



# HORIZONT

SmartJCL – Release Notes

# About this Presentation

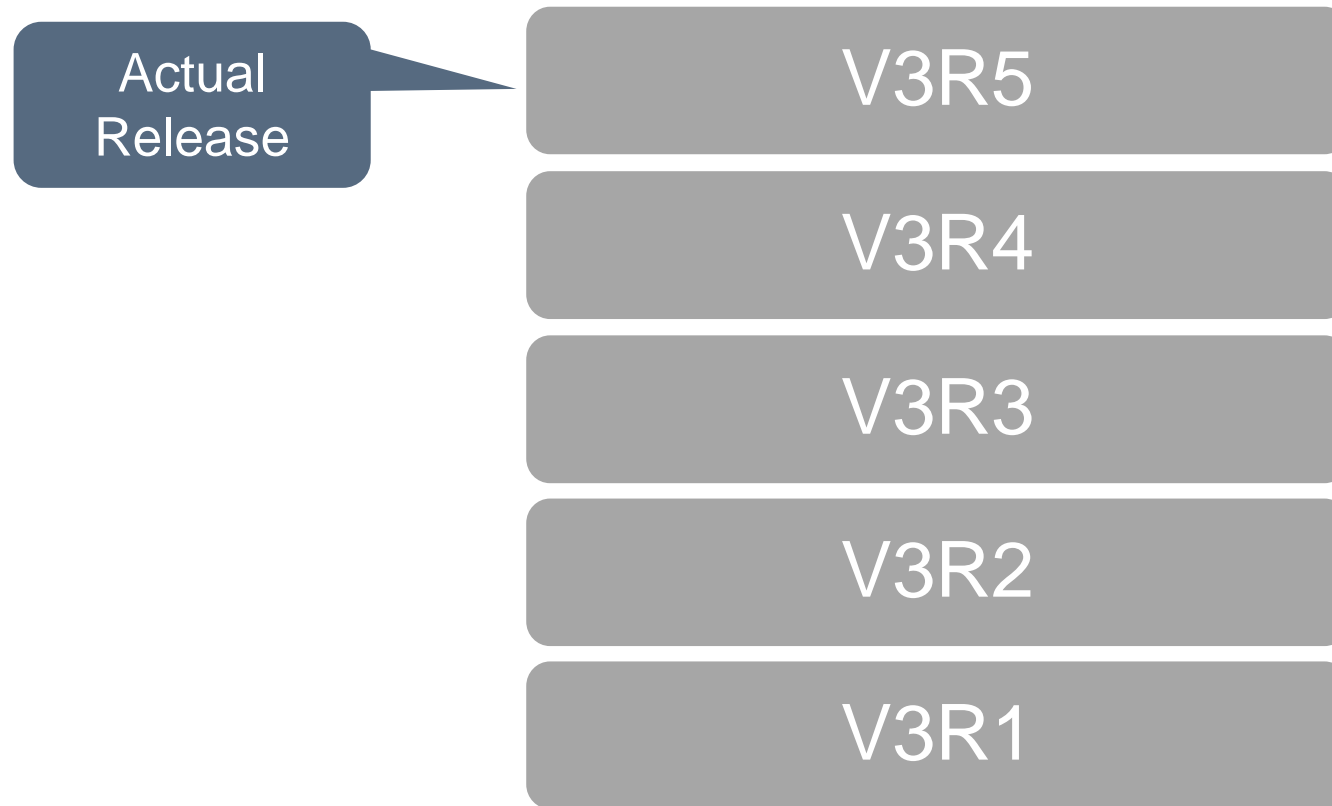
This PowerPoint gives you a short overview about new features of SmartJCL

At some slides this button can be used to jump to specific slides in this presentation.

