

# SYSMAIN DL/I Subfiles

This section covers the following topics:

- General Information
- Processing Status
- Direct Commands for DL/I Subfiles

## General Information

If the Natural interface to DL/I is installed, SYSMAIN can also be used to process DL/I subfiles.

Subfiles are:

- **NDBs** = DL/I DBDs (Database Descriptions) defined to Natural.
- **NSBs** = DL/I PSBs (Program Specification Blocks) defined to Natural.
- **UDFs** = DL/I User-Defined Fields defined to Natural.

For more information on NDBs, NSBs, DBDs, PSBs and UDFs, see the Natural for DL/I documentation.

The DL/I Subfiles menu contains all SYSMAIN functions for the processing of DL/I Subfiles (there are no subfunction menus for DL/I Subfiles):

```

11:42:45          ***** NATURAL SYSMAIN UTILITY *****          1999-11-22
User SAG          - DL/I Subfiles -                               Library SYSMAIN

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

                                Code ..... C                      Sel. List ... Y

Subfile Name ..... *_____ Type ... D
Source Database .. 10___ File ... 50__ Name ..... _____
Target Database .. 10___ File ... 60__ Name ..... _____
Options Replace ... 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 SYSMAIN handling of DL/I subfiles is analogous to the handling of DDMs, with the difference that in direct commands you use the keyword DL1 instead of DDM.

In addition, instead of the DDM DBID and FNR, with DL/I subfiles, the subfile type can be specified as part of the selection criteria. Possible types are **D** for NDBs and UDFs, and **P** for NSBs. If the Type field is left blank, an error message is returned.

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

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

Select specific DL/I subfiles for processing by entering option A (see below) in column C (code) to the left of the DL/I subfile name. A question mark (?) in this column invokes a window listing the options available for the specific function.

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

Option	Explanation
A	Process NSB Subfile or NDB and UDF Subfile Process all DL/I subfiles specified. Option A is not available with the LIST function.
L	List NSB Subfile or NDB and UDF Subfile List the specified DL/I subfile before you perform any action on it.

## Processing Status

After the individual DL/I subfiles 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 Y and the target DL/I subfile was deleted before the COPY or MOVE function was completed.
Not Replaced	Replace option was set to N and a DL/I subfile with the same subfile 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 Exit Routines.

## Direct Commands for DL/I Subfiles

The direct command syntax for processing DL/I subfiles 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.)

### COPY and MOVE Direct Command Syntax

<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>COPY</b> <b>MOVE</b> </div>	<b>DL1</b> <i>subfile-name</i> [ <i>with-clause</i> ] <b>FM</b> [ <i>where-clause</i> ] <b>TO</b> [ <i>where-clause</i> ]
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**where-clause**

<p>[WHERE] [DBID <i>dbid</i>] [FNR <i>file-nr</i>] [NAME <i>name</i>]            [CIPHER <i>cipher</i>] [ { PASSWORD } password ]                                    [ PSW ]</p>
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**with-clause**

<p>[WITH] [TYPE <i>type</i>] [REPLACE] [HELP] [MON]</p>
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**Examples:**

COPY DL1 SUBFILE1 TYPE D FM DBID 1 FNR 5 TO DBID 2 FNR 5  
COPY DL1 SUBFILE REP FM FNR 6 TO FNR 7 TYPE D  
COPY DL1 SUBFILE1 TYPE P TO DBID 3 FNR 7

MOVE DL1 SUBFILE1 TYPE D FM DBID 1 FNR 5 TO DBID 2 FNR 5  
MOVE DL1 SUBFILE1 REP FM FNR 6 TO FNR 7 TYPE D

**DELETE and LIST Direct Command Syntax**

<p>{ DELETE }  { LIST } DL1 <i>subfile-name</i> [IN [<i>where-clause</i>]] [<i>with-clause</i>]</p>
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**Examples:**

DEL DL1 S\* TYPE D  
DEL DL1 TEST\* IN DBID 177 FNR 205 TYPE D

LIST DL1 SUBFILE\* IN DBID 1 FNR 5 TYPE D  
LIST DL1 SF\* TYPE P