# CASPLIT

**Version 1.0**

# Contents

## Contents

# Overview

The CASPLIT utility allows mainframe customers to terse, split and transmit large data files such as standalone dumps and various other z/OS related files.  The CASPLIT utility is a TSO panel-based utility that is intended to expedite mainframe customer FTP transmissions of large z/OS based files to CA Support for analysis.  The tool generates JCL jobs that Terse, Split and Transmit files to the supportftp.ca.com site using batch FTP. The tool allows you to determine the size or number of segmented files that you decide is required for your site (based on factors such as your site timeout limits or transition size).

# Installation

1) Download the file CASPLIT.ZIP file from support.ca.com.
You can find it under the tab PRODUCT DOWLOADS, and in the section FREEWARE UTILITIES/TOOLS.

2) Extract the files with the suffix XMIT from the zip file and upload them to your z/OS image.
They must be allocated with RECFM=FB and LRECL=80.

| File | Contents |
|------|----------|
| **CASPLT.ISPPLIB.XMIT** | ISPF panels(ISPPLIB) in TSO XMIT/TRANSMIT format (uses 3 tracks when expanded) |
| **CASPLT.ISPMLIB.XMIT** | ISPF Messages member(ISPMLIB) in TSO XMIT/TRANSMIT format (uses 1 track expanded) |
| **CASPLT.EXEC.XMIT** | REXX EXECs in TSO XMIT/TRANSMIT format(uses 4 tracks when expanded) |

3) The files are in TSO XMIT/TRANSMIT format. To expand/re-format them to PDS or PDS/E library format you must issue a TSO RECEIVE for each of the files. Enter the following at the TSO command line of ISPF 6 (ISPF Shell)

receive indsname('myid.casplit.ispmlib.xmit')

Replace 'myid.casplit.ispmlib.xmit' with the file name that you downloaded.
The output will look like this:

INMR901I Dataset ESS.CASPLIT.ISPMLIB from ROZRI01 on USILDAMD
INMR154I The incoming data set is a 'DATA LIBRARY'.
INMR906A Enter restore parameters or 'DELETE' or 'END' +

If you press enter without enter a value, it will allocate a file for you generating the file name. If you want to override the dataset name enter:

DA('myid.CASPLIT.ISPMLIB')

If the file exists RECEIVE will use it. If it does not exist the data set will be allocated by the RECEIVE command. All 3 files use LRECL=80 and RECFM=FB.

4) Invoke the CASPLIT REXX exec via one of the following two methods:
      a)      Add the ISPPLIB, ISPMLIB and EXEC datasets you downloaded/received to your TSO logon proc. To    execute CASPLIT type TSO CASPLIT at the command line.
      b)      Alternatively, use the supplied REXX exec with LIBDEFs. This is member CASPL in the EXEC dataset. To execute CASPLIT, execute the REXX exec CASPL from the EXEC you updated.

# TERSE File

The CASPLIT utility requires that the file be TERSED prior to being FTP'd to CA Support. You can TERSE the file with your own JCL outside of CASPLIT. It is recommended that you still enter the values for the fields "File UN TERSED" and "File TERSED". If you do not enter the input file on the main panel, space calculations will be incorrect.

Below is an example.



The output for the JCL is placed in the dataset 'myuserid.CNTL(TERSE)'. I am using an empty member as an example. This panel uses the standard ISPF data set name rule for quotes: if quotes are not used the user's userid will be prepended to the specified data set name. If the member exists be used as the template for the creation of the JCL. Where the job cards and the JCL updates as a pattern for the new JCL. Note that if this existing member is not a valid AMATERSE/TRSMAIN job then no update will occur. To create a valid TERSE job, use a new/empty member for the output so that CASPLIT will generate a default job.

The input file to the terse job should be entered next to "File UN TERSED". I entered 'SYS1.DUMP1'. This can be any file that can be tersed (sequential file or PDS). If this value is entered on the panel then it will be included in the JCL and will be reflected in the space calculation for the output file.

The output file to the terse job should be entered next to "File TERSED". I entered s0c4.dump.trs. This can be any file name that does not exist. The space value from the untersed file is used to estimate the space allocation for the "file TERSED"e. The dataset entered here will also be used in the FTP job.

JOBCARDs are left blank. I could have tabbed down and entered the jobcards to be passed to the JCL. I elected to use the default values (or template values). This is similar to IBM's ISPF option 3.6 outlist utility.

<u>The position of the cursor is important.</u> It must be located in the TERSE job section to process the terse job.

After Enter is pressed you will be placed in ISPF edit of the member.



