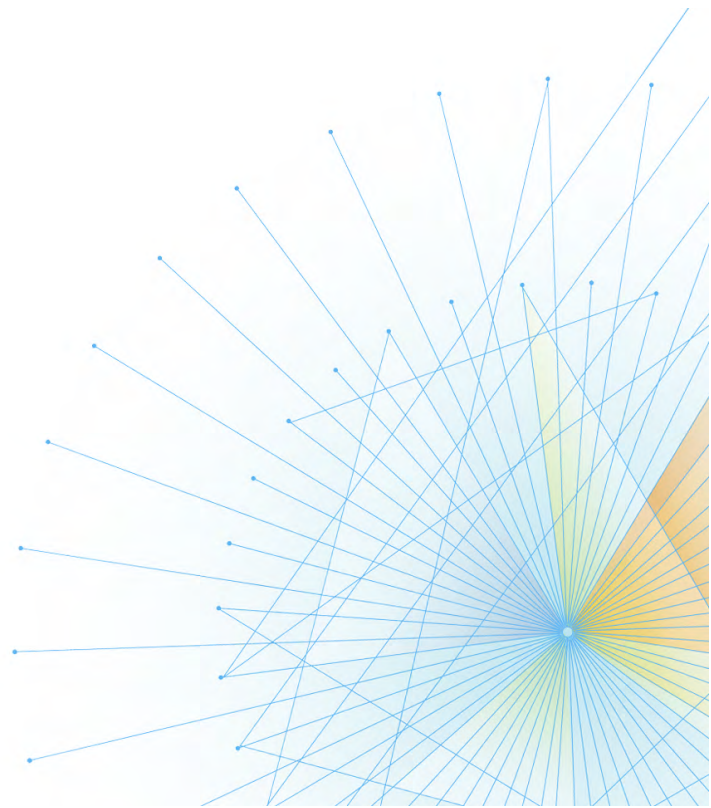




The Mainframe Software Partner For The Next 50 Years

# ThruPut Manager FTP Guide

**Release 18.02**



Please direct questions about ThruPut Manager  
or comments on this document to:

ThruPut Manager **Customer Support**

**<https://go.compuware.com/>**

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# Introduction

## Summary of Changes

<b>V1802-7116</b> (October 2018)	<ul style="list-style-type: none"> <li>No changes</li> </ul>
<b>V1802-7115</b> (July 2018)	No changes.
<b>V1802-7114</b> (April 2018)	No changes.
<b>V1802-7113</b> (January 2018)	No changes.
<b>V1802-7112</b> (October 2017)	No changes.
<b>V1802-7110</b> (July 2017)	Rebranding of MVS Solutions to Compuware. This includes update of cover style, copyright, and changing version release to 18.02.
<b>V7R1-7109</b> (April 2017)	No changes.
<b>V7R1-7108</b> (Feb 2017)	New manual.

## About This Manual

This manual is applicable to anyone who forwards diagnostic information Compuware.

It contains details of how to prepare specific types of information for transfer and includes samples of JCL code to FTP data to the Compuware site.



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# FTP Instructions to ThruPut Manager Site

This chapter describes different ways to transfer information to Compuware's ThruPut Manager FTP site.

## FTP a File or Dump to ThruPut Manager FTP Site

1. Start your FTP program and connect to ftp.mvssol.com.
2. Login using UserID = tmftp and Password = thruput.
3. Turn on binary transfer mode by issuing the command BINARY.
4. Start the transfer with the PUT command. The syntax is:

```
PUT 'your.host.filename' your.company.name.bin
```



- You may compress (TERSE) the dump file that you are sending using IBM's PGM=TRSMAN,PARM=SPACK.
- When FTPing SYSLOG, please FTP the data in ASCII format (not BINARY) and do not TERSE this file.

If you decide not to compress the file you are sending, please send the LRECL, BLKSIZE, RECFM of the file by e-mail to Support.

