

Part Synchronization Utility User Manual

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Part Synchronization Utility

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Part Synchronization Utility Features

For users with more than one Manufacturing or Engineer data base, the Part Synchronization Utility automatically keeps Item Masters, Bills of Material, and Routing records between data bases the same.

* Multiple data base copy options

Manufacturing to Manufacturing

Engineering to Engineering

Manufacturing to Engineering

Engineering to Manufacturing

* Allows the user to process a single part, a group of parts, or all parts

* Templates control which item master fields remain unchanged on the target data base and allow default values to be set.

* Report is created of new parts added to the target data base.

* Manufacturing Users can take advantage of:

Reduces user maintenance by copying new parts, bills and routings to other manufacturing data bases

Refreshes parts, bills of material, and routings so that changes need only be made in one data base

* Engineer Users can also take advantage of:

Copy and refresh parts, bills of material, and routings between Engineer data base without the use of a cumbersome Central Engineer.

New Features of Release 2.0

Account number substitution

The template allows you to insert a default value into an item master record of the copy-to data base. The account number field now uses a 'mask' so that you can substitute certain characters of the account number in the item master record. For example, if the plant portion of your account number was digits 4 and 5, and you wanted that to be a '20' in all parts in the copy to data base, then a mask would be set up such as @@@20@@@. This would take an account number like 10-10-10 and make it 10-20-10 in the copy-to data base.

Part Copy Templates

Before using the Part Synchronization Utility, templates must be set up to determine how to update the item master record in the copy-to data base. The templates are the same format as Manman Engineer. If you do not own Manman Engineer, it will only take you a few minutes to setup a template before using UT, 189.

Templates are used to determine which fields of the item master record will be updated when copying the item master record from the copy-from data base to the copy-to data base. Each item master field is designated by a line in the template. Each line has a 'Y' or 'N' in the record indicating 'yes' update the field, or 'no' do not update the item master field. For example, you may wish to leave the costs, buyer code, and class code 1, as they are in the copy-to data base. In this case you would enter an 'N' in the template for these fields and a 'Y' for all of the other fields that require refreshing. A list of line numbers and fields appears on the next page.

The Part Synchronization Utility prompts for two templates.

- 1) New part template - for new parts added to the copy-to data base. We recommend that all of the fields get set to a "Y".

If you have an 'N' in the template for an item master field in the copy-to data base, all this does is simply insert the default value (usually zero, 1 or blanks) into the field instead of the value from the copy-from data base.

- 2) Existing part template - used for parts that already exist in the copy-to data base. We recommend that most of the fields still have a 'Y' so that the parts stay in synch between the copy-from and copy-to data base.

However, the fields which need to be different between the two data bases should be set to an 'N'. A common example of this would be setting an 'N' for the g/l account number field. Usually the account numbers would be different in the two different data bases.

Building and Editing a template

If you own Manman Engineer, use command EG,MA,172 to create the part copy templates as usual. If you do not own Manman Engineer, then follow the instructions below to create a part copy template.

- 1) Build a new group named EGPRTMPL to hold the part copy

templates. This group will reside in the same Account that your Manufacturing data base(s) reside in.

```
: NEWGROUP EGPRTMPL; ACCESS=(R, W, A, L, X, S: ANY)
```

- 2) Now log into that group

```
: CHGROUP EGPRTMPL
```

- 3) Build a template file. The template file name will contain a suffix representing the copy-from data base as the last two characters of the file name. For example, I want to build a template named NEW1. If I will be using this template and the copy-from data base number is zero, then the template file name would be NEW100. Second example: if the template file name was TEST and the copy-from data base is number 55, then the file name substituted for Xnn below would be TEST55.

```
: BUILD Xnn; REC=-30, 61, F, ASCII; DISC=62
```

*** A sample template file is included on the installation tape as file U18900.PUB.MMVxxx. As an alternative to building and editing your own file, you can copy this one to your EGPRTMPL group and rename it to the template name/db number that you require.

```
: COPY U18900.PUB.MMVxxx, NEW100. EGPRTMPL
```

- 4) Edit the template file. Each line of the template file represents a field name in the item master. The lines and field names are listed below.

