

# SYSMAIN DDMs

All SYSMAIN functions except the FIND and RENAME functions can be performed on DDMs.

The DDM environment specification must always correspond to the relevant DBID and FNR of the FDIC files.

This section covers the following topics:

- DDM Menu
- Processing Status
- Direct Commands for DDMs
- DDMs in Batch Mode

## DDM Menu

The DDMs menu contains all SYSMAIN functions for the processing of DDMs (there are no subfunction menus for DDMs):

```

18:37:11          ***** NATURAL SYSMAIN UTILITY *****          1999-11-18
User SAG              - DDMs -                               Library SYSMAIN

                                Code  Function
                                C    Copy   DDMs
                                D    Delete DDMs
                                L    List   DDMs
                                M    Move   DDMs
                                ?    Help
                                .    Exit

      Code ..... C      Sel. List ... Y
DDM   Name ..... _____
      DDM DBID ... _____ DDM FNR ..... _____
Source Database ... 10___ File ..... 50___ Name ... _____
Target Database... 10___ File ..... 60___ Name ... _____
Options Replace .... N      Del.NSC-Def. N

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Copy Del      List Move      Fsec Fdic
    
```

The DBID and FNR of the DDM are used as part of the selection criteria. Only DDMs which were cataloged with the DBID and/or FNR specified are selected. If these fields are set to zero, no verification takes place.

If selective processing has been selected, a selection list is displayed.

If there are more DDMs in a library than can be displayed on a single screen, the additional DDMs can be displayed by pressing ENTER.

**Note:**

If a DDM is deleted with SYSMAIN, the corresponding Natural Security file profile is automatically deleted, too.

Select specific DDMs for processing by entering option **A** (Process DDM) in column **C** (code) to the left of the DDM name. A question mark (?) in this column invokes a window listing all options available for the specific function.

The options which can be entered on a COPY, DELETE or MOVE selection list have the following meanings:

Process DDM	Process all DDMs specified. Option <b>A</b> is not available with the LIST function.
List DDM	List the specified DDM before performing any action on it.
List Automatic Rules	List all automatic rules linked to the specified DDM(s). If one or more DDMs have been selected for listing of their automatic rules, the message Rules Listed is displayed.

The field Del. NSC-Def. indicates deletion of Natural Security definitions. If a DDM is deleted from a source environment or moved to a new environment, and different FSEC files have been specified, you can use this parameter to specify whether or not to delete the DDM definition in the source FSEC file. Indicate **N** to keep the DDM definition in the source FSEC. Indicate **Y** to delete the DDM definition in the source FSEC.

**Note:**

This field only appears in a Natural Security environment.

## Processing Status

After the individual DDMs have been selected on the selection list, they are processed by SYSMAIN and an appropriate message is displayed in the message column.

Message	Explanation
Replaced	Replace option was set to <b>Y</b> and the target DDM was deleted before the COPY or MOVE function was completed.
Not Replaced	Replace option was set to <b>N</b> and a DDM of the same name already exists in the target environment; function not completed.
Err: NAT4852	A Natural Security violation occurred; function not completed.
Exit: <i>nmn</i>	A user exit routine was active and a non-zero return code was returned by the exit ( <i>nmn</i> = the return code); function not completed. See also User Exits.

## Direct Commands for DDMs

The direct command syntax for processing DDMs is shown in this section. (Since the *where-clause* and *with-clause* syntax are identical for each command, they are only shown once with the COPY and MOVE command syntax below.)

**Note:**

For compatibility reasons, instead of the keyword DDM you can use the keyword VIEW (its short form V) in direct commands for DDMs.

## COPY and MOVE Direct Command Syntax

```
{COPY}  
{MOVE} DDM name FM [where-clause] TO [where-clause] [with-clause]
```

### where-clause

```
[WHERE] [DBID dbid] [FNR file-nr] [NAME name] [CIPHER cipher ]  
      [ {PASSWORD}  
      PSW password ]  
      [DIC (dbid, fnr, psw, ciph)  
      [SEC (dbid, fnr, psw, ciph)
```

#### Note:

Commas must be used as separators between the values following the DIC and SEC keywords; or if a value is missing. For example: DIC(10,,secret,2a). If the session parameter ID has been set to a comma, use a slash (/) sign as the separator between values.

The DBID, FNR, CIPHER and PASSWORD specifications can be used instead of the corresponding DIC specifications, or vice versa. If an item is specified twice, the one specified last will be used.

### with-clause

```
[WITH] [DDMDBID DDM-dbid] [DDMFNR DDM-fnr] [REPLACE] [HELP] [MON]
```

#### Examples:

```
C DDM PERSONNEL FM FNR 20 TO FNR 24 REPLACE  
COPY DDM C< FM FNR 20 TO FNR 24
```

```
M DDM PERSONNEL FM FNR 20 TO FNR 24 REPLACE  
MOVE DDM C< FM FNR 20 TO FNR 24
```

## DELETE Direct Command Syntax

```
DELETE DDM name [with-clause] [IN [where-clause]
```

#### Example:

```
DEL DDM FINANCE IN DBID 12 FNR 27
```

## LIST Direct Command Syntax

```
LIST DDM name [IN where-clause] [with-clause]
```

### Example:

```
L DDM * IN DBID / FNR 5
```

## DDMs in Batch Mode

A report is provided to show the status of DDMs processed in batch mode.

By using Online Report Mode, you can obtain the SYSMAIN batch report online. If required, you can also obtain a hardcopy of the report using the %H option.