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Click on this symbol to jump to the overview slide

# Release Notes



# SmartJCL 3.5

- SmartJCL V3R5 is available since July 2022. It offers following new functions:
- z/OS 2.5 support – new parameters and statements
  - No new parameters or statements
- z/OS 2.4 support – new parameters and statements
  - NULLOVRD parameter for JCL DD statement added
- New TCP/IP listener HORILST
  - installation with HORIZONT Shared Library
  - UWORK is no longer needed
  - simplified parameter setting

# SmartJCL 3.5

- New JCL Check parameters:
  - CFS to check if there is enough free space to allocate a new data set
  - SUMOM defines mask for the JCKSUMO record
  - NLT to display output lines as INFO lines rather than NOTE lines
  - USEIWSAG to use IWS authority group user ID for the check
  - CGS for skipping the DFSORT SYSIN check when generated SYSIN data set is concatenated
  - JLT defines maximum JCL lines to check
  - MSGPOS specifies positioning of messages output because of the DDNCHK parameter
  - FMO to check only the first member of a given name in the JUPJInnn concatenation
  - ISC specifies if substitution of instream symbols is checked
  - CIEBC, CIEBG, CIEHP, CPDSF, CSORT to check the SYSIN control statements of only specified utilities

# SmartJCL 3.5

- New SmartJCL Reformat parameters:
  - FORMATORDER for formatting JCLLIB ORDER parameter
  - RFMTNONBLANK72 to not reformat statements containing a character in column 72
- New Change Facility parameter:
  - SJCLNCHRP for generating SJC LNCHANGE command report
- New REXX Interface function:
  - SRIGetOverLn
  - SRISayLnCnt
  - SRISayStmtSubType
  - SRIVolumeInfo
- Support of TWS 10.1

# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          Columns 00001 00072
Command ==>
000200 -- ***** CHECK PARAMETERS *****
-- -- -- -- -- 32 Line(s) not Displayed
000233 CHECK-FREE-SPACE          CFS=Y
000234 CAT-MGMT                CM=Y
000235 --CSIOFF                  CSIOFF=Y
000236 CSI-WORK-AREA            CSIWA=250000
000237 PATH-MGMT                PM=Y
000238 CHECK-PROCEDURES          CP=Y
000239 --DEFAULT-LOADLIB         DLL=P390A.JCK.DEV.LOAD
000240 --                          DLL=P390A.JUP.DATA.RACF.NONE.LOAD
000241 --                          DLL=P390A.JUP.DATA.LOAD1
000242 PROC-RESOLVE              PR=Y
000243 EXCLUDE-CAT-MGMT-DSN       ECAT-DSN=P390A.CATMGMT.EXCLUDE.DSN
000244 EXCLUDE-CAT-MGMT-DSN       ECAT-DSN=P390A.JUP.DATA.EX%%E
000245 --                          ECAT-DSN=P390A.JUP.DATA.DALXLT*
000246 --CAT-CHECK-EXCLUDE-FILE JCK-ECAT=P390A.JUP.DATA.DYNAPO(ECAT1)
000247 --                          JCK-ECAT=P390A.JUP.DATA.DYNAPO(ECAT2)
000248 --                          JCK-ECAT=P390A.JUP.DATA.DYNAPO(ECAT3)
000249 EXIST-MEMBER              EM=Y
000250 EXIST-PGM                  EP=Y
MA  D                                                                04/015
```

New parameter  
CFS ...

# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T17433C) - 01.06          ERRORS OCCURRED, RC=8
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
===== MESSAGE SUMMARY AND COUNTS: E=00005, W=00009, I=00000, SUPPRESSED=00000
000001 //T17433C JOB ,CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
=NOTE=  --T17433C JOB ,CLASS=A,MSGCLASS=T,NOTIFY=P391K
000002 //*
000003 //* SPACE CHECK ON NON-SMS VOLUMES
000004 //* ENOUGH SPACE REQUIRED
000005 //TMP1      EXEC PGM=IEFBR14
000006 //DD11      DD   DSN=P390A.JUP.DATA.T17443.DD11,DISP=(NEW,CATLG),
000007 //           UNIT=3390,VOL=SER=NOND00,
.HAAA //           SPACE=(CYL,(500,100)),STORCLAS=NONSMS
==MSG> JCK0534W VOLUME NOND00 IS NOT SMS MANAGED
000009 //DD12      DD   DSN=P390A.JUP.DATA.T17443.DD12,DISP=(NEW,CATLG),
000010 //           UNIT=3390,VOL=SER=NOND00,
.HAAB //           SPACE=(CYL,(500,100)),STORCLAS=NONSMS
==MSG> JCK0534W VOLUME NOND00 IS NOT SMS MANAGED
==MSG> JCK0188E NOT ENOUGH SPACE ON VOLUME NOND00 TO ALLOCATE NEW DATA SET
000012 //DD13      DD   DSN=P390A.JUP.DATA.T17443.DD13,DISP=(NEW,CATLG),
000013 //           UNIT=3390,VOL=SER=NOND00,
.HAAC //           SPACE=(CYL,(500,100)),STORCLAS=NONSMS

M&  D  04/015
```