LINE NUMBER:	2	CLCOD	DEFAULTS TO	0
LINE NUMBER:	3	CLCOD2	DEFAULTS TO	0
LINE NUMBER:	4	CLCOD3	DEFAULTS TO	0
LINE NUMBER:	5	CLCOD4	DEFAULTS TO	0
LINE NUMBER:	6	REV	DEFAULTS TO	' '
LINE NUMBER:	7	DESC	DEFAULTS TO	' '
LINE NUMBER:	8	PRTDWG	DEFAULTS TO	' '
LINE NUMBER:	9	CONVFACT	DEFAULTS TO	1.0
LINE NUMBER:	10	INLOC	DEFAULTS TO	' '
LINE NUMBER:	11	ABC	DEFAULTS TO	' '
LINE NUMBER:	12	FLAB	DEFAULTS TO	0
LINE NUMBER:	13	CCNTR	DEFAULTS TO	0
LINE NUMBER:	14	BCODE	DEFAULTS TO	' '
LINE NUMBER:	15	IMCONFLG	DEFAULTS TO	0
LINE NUMBER:	16	FLTIME	DEFAULTS TO	0
LINE NUMBER:	17	ULTIME	DEFAULTS TO	0
LINE NUMBER:	18	DKTOSTCK	DEFAULTS TO	0
LINE NUMBER:	19	IMPTF	DEFAULTS TO	0
LINE NUMBER:	20	IMDTF	DEFAULTS TO	0
LINE NUMBER:	21	FCFDAT	DEFAULTS TO	0
LINE NUMBER:	22	IMDCO	DEFAULTS TO	1

```

LINE NUMBER: 23 GLACCT      DEFAULTS TO ' '
LINE NUMBER: 24 VCODE      DEFAULTS TO ' '
LINE NUMBER: 25 INSPCODE   DEFAULTS TO 0
LINE NUMBER: 26 OPSS       DEFAULTS TO 0
LINE NUMBER: 27 EOQ        DEFAULTS TO 1.0
LINE NUMBER: 28 AVORDQTY   DEFAULTS TO 1.0
LINE NUMBER: 29 SHRINK     DEFAULTS TO 0
LINE NUMBER: 30 PANSIZ     DEFAULTS TO 0
LINE NUMBER: 31 MATOHD     DEFAULTS TO 0
LINE NUMBER: 32 DEMRND     DEFAULTS TO 1
LINE NUMBER: 33 SUPRND     DEFAULTS TO -1
LINE NUMBER: 34 PLNRND     DEFAULTS TO 1
LINE NUMBER: 35 ISSPAN     DEFAULTS TO 0
LINE NUMBER: 36 ISSSAFTY   DEFAULTS TO 0
LINE NUMBER: 37 ISSNODAY   DEFAULTS TO 0
LINE NUMBER: 38 PULLFLG    DEFAULTS TO 0
LINE NUMBER: 39 LTTRKFLG   DEFAULTS TO 0
LINE NUMBER: 40 SHLI FE    DEFAULTS TO 0
LINE NUMBER: 41 SHPOFF     DEFAULTS TO 0
LINE NUMBER: 42 MSTRTPN    DEFAULTS TO ' '
LINE NUMBER: 43 DOLCC      DEFAULTS TO 0
LINE NUMBER: 44 QOH        DEFAULTS TO 0 (qoh is not updated)
LINE NUMBER: 45 DLT        DEFAULTS TO 0
LINE NUMBER: 46 LCODE      DEFAULTS TO 900
LINE NUMBER: 47 PTDUNM     DEFAULTS TO 0 (ptdunm is not updated)
LINE NUMBER: 48 PTDUND     DEFAULTS TO 0 (ptdund is not updated)
LINE NUMBER: 49 LPLLH     DEFAULTS TO 0
LINE NUMBER: 50 STATUS     DEFAULTS TO 0
LINE NUMBER: 51 PLANCODE   DEFAULTS TO ' '
LINE NUMBER: 52 IMALO      DEFAULTS TO 0
LINE NUMBER: 53 SSLEAD     DEFAULTS TO 0
LINE NUMBER: 54 ACTSTAT    DEFAULTS TO 1
LINE NUMBER: 55 COMMODITY  DEFAULTS TO ' '
LINE NUMBER: 56 WEIGHT     DEFAULTS TO 0.0
LINE NUMBER: 57 WUOM       DEFAULTS TO "LB"
LINE NUMBER: 58 IMENGFLG   DEFAULTS TO 0
LINE NUMBER: 59 STANDARD   COST FIELDS DEFAULT TO 0
LINE NUMBER: 60 CURRENT    COST FIELDS DEFAULT TO 0
LINE NUMBER: 61 not used at this time
LINE NUMBER: 62 SCODE      DEFAULTS to copy-from db value

```

As mentioned above, if you do not want the value of the part in the copy-from data base, to 'overlay' the value of the item master record in the copy-to data base, then change the first position of the record to an "N".