Update the JCL as required for you site's JCL standards. Recommend that the JOBCARD and the STORCLAS/MGMTCLAS be updated. <u>Do not change the DCB</u>. The output DCB is required to be RECFM=FB or FBS and the LRECL is 1024. You can change the dataset names if required. We included a TYPRUN scan for your convenience but a JCL Check (or similar product) is recommended.

Submit the job and exit with PF#3.

# FTP File

The CASPLIT utility requires that the file be TERSED prior to being FTP'd to CA Support. You can TERSE the file with your own JCL outside of CASPLIT.

Below is an example of the setup of FTP jobs.



The value for the field "FTP JCL DSN" will be translated to 'myuserid.CNTL(FTP)'. This can be an empty member or refer an existing template. In this example I use an empty member.

The value for the field "Output file name" can be any valid output file name that will go to the FTP site. Do not use quotes (double or single) or special characters % , & , ; .

Update the "PATH" as per your issue. The current format is /siteid/issuenumber/files_from_customer

NETRC DSN is an optional field. NETRC is a method to provide your FTP userid and password in a separate dataset so that when you run a job they are not exposed in the SYSOUT DD. The member/file referred in this field must exist. This is the basic format of the NETRC member:
MACHINE supportftp.ca.com LOGIN userid@ca.com PASSWORD mypassword
If the NETRC DSN field is blank then the standard method of FTP USERID and PASSWORD is used.

After enter is pressed you will be shown the template JCL as follows.

```
   File   Edit   Edit_Settings   Menu   Utilities   Compilers   Test   Help

 XAD1        ROZRI01.CNTL(FTPA) - 01.00                    Columns 00001 00080
 Command ===> _____ Scroll ===> CSR
 ****** ***************************** Top of Data *********************************
 000001 //ROZRI01T JOB (108100000,'CA '),'CATERSE',
 000002 //* TYPRUN=SCAN,
 000003 // MSGCLASS=X,NOTIFY=&SYSUID,REGION=0M
 =NOTE= *This JCL Was initialized with CAFTP this is a  default template jcl.
 =NOTE= *Make changes to the JCL as required then run  CAFTP again to create
 =NOTE= *the split/ftp jobs.
 000004 //SPLIT     EXEC PGM=SORT
 000005 //SYSPRINT DD SYSOUT=*
 000006 //SYSOUT   DD SYSOUT=*
 000007 //SORTIN   DD DISP=SHR,DSN=ROZRI01.S0C4.DUMP.TRS
 000008 //SORTOUT  DD DSN=&&TEMP,
 000009 //          DISP=(,PASS),
 000010 //          STORCLAS=WORK,MGMTCLAS=WORK,
 000011 //          DCB=(DSORG=PS,RECFM=FBS,LRECL=1024,BLKSIZE=0),
 ==MSG> *the following line will be altered by the next run of
 ==MSG> *CASPLIT with the estimated space required.
 000012 //          SPACE=(CYL,(???,???),RLSE)
 000013 //SYSIN DD *
 000014    SORT FIELDS=COPY,SKIPREC=0,STOPAFT=0
 000015 /*
 000016 //FTPFILE  EXEC PGM=FTP,COND=(0,NE),
 000017 //          PARM='supportftp.ca.com (EXIT=08'
```
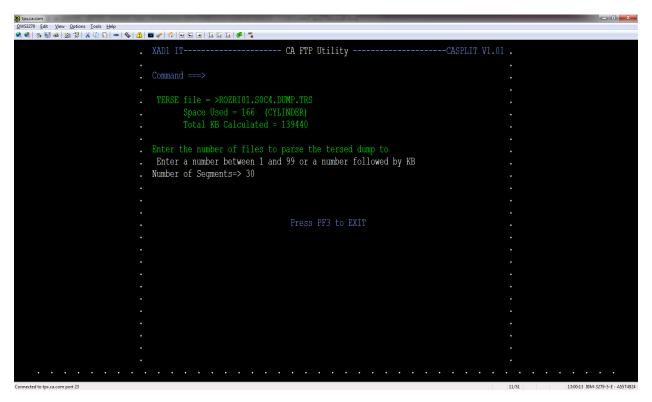
Update the JCL as per your JCL standards. You cannot delete/rename steps. You can add  one or more steps. <u>Do not change the SORTOUT DCB</u>. This job will have three steps.  The first step called SPLIT will take a segment of the file. The next step, FTPFILE, will FTP the segment to CA support. The final step, FTPDONE, will send a small file to CA SUPPORT when the segment has successfully been transferred.



```
   File   Edit   Edit_Settings   Menu   Utilities   Compilers   Test   Help

 XAD1        ROZRI01.CNTL(FTPA) - 01.00                    Columns 00001 00080
 Command ===> _____ Scroll ===> CSR
 000018 //SYSPRINT DD   SYSOUT=*
 000019 //*SYSTCPD  DD   DISP=SHR,DSN=VTAM.TCPIP.TCPIP.DATA
 000020 //OUTPUT   DD   SYSOUT=*
 000021 //FTPIN    DD   DSN=&&TEMP,DISP=(OLD,DELETE,DELETE)
 000022 //NETRC    DD   DISP=SHR,DSN=ROZRI01.CNTL(NETRC)
 000023 //INPUT    DD   *
 ==MSG> *Change the following line to the path
 000024 cd /0000001/12345678-01/files_from_customer
 000025 pwd
 000026 bin
 ==MSG> *On the following line update with the output file name
 ==MSG> *Do not change the string  PUT  //DD:FTPIN
 ==MSG> *  the output file (example output_file_name) may be changed
 ==MSG> *  Do not put the output file name in quotes.
 000027 sendsite
 000028 PUT  //DD:FTPIN s0c4.dump
 000029 quit
 000030 /*
 000031 //FTPDONE  EXEC PGM=FTP,COND=(0,NE),
 000032 //          PARM='supportftp.ca.com (EXIT=08'
 000033 //SYSPRINT DD   SYSOUT=*
 000034 //*SYSTCPD  DD   DISP=SHR,DSN=VTAM.TCPIP.TCPIP.DATA
 000035 //FTPIN    DD   *
```

