during the checkout, promotion, or distribution process, if a message ID is being merged into a message file that does not exist, the merge program will first create the message file.

² Note that if the message ID already exists in your message file, it will be overlaid at checkout time.

MANAGING MESSAGE IDS ON YOUR PROGRAMMER WORKLIST

Message ID types are fully supported by PWM. You can add a message ID type item to the worklist just as you would any other item, with the exception that you cannot use a PDM user-option because message IDs do not appear in PDM. Therefore, you must use the **ADDPWLITM** command, **F6** on the PWM panel.³ Checkout and TURNOVER® for iSeries form creation is accomplished as it is for any other object type with options **21** and **46**, either in batch or interactively. If you enter option **32** next to a message ID, it will execute the **WRKMSGD** command, positioning you in the message file to the ID you selected. If you enter option **35**, the **DSPMSGD** command will be executed.

If a message ID exists at a given level, a **Y** appears in both the source and object found columns on the worklist.

Manual check-in of message IDs

Check in manually using Checkout/Check-in option **4**. All check-in options are supported, so you can either just check-in the message ID, or check it in and remove it from the development message file.

Recovery and roll-back of message IDs

Form recovery and roll-back are handled automatically, just as they are for any other object type. If you create a recovery form, the message IDs with action codes **A** and **R** (Add and Replace) are rolled back into the test message file, just as source is rolled back for normal types.

³ The source for a sample exit program that will automatically add a checked out message ID to a programmer worklist has been provided in file ACLSRC in library SOFTTURN. The member name is TOEXIT9.

DISTRIBUTING MESSAGE IDS

All TURNOVER® for iSeries features are supported for message IDs using normal TURNOVER® for iSeries procedures. Form builds, runs and distributions are performed in the same manner you would any other object. When distributions take place, only the message IDs on the form are distributed.

Note: TURNOVER® for iSeries **never** deletes a message file; only individual message descriptions.

If you have any questions about the information in this document, please contact a UNICOM Systems, Inc. Technical Support Representative by phone, email or support site at the locations shown at the beginning of this document.