

## Updates to DB2 Cloning Tool V3.2 User's Guide

### Abstract

Updates that apply to DB2® Cloning Tool Version for z/OS® 3.2 User's Guide (SC27-6556-01)

### Content

The most recent update is listed first.

## Update 6

**Date of change: April 2017**

**Topics: Multiple**

**Change description: APAR PI67734(+PI77928) contains multiple changes to DB2 Cloning Tool Table Space Cloning, including the following:**

- The UNLOAD-LOAD keyword was added to provide an option for the table space cloning process to unload and load table spaces that are ineligible for copy processing when certain types of object mismatches are encountered.
- DB2 Cloning Tool Table Space Cloning no longer requires that you create a table to be used for XML processing.
- The USE-TCPIP field was removed from the DB2 tablespace LOG-APPLY Command panels on the ISPF interface. This value is set automatically by DB2 Cloning Tool Table Space Cloning. The topic “Specifying LOG-APPLY defaults” was updated.
- The EXCLUDE-MISMATCH-PROCESSING command was added to the DB2 tablespace clone COPY Command panel on the ISPF interface.
- DB2 Cloning tool now finds matching source and target names for implicitly created target objects allows you to clone implicit LOB and XML table spaces without the need for the providing matching source-to-target names via the OBJECT-TRANSLATE command.
- The SQLOUT DD is no longer required for processing ALTER TABLE SQL for identity columns. The “Identity columns” topic was updated, JCL samples that showed the SQLOUT DD were updated, the SQLOUT DD description was removed from the COPY and SET command descriptions, and some messages were removed.

The following topics were added or updated:

- Topic: “Worksheets: Gathering parameter values for Tools Customizer”
- Topic: “COPY command syntax”
- Topic: “COPY command and keyword definitions”
- Topic: “Table space cloning DD descriptions” in the “Using the ISPF interface” chapter
- Topic: “Specifying UNLOAD-LOAD defaults” in the “Using the ISPF interface” chapter
- Topic: “Object attributes” in the “Planning for copying DB2 table spaces by data set” topic
- Topics: “XML considerations”, “Setting table space cloning defaults” and “Defining an XML object”

- Topic: “COPY command defaults” in the “Using the ISPF Interface” chapter
- Topic: “Specifying LOG-APPLY defaults” in the “Using the ISPF Interface” chapter
- Topic: “Implicitly created objects”
- Topic: “COPY command syntax” and “COPY command and keyword descriptions”
- Topic: “SET command syntax” and “SET command and keyword descriptions”
- Topic: “Messages”

### Topic 1: “Worksheets: Gathering parameter values for Tools Customizer”

Several data sets have been added to the “Table Space Cloning tasks” section of Tools Customizer. The “Allocate Table Space Cloning data sets step was updated to add the following four new data sets that are created when this step is selected:

prefix.ULOUT, prefix.ULPUN, prefix.ULREC, prefix.ULUT

These data sets are used for UNLOAD-LOAD processing.

### Topic 2: “COPY command syntax”

Add the following to the Optional keywords for UNLOAD/LOAD processing:

#### Optional keywords:

```
[ UNLOAD-LOAD ( UNLOAD-LOAD-ENABLE ( Y | N )
    [ ,DELETE-DATASETS ( Y | N ) ]
    [ ,LOAD-REUSE ( Y | N ) ]
    [ ,LOAD-SORTNUM(integer) ]
    ,TEMPLATE-SORTOUT-DDN(ddname)
    ,TEMPLATE-SYSPUNCH-DDN(ddname)
    ,TEMPLATE-SYSREC-DDN(ddname)
    ,TEMPLATE-SYSUT-DDN(ddname) ) ]
```

### Topic 3: “COPY command and keyword definitions”

Add the following description:

#### Optional keywords

```
UNLOAD-LOAD ( UNLOAD-LOAD-ENABLE( Y | N )
    [ ,DELETE-DATASETS( Y | N ) ]
```

[ ,LOAD-REUSE( Y | N ) ]

[ ,LOAD-SORTNUM(*integer*) ]