... to check the required space for data sets



# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P391J.SMARTJCL.V3R5.PARM(JCKKPARM) - 01.12      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000021 -- ***** GENERAL PARAMETERS *****
000022 --CORRECT-JOB-OUTPUT          CJO=Y
000023 SUMO-REC-MASK                SUMOM='%L %M %J %S %R %D %P %I %T'
000024 CSI-WORK-AREA                CSIWA=65536
000025 CUSTOMER                      CU=
000026 DYNALLOC-JCLLIB              JL=Y
000027 HEADER-LINE-TYPE             HLT=MSG          INFO=SE/MSG          W/B/W
000028 --IDCAMS-MARGIN-LEFT          IDM-LEFT=1
000029 --IDCAMS-MARGIN-RIGHT        IDM-RIGHT=72
000030 JES-TYPE                        JT=2
000031 LINE-LIMIT                      LT=999
000032 MAX-ALIAS-LEVEL              MAL=2
000033 --MEMBERS-IN-USER-ORDER      UO=N
000034 MESSAGE-FLAG                   MF=I          I=SHOW I+W+E, W=SHOW W+E, E=SHOW E
000035 MESSAGE-LEVEL                  ML=1
000036 MESSAGE-NUMBER-LIMIT          MSGLIM=0
000037 MESSAGE-LIMIT-TYPE            MSGLIMTYPE=I
000038 MSG-TEXT-FIRST                 MSG-TEXT-FIRST=Y
000039 --OS-VERSION                  OSVER=ZOSV1R9      OS390V2R10
000040 READ-LINE-MAX                  RLM=9999
MA  D                                                                    04/015
```

New parameter  
SUMOM ...

# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHOT1505 JOB70524 DSID 113 LINE 7 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
*****
LIB MEMBER JOBNAME JOBSTEP PROCSTEP DD-NAME PROCNAME MSG.NO. MESSAGE TEXT
-----
S01505 STEP01 MYPROC JCK0081I PROCEDURE MY
S01505 STEP01 PSTEP1 DD02 MYPROC JCK0515E DATA SET CAN
S01505 STEP02 MYPROC11 JCK0080I PROCEDURE MY
S01505 STEP02 PSTEP11 MYPROC11 JCK0027E PROCEDURE IE
S01505 STEP02 PSTEP11 DD11 MYPROC11 JCK0515E DATA SET CAN
S01505 STEP02 PSTEP12 MYPROC12 JCK0080I PROCEDURE MY
S01505 STEP02 PSTEP12 MYPROC12 JCK0027E PROCEDURE IE
S01505 STEP02 PSTEP12 DD12 MYPROC12 JCK0515E DATA SET CAN
S01505 STEP03 DD01 JCK0515E DATA SET CAN
*****
SEQUENTIAL INPUT FROM JCKJCLI:
JOBS READ: 1
JOBS WITH INFORMATION: 0
JOBS WITH WARNINGS: 0
JOBS WITH ERRORS: 1
MEMBER INPUT FROM JUPJI001 TO JUPI999:
MA D 04/021
```

