

## Using the XMT Transmit Facility

### Overview

Transmitting files is the preferred way of transferring datasets between z/OS sites. It is the best way of sending load libraries, object code, prepped ISPF panels but it will also work for source files, plain text files etc. It works for sequential files and partitioned datasets alike.

The XMT facility will 'transmit' datasets using either the IBM TRANSMIT program or the CBT SUPERXMT program (if installed).

The SUPERXMT program is available from the CBT tape in file number 830.

If the SUPERXMT program is available it is used instead of the IBM TRANSMIT program.

### Components of the XMT Facility

The XMT facility is comprised of two partitioned datasets and one sequential dataset. One of the partitioned datasets is the required REXX library containing four members. The other is the required ISPF panel library containing the ten prepped ISPF panels.

The members of the REXX library are: **CHECKDSN**, **EDITREC**, **FINDMOD** and **XMT**.

The members of the panel library are: **ASLXMT01** to **ASLXMT06** and their associated help panels (**ASLXMT1H** to **ASLXMT6H**).

The sequential dataset is a binary copy of this document in PDF format.

### Installing the XMT Facility

To install the XMT facility you will need to file transfer the XMIT file as a binary file. It is vitally important to transfer this file in binary format. Once the file is successfully transferred to your system receive it using the standard IBM RECEIVE command. To do this navigate to TSO option 6 and enter the following.:

```
RECEIVE 'your.dataset.name'
```

Where '*your.dataset.name*' is the name you saved the supplied file under when you file transferred it.

Once the file is RECEIVED you will need to execute the UNPACK member. This will RECEIVE the REXX and ISPF panel libraries. To execute the UNPACK member enter the following on the TSO option 6 screen:

```
EX 'your.received.dataset.name(UNPACK)'
```



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Where *'your.received.dataset.name'* is the name of the file created when you received the file.

Alternatively, you can issue the 'EX' command from the member list:

```
Menu  Functions  Confirm  Utilities  Help
-----
EDIT  ABBYDALE.XMT.PDS  Row 00001 of 00006
Command ==>
-----
Name      Prompt      Size  Created      Changed      CSR_
-----
$$$INDEX
$$$INSTAL
ISPPREP
README
REXX
EX UNPACK
**End**
```

UNPACK will issue several prompts to allow site customization to take place:

```
You are about to extract the package XMT.
Reply Y to continue. Any other response to terminate
y
Lets go then....
Enter the HLQ to use. Default is your own userid i.e. MIT001

Volume serial to install XMT on.
(Leave blank to use a default volume)

HLQ to use: MIT001
VOL to use:

Please do NOT try to reply to any prompts after this one
OK to continue? (Y or N)
```

Once all the prompts are replied to the XMT facility installation will proceed.

**Important:** Do NOT reply to any further prompts that are issued. The installation process will take care of them.

Once the exec has finished you should read the \$\$\$INSTAL member of the PDS containing the UNPACK exec for details on how to complete the installation of the XMT facility.



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The XMT facility can be invoked either from the ISPF 3.4 panel or as a regular REXX exec but it must be run under ISPF. It can be used to transmit either a single file or multiple files.

```
Menu Options View Utilities Compilers Help
-----
DSLIST - Data Sets Matching ABBYDALE.XMT          Row 1 of 4
Command ==> _____ Scroll ==> CSR_

Command - Enter "/" to select action           Message           Volume
-----
xmt  ABBYDALE.XMT.ISPPREP                      ABBY03
      ABBYDALE.XMT.PDS                        ABBY03
      ABBYDALE.XMT.PDS.XMIT                  TEST01
      ABBYDALE.XMT.REXX                      ABBY01
***** End of Data Set list *****
```

Invoking XMT from the ISPF 3.4 Menu

Whether you are doing multiple files or a single file XMT is invoked simply by typing “xmt” next to the dataset. If you are transmitting multiple files the dataset is considered to be the one containing a list (but this can be overridden).

The first screen displayed will allow the user to decide whether to do a single file or multiple files:

```
Menu Options View Utilities Compilers Help
-----
Process Multiple Files?
-----
Option ==> _____
*****
*** Do you want to TRANSMIT multiple files? ***
*** Reply Y or N [ ] ***
*****
*** Press PFK3 to terminate ***
*****
***** Copyright Abbydale Systems *****
***** 2017 - 2021 *****
*****

D
C
C
X
*
-----
Row 1 of 4
11 ==> CSR
Volume
-----
ABBY03
ABBY03
TEST01
ABBY01
*****
```

ASLXMT01 Screen

The next screen displayed will depend upon the option selected.

