

Transferring Security Data To Another System File

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General Information

This section describes how to transfer Natural Security data from one system file to another. This is only relevant if you use two Natural Security system files.

A Natural Security system file is specified with the Natural profile parameter FSEC (which is described in the Natural Reference documentation).

The library SYSSEC contains two programs for the transfer of Natural Security data from one system file to another - SECULD and SECLOAD:

- SECULD is used to unload data from one system file to a work file.
- SECLOAD is used to load the data from the work file onto the other system file.

The selection of data to be transferred is done with SECULD. SECLOAD will always attempt to transfer the complete work file. However, SECLOAD will check whether the data to be transferred are consistent with the data already stored on the system file. Inconsistent data will not be loaded.

The programs SECULD and SECLOAD you use must both be of the same Natural Security version. Moreover, it is recommended that the latest available version of SECULD and SECLOAD be used.

Using SECULD

To invoke SECULD, you enter the command "SECULD" in the command line of any Natural Security screen. The SECULD menu will be displayed.

To select the type of data to be transferred, you enter one of the following function codes on the SECULD menu:

Function Code	Type of Data to be Unloaded
*	All security data.
D	All security data with deletion (all data will be loaded onto the work file and be deleted from the system file).
O	Objects defined in Natural Security (users, libraries, utility profiles, etc.).
L	Links between users and objects.
F	Links between libraries/private libraries and files (this function is only available on mainframes).
C	Components of library profile (this function is not available on mainframes).
P	Default profiles (user or utility profiles).

In addition to the function code, you can specify the following on the SECULD menu:

Transfer	<p>With this option, you specify to which work file the selected data are to be written:</p> <p>Y The data will be written to Work File 1 in alphanumeric form (this is the default for non-mainframe environments). Work File 1 can be used for any form of transfer supported by SECULD/SECLOAD.</p> <p>N The data will be written to Work File 5 in binary form (this is the default for mainframe environments). Work File 5 can only be used if the data are to be transferred to another system file on the same hardware platform.</p>
Object Type	<p>If you select function code "O", "L" or "P", you also have to specify the type of object/link to be unloaded.</p> <p>If you select function code "C", you also have to specify the type of components (DDM profiles) to be unloaded.</p> <p>For a selection list of possible types, enter a question mark (?) in the Object Type field.</p>
Start Value	<p>You may specify an ID (optionally with asterisk notation) to transfer a certain object or range of objects (not applicable to function codes "*" and "D").</p>
Number	<p>You may specify the number of objects to be transferred (not applicable to function codes "*" and "D").</p>
Date from/to	<p>You may specify two dates to load only objects which were created/last modified in that period of time (not applicable to function code "D").</p>
Work File	<p>You specify the name of the work file to which the data are to be written. If you use Work File 5, the work-file name must end with ".sag".</p> <p>This field is not available on mainframes.</p>
Ty	<p>The type of work file:</p> <p>D Default.</p> <p>N Entire Connection work file.</p> <p>This field is not available on mainframes.</p>

Using SECLOAD

To invoke SECLOAD, you enter the command "SECLOAD" in the command line of any Natural Security screen. You will then be prompted to make the following specifications:

Load NSC Data from Work File 1	<p>Y The data will be read from Work File 1 (this is the default for non-mainframe environments).</p> <p>N The data will be read from Work File 5 (this is the default for mainframe environments).</p> <p>2 The data will be read from Work File 2 (see Transferring Data from Version 2.1 below).</p>
User-Defined Conversion Table	This is the same as the corresponding load option of the SYSTRANS utility (see the section Load, Scan and Restart Load Functions in the Natural SYSTRANS Utility documentation).
Work File	<p>You specify the name of the work file from which the data are to be written.</p> <p>This field is not available on mainframes.</p>
Type of Work File	<p>D Default.</p> <p>N Entire Connection work file.</p> <p>This field is not available on mainframes.</p>

Note:

Data which are inconsistent or which already exist on the target system file will not be loaded. To ascertain why data were not loaded, please refer to the load report.

Transferring Data to Another Hardware Platform

With SECULD and SECLOAD, you can also transfer security data from one hardware platform to another.

To do so, you enter a "Y" in the Transfer field of the SECULD menu.