,TEMPLATE-SORTOUT-DDN(*ddname*)

,TEMPLATE-SYSPUNCH-DDN(*ddname*)

,TEMPLATE-SYSREC-DDN(*ddname*)

,TEMPLATE-SYSUT-DDN(*ddname*) )

UNLOAD-LOAD is used in the source job and allows of unload and load processing to occur via the DSNUTILU stored procedure when any of the following source and target table space attributes do not match:

- TS\_CLONE
- TS\_DSSIZE
- TS\_PARTITIONS
- TS\_PGSIZE
- TS\_SEGSIZE
- TP\_COMPRESS
- TP\_LIMITKEY
- IX\_DSSIZE
- IX\_PGSIZE
- IX\_PIECESIZE
- IP\_DSSIZE
- CL\_LENGTH

UNLOAD-LOAD processing takes place when mismatches are encountered as follows:

- If EXCLUDE-MISMATCH-PROCESSING(Y) is specified, then all objects are processed as if there are no mismatches, regardless of the setting for UNLOAD-LOAD-ENABLE.
- If UNLOAD-LOAD-ENABLE(Y) and OBJECT-MISMATCH-RETURN-CODE is 0, then an informational message is issued and the object is treated as if there is no mismatch, regardless of the setting for UNLOAD-LOAD-ENABLE.
- If UNLOAD-LOAD-ENABLE(Y), OBJECT-MISMATCH-RETURN-CODE is 4, and the mismatch is a type that can be processed by UNLOAD-LOAD, then UNLOAD-LOAD is used.
- If UNLOAD-LOAD-ENABLE(Y), OBJECT-MISMATCH-RETURN-CODE is 4, and the mismatch cannot be processed by UNLOAD-LOAD, then a warning message is issued.
- If UNLOAD-LOAD-ENABLE(Y) and OBJECT-MISMATCH-RETURN-CODE is 8, an error message is issued and no copies are performed, regardless the setting for UNLOAD-LOAD-ENABLE.

- If UNLOAD-LOAD-ENABLE(Y) and the mismatch can be processed by UNLOAD-LOAD, then UNLOAD-LOAD is used, regardless of the value of ALLOW-COPY-ON-MISMATCH.
- Default: None
- Required: No
- Restrictions:
  - The maximum size of the DSNUTILU utility control statement buffer is 32704 bytes. This buffer is used by table space cloning to pass unload and load utility control statements to the DSNUTILU stored procedure. An error message is issued when the capacity of the utility control statement buffer is exceeded.
  - SYSREC data set spanned record format (VBS) is not supported.
  - Objects with referential integrity relationships are not supported.
- Short form: UL

UNLOAD-LOAD-ENABLE - Set this parameter to Y to specify that objects are to be unloaded and loaded when an object attribute mismatch is detected.

- Default: N
- Required: No
- Restrictions: None
- Short form: UL-ENABLE

DELETE-DATASETS - Set this parameter to Y to specify that data sets that are produced by unload and load are to be deleted when an unload and load for an object is complete.

- Default: Y
- Required: No
- Restrictions: None
- Short form: UL-DEL

LOAD-REUSE - Set this parameter to Y to generate the REUSE option of the LOAD control statement.

- Default: Y
- Required: No
- Restrictions: None
- Short form: UL-REU

LOAD-SORTNUM - Specify the number of temporary data sets that are to be dynamically allocated by the sort program during LOAD processing. SORTNUM is ignored if UNLOAD does not generate the LOAD command option SORTDEVT. If specified, the value must be within the range of 2-255.

