Utilities: XFER3 for Funds Transfer

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NOTE: This document is largely obsolete, since EI&O stopped charging most users for most purposes. -dpb- 2014-10-27

XFER3 is a general purpose funds transfer program that allows you to transfer funds between userids under your control. This document explains how to transfer funds, list restrictions on transferring funds, and shows sample input and output.

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Utilities: XFER3 for Funds Transfer

Introduction

To use the XFER3 utility, you must create a simple program to run on our z/OS (OS/390) operating system.

A Web-based interface to XFER3 is available at http://www.cns.ufl.edu/utils/. However, to use the web-based interface, you will need to use Internet Explorer (IE) version 6 or Firefox version 1.x; you cannot use Internet Explorer (IE) version 7. Neon Shadow Web, the program that we use to interface with the z/OS computer does not support SSL 2.0 which is required by IE 7.

To use XFER3 in batch mode, use a text editor (like ISPF in TSO) to type the JCL and control statements into a file. Items in lowercase are supplied by you; items in uppercase must be typed exactly as they appear. All text in the file must be in uppercase. Save your file.

To run your job, enter

SUBMIT filename

XFER3 is a general-purpose funds transfer program that allows you to transfer funds between userids under your control.

JCL

Use the following JCL to access XFER3:

//jobname JOB , 'your name',CLASS=U
/*JOBPARM TIME=time,LINES=lines
/*ROUTE PRINT node.location
// EXEC XFER3
   ...control statement(s)...
*/

This job must run under the controlling userid. In order to submit your XFER3 job from a userid that is not the controlling userid, use the following JCL:

//jobname JOB , 'your name',CLASS=U,
// USER=controlling userid,PASSWORD=controlling userid password
/*JOBPARM TIME=time,LINES=lines
/*ROUTE PRINT node.location
// EXEC XFER3
   ...control statement(s)...
*/

Control Statements

Control statements have the following basic format:

keyword amount FROM (donor) TO (receiver) comment

The keyword must come first. It can be preceded by blanks and must be followed by one or more blanks. Operands may be written in any order and must be separated by a comma and/or
one or more blanks. After all required operands have been entered, the remainder of the statement may contain comments. Each line is limited to 72 characters. Continuation to another line is accomplished by placing a comma at the end of the first line of the statement.

**Table 1. Available Commands**

<table>
<thead>
<tr>
<th>KEYWORDS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUND</td>
<td>Add an amount to the specified userid(s) funds.</td>
</tr>
<tr>
<td>RAISE</td>
<td>Increase specified userid(s) funds to the specified amount.</td>
</tr>
<tr>
<td>RETRIEVE</td>
<td>Retrieve an amount from the specified userid(s) funds and put it back into the controlling userid. No money is retrieved if the userid has less than that amount.</td>
</tr>
<tr>
<td>BALANCE OF</td>
<td>Display the current balance of the specified userid(s).</td>
</tr>
</tbody>
</table>

**Specifying Amounts**

This field states the amount of money to be placed into or retrieved from a userid. The amount may have any of the following forms:

<table>
<thead>
<tr>
<th>xxxx</th>
<th>xxxx dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>$xxxx</td>
<td>$xxxx dollars</td>
</tr>
<tr>
<td>$xx.cc</td>
<td>xx dollars and cc cents</td>
</tr>
<tr>
<td>$xx.c</td>
<td>xx dollars and c0 cents</td>
</tr>
<tr>
<td>$.cc</td>
<td>cc cents</td>
</tr>
<tr>
<td>$ALL</td>
<td>used only to RETRIEVE all funds from userid(s)</td>
</tr>
</tbody>
</table>

**From, To, and Of Keywords**

For each statement, the FROM keyword is followed by the userid from which funds are to be taken. The TO keyword is followed by the userid into which funds are to be placed. For the BALANCE command, the userid is prefaced by the keyword OF.

**Controlling Userid**

The controlling userid may be used as a donor with the FUND or RAISE command or as the receiver for a RETRIEVE command. The controlling userid must be enclosed in parentheses and is coded as follows:

(userid), (access number,seq), or (access number)
If the controlling userid is omitted from the control statement, the userid under which the job is run will be assumed to be the controlling userid. If an access number is used and the sequence number is omitted, sequence 1 (one) is assumed. Funds transfer jobs will execute only if the controlling userid is authorized to transfer funds to the specified userid(s).