... columns are displayed in order according to the mask definition

# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          CHARS 'CHECK-GEN-SYSIN'
Command ==> _____ Scroll ==> CSR
000334 -- ***** CHECK OF DD-NAMES *****
000335 CHECK-GEN-SYSIN          CGS=N
000336 CHECK-UTILITIES        CUTL=N
000337 CHECK-UTILITY-MEMBERS  CUMEM=Y
000338 CHECK-DD-NAMES         DDNCHK=Y,MSGPOS=EXEC
000339 CHECK-DD-NAMES         UTILNAME=ABBRUCH,UTILDDN=MYDDN1
000340 CHECK-DD-NAMES         UTILNAME=ABBRUCH,UTILDDN=MYDDN2
000341 -- *****
000342          UTILNAME=IKJEFT01,UTILDDN=SYSTSIN
000343          UTILNAME=IKJEFT01,UTILDDN=SYSTSPRT
000344          UTILNAME=IKJEFT1A,UTILDDN=SYSTSIN
000345          UTILNAME=IKJEFT1A,UTILDDN=SYSTSPRT
000346          UTILNAME=IKJEFT1B,UTILDDN=SYSTSIN
000347          UTILNAME=IKJEFT1B,UTILDDN=SYSTSPRT
000348 -- *****
000349 --CHECK-DD-NAMES        UTILNAME=IDCAMS,UTILDDN=TESTDDN
000350 --                      DEL-PGM=MYDELPGM
000351                      DEL-PGM=EQQDELDS
000352 --                      DEL-PGM=CA11
000353                      SORT-PGM=SORT ,SORTTYPE=IBM, SORTMSG=SYSOUT , PARMDDN=DFSPARM
M&  D 04/015
```

New parameter CGS,  
when set to CGS=N ...

# SmartJCL 3.5 – JCL Check

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(T19126) - 01.06          Columns 00001 00072
Command ==>          Scroll ==> CSR
000008 //SYSIN1   EXEC PGM=IEBGENER
000009 //SYSUT1   DD *
000010      INCLUDE=(6,5,CH,GE,C'AAAAA',AND,6,5,CH,LE,C'BBBBB')
000011 //SYSUT2   DD DISP=(,CATLG),DSN=P390A.JUP.DATA.T19126.SYSIN1,
000012 //          SPACE=(TRK,(1,1))
000013 //SYSPRINT DD SYSOUT=*
000014 //SYSIN    DD DUMMY
000015 //*
000016 //SORT     EXEC PGM=SORT
000017 //SYSOUT   DD SYSOUT=*
000018 //SORTIN    DD *
- - - - -
000026 //SORTOUT   DD SYSOUT=*
000027 //SYSIN     DD *
000028      SORT FIELDS=(01,05,ZD,A)
000029      OUTFIL FNAMES=SORTOUT,
.HAAA //          DD DISP=SHR,DSN=P390A.JUP.DATA.T19126.SYSIN1
==MSG> JCK0226W SYSIN IS CREATED IN PREVIOUS STEP. CONTROL COMMANDS NOT CHECKED
000031 //*
***** Bottom of Data *****
M&  D 04/015
```

... check of DFSORT  
SYSIN is skipped  
when a data set  
created in previous  
step is concatenated

isplayed

# SmartJCL 3.5 – JCL Check

```
Session B - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          P391J.SMARTJCL.V3R5.PARM(JCKKPARAM) - 01.17      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000224 -- ***** CHECK UTILITY COMMANDS AND DD NAMES *****
000225 --CHECK-UTILITY-MEMBERS      CUMEM=N
000226 CHECK-UTILITIES              CUTL=Y
000227 CHECK-DD-NAMES                DDNCHK=Y,MSGPOS=EXEC
000228 --                            UTILNAME=IKJEFT01,UTILDDN=SYSTSIN
000229 --                            UTILNAME=IKJEFT01,UTILDDN=SYSTSPRT
000230 --                            UTILNAME=IKJEFT1A,UTILDDN=SYSTSIN
000231 --                            UTILNAME=IKJEFT1A,UTILDDN=SYSTSPRT
000232 --                            UTILNAME=IKJEFT1B,UTILDDN=SYSTSIN
000233 --                            UTILNAME=IKJEFT1B,UTILDDN=SYSTSPRT
000234 -----
000235 -- ***** MIGRATED DATA SETS *****
000236 MIGRATED-DS-VOLSER              MIGVOLSER=MIGRAT
000237 WRITE-MIGRATED-DS              WMDS=Y
000238 -----
000239 -- ***** REMOTE CHECK *****
000240 -- PARAMETERS FOR SMARTJCL REMOTE CHECK SERVER MODULE JCKIPSS
000241 -- TCPMSGLEVEL: AMOUNT OF OUTPUT IN SYSPRINT CONCERNING TCP/IP
000242 -- TCPSEC      : ENABE/DISABLE SECURITY CHECK
000243 -- TCPCRYPT    : DEFINE THE TYPE OF ENCRYPTION 1, 3 OR 4:
MA B                                                                    04/015
```

