Offsite Health Check Details

1. Run the following jobs to extract SMF records (with filtering), collect SMS construct information and DFSMShsm daily statistics reports:

   - SMF extract – Run the following JCL which uses SORT to extract the records and filter datasets, jobs or DD names to be excluded from the analysis. *SMF data from LPARs or Sysplexes that are to be analyzed together should be concatenated for input.* This job extracts SMF record types 14, 15, and 30 all subtypes.

     Required Changes to the JCL:

     - Add a JOBCARD
     - HLQ – hlq for the output file to be uploaded
     - Study – Change last qualifier to a unique value for the environment or date being analyzed.
     - Update/add any of your Dataset Name, Job Name or DD Name filters to the SYSIN parameters. Leave the Default parameters in place.

```
//* ADD JOBCARD

//* OPTION SPANINC=RC0 IS ONLY VALID FOR IBM SORT NOT SYNCSORT

//*

//JS10    EXEC  PGM=IEFBR14

//SORTOUT  DD  DSN=hlq.ICEPAK.SMF.EXTRACT.study,

//          DISP=(MOD,DELETE),

//          UNIT=SYSDA,SPACE=(TRK,(1,1),RLSE)

//*------------------------------------------------------------

//SORT    EXEC  PGM=SORT

//TOOLMSG  DD  SYSOUT=*

//DFSMSG   DD  SYSOUT=*

//SYSOUT   DD  SYSOUT=*

//*------------ UNSORTED SMF INPUT ----------------------------

//SORTIN   DD  DSN=your.smf.data,

//          DISP=SHR

//*

//*------------ SORTED SMF OUTPUT  ----------------------------

//SORTOUT  DD  DSN= hlq.ICEPAK.SMF.EXTRACT.study,

//          DISP=(NEW,CATLG),

//          UNIT=SYSDA,SPACE=(CYL,(500,10),RLSE)

//SYSIN    DD *

  OPTION VLSHRT

  SORT FIELDS=COPY

  INCLUDE COND=((6,1,CH,EQ,X'0E',OR,6,1,CH,EQ,X'0F',OR,

         6,1,CH,EQ,X'1E'),AND,

           (69,6,CH,NE,C'SYS1.'),AND,   ← DEFAULT DATASET EXCLUSIONS

             (69,6,CH,NE,C'HSM'),AND,

             (69,6,CH,NE,C'SYS2'),AND,.
```

```
                      (69,6,CH,NE,C'CNM.'),AND,
                      (69,6,CH,NE,C'SMS.'),AND,
                      (69,6,CH,NE,C'OPER.'),AND,
                      (69,6,CH,NE,C'NETVIEW.'),AND,
                      (69,6,CH,NE,C'ISP.'),AND,
                      (69,6,CH,NE,C'SYSTIV.'),AND,
                      (69,6,CH,NE,C'SYSTSYS.'),AND,
                      (69,6,CH,NE,C'SYSCOMM.'),AND,
                      (69,6,CH,NE,C'SYSDAT.'),AND,
                      (69,6,CH,NE,C'SYSPRN.'),AND,
                      (69,6,CH,NE,C'SYSAPP.'),AND,
                      (69,6,CH,NE,C'SMF.'),AND,
                      (69,6,CH,NE,C'CICS'),AND,
                      (69,6,CH,NE,C'SYSP'),AND,.
                      (69,6,CH,NE,C'DFHSM'),AND,.
                      (69,6,CH,NE,C'XDSN=SYSTIV'),AND,
                      (69,6,CH,NE,C'HLQ1.PROD'),AND,   ← YOUR DATASET EXCLUSIONS
            (69,6,CH,NE,C'HLQ2.TEST'),AND,   ← YOUR DATASET EXCLUSIONS
            (19,5,CH,NE,C'PROD '),AND,       ← YOUR JOBNAME EXCLUSIONS
            (19,8,CH,NE,C'TEST'),AND,        ← YOUR JOBNAME EXCLUSIONS
            (57,8,CH,NE,C'SORTWK01'))        ← YOUR DDNAME EXCLUSIONS
      /*
```

- DCOLLECT is used to collect information about the various SMS constructs in your environment.

  Required Changes to the JCL:
  - Add a JOBCARD
  - Change ?????? to your SMS SCDS dataset name
  - HLQ – hlq for the output file to be uploaded

```
//*   ADD JOBCARD
//*------------------------------------------------------------
//*         DCOLLECT - DUMP ALL SMS CONSTRUCT DATA
//*  1. CHANGE HLQ TO YOUR HLQ
//*  2. CHANGE ?????? TO YOUR SMS SCDS DATASETS NAME
//*------------------------------------------------------------
//DCOLBKUP EXEC PGM=IDCAMS
//SYSPRINT DD  SYSOUT=*
//OUTDS    DD  DSN=HLQ.DCOLLECT.SMS,
```

```
//        DISP=(NEW,CATLG,DELETE),
//        UNIT=SYSDA,
//        SPACE=(CYL,(10,5),RLSE),
//        DCB=(RECFM=VB,LRECL=32756,BLKSIZE=0,DSORG=PS)
//SYSIN   DD   *
   DCOL -
      OFILE(OUTDS) -
      SMSDATA(SCDSNAME(??????))
/*
```

- HSMSTATS collects DFSMShsm information needed for creation of reports on the current customer environment for migration and recall activity.