## FTP Directly From Host

To FTP data directly from your host:

```
//FTPEXEC PGM=FTP,REGION=4096K,TIME=1440
//SYSPRINT DD SYSOUT=*
//SYSINDD *
-g ftp.mvssol.com 21
tmftp thruput
BINARY
PUT 'your.host.filename' your.company.name.bin CLOSE
QUIT
/*
//
```

## Using Secure FTP

The ThruPut Manager FTP server from Compuware (ftp.mvssol.com) supports explicit secure FTP connections using port 21 for the control channel and passive port range: 50000-50009 for secure data connections.

If an FTP client requests secure authentication when connecting to ftp.mvssol.com, the server will respond with the certificate signed by Thawte. If the FTP client trusts Thawte, it will proceed with a login attempt to ftp.mvssol.com, otherwise configuration changes will be required.

With a PC-based FTP client, a dialog should prompt the user during the connection process, asking whether or not to accept the certificate as valid.

For mainframe host FTP, the Thawte Primary Root CA certificate must be saved as a sequential dataset with DCB: RECFM=VB, LRECL=80, BLKSIZE=6160 and added to a KEYRING (RACF/ACF2/TOP SECRET).

The following JCL is used to add the Thawte Primary Root CA certificate to a RACF KEYRING.

Adjust indicated fields to suit the local RACF environment and change FTPUSER to the RACF userid that will be used by the FTP JCL:

```
//ADDCERT EXEC PGM=IKJEFT01,DYNAMNBR=20
//SYSPRINT DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD *
/* Here we add the Thawte CA Certificate
*/ RACDCERT CERTAUTH ADD('YOUR.THAWTE.CERT.DSN') +
TRUST WITHLABEL('THAWTE PRIMARY')
/* Here we define a ring for the user FTPD */
/* Use any ID that matches the KEYRING value in FTPDATA */
RACDCERT ADDRING(MVSSSSL) ID(FTPD)
/* Here we add the Thawte CA to the FTPD Ring */
RACDCERT ID(FTPD) CONNECT(CERTAUTH LABEL('THAWTE PRIMARY') +
RING(MVSSSSL) USAGE(CERTAUTH) DEFAULT)
/* Confirm our changes */
RACDCERT CERTAUTH LIST(LABEL('THAWTE PRIMARY'))
RACDCERT LISTRING(MVSSSSL) ID(FTPD)
SETROPTS RACLIST(FACILITY, DIGTCERT, DIGTRING) REFRESH
/* Give the user running FTP Client UPDATE Access */
/* The FTP Job may get ICH408I ACCESS INTENT(UPDATE) */
/* ACCESS ALLOWED(READ) if permissions are not correct */
PERMIT IRR.DIGTCERT.LISTRING CLASS(FACILITY) ID(FTPUSER) ACCESS(UPDATE)
SETR RACLIST(FACILITY) REFRESH
/*
```

Once the certificate is active in the RACF KEYRING, you can execute your FTP JCL. The Compuware ThruPut Manager team recommends appending the following to your FTP.DATA settings, which you can override in your FTP job using the SYSFTPD DD statement:

EXTENSIONS	AUTH_TLS	; Enable RFC 2640 support.
TLSMECHANISM		; Use AT-TLS
SECURE_MECHANISM	TLS	; Name of the security mechanism
SECURE_FTP	REQUIRED	; Authentication indicator
SECURE_CTRLCONN	PRIVATE	; Minimum level of security for
SECURE_DATACONN	PRIVATE	; SAFE and PRIVATE same for TLS
FWFRIENDLY	TRUE	; (S) Use firewall friendly protocol
KEYRING	FTPD/MVSSSSL	; User/keyring syntax seems to be required; each user needs update to IRR.DIGTCERT.LISTRING (FACILITY)



# Sample JCL — Prepare and FTP Requested Files

This chapter describes in detail how to prepare specific types of information for transfer and includes JCL to FTP to the ThruPut Manager secure FTP site.

Below are examples of JCL to prepare and FTP different ThruPut Manager files.