New parameter  
MSGPOS, used together  
with DDNCHK=Y ...

# SmartJCL 3.5 – JCL Check

```
Session A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(S03026) - 01.02          Columns 00001 00072
Command ==>
000014 //SYSIN      DD *
.HAAB   UNCATLG DSN= P390A.JUP.DATA.DYNAPS1
==MSG> JCK0576W DATA SET ON SMS VOLUME CAN NOT BE UNCATALOGED,
==MSG>          DSN="P390A.JUP.DATA.DYNAPS1"
000016 /**
.HAAC  //STEP03 EXEC PGM= SORT
==MSG> JCK0220E STEP DOES NOT CONTAIN REQUIRED DD NAME SORTOUT
000018 //SYSPRINT DD   SYSOUT=*
000019 //SYSOUT   DD   SYSOUT=*
000020 //SORTIN   DD   *
000021 AAAA
000022 CCCC
000023 AAAA
000024 /***SORTOUT DD   SYSOUT=*
000025 //SYSIN     DD   *
000026   SORT FIELDS=(1,4,CH,A)
.HAAD   SUM FIELDZ=NONE
==MSG> JCK2202E SUM (LINE=00002): FIELDS OR FORMAT IS EXPECTED
000028 /*
***** ***** Bottom of Data *****
M&  A 04/015
```

... when a required DD name is missing ...

... the message JCK0220E is displayed at the EXEC statement position

# SmartJCL 3.5 – JCL Check

```
Session B - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          P391J.SMARTJCL.V3R5.PARM(JCKKPARAM) - 01.16      Columns 00001 00072
Command ==>  _____ Scroll ==> CSR
000224 -- ***** CHECK UTILITY COMMANDS AND DD NAMES *****
000225 --CHECK-UTILITY-MEMBERS      CUMEM=N
000226 --CHECK-UTILITIES            CUTL=Y
000227 CHECK-UTIL-SORT              CSORT=Y
000228 --CHECK-UTIL-IEBCOPY          CIEBC=Y
000229 --CHECK-UTIL-IEBGENER         CIEBG=Y
000230 --CHECK-UTIL-IEHPRGM          CIEHP=Y
000231 --CHECK-UTIL-PDSFAST          CPDSF=Y
000232 --CHECK-DD-NAMES             DDNCHK=Y
000233 --                          UTILNAME=IKJEFT01,UTILDDN=SYSTSIN
000234 --                          UTILNAME=IKJEFT01,UTILDDN=SYSTSPRT
000235 --                          UTILNAME=IKJEFT1A,UTILDDN=SYSTSIN
000236 --                          UTILNAME=IKJEFT1A,UTILDDN=SYSTSPRT
000237 --                          UTILNAME=IKJEFT1B,UTILDDN=SYSTSIN
000238 --                          UTILNAME=IKJEFT1B,UTILDDN=SYSTSPRT
000239 -----
000240 -- ***** MIGRATED DATA SETS *****
000241 MIGRATED-DS-VOLSER            MIGVOLSER=MIGRAT
000242 WRITE-MIGRATED-DS            WMDS=Y
000243 -----
Mf B 04/015
```

New parameters to check only selected utilities' commands, for example with only CSORT=Y ...