- Default: 2
- Required: No
- Restrictions: None
- Short form: UL-SNUM

TEMPLATE-SORTOUT-DDN - Specify the DD name of the file that contains the SORTOUT TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

- Default: None
- Required: Yes
- Restrictions: None
- Short form: UL-TMP-SORTOUT

TEMPLATE-SYSPUNCH-DDN - Specify the DD name of the file that contains the SYSPUNCH TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

- Default: None
- Required: Yes
- Restrictions: None
- Short form: UL-TMP-SYSPUNCH

TEMPLATE-SYSREC-DDN - Specify the DD name of the file that contains the SYSREC TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

- Default: None
- Required: Yes
- Restrictions: None
- Short form: UL-TMP-SYSREC

TEMPLATE-SYSUT-DDN - Specify the DD name of the file that contains the SYSUT TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

- Default: None
- Required: Yes
- Restrictions: None
- Short form: UL-TMP-SYSUT

**Topic 4: “Table space cloning DD descriptions” in the “Using the ISPF interface” chapter**

“Table 58: Table space cloning DD descriptions on the DB2 tablespace clone DD Specification panel” was updated to add the following for UNLOAD/LOAD processing:

DD	Required?	Usage	Default
CKZULREC	Yes, if the UNLOAD-LOAD on mismatch function will be used for the cloning	If you specify UNLOAD-LOAD-ENABLE(YES) for table spaces that are ineligible for copy processing, this DD will be included in the source job for the SYSREC TEMPLATE control statement.	DISP=SHR,DSN=hlq-field.ULREC(member-field)
CKZULPUN	Yes, if the UNLOAD-LOAD on mismatch function will be used for the cloning.	If you specify UNLOAD-LOAD-ENABLE(YES) for table spaces that are ineligible for copy processing, this DD will be included in the source job for the SYSPUNCH TEMPLATE control statement.	DISP=SHR,DSN=hlq-field.ULPUN(member-field)
CKZULOUT	Yes, if the UNLOAD-LOAD on mismatch function will be used for the cloning.	If you specify UNLOAD-LOAD-ENABLE(YES) for table spaces that are ineligible for copy processing, this DD will be included in the source job for the SORTOUT TEMPLATE control statement.	DISP=SHR,DSN=hlq-field.ULOUT(member-field)
CKZULUT	Yes, if the UNLOAD-LOAD on mismatch function will be used for the cloning.	If you specify UNLOAD-LOAD-ENABLE(YES) for table spaces that are ineligible for copy processing, this DD will be included in the source job for the SYSUT TEMPLATE control statement.	DISP=SHR,DSN=hlq-field.ULUT(member-field)

## Topic 5: “Specifying UNLOAD-LOAD defaults” in the “Using the ISPF interface” chapter

Add the following topic to the “COPY command defaults” topic under “Setting table space cloning defaults.”

### Specifying UNLOAD-LOAD defaults

The UNLOAD-LOAD option allows you to specify settings for unloading and loading table spaces that are ineligible for copy processing.

This feature uses the DSNUTILU stored procedure to perform UNLOAD and LOAD processing when any of the following source and target table space attributes do not match:

- TS\_CLONE
- TS\_DSSIZE
- TS\_PARTITIONS
- TS\_PGSIZE
- TS\_SEGSIZE
- TP\_COMPRESS
- TP\_LIMITKEY
- IX\_DSSIZE
- IX\_PGSIZE
- IX\_PIECESIZE
- IP\_DSSIZE
- CL\_LENGTH

Enter U in the Command field on the DB2 tablespace clone COPY Command panel to access the DB2 tablespace UNLOAD-LOAD Command panel. This panel allows you to define the defaults for the UNLOAD-LOAD keyword.

The fields on this panel are:

#### **UNLOAD-LOAD-ENABLE**

Enter YES to specify that objects are to be unloaded and loaded when an object attribute mismatch is detected.

#### **TEMPLATE-SYSREC-DDN**

Enter the DD name of the file containing the SYSREC TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

#### **TEMPLATE-SYSPUNCH-DDN**

Enter the DD name of the file containing the SYSPUNCH TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

#### **TEMPLATE-SORTOUT-DDN**

Enter the DD name of the file containing the SORTOUT TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

#### **TEMPLATE-SYSUT-DDN**



Enter the DD name of the file containing the SYSUT TEMPLATE control statement to be used during utility processing. This file must be defined with RECFM=FB and LRECL=80.

#### **LOAD-REUSE**

Enter YES to generate REUSE syntax for the LOAD utility. Enter NO to omit REUSE syntax.