The source JCL can be found in following members of the installation dataset which is included with the product shipment:

- FTPCA7DB
- FTTPUTAF
- FTTPUTCF
- FTTPUTEF

## FTP CA7 Calendar and Database

```
//FTPCA7DB JOB (RSI),'MVS - FTP',MSGCLASS=X,NOTIFY=&SYSUID
/*JOBPARM S=*,E=N,L=999,,ROOM=MVSS
/*-----*
/* This member should be loaded with PROFILE -- CAPS OFF *
/* Replace 'hlq' with a high level qualifier you use to alloc. dsn *
/* Replace 'your.CA7.calendar.pds' with CA7 Calendar PDS for TSOXMIT *
/* Replace 'your.CA7.database.dsn' with CA7 Database DSN for TERSE *
/* Replace 'CAP.USER.CA7_instance.JCLLIB' with DSN of CA7 JCLLIB *
/* Replace 'company' with your customer name for FTP step. *
/* Replace 'ppp' with primarydasd space required to allocate dsn *
/* Replace 'sss' with secondary dasd space required to allocate dsn *
/*-----*
/*-- FLOW ....
/*-----1. your.CA7.calendar.pds
/*----- .... TSO XMIT OUTPUT: --> hlq.CA7.CAL.XMIT
/*----- .... FTP TO mvssol.com --> company.CA7.CAL.XMIT
/*-----2. your.CA7.database.dsn after export using pgm=SASSBK00
/*----- .... TERSE OUTPUT:--> hlq.CA7.DB.TRS
/*----- .... FTP TO mvssol.com --> company.CA7.DB.TRS
/*-----3. CAP.USER.CA7_instance.JCLLIB(ONLINE)
/*----- .... FTP TO mvssol.com --> company.CA7.ONLINE
/*-- Notify support@mvssol.com via email of 2 files on FTP Server
/*----- company.CA7.CAL.XMIT & company.CA7.DB.TRS
/*-----*
/*-----*
//CLEANUP EXEC PGM=IDCAMS,REGION=OM,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE hlq.CA7.CAL.XMIT PURGE
DELETE hlq.CA7.DB.TRS PURGE
SET MAXCC=0
/*-----*
/* This step XMITs CA7 Calendar PDS*
/* The resulting XMIT dataset will have attributes:*
/* LRECL=80 BLKSIZE=3120*
/*-----*
//TSOXMIT EXEC PGM=IKJEFT1A,REGION=OM,TIME=NOLIMIT
//SYSTSPRT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//CA7CAL DD DSN=your.CA7.calendar.pds,DISP=SHR
//XMIT DD DSN=hlq.CA7.CAL.XMIT,DISP=(,CATLG),
```

```

//          UNIT=SYSALLDA,VOL=SER=dasd-volser,SPACE=(CYL,(ppp,sss),RLSE)
//SYSPRINT DD   SYSOUT=*
//SYSTSIN DD   *
//          XMIT N1.USERID FILE(CA7CAL) OUTFILE(XMIT)
//*-----*
//*          This step TERSEs INFILE DSN ( CA7 DB )*
//*          The TERSEd OUTFILE will have attributes:*
//*L          RECL=1024, BLKSIZE=6144*
//*-----*
//TERSE EXEC PGM=TRSMAIN,PARM=SPACK
//SYSPRINT DD SYSOUT=H
//INFILE DD DISP=SHR,DSN=your.CA7.database.dsn
//OUTFILE DD DISP=(NEW,CATLG),VOL=SER=&volser,UNIT=SYSALLDA,
//          DSN=h1q.CA7.DB.TRS,
//          SPACE=(CYL,(ppp,sss),RLSE)
//*-----*
//*          'ftp.mvssol.com' is an Alias.*
//*          Caution: IP's are subject to change when carriers change.*
//*          For sites who can authorize alias rather than IP, changes are*
//*          transparent should the IP change.*
//*-----*
//FTP EXEC PGM=FTP,REGION=4M,TIME=NOLIMIT
//SYSPRINT DD   SYSOUT=*
//SYSIN DD *
ftp.mvssol.com
tmftp thruPut
LOCSITE NOWRAP
BINARY
PUT 'h1q.CA7.CAL.XMIT'company.CA7.CAL.XMIT
PUT 'h1q.CA7.DB.TRS'company.CA7.DB.TRS
ASCII
PUT 'CAP.USER.CA7_instance.JCLLIB(ONLINE)' company.CA7.ONLINE
CLOSE
QUIT
//*-----*