# SmartJCL 3.5 – JCL Check

```
Session B - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(S03026) - 01.02          Columns 00001 00072
Command ==>          Scroll ==> CSR
000003 //STEP01 EXEC PGM=IEHPRGM
000004 //SYSPRINT DD SYSOUT=*
000005 //SYSIN DD *
000006   UNCATLG DSNAMW=P390A.JUP.DATA.DYNAPS1
000007 /*
000008 //STEP02 EXEC PGM=SORT
000009 //SYSPRINT DD SYSOUT=*
000010 //SYSOUT DD SYSOUT=*
000011 //SORTIN DD *
000012 AAAA
000013 CCCC
000014 AAAA
000015 //SORTOUT DD SYSOUT=*
000016 //SYSIN DD *
000017   SORT FIELDS=(1,4,CH,A)
.HAAA   SUM FIEKDS=NONE
==MSG> JCK2202E SUM (LINE=00002): FIELDS OR FORMAT IS EXPECTED
000019 /*
***** Bottom of Data *****
M&  B 04/015
```

... the check of utilities' commands is skipped ...

... except for SORT commands



# SmartJCL 3.5 – JCL Check

```
Session A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P391J.SMARTJCL.V3R5.PARM(JCKKPARM) - 01.16      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000021 -- ***** GENERAL PARAMETERS *****
000022 --CORRECT-JOB-OUTPUT          CJO=Y
000023 CSI-WORK-AREA                CSIWA=65536
000024 CUSTOMER                    CU=
000025 DYNALLOC-JCLLIB              JL=Y
000026 HEADER-LINE-TYPE             HLT=MSG          INFO/NOTE/MSG          W/B/W
000027 --IDCAMS-MARGIN-LEFT          IDM-LEFT=1
000028 --IDCAMS-MARGIN-RIGHT        IDM-RIGHT=72
000029 JES-TYPE                        JT=2
000030 JCL-LINE-LIMIT                JLT=15
000031 LINE-LIMIT                    LT=999
000032 MAX-ALIAS-LEVEL              MAL=2
000033 --MEMBERS-IN-USER-ORDER        UO=N
000034 MESSAGE-FLAG                   MF=I          I=SHOW I+W+E, W=SHOW W+E, E=SHOW E
000035 MESSAGE-LEVEL                  ML=1
000036 MESSAGE-NUMBER-LIMIT          MSGLIM=0
000037 MESSAGE-LIMIT-TYPE            MSGLIMTYPE=I
000038 MSG-TEXT-FIRST                MSG-TEXT-FIRST=Y
000039 --OS-VERSION                   OSVER=Z0SV1R9   OS390V2R10
000040 READ-LINE-MAX                 RLM=9999
MA A                                                                    04/015
```

New parameter  
JLT ...

# SmartJCL 3.5 – JCL Check

```
Session A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(T19576) - 01.19          Columns 00001 00072
Command ==>
=NOTE= I01//SETC      SET BBB=ZZZ
=NOTE= I01//*
=NOTE= I01//* END    P390A.JUP.DATA.PROCLIB(INC005)
=NOTE= P01$/DDX1     DD   DUMMY
=NOTE= P01$/DDX2     DD   DUMMY
=NOTE= P01$/DDX3     DD   DUMMY
=NOTE= P01$/*
=NOTE= P01//MYPROC1  PEND
000011 //STEP01   EXEC PGM=IEFBR14,REGION=10M,PARM='XXXXXX',COND=(4,LT)
000012 //SYSIN    DD   *
000013 INSTREAM  LINE 01
000014 INSTREAM  LINE 02
000015 INSTREAM  LINE 03
000016 INSTREAM  LINE 04
000017 INSTREAM  LINE 05
.HAAD /*
==MSG> JCK0775W NUMBER OF JCL LINES EXCEEDS MAX. VALUE 15
000019 //STEP02   EXEC PGM=IEFBR14,REGION=10M,PARM='YYYYYY',COND=(4,LT)
000020 //*
***** ***** Bottom of Data *****
MA A 04/015
```