Defining Permanent field values

It is also possible to set a fixed value in the template when adding or refreshing a part in the copy-to data base. For example, lets say that the account number field should always be "SPRINGFIELD" in the copy to data base. You would

use the Editor to enter the value on the line corresponding to the g/l account number field.

: EDITOR

```

/T FILE00.EGPRTMPL      (name of your template file)
  FILE UNNUMBERED
/M22                    (line 22 is for the g/l account field)
MODIFY      22
N
N SPRINGFIELD          (Enter an "N" in position 1 and the
                       value of the field in position 3)

/K
FILE00.EGPRTMPL,UNN
FILE00.EGPRTMPL ALREADY EXISTS - RESPOND...
PURGE OLD?Y
/E

```

At this time, default values for numeric fields are limited to whole numbers with values between 0 and 32767. The value must appear in positions 3 through 9 of the line in the template.

Alphanumeric fields must reside in positions 3 through 30 of the line. All fields are left justified.

For the item master account number field, you can enter a mask to select and substitute certain characters of the account number. For example, a mask of @@@20@@@ would move whatever value is in characters 1, 2, 3, 6, 7, and 8 into the account number of the copy-to data base, and move a "20" in digits 5 and 6 of the account number. So an account number such as 10-10-10 would be converted to 10-20-10. If you use a long account number then be sure an @ appears for the total length of the account number field, or blanks will be inserted into the account number.

Data Base Definition file

If you have a need to always perform the same synchronization between two different data bases, you can create a 'data base definition file'. The file will eliminate the need for you to enter the two different data base numbers each time you run the part synchronization utility.

The file name is U189DB and is located in the PUB group of the account you are logged into. To create the file, simply go into the EDITOR and create a two line file as shown below:

```
: EDITOR
/A
  1  MANDB.MDATABAS.ACCOUNT
  2  MANDB.MDATAB01.ACCOUNT
  //

/K U189DB.PUB
/E
```

Line 1 of the file defines the first (old) data base to open. Line 2 of the file defines the second (new) data base to open. You may also substitute an Engineer data base as well.

When you are using the Part Synchronization Utility UT, 189 the data base names will be obtained from the U189DB file and printed on your screen. The 'enter origin of the data base' prompt will be eliminated.

UT,189 Part Synchronization Utility

This command will copy the item master record, bill of material records, and routing records for a single part or series of parts from one data base to another.

If the part is a new part, then its item master, bill of material, routing records are copied from the copy-from data base to the copy-to data base.

If the parts already exist in the 'copy-to' database, then following will occur:

- 1) The fields of the item master record in the copy-to data base will be updated with the fields from the copy-from data base. A template file allows the user to flag which fields they do not wish to update (synchronize).
- 2) Any bill of material records for the part on the copy-to data base will be deleted and replaced with the records from the copy-from data base.
- 3) Any routing records for the part on the copy-to data base will be deleted and replaced with records from the copy-from data base. If the program encounters a work center on the routing that is not in the copy-to data base, the work center record will be copied from the copy-from data base.

Two reports are generated by the utility. The first is a list of all new part numbers (and their associated bills and routings) that were added to the copy-to database. The second report will list any new work centers that were added to the copy-to data base.

Prompts

Displays output options.
OPTION (3)?

ENTER THE ORIGIN OF THE DATA BASES:
1. MANUFACTURING DB TO MANUFACTURING DB
2. ENGINEERING DB TO ENGINEERING DB
3. MANUFACTURING DB TO ENGINEERING DB
4. ENGINEERING DB TO MANUFACTURING DB
OPTION(1)?

If you will be synchronizing parts between two manufacturing data bases, enter 1. If you will be synchronizing parts between two engineer data bases, enter 2. To synchronize parts between manufacturing and engineer, enter 3 or 4.

COPY FROM DATA BASE NUMBER(xx) ?

COPY TO DATA BASE NUMBER(xx) ?

Enter the data base number of the copy-to data base and the copy-from data base.

PART COPY TEMPLATE FOR NEW PARTS?

Enter the file name of the template to use when a new part number will be added. (Note: the file name will not include the data base suffix. example: if your template file name is TEST01, you will simply enter TEST)

PART COPY TEMPLATE TO REFRESH EXISTING PARTS?

Enter the file name of the template to use when the part already exists on the copy-to data base. (Note: the file name will not include the data base suffix)

PART SELECTION OPTION:

1. ENTER INDIVIDUAL PART NUMBERS
 2. SELECT A CLASS CODE TO COPY
 3. COPY ALL PARTS
- OPTION(1)? 1

If you select option 1, the following prompt appears:

PART NUMBER TO COPY?