```

## FTP TM Control File

```

//TMCFFTP JOB (RSI),'MVS - FTP',MSGCLASS=X,NOTIFY=&SYSUID
/*JOBPARM S=*,E=N,L=999,,ROOM=MVSS
//*-----*
//*          JCL TO ENCODE TM CONTROL FILE IN A FORMAT THAT CAN BE FTP'd *
//*          TO MVS SOLUTIONS.  NORMALLY USED ONLY FOR PROBLEM RESOLUTION.*
//*-----*
//*execute job while TM stc is down; or execute job on a system that *
//*          doesn't use dsn=your.cf.name (or change disp=old to shr) *
//*replace 'h1q' with your high level qualifier *
//*replace 'your.cf.name' with your TM Control File DSName *
//*replace 'dasd-volser' with a dasd volume name *
//*-----*
//CLEANUP EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE h1q.CF.DSS PURGE
DELETE h1q.CF.DSS.XMIT PURGE
SET MAXCC=0
//*-----*
//DSSDUMP EXEC PGM=ADRDSU,REGION=4096K,TIME=1440
//SYSPRINT DD SYSOUT=*
//****CF DD DSN=SYS2.TMV61.CFILE64.PROD12,DISP=OLD
//CF DD DSN=your.cf.name,DISP=SHR
//DUMPFIL DD DSN=h1q.CF.DSS,DISP=(,CATLG),
//          UNIT=SYSDA,SPACE=(CYL,(64,1)),VOL=SER=dasd-volser
//SYSIN DD *
DUMP PIDD(CF) OUTDDNAME(DUMPFIL) ALLDATA(*) ALLEXCP -
DATASET(INCLUDE(your.cf.name)) TOL(ENQF)
//*-----*

```

```

//XMIT EXEC PGM=IKJEFT1A,REGION=4096K,TIME=1440
//SYSTSPRT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSTSIN DD *
XMIT N1.h1q DA('h1q.CF.DSS') OUTDA('h1q.CF.DSS.XMIT')
/*-----*
/* ftp.mvssol.com is an Alias. *
/* March 2010 - if you need an actual IP try 66.212.187.234 *
/* (Be aware IP's are subject to change when carriers change.) *
/*-----*
//FTP EXEC PGM=FTP,REGION=4M,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
ftp.mvssol.com
tmftp thrupt
LOCSITE NOWRAP
LOCSITE RECFM=FB LRECL=80 BLKSIZE=3120
LOCSITE PRIMARY=50 SECONDARY=50 CYLINDERS
LOCSITE VOLUME=dasd-volser UNIT=SYSALLDA
BINARY
PUT 'h1q.CF.DSS.XMIT' COMPANY.CF.XMIT.BIN
CLOSE
QUIT
/*-----*

```

## FTP The TM AE Automation File

```

//FTPAFPUT JOB (RSI),'MVS - FTP',MSGCLASS=X,NOTIFY=&SYSUID
/*JOBPARM S=*,E=N,L=999,,ROOM=MVSS
/*-----*
/*execute job while TM stc is down; or execute job on a system that *
/* doesn't use dsn=your.AF.name *
/*replace 'h1q' with your high level qualifier (6 occurrences) *
/*replace 'your.AF.name' with your TM Automation File DSName (2x) *
/*replace 'dasd-volser' with a dasd volume name *
/*replace 'COMPANY' with your company name *
/*-----*
//CLEANUP EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE h1q.AF.DSS PURGE
DELETE h1q.AF.DSS.XMIT PURGE
SET MAXCC=0
/*-----*
//DSSDUMP EXEC PGM=ADRDSU,REGION=4096K,TIME=1440
//SYSPRINT DD SYSOUT=*
//AF DD DSN=your.AF.name,DISP=OLD
//DUMPFIL DD DSN=h1q.AF.DSS,DISP=(,CATLG),
// UNIT=SYSDA,SPACE=(CYL,(64,1)),VOL=SER=dasd-volser
//SYSIN DD *
DUMP PIDD(AF) OUTDDNAME(DUMPFIL) ALLDATA(*) ALLEXCP -
DATASET(INCLUDE(your.AF.name))
/*-----*
//XMIT EXEC PGM=IKJEFT1A,REGION=4096K,TIME=1440
//SYSTSPRT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSTSIN DD *
XMIT N1.RSI01TB DA('h1q.AF.DSS') OUTDA('h1q.AF.DSS.XMIT')
/*-----*
//FTP EXEC PGM=FTP,REGION=4M,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
ftp.mvssol.com
tmftp thrupt
LOCSITE NOWRAP