#### **LOAD-SORTNUM**

Enter the number of temporary data sets that are to be dynamically allocated by the sort program during LOAD processing. SORTNUM is ignored if UNLOAD does not generate the LOAD command option SORTDEVT. If specified, the value must be within a range from 2 to 255.

#### **DELETE-DATASETS**

Enter YES if you want the data sets produced by UNLOAD and LOAD to be deleted when an UNLOAD and LOAD for an object is complete.

### **Topic 6: “Object attributes” in the “Planning for copying DB2 table spaces by data set” topic**

Update Table 38 as follows:

**Table 38. Object attributes that must be identical between source and target objects**

<b>Object type</b>	<b>Attributes that must be identical for source and target object</b>
Database	None
Table space	CCSID, CLONE, COMPRESS, DSSIZE, NTABLES, ORGANIZATIONTYPE, PAGENUM, PARTITIONS, PGSIZE, SEGSIZE, TYPE
Partitioned table space	COMPRESS, DSSIZE, FORMAT, LIMITKEY
Table	COLCOUNT, EDPROC, HASHKEYCOLUMNS
Column	CACHE, COLNO, COLTYPE, CYCLE, DEFAULT, FLDPROC, HASHKEY_COLSEQ, INCREMENT, LENGTH, MAXVALUE, MINVALUE, SCALE, SEQTYPE, SOURCETYPEID, START

Object type	Attributes that must be identical for source and target object
Index	COLCOUNT, COLNO, COLSEQ, CLUSTERING, COMPRESS, DSSIZE, HASH, INDEXTYPE, ORDERING, PAGENUM, PIECESIZE, PGSIZE, SPARSE, UNIQUE_COUNT, UNIQUERULE; also the number of partitions in the index must be identical.
Partitioning index	DSSIZE, LIMITKEY

Add the following paragraph:

The UNLOAD-LOAD keyword can be used to clone table spaces with source and target mismatches of some of these attributes. See the UNLOAD-LOAD keyword in the topic COPY command and keyword definitions for information.

#### **Topic 7: “XML considerations”, “Setting table space cloning defaults” and “Defining an XML object”**

DB2 Cloning Tool Table Space Cloning no longer requires that you create a table to be used for XML processing. The XML Object Definition menu item was removed from the screen shot for the “User DB2 tablespace clone settings” panel. In addition, the topic “Defining an XML object” was removed from the user guide, and the topic “XML considerations” is revised as follows:

#### **XML considerations**

This topic describes the considerations for cloning table spaces containing XML column data.

#### **Cloning tables containing XML column data**

DB2® Version 9.1 and later provides fully integrated storage of XML data in the DB2 database system. The XML column data type is provided for storing XML data in DB2 tables.

The following steps are required when the source and target subsystems are different.

1. Add the XMLSTRING-DDN subcommand to the COPY command in the source job. This subcommand is used to pass the source subsystem XMLSTRINGS catalog table contents from the source job to the target job.
2. Add an XMLSTR DD to the source job for the DDN pointed to in step 1.
3. Add the identical XMLSTR DD in the source job to the target job.

#### **XML string processing**

DB2 Cloning Tool Table Space Cloning must add string IDs to the target SYSIBM.SYSXMLSTRINGS catalog table when the source and target subsystems are different and the XML column(s) contain string IDs in the source table space that are not in the target table space or that are mapped to different string IDs. DB2 Cloning Tool Table Space Cloning adds strings into the target catalog table SYSIBM.SYSXMLSTRINGS. The strings IDs are translated from the source to the target value within the data pages of XML columns.

#### **Other XML considerations**

When copying a table with an XML column, both the table space containing the XML column and the table space containing the XML data should be copied at the same time using the LISTDEF ALL command. If you use only BASE or XML LISTDEF keywords, the target object or objects may not be accessible.

#### **Topic 8: “COPY command defaults” in the “Using the ISPF Interface” chapter**

Add the following:

EXCLUDE-MISMATCH-PROCESSING: This command is used to bypass mismatch processing. If you encounter storage abends in the source job during mismatch checking while processing a large number of data sets, you can reduce storage usage by setting EXCLUDE-MISMATCH-PROCESSING to YES. Before setting this to YES, you might want to identify and correct mismatches by running the source job with PGM(NONE). Refer to the parameter description for EXCLUDE-MISMATCH-PROCESSING in the topic *COPY command and keyword definitions* for detailed instructions.