Subordinate Userid(s)

The subordinate userid may be used as the receiver for the `FUND` or `RAISE` commands and as the donor for the `RETRIEVE` command. The subordinate userid(s) must be enclosed in parentheses and is coded as follows:

\[(userid(s)), (G=group), or (access number,seq)\]

Multiple userid may be specified as follows:

\[(userid1, userid2, ...useridn) or (G=group)\]

All userids under the specified group will be used. Multiple sequence number selection is no longer available.

Use Restrictions

**FUND, RAISE, and RETRIEVE.** These commands may only be used by someone who has authority to transfer funds and may only be used to transfer funds between userids under the controlling userid's domain.

**BALANCE OF.** Individual userids or groups may be selected using this command. For example, the following may be used:

\[(userid), (G=group), (access number), or (access number,seq)\]

You may not include a list of userids or sequence numbers. In order to select multiple userids, use the following operand:

<table>
<thead>
<tr>
<th>Operand</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(G=group)</td>
<td>lists all userids for the specified group</td>
</tr>
<tr>
<td>(access number)</td>
<td>lists all userids for the specified access number</td>
</tr>
</tbody>
</table>

Control Statement Examples

```
//jobname JOB , 'your name', CLASS=U
/*JOBPARM TIME=time, LINES=lines
/*ROUTE PRINT node.location
// EXEC XFER3
... control statement(s)
```

```
FUND FROM (PICARD) TO (G=BAJOR) $5
```

(This statement would put 5 dollars in each userid in group BAJOR. The money would be removed from the PICARD
userid.)

FUND TO (GEORDI, DEANNA) FROM (PICARD) $.50 (This statement would put 50 cents in GEORDI and DEANNA's userids and would remove $1.00 from PICARD's userid.)

FUND $1 FROM (30004000) TO (30004000, 2) (This statement would put $1.00 in sequence 2 of access number 30004000 and would remove $1.00 from sequence 1 of access number 30004000.)

RAISE FROM (PICARD) $50 TO (GEORDI) (This statement would increase GEORDI's account to $50.00 if it is less than $50.00 and would remove the money from PICARD's userid.)

RAISE $10.0 TO (G=STUDENT) (This would raise all userids in the group STUDENT to a balance of $10.00 and would remove the money from the controlling userid.)

RETRIEVE FROM (G=STUDENT) $ALL (This statement would retrieve the entire balance from each of the userids in the group STUDENT and place the money in the controlling userid account.)

RETRIEVE $10 FROM (DEANNA) TO (PICARD) (This statement would retrieve ten dollars from DEANNA's account (assuming she had $10.00 or greater) and place the money in PICARD's account. No money would be removed if DEANNA's balance was less than $10.00.)

BALANCE OF (This statement would give the balance of the controlling userid.)

BALANCE OF (G=STUDENT) (This statement would give the balance of all userids in the group STUDENT.)

BALANCE OF (30004000) (This statement would display the balance of all userids with access number 30004000.)

Sample Output

COMMAND IS FUND $10.00 FROM PICARD TO DEANNA
DEANNA WAS FUNDED $ 10.00 NEW BALANCE IS $30.00
A TOTAL OF $ 10.00 WAS REMOVED FROM PICARD NEW BALANCE IS $150.00
COMMAND IS RAISE $20 TO GEORDI FROM PICARD
GEORDI WAS SET TO $20.00 NEW BALANCE IS $20.00
A TOTAL OF $ 5.00 WAS REMOVED FROM PICARD NEW BALANCE IS $145.00
COMMAND IS RETRIEVE $10 FROM WORF TO PICARD
WORF WAS REMOVED OF $10.00 NEW BALANCE IS $20.00
A TOTAL OF $10.00 WAS RETEIVED INTO PICARD NEW BALANCE IS $165.00
COMMAND IS BALANCE

<table>
<thead>
<tr>
<th>USERID</th>
<th>NAME</th>
<th>GROUP</th>
<th>ACCESS</th>
<th>SEQ</th>
<th>MTD</th>
<th>AMT</th>
<th>YTD</th>
<th>AMT</th>
<th>BALANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICARD</td>
<td>JEAN LUC</td>
<td>PICARD</td>
<td>ENTRPRSE</td>
<td>30004000</td>
<td>1</td>
<td>20.00</td>
<td>1234.56</td>
<td>165.00</td>
<td></td>
</tr>
</tbody>
</table>

Your Comments are Welcome

We welcome your comments and suggestions on this and all EI&O documentation. Please
send your comments to:

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