```

```

LOCSITE RECFM=FB LRECL=80 BLKSIZE=3120
LOCSITE PRIMARY=50 SECONDARY=50 CYLINDERS
LOCSITE VOLUME=SUPP02 UNIT=SYSALLDA
BINARY
PUT 'hlq.AF.DSS.XMIT' COMPANY.AF.XMIT.BIN CLOSE
QUIT
/*-----*

```

## FTP the Experience File

```

//FTPPUTEF JOB (RSI),'MVS - FTP',MSGCLASS=X,NOTIFY=&SYSUID
/*JOBPARM S=*,E=N,L=999,,ROOM=MVSS
/*-----*
/* This member should be loaded with PROFILE -- CAPS OFF *
/* Replace 'hlq' with a high level qualifier you use to alloc. dsn *
/* Replace 'your.experience.file-n' with dsname to be copied *
/* Replace 'ppp' with primary dasd space required to allocate dsn *
/* Replace 'sss' with secondary dasd space required to allocate dsn *
/* Replace 'EXP-n' with EXP-1 or EXP-2 (Experience file 1 or 2) *
/* Replace 'company' with your customer name for FTP step. *
/*-----*
/* FLOW ....
/* your.experience.file-n
/* .... IDCAMS EXPORT: --> hlq.EXPPFILE.VSAM.EXPORT
/* .... TSO XMIT TO: --> hlq.EXPPFILE.VSAM.EXPORT.XMIT
/* .... FTP TO MVS Sol. --> company.EXPn.VSAM.EXPORT.XMIT
/*-----*
/* EMAIL the name of your-experience.file-n to support@mvssol.com.
/* The original source name of the file is required to rebuild it.
/*-----*
//CLEANUP EXEC PGM=IDCAMS,REGION=OM,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE hlq.EXFILE.VSAM.EXPORT PURGE
DELETE hlq.EXFILE.VSAM.EXPORT.XMIT PURGE
SET MAXCC=0
LISTCAT ENTRY(your.experience.file.name1) ALL
/*-----*
//EXPORT EXEC PGM=IDCAMS,REGION=OM,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//INFILE DD DISP=SHR,DSN=your.experience.file-n
//EXPORT DD DSN=hlq.EXPPFILE.VSAM.EXPORT,DISP=(,CATLG),
// UNIT=SYSALLDA,VOL=SER=dasd-volser,SPACE=(CYL,(ppp,sss),RLSE),
// DCB=(DSORG=PS,RECFM=VS,LRECL=32404,BLKSIZE=2048)
//SYSIN DD *
EXPORT your.experience.file-n +
CIMODE INFILE(INFILE) OUTFILE(EXPORT) TEMPORARY
/*-----*
//TSOXMIT EXEC PGM=IKJEFT1A,REGION=OM,TIME=NOLIMIT
//SYSTSPRT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//EXPORT DD DSN=hlq.EXPPFILE.VSAM.EXPORT,DISP=SHR
//XMIT DD DSN=hlq.EXPPFILE.VSAM.EXPORT.XMIT,DISP=(,CATLG),
// UNIT=SYSALLDA,VOL=SER=dasd-volser,SPACE=(CYL,(ppp,sss),RLSE)
//SYSPRINT DD SYSOUT=*
//SYSTSIN DD *
XMIT N1.USERID FILE(EXPORT) OUTFILE(XMIT)
/*-----*
/* 'ftp.mvssol.com' is an Alias. *
/* Ask support@mvssol.com if specific IP behind alias is required. *
/* Caution: IP's are subject to change when carriers change. *
/*-----*
//FTP EXEC PGM=FTP,REGION=4M,TIME=NOLIMIT
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
ftp.mvssol.com
tmftp thruPut