If you make changes to the PARM (DD INPUT) in the step FTPFILE it will be duplicated to the FTPDONE step. JCL changes done to FTPFILE are not duplicated to FTPDONE step.. So if you require JCL changes to both FTPFILE and FTPDONE steps you must do changes to both steps. Please do not change the order of the FTP parms in DD INPUT. If you are required to add a PARM add it before the PUT command.

When you have completed your changes, press pf#3 to exit and save.

When you are at the main panel ensure the cursor is in the FTP JOB section and press enter, to that you back into the FTP JOB with an existing template.

You should see a screen like this:

On this screen you specify the number of segments or the size of the segments. Enter a number for the number of segments or enter the number of Kilo Bytes. In this example I entered 30.



```
                   File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

 XAD1        ROZRI01.CNTL(FTPA) - 01.03                        Columns 00001 00080
 Command ===>                                                  Scroll ===> CSR
 ****** ***************************** Top of Data ****************************
 000001 //ROZRI011 JOB (108100000,'CA '),'CATERSE',
 000002 //* TYPRUN=SCAN,
 000003 // MSGCLASS=X,NOTIFY=&SYSUID,REGION=0M
 000004 //SPLIT     EXEC PGM=SORT
 000005 //SYSPRINT DD SYSOUT=*
 000006 //SYSOUT    DD SYSOUT=*
 000007 //SORTIN    DD DISP=SHR,DSN=ROZRI01.S0C4.DUMP.TRS
 000008 //SORTOUT   DD DSN=&&TEMP,
 000009 //            DISP=(,PASS),
 000010 //            STORCLAS=WORK,MGMTCLAS=WORK,
 000011 //            DCB=(DSORG=PS,RECFM=FBS,LRECL=1024,BLKSIZE=0),
 000012 //        SPACE=(CYL,(7,1),RLSE)
 000013 //SYSIN DD *
 000014    SORT FIELDS=COPY,SKIPREC=0,STOPAFT=4438
 000015 /*
 000016 //FTPFILE   EXEC PGM=FTP,COND=(0,NE),
 000017 //            PARM='supportftp.ca.com (EXIT=08'
 000018 //SYSPRINT DD   SYSOUT=*
 000019 //*SYSTCPD  DD   DISP=SHR,DSN=VTAM.TCPIP.TCPIP.DATA
 000020 //OUTPUT    DD   SYSOUT=*
 000021 //FTPIN     DD   DSN=&&TEMP,DISP=(OLD,DELETE,DELETE)

 Connected to tpx.ca.com port 23                    4/37        13:01:38 IBM-3279-5-E - A55T4924
```

You will then go back to the JCL. This is the final JCL. You will have 1 job for each segment. The job name will have the job name with a number at the end. So the first job will be ???1, the second ???2, and so on until 9 then the next will be 0. The job names will then loop around. So the maximum unique job names is 10. Review the JCL and if it looks good submit it. All jobs should pass with a condition code of 0.

If the JCL required updating, update the first job then press PF#3 to END/SAVE. When you re-enter the FTP JOB section the first job will act as the TEMPLATE.

9

# Recommendations

We recommend that you use the terse section when you use CASPLIT.

We recommend that you run through this process and save templates for the TERSE and FTP jobs. This will ensure that the process is smooth and effortless if this happens in a severity 1 case. It may also be a good idea to always use CASPLIT even for smaller files. You can specify 1 for the number of segments. This will allow you to become accustomed with the utility.