   Required Changes to the JCL:
   o   Jobcard
   o   DSN1 – hlq for the output file to be uploaded

```
//**  INSERT YOUR JOB CARD HERE
//**
//**  CHANGE HLQ TO YOUR HLQ
//**  CHANGE DATES TO STUDY PERIOD
//**
//STEP1   EXEC PGM=IKJEFT01
//SYSTSPRT DD  SYSOUT=*
//SYSTSIN  DD  *
 HSEND REPORT FUNCTION(RECALL) +
    FROMDATE(YYYY/MM/DD) TODATE(YYYY/MM/DD) +
    OUTDATASET(HLQ.ICEPAK.HSM.RECALL)
 HSEND REPORT +
    FROMDATE(YYYY/MM/DD) TODATE(YYYY/MM/DD) +
    OUTDATASET(HLQ.ICEPAK.HSM.DAILY)
 HSEND REPORT FUNCTION(MIGRATION) +
    FROMDATE(YYYY/MM/DD) TODATE(YYYY/MM/DD) +
    OUTDATASET(HLQ.ICEPAK.HSM.MIGRATE)
 HSEND REPORT FUNCTION(RECYCLE) +
    FROMDATE(YYYY/MM/DD) TODATE(YYYY/MM/DD) +
    OUTDATASET(HLQ.ICEPAK.HSM.RECYCLE)
/*
```

- The terse job executes an IBM supplied program that compresses the output files created in the SMF extract job.

    Required Changes to the JCL:
    - Add a JOBCARD
    - HLQ – Change symbolic to your HLQ
    - DSN4 – Change symbolic to a study name.

```
//*   ADD JOBCARD
//**
//*
//TERSE   PROC HLQ=,
//         DSN4=DATE
//**************************************************
//*                                     *
//*     TRSMAIN WITH PACK OPTION            *
//*                                     *
//*  USE PARM=PACK TO PACK A DATASET/MEMBER        *
//*  USE PARM=UNPACK TO UNPACK A DATASET/MEMBER     *
//*  POINT THE INFILE DD TO YOUR INPUT DSN AND      *
//*  THE OUTFILE DD TO A NEW OR EXISTING OUTPUT     *
//*  DSN OF TYPE PO OR PS.                *
//*                                     *
//*  NOTE: ACCORDING TO THE FTP INSTRUCTIONS FROM   *
//*  IBM, IT SOUNDS LIKE THE DATA MUST BE UNPACKED  *
//*  INTO A DSN THAT HAS THE SAME ATTRIBUTES AS THE *
//*  THE ORIGINAL DSN.                *
//*                                     *
//* INPUT  DATASET MUST HAVE LRECL OF 1024 RECFM=FB *
//* OUTPUT                       *
//*  FOR SMF RECFM=VBS LRECL=23760 BLKSIZE=0        *
//*                                     *
//**************************************************
//STEP1    EXEC PGM=TRSMAIN,PARM=PACK
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN=&HLQ.ICEPAK.SMF.EXTRACT.&DSN4
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//     DSN=&HLQ.ICEPAK.SMF.EXTRACT.&DSN4..TERSED,
//     SPACE=(CYL,(500,350),RLSE),
//     LRECL=1024,BLKSIZE=0,RECFM=FB
//STEP2    EXEC PGM=TRSMAIN,PARM=PACK
```

```
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN= &HLQ.DCOLLECT.SMS
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//        DSN=&HLQ.DCOLLECT.SMS.TERSED,
//        SPACE=(CYL,(5,3),RLSE),
//        LRECL=1024,BLKSIZE=0,RECFM=FB
//STEP3    EXEC PGM=TRSMAIN,PARM=PACK
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN=&HLQ.ICEPAK.HSM.DAILY
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//        DSN=&HLQ.ICEPAK.HSM.DAILY.TERSED,
//        SPACE=(CYL,(5,5),RLSE),
//        LRECL=1024,BLKSIZE=0,RECFM=FB
//STEP4    EXEC PGM=TRSMAIN,PARM=PACK
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN=&HLQ.ICEPAK.HSM.RECALL
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//        DSN=&HLQ.ICEPAK.HSM.RECALL.TERSED,
//        SPACE=(CYL,(5,5),RLSE),
//        LRECL=1024,BLKSIZE=0,RECFM=FB
//STEP5    EXEC PGM=TRSMAIN,PARM=PACK
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN=&HLQ.ICEPAK.HSM.MIGRATE
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//        DSN=&HLQ.ICEPAK.HSM.MIGRATE.TERSED,
//        SPACE=(CYL,(5,5),RLSE),
//        LRECL=1024,BLKSIZE=0,RECFM=FB
//STEP6    EXEC PGM=TRSMAIN,PARM=PACK
//SYSPRINT DD   SYSOUT=*
//INFILE   DD   DISP=SHR,DSN=&HLQ.ICEPAK.HSM.RECYCLE
//OUTFILE  DD   DISP=(NEW,CATLG),UNIT=SYSDA,
//        DSN=&HLQ.ICEPAK.HSM.RECYCLE.TERSED,
//        SPACE=(CYL,(5,5),RLSE),
//        LRECL=1024,BLKSIZE=0,RECFM=FB
```

- This FTP job logs into and sends the tersed files created in the Terse job to the 21st Century FTP site. 21st Century Software supplies a USERID and password to our server.

    Required Changes to the JCL:

    - Add a Jobcard
    - HLQ – Change to your hlq
    - Update userid
    - Update password

    ```
    //*   ADD JOBCARD
    //**
    //**
    //FTPIT EXEC PGM=FTP
    //SYSPRINT DD SYSOUT=*
    //SYSPUT   DD SYSOUT=*
    //INPUT  DD *
    94.242.254.33
    userid
    password
    BIN
    prompt off
    mput hlq.*.*.tersed
    QUIT
    *************************
    ```