By pressing PF4, you can then invoke an additional window in which you can specify the following optional parameters:

Target Environment	The operating system (as in the Natural system variable *OPSYS) of the target environment.
Target FSEC DBID/FNR	The database ID and file number of the FSEC system file to which the data are to be transferred. SECLOAD will compare these specifications with the DBID/FNR of the actual FSEC file to which the data are to be loaded: if they are not the same, the data cannot be loaded. In this way, you can prevent an uncontrolled loading of security data. Otherwise anybody who got hold of the work file, could load it anywhere.
Conversion EBCDIC-ASCII	These are the same as the corresponding unload options of the SYSTRANS utility (see the section Unload Functions in the Natural SYSTRANS Utility documentation).
User-Defined Conversion Table	

The data will then be written, in alphanumeric form, to Work File 1, from where they can be loaded with SECLOAD.

Note:

When data are transferred from a mainframe platform to another platform, SECLOAD also checks if library IDs conform to the naming conventions for libraries (as described under the system command LOGON in the Natural Reference documentation).

Transferring Data from Version 2.1 on OpenVMS and UNIX

With SECULD and SECLOAD, you can also transfer security data from Natural Security Version 2.1 to Version 4.1.

This functionality is only available under OpenVMS and UNIX.

Unloading in the Version 2.1 Environment

On the SECULD menu, you enter a "Y" in the Transfer field. By pressing PF4, you can then invoke an additional window in which you can make the same specifications as for the transfer to another hardware platform (see Transferring Data to Another Hardware Platform above).

The data will then be written in alphanumeric form to Work File 1.

Loading in the Version 4.1 Environment

From the above work file, the data can then be loaded with SECLOAD. In the target environment, however, that work file must be assigned as Work File 2, as SECLOAD reads from Work File 2 for the version-to-version transfer.

When you invoke SECLOAD and enter a "2" in the Load From Work File field of the first window to be displayed, another window will be displayed in which you can make various specifications for options that are new with Version 4.1, but did not exist with Version 2.1.

Transferring Data from Version 3.1 on OpenVMS, UNIX and Windows NT

This section only applies under OpenVMS, UNIX and Windows NT.

A transfer of existing Version 3.1 security data to another system file is not necessary, because you can continue to use your existing Version 3.1 FSEC system file to be shared by Natural Security Versions 3.1 and 4.1.

However, should you decide to use a new FSEC file for Version 4.1 and wish to transfer existing Version 3.1 security data to this new file, you unload/load the data using the standard SECULD/SECLOAD transfer procedure by using Work File 1.

Transferring Data in Batch Mode

Examples of SECULD/SECLOAD in Batch Mode on Mainframes

Example jobs for executing SECULD and SECLOAD in batch mode on mainframe computers are shown below.

Example 1 of SECULD Job:

In this example, all users whose IDs begin with "LP" and who were last modified between 1st January and 10th June 1999, and the library TESTLIB will be transferred to the work file CMWKF05.

```
//SECULD JOB DEMO,CLASS= ,MSGCLASS= ,REGION=2048K
//*****
//ULD EXEC PGM=NATBATnn,
// PARM='DBID=10,FNR=5,FSEC=( ,8),FDIC=( ,9),IM=D,MT=0,MAXCL=0,MADIO=0'
//STEPLIB DD DISP=SHR,DSN=NATURAL.Vnn.LOAD
// DD DISP=SHR,DSN=ADABAS.Vnn.ADALOAD
//DDCARD DD *
ADARUN PROGRAM=USER,SVC=249,DATABASE=10,MODE=MULTI
/*
//CMPRINT DD SYSOUT=*
//CMWKF05 DD UNIT=TAPE,VOL=SER=NATSEC,DSN=NSC.ULD,
// DCB=(RECFM=VB,LRECL=4624,BLKSIZE=4628,DEN=3),DISP=( ,KEEP)
//CMSYNIN DD *
SYSSEC,DBA,PASSWORD
SECULD
O,N,US,LP*,,1999-01-01,1999-06-10
O,N,LI,TESTLIB,1
.
FIN
/*
```

Example 2 of SECULD Job:

In this example, all users whose IDs begin with "LP" will be transferred to the work file CMWKF01. If the "Transfer" option is specified as "Y", the job must contain a line for additional parameters (see Transferring Data to Another Hardware Platform above). In this example, no additional parameter specifications are made (that is, they are either not specified or specified as "N").

```

//SECULD JOB DEMO,CLASS= ,MSGCLASS= ,REGION=2048K
//*****
//ULD EXEC PGM=NATBATnn,
// PARM='DBID=10,FNR=5,FSEC=( ,8),FDIC=( ,9),IM=D,MT=0,MAXCL=0,MADIO=0'
//STEPLIB DD DISP=SHR,DSN=NATURAL.Vnn.LOAD
// DD DISP=SHR,DSN=ADABAS.Vnn.ADALOAD
//DDCARD DD *
ADARUN PROGRAM=USER,SVC=249,DATABASE=10,MODE=MULTI
/*
//CMPRINT DD SYSOUT=*
//CMWKF01 DD UNIT=TAPE,VOL=SER=NATSEC,DSN=NSC.ULD,
// DCB=(RECFM=VB,LRECL=4624,BLKSIZE=4628,DEN=3),DISP=( ,KEEP)
//CMSYNIN DD *
SYSSEC,DBA,PASSWORD
SECULD
O,Y,US,LP*
,,N,N
.
FIN
/*

```

Example 3 of SECULD Job:

In this example, all libraries whose IDs begin with "SF" will be transferred to the work file CMWKF01. The target environment is a PC, and the database ID and file number of the target FSEC system file are 89 and 356.

```

//SECULD JOB DEMO,CLASS= ,MSGCLASS= ,REGION=2048K
//*****
//ULD EXEC PGM=NATBATnn,
// PARM='DBID=10,FNR=5,FSEC=( ,8),FDIC=( ,9),IM=D,MT=0,MAXCL=0,MADIO=0'
//STEPLIB DD DISP=SHR,DSN=NATURAL.Vnn.LOAD
// DD DISP=SHR,DSN=ADABAS.Vnn.ADALOAD
//DDCARD DD *
ADARUN PROGRAM=USER,SVC=249,DATABASE=10,MODE=MULTI
/*
//CMPRINT DD SYSOUT=*
//CMWKF01 DD UNIT=TAPE,VOL=SER=NATSEC,DSN=NSC.ULD,
// DCB=(RECFM=VB,LRECL=4624,BLKSIZE=4628,DEN=3),DISP=( ,KEEP)
//CMSYNIN DD *
SYSSEC,DBA,PASSWORD
SECULD
O,Y,LI,SF*
WNT-X86,89,356,N,N
.
FIN
/*

```

Example 1 of SECLOAD Job:

In this example, the data will be read from work file 5 (CMWKF05).

```
//SECLOAD JOB DEMO,MSGCLASS= ,CLASS= ,REGION=2048K
//*****
//LOAD EXEC PGM=NATBATnn,
// PARM='DBID=7,FNR=23,FSEC=( ,24),FDIC=( ,25),EJ=OFF,MT=0,IM=D,MADIO=0,MAXCL=0'
//STEPLIB DD DSN=NATURAL.Vnn.LOAD,DISP=SHR
// DD DSN=ADABAS.Vnn.ADALOAD,DISP=SHR
//CMPRINT DD SYSOUT=*
//DDCARD DD *
ADARUN PROGRAM=USER,SVC=249,DATABASE=7,MODE=MULTI
/*
//CMWKF05 DD UNIT=TAPE,VOL=SER=NATSEC,DSN=NSC.ULD,DISP=SHR
//CMSYNIN DD *
SYSSEC,DBA,PASSWORD
SECLOAD
N,N
FIN
/*
```

Example 2 of SECLOAD Job:

In this example, the data will be read from work file 1 (CMWKF01).

```
//SECLOAD JOB DEMO,MSGCLASS= ,CLASS= ,REGION=2048K
//*****
//LOAD EXEC PGM=NATBATnn,
// PARM='DBID=7,FNR=23,FSEC=( ,24),FDIC=( ,25),EJ=OFF,MT=0,IM=D,MADIO=0,MAXCL=0'
//STEPLIB DD DSN=NATURAL.Vnn.LOAD,DISP=SHR
// DD DSN=ADABAS.Vnn.ADALOAD,DISP=SHR
//CMPRINT DD SYSOUT=*
//DDCARD DD *
ADARUN PROGRAM=USER,SVC=249,DATABASE=7,MODE=MULTI
/*
//CMWKF01 DD UNIT=TAPE,VOL=SER=NATSEC,DSN=NSC.ULD,DISP=SHR
//CMSYNIN DD *
SYSSEC,DBA,PASSWORD
SECLOAD
Y,N
FIN
/*
```