```

```

LOCSITE NOWRAP
LOCSITE RECFM=FB LRECL=80 BLKSIZE=3120
LOCSITE PRIMARY=50 SECONDARY=50 CYLINDERS
LOCSITE VOLUME=dasd-volser UNIT=SYSALLDA BINARY
PUT 'hlq.EXPFILE.VSAM.EXPORT.XMIT' company.EXP-n.VSAM.EXPORT.XMIT CLOSE
QUIT
/*-----*

```

## FTP Directly from Host

```

//FTP2MVS JOB jobard
/*JOBPARM S=*,E=N,L=999,T=1440,ROOM=MVSS
/*-----*
/* Change : *
/* 1. &your.input.RMF.dsname to the original dsn *
/* 2. &your.tersed.host.dsname to the tersed dsn (3 times) *
/* (single quotes are required on 3rd occurrence) *
/* 3. your.company.name.mmmdd.RMF.bin to dsn for MVS Solutions *
/* 4. &volser *
/*-----*
//CLEANUP EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE &your.tersed.host.dsname PURGE
SET MAXCC=0
/*-----*
/* This step TERSEs INFILE DSN (DUMP / SMF / RMF / TRACE) *
/* The TERSEd OUTFILE will have attributes: *
/* LRECL=1024, BLKSIZE=6144 *
/*-----*
//TERSE EXEC PGM=TRSMAN,PARM=SPACK
//SYSPRINT DD SYSOUT=H
//INFILE DD DISP=SHR,DSN=&your.input.RMF.dsname
//OUTFILE DD DISP=(NEW,CATLG),VOL=SER=&volser,UNIT=SYSALLDA,
// DSN=&your.tersed.host.dsname,
// SPACE=(CYL,(200,10),RLSE)
/*-----*
/* This step FTPs the TERSEd OUTFILE (from the previous step) *
/* to MVS Solutions in BINARY format *
/*-----*
//FTP EXEC PGM=FTP,REGION=4096K,TIME=1440
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
-g ftp.mvssol.com 21
tmftp thruput
BINARY
PUT '&your.tersed.host.dsname' your.company.name.mmmdd.RMF.bin
CLOSE
QUIT
/*-----*

```

## Extract and FTP WLM Policy

1. Go into WLM – panelid IWMAPLGO.
2. Enter “2” equal to: “2. Extract definition from WLM couple data set”.
3. On resulting panelid IWMAP01, pull down the “File” menu.
4. Enter “5” equal to: “5. Print”.
5. After seeing the message “Output written to ISPF list dataset (IWMAM001)”.
6. On same panelid IWMAP01, pull down the “Options” menu.
7. Enter “1” equal to: “1. Process ISPF list dataset”.
8. A job will be submitted to JES2. Remember the job name to find it in SDSF.

**Instructions following assume SDSF use. Revise independently for IOF, JES Master, etc.**

9. Find the job on the STATUS panel. Put a "?" beside the job, then press *Enter*.
10. Locate output dataset SYSUT2 PRINTLST, put an "S" in the NP column, then press <enter>.
11. Pull down the **Print** menu.
12. Enter "2" equal to "2. Print open data set...".
13. Fill in "Data set name ==>" enclosing the name in single quotes.
14. Pull down the "Print" menu.
15. Enter "4" equal to "4. Print...".
16. Pull down the "Print" menu.
17. Enter "5" equal to "5. Print close...".
18. Now the WLM Policy will be in a dataset to be either of the following:
  - downloaded to PC to be emailed in ASCII format to support@mvssol.com
  - or
  - to be FTP to ftp.mvssol.com in ASCII format