PART NUMBER TO COPY (C/R TO CONTINUE)?

You can enter as many parts as you care to copy/synchronize. When finished entering parts, press return.

If you select option 2, the following prompts appear:

CLASS CODE GROUP(1)?

Enter the class group group (1,2,3 or 4) you will be entering a class code for.

CLASS CODE?

Enter the class code from the item master records to select.

The update process begins. When finished the program returns to the 'data base origin' prompt.

Files Accessed

ASSEMB	Assembly master file
IM	Item master file
PSF	Product structure file
RTFIL	Routing File
WCFIL	Work Center file

Report Format

New Parts Added Report

Part number

Description of first assembly part number (DESC - IM)

New Work Centers Added Report

Work center number

COMMAND (TEST, MG, 0)? U, 189

*

Part Synchronization utility (v1.01)

ENTER DESIRED OUTPUT OPTION:

- 0. LINE PRINTER
- 1. TERMINAL, 132 COLUMNS
- 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
- 3. TERMINAL

OPTION (3)? 1

ENTER THE ORIGIN OF THE DATA BASES:

- 1. MANUFACTURING DB TO MANUFACTURING DB
- 2. ENGINEERING DB TO ENGINEERING DB
- 3. MANUFACTURING DB TO ENGINEERING DB
- 4. ENGINEERING DB TO MANUFACTURING DB

OPTION (1)?

COPY FROM MANUFACTURING DATA BASE NUMBER (0)?

COPY TO MANUFACTURING DATA BASE NUMBER (0)? 1

Part Copy Template for new parts? NEW1 *

Part Copy Template to refresh existing parts? REF1 *

PART SELECTION OPTION:

- 1. ENTER INDIVIDUAL PART NUMBERS
- 2. SELECT A CLASS CODE TO COPY
- 3. COPY ALL PARTS

OPTION(1)? 1

PART NUMBER TO COPY? 11-1234

*

PART NUMBER TO COPY (C/R TO CONTINUE)?

*

=====

11-DAVE L NC010 F2A.177 48.00X 96.00 MS

* NO WORK CENTERS COPIED **

IM RECORDS ADDED :	1	IM RECORDS REFRESHED :	0
PSF RECORDS ADDED :	7	PSF RECORDS DELETED :	0
RTFIL RECORDS ADDED:	1	RTFIL RECORDS DELETED:	0

ENTER THE ORIGIN OF THE DATA BASES:

1. MANUFACTURING DB TO MANUFACTURING DB
 2. ENGINEERING DB TO ENGINEERING DB
 3. MANUFACTURING DB TO ENGINEERING DB
 4. ENGINEERING DB TO MANUFACTURING DB
- OPTION (1)? E

COMMAND (TEST, MG, 0)? E

*

COMMAND (TEST, MG, 0)? U, 189

*

Part Synchronization utility (v1.01)

ENTER DESIRED OUTPUT OPTION:

0. LINE PRINTER
1. TERMINAL, 132 COLUMNS
2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
3. TERMINAL

OPTION (3)? 0

OUTPUT PRIORITY? 1

NUMBER OF COPIES?

ENTER THE ORIGIN OF THE DATA BASES:

1. MANUFACTURING DB TO MANUFACTURING DB
2. ENGINEERING DB TO ENGINEERING DB
3. MANUFACTURING DB TO ENGINEERING DB
4. ENGINEERING DB TO MANUFACTURING DB

OPTION (1)?

COPY FROM MANUFACTURING DATA BASE NUMBER (0)?

COPY TO MANUFACTURING DATA BASE NUMBER (0)? 1

Part Copy Template for new parts? NEW1 *

Part Copy Template to refresh existing parts? REF1 *

PART SELECTION OPTION:

1. ENTER INDIVIDUAL PART NUMBERS
2. SELECT A CLASS CODE TO COPY
3. COPY ALL PARTS

OPTION(1)? 2

CLASS CODE GROUP(1)? 2

CLASS CODE? 100

IM RECORDS ADDED :	1	IM RECORDS REFRESHED :	806
PSF RECORDS ADDED :	4618	PSF RECORDS DELETED :	4610
RTFIL RECORDS ADDED:	636	RTFIL RECORDS DELETED:	632

ENTER THE ORIGIN OF THE DATA BASES:

1. MANUFACTURING DB TO MANUFACTURING DB
2. ENGINEERING DB TO ENGINEERING DB
3. MANUFACTURING DB TO ENGINEERING DB
4. ENGINEERING DB TO MANUFACTURING DB

OPTION (1)?

COMMAND (TEST, MG, 0)? E

*