#### **Topic 9: “Specifying LOG-APPLY defaults” in the “Using the ISPF Interface” chapter**

Remove the description of USE-TCPIP from this topic. This field is set automatically by DB2 Cloning Tool.

#### **Topic 10: “Implicitly created objects”**

Add the following topic to “Considerations for the DB2 Cloning Tool Table Space Cloning cloning process:”

##### **Implicitly created objects**

DB2® Cloning Tool Table Space Cloning can automatically match the names of source and target implicitly created objects.

The following implicitly created objects are supported:

- Table space
- LOB table space
- Auxiliary table

- XML table space
- XML table
- Index and index space

The following logic is used in matching the source and target names for implicit source objects:

1. If the matching target object is found, DB2 Cloning Tool Table Space Cloning uses the target names.
2. If the matching target object is not found, and OBJECT-TRANSLATE is specified for the source object, DB2 Cloning Tool Table Space Cloning uses the target names specified in OBJECT-TRANSLATE.
3. If the matching target object is not found, and OBJECT-TRANSLATE is not specified for the source object, the result of copying depends on the actual name of the target object and other DB2 Cloning Tool Table Space Cloning settings. Refer to the topic “Target analysis” for more information about how DB2 Cloning Tool Table Space Cloning processing confirms that a compatible target table space or index space exists on the target DB2 subsystem.

### **Limitations**

To enable automatic matching for implicit indexes, you must include the source table spaces or tables for those indexes in the LISTDEF.

If only the target objects are implicit (the source objects are explicit), OBJECT-TRANSLATE must be specified for those objects.

### **Topic 11: “Identity columns”**

Add the following paragraph to this topic:

DB2 Cloning Tool Table Space Cloning issues ALTER TABLE SQL to correct identity column values. If you are using DDL generation (DDL-ENABLE set to Y), and either PROCESS-TYPE(Y) or PROCESS-TYPE(G) are specified, then the ALTER TABLE SQL statements for identity columns are included in the generated DDL. This DDL is either run or saved to a data set, depending on the value of the PROCESS-TYPE keyword. If DDL-ENABLE(Y) and PROCESS-TYPE(N) are specified, or DDL-ENABLE(N) and PROCESS-TYPE(N) are specified, then the ALTER TABLE SQL statements for identity columns are generated and run.

### **Topic 12: “COPY command syntax” and “COPY command and keyword descriptions”**

Remove the SQLOUT-DDN keyword from both topics.

### **Topic 13: “SET command syntax” and “SET command and keyword descriptions”**

Remove the SQL-OUTDD keyword from both topics.

#### **Topic 14: “Messages”**

Add the following messages:

**CKZ357E** The source and target DD specifications are not synchronized. Please go to source job DD specification and synchronize it with target job DD specification

**Explanation:** The source and target DD specifications are not synchronized.

**User response:** Please go to source DD specification and synchronize it with target DD specification.

**CKZ00170E** COPY *ddname* must be from 1 to 8 Characters

**Explanation:** The DD name specified for the option must be from 1 to 8 characters.

**User response:** Correct the DD name length to be from 1 to 8 characters.

**CKZ00171I** COPY *keyword* = *value*

**Explanation:** This message reports the value specified for a given COPY keyword.

**User response:** No action is required.

**CKZ71600I** Subtask *integer*, *utility\_sysprint\_detail*

**Explanation:** This message is used to report the SYSPRINT output received from an invocation of DSNUTILU stored procedure

**User response:** No action is required.

**CKZ71601E** Subtask *integer*, SYSPUNCH data set *syspunch\_data\_set\_name* content exceeds the capacity of the utility control statement buffer

**Explanation:** During an unload-load operation, the amount of SYSPUNCH control statements generated by the UNLOAD utility exceeds the size of the utility control statement buffer used by the DSNUTILU stored procedure. This may occur when a large number of LOAD control statement field specifications are generated by the UNLOAD utility.