... to stop the check when the specified number of JCL lines is reached

# SmartJCL 3.5 – JCL Check

```
Session B - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          P391J.SMARTJCL.V3R5.PARM(JCKKPARM) - 01.17      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000138 -- ***** CHECK PARAMETERS *****
000139 ACCEPT-MVS-COMMANDS      AMC=Y
000140 --ACCOUNTING-INFORMATION  ACCOUNTING=D548-8686
000141 --                          ACCOUNTING=D548-8686, '12/8/85', PGMBIN, AAAAAAAA
000142 --                          YBBBBBBB
000143 --                          ACCOUNTING=TEST
000144 --                          ACCOUNTING=
000145 --CA-ACF2                  CA-ACF2=N
000146 --DB2-SUBSYS-CHECK       DB2-CUTSOCMD=DB2REXX1, SUBSYS=SSI, PGM=PROG
000147 --DB2-SUBSYS-CHECK       DB2-CUTSOCMD=DB2BATCH, SUBSYS=2, PGM=3
000148 DB2-SUBSYS-CHECK         DB2SC=Y
000149 --DB2-GROUP               DB2-GROUP=D2G1, DB2-SUBSYS=DB8G
000150 --DB2-GROUP               DB2-GROUP=D2G1, DB2-SUBSYS=DSN1
000151 --DB2-SUBSYS              DB2-SUBSYS=MYDS
000152 INSTREAM-SUBST-CHECK     ISC=Y
000153 CAT-AUTO-DEF-GDG-BASE     GB=N
000154 CAT-CHECK                  CM=Y
000155 PATH-MGMT                  PM=N
000156 CAT-CHECK-ENTRY           CCE=N
000157 CAT-CHECK-EXCLUDE-DSN    ECAT-DSN=HORIZONT.CATMGMT.EXCLUDE.DSN
MA B                                                                    04/015
```

With the new parameter ISC=Y ...

# SmartJCL 3.5 – JCL Check

```
Session B - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(S01915) - 01.01          Columns 00001 00072
Command ==>    Scroll ==> CSR
000003 //          EXPORT SYMLIST=(MYSYM1,MYSYM3)
000004 //          SET   MYSYM1=P390A.JUP.DATA.DYNAPO
000005 //          SET   MYSYM2=P390A.JUP.DATA.DYNAPO
000006 //          SET   MYSYM3=P390A.JUP.DATA.DYNAPO
000007 /**
000008 //S1          EXEC  PGM=IEBGENER
000009 //SYSUT1       DD    DATA,
000010 //              DLM='%%EOSTEP',
000011 //              SYMBOLS=EXECSYS
000012          PARM1=&MYSYM1(MEM1)
=NOTE=        PARM1=P390A.JUP.DATA.DYNAPO(MEM1)
000013          PARM2=&MYSYM2(MEM2)
.HAAA         PARM3=&MYSYM3(MEM3)
=NOTE=        PARM3=P390A.JUP.DATA.DYNAPO(MEM3)
==MSG> JCK0610W SYMBOL MYSYM2 IN IN-STREAM DATASET NOT SUBSTITUTED.
000015 %%EOSTEP
000016 //SYSUT2       DD    SYSOUT=*
000017 //SYSPRINT     DD    SYSOUT=*
000018 //SYSIN         DD    DUMMY
***** ***** Bottom of Data *****
M& B 04/015
```

... a warning message is issued when a symbol in instream data is not substituted

# SmartJCL 3.5 – Change Facility

```
Session D - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT          P391J.SMARTJCL.V3R5.PARM(JCKKPARAM) - 01.13      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000078 -- ***** SMARTJCL REXX INTERFACE *****
000079          SRI-HEADER=P391J.SMARTJCL.V3R5.CLIST(SRIXHEAD)
000080 --          SRI-INIT=P391J.SMARTJCL.V3R5.SAMPLIB(SRIXINIT)
000081 --          SRI-LNPRE=P391J.SMARTJCL.V3R5.SAMPLIB(SRIXLINE)
000082 --          SRI-LNPOST=P391J.SMARTJCL.V3R5.SAMPLIB(SRIXPOS)
000083 --          SRI-PRG=P391J.SMARTJCL.V3R5.SAMPLIB(SRIXLIST)
000084 --          SRI-PRGLIB=P391J.SMARTJCL.V3R5