If you are only wanting to transmit one dataset and want to bypass the above screen then you can invoke **XMT** with an optional parameter of **1** i.e



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```
Menu Options View Utilities Compilers Help
DSLIST - Data Sets Matching ABBYDALE.XMT                               Row 1 of 4
Command ==> _____ Scroll ==> PAGE
Command - Enter "/" to select action                                Message                                Volume
-----
xmt / 1  ABBYDALE.XMT.ISPPREP                                        ABBY03
         ABBYDALE.XMT.PDS                                          ABBY03
         ABBYDALE.XMT.PDS.XMIT                                     SYSDA1
         ABBYDALE.XMT.REXX                                         ABBY01
***** End of Data Set List *****
```

If you are running XMT as a rexx command you can use:

```
xmt 'yourdsname' 1
```

## Single File

If you select the single file option then the screen you see displayed next will depend on if the original dataset is a partitioned or sequential file.

For a partitioned dataset the following screen is displayed:

```
Transmission Values Definition Panel                                USERID - MIT001
Option ==> 
*****
* Date : 22/02/07           Time : 20:17           Julian Date : 2022.038 *
*****
* Transmit dataset:
*
*   ABBYDALE.XMT.PDS
*****
*   Member name (* for all members) ... * _____
*
*   Target Dataset Name (If blank XMIT will be suffixed)
*
*   _____
*
*   Node Name to be used ..... ABBYDALE
*
*   Userid to be used ..... MIT001_
*****
*   Press PFK3 to terminate
*****
*   Copyright Abbydale Systems LLC
*   2017 - 2022
*****
```

Partitioned Dataset Value Definition Panel

For a sequential dataset the following screen is displayed:





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```
Transmission Values Definition Panel                                USERID - MIT001
Option ==>> 
*****
* Date : 22/02/07          Time : 20:24          Julian Date : 2022.038 *
*****
* Transmit dataset:
*
*   ABBYDALE.XMT.PDS.XMIT
*
*****
* Target Dataset Name (If blank XMIT will be suffixed)
*
* _____
*
* Node Name to be used ..... ABBYDALE
*
* Userid to be used ..... MIT001_
*
*****
* Press PFK3 to terminate
*****
* Copyright Abbydale Systems LLC
* 2017 - 2022
*****
```

Sequential Dataset Value Definition Panel

Once the values have been entered (or the defaults accepted) press 'enter' and the file will be transmitted using the designated transmit program file. (either TRANSMIT or SUPERXMT)

## Multiple Files

If you choose the transmit multiple files you will get the following screen displayed:

```
Transmission Values Definition Panel                                USERID - MIT001
Option ==>> 
*****
* Date : 22/02/07          Time : 20:29          Julian Date : 2022.038 *
*****
* Dataset list dataset:
*
*   ABBYDALE.DEVL.REXX_____
*
* Member name containing list ..... _____
*
* Suffix Transmitted datasets with ... XMIT_____
*
* Node Name to be used ..... ABBYDALE
*
* Userid to be used ..... MIT001_
*
*****
* Press PFK3 to terminate
*****
* Copyright Abbydale Systems LLC
* 2017 - 2022
*****
```

Multiple Datasets Value Definition Panel



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These panels will allow you to specify the dataset and member name that contains a list of datasets to be transmitted.. When enter is pressed the member list is opened for edit. When the list is saved the processing of the transmit begins providing the data names are valid. If, by adding the suffix to a dataset name in the list, the length exceeds 44 characters the dataset is reduced by the least significant level until the length is 44 characters or less. If this results in a dataset name that exists you are given the option to change the output dataset name or overwrite the existing dataset.

Whether a single file is being transmitted or multiple files the output dataset name(s) will have a suffix appended to them. The suffix can be defined by the user. The default suffix will be **XMIT**. If, by appending a suffix the length will exceed 44 characters then the dataset name will be stripped back until it is able to be appended. This could cause a dataset to get overwritten if names get stripped back and end up with the same name for the transmitted datasets. In this case the facility will prompt you to allow you to change the name to be used rather than overwrite an existing dataset. **Note: Source datasets names will always remain unchanged.**

Once the files are transmitted to the XMIT file then they are ready to be file transferred to a workstation. The files **must** be transferred as **binary** format otherwise the files on the workstation will be invalid.

Once you have transferred the file or files you can, if you are on Windows, view the files using XmitManager. The files can be sent to other sites (or used as a backup) as long as they remain in XMIT format.

To restore the files the IBM program, RECEIVE, should be used once the files have be transferred to the required system. Remember that files must be transferred as **binary** format or they will be corrupted when they are RECEIVE'd.



## Using the XMT Transmit Facility

### Summary of Changes

Date	By	Description of Changes
7 <sup>th</sup> Feb 2022	KEF	Corrected spelling and changed pictures.