**User response:** Contact IBM Software Support. This message contains the name of the SYSPUNCH data set that caused this message to be issued. You can modify the SYSPUNCH data set content and run a LOAD utility to complete the cloning process for the object.

**CKZ53599W LOAD-SORTNUM is *sortnum\_value*, out of range (2-255), reverting to default value**

**Explanation:** This message is a warning that the LOAD-SORTNUM value is invalid.

**User response:** If MAX\_RC=0, correct the input and resubmit the job. If MAX\_RC=4, this warning will be ignored.

**CKZ535100W Data masking cannot be applied to objects processed by UNLOAD-LOAD.**

**Explanation:** This message is a warning. UNLOAD-LOAD-ENABLE(Y) and DATA-MASKING(Y) are both specified in the COPY command. Data masking will not be applied to objects that are processed by UNLOAD-LOAD.

**User response:** No action is required.

**CKZ535101W Log-apply cannot be applied to objects processed by UNLOAD-LOAD**

**Explanation:** This message is a warning. UNLOAD-LOAD-ENABLE(Y) and LA-ENABLE(Y) are both specified in the COPY command. Log apply will not be used for objects that are processed by UNLOAD-LOAD.

**User response:** No action is required.

**CKZ535103W DSS-COPY-COMMANDS \* DSNS-PER-COPY = *number* - may cause storage and other resource-related errors during *program* execution. The recommended maximum for DSS-COPY-COMMANDS \* DSNS-PER-COPY is 1400.**

**Explanation:** The supplied values for DSS-COPY-COMMANDS and DSNS-PER-COPY multiplied together give a product of *number*. This might cause storage and other resource-related errors during execution of the program that is listed in the message. The recommended maximum for DSS-COPY-COMMANDS \* DSNS-PER-COPY is 1400.

**User response:** Change the input and resubmit the job.

**CKZ535108W UNLOAD-LOAD-ENABLE(Y) specified with PGM(NONE), defaulting to N**

**Explanation:** This message is informational.

**User response:** No action is required.

**CKZ54797W Table space *database.table\_space* cannot be processed by UNLOAD/LOAD, because it contains a table with referential constraints**

**Explanation:** UNLOAD/LOAD for objects with referential integrity relationships is not supported.

**User response:** No action is required.

**CKZ54798W Source | Target table *table\_creator.table\_name* cannot be matched, OBIDs cannot be translated**

**Explanation:** This message indicates that the table OBIDs in the source and target table spaces cannot be mapped and thus cannot be changed. The table names must be the same on source and target or must be mapped with OBJ\_XLATE.

**User response:** Change the table names to match or use OBJ\_XLATE to map the names and resubmit the job.

**CKZ54799W Table space *database.table\_space* cannot be processed by UNLOAD/LOAD, because it contains table *creator.table* that has a LOB column with max length of 32KB or more**

**Explanation:** UNLOAD/LOAD for objects with a LOB column with max length of 32KB or more is not supported.

**User response:** No action is required.

**CKZ547100I Tablespace *database.table\_space* and its dependent objects will be processed by UNLOAD-LOAD**

**Explanation:** The object that is listed in the message and its dependent objects will be processed by UNLOAD-LOAD due to mismatches between source and target.

**User response:** No action is required.

**CKZ547101W** Table space *source\_database.source\_table\_space* cannot be processed by UNLOAD/LOAD, because paired target table space *target\_database.target\_table\_space* does not contain any tables

**Explanation:** The target table space matched to the source table space does not contain any tables to load data.

**User response:** Create tables in the target table space that are matched to tables in the source table space and resubmit the job.

**CKZ547103W** IS *database.spacename* has a mismatch that can be processed by UNLOAD-LOAD, but its related TS was already excluded from cloning process. IS will not be copied

**Explanation:** The index space *dbname.spacename* has a mismatch that can be processed by UNLOAD-LOAD, but its related table space was already excluded from the cloning process. Therefore, this index space cannot be copied.

**User response:** Determine why the related table space was excluded from the cloning process. Resolve the problem and resubmit the job.

**CKZ61327I** Subtask *subtask\_number*, Object *object\_type object\_creator.object\_name* is implicit, matching target object will be found

**Explanation:** This message is informational.

**User response:** No action is required.

**CKZ61328W** Subtask *subtask\_number*, matching target object for *object\_type object\_creator.object\_name* is not found and object-translate is not specified. Copy may result in error

**Explanation:** The source object listed in the message could not be matched with a source object. Possible reasons are that the target object does not exist; or object-translate is required.

**User response:** Investigate the potential cause based on the suggestions above. If you are unable to determine the cause of this error, contact IBM® Software Support.

**CKZ61329I** Subtask *subtask\_number*, matching target object for *object\_type object\_creator.object\_name* is not found. Specified object-translate will be used

**Explanation:** This message is informational.



**User response:** No action is required.

**CKZ61330I** Subtask *subtask\_number*, implicit source object *object\_type* *source\_object\_creator.source\_object\_name* is paired with target object *target\_object\_creator.target\_object\_name*

**Explanation:** This message is informational.

**User response:** No action is required.

**CKZ61331W** Subtask *subtask\_number*, implicit object *object\_type database\_name.space\_name* will not be copied because its base object was not included in LISTDEF

**Explanation:** The source object that is listed in the message could not be matched with any target object, because base objects are required for matching implicit objects.

**User response:** Change the LISTDEF to include the base object, or specify OBJECT-TRANSLATE for implicit objects.

#### **CKZ71602I Begin UNLOAD/LOAD Status Report**

**Explanation:** This message precedes a report that provides information about the data sets processed by UNLOAD/LOAD. The following columns are provided in the report:

##### **SOURCE DATASET**

The name of the source data set.

##### **TARGET DATASET**

The name of the target data set.

##### **UNLOAD RC**

The 2-digit return code from UNLOAD data set processing.

##### **LOAD RC**

The 2-digit return code from LOAD data set processing.

##### **SPACE TYPE**

The space type: IS (index space), TS (table space), LS (LOB table space), XS (XML table space)

## **CLONE**

Y is a cloned space; B is a base space; blank if not cloned.

## **OBJ XLATE**

One of the following:

- DB database name translation result
- TS table space name translation result
- IS index space name translation result
- IXC index creator translation result
- IXN index name translation result
- blank if no translation
- - if translation matches, but is not used
- + if translation matches and is used

**User response:** No action is required.

## **CKZ71603I End UNLOAD/LOAD Status Report**

**Explanation:** This message is informational and indicates the end of the report.

**User response:** No action is required.

## **CKZ71604I Begin UNLOAD/LOAD SIMULATE Status Report**

**Explanation:** This message precedes a report that provides information about the data sets processed by UNLOAD/LOAD in simulate mode. The following columns are provided in the report:

### **SOURCE DATASET**

The name of the source data set.

### **TARGET DATASET**

The name of the target data set.

### **UNLOAD RC**

The 2-digit return code from UNLOAD data set processing.

### **LOAD RC**

The 2-digit return code from LOAD data set processing.

## SPACE TYPE

The space type: IS (index space), TS (table space), LS (LOB table space), XS (XML table space)

## CLONE

Y is a cloned space; B is a base space; blank if not cloned.

## OBJ XLATE

One of the following:

- DB database name translation result
- TS table space name translation result
- IS index space name translation result
- IXC index creator translation result
- IXN index name translation result
- blank if no translation
- - if translation matches, but is not used
- + if translation matches and is used

**User response:** No action is required.

## CKZ71605I End UNLOAD/LOAD SIMULATE Status Report

**Explanation:** This message is informational and indicates the end of the report.

**User response:** No action is required.

Modify the following messages:

**CKZ76810I** Subtask *subtask\_number*, target string ID created, source ID=*source\_string\_number\_in\_hex*, target ID=*target\_string\_id\_now\_in\_catalog\_in\_hex*

**Explanation:** This message is informational.

**User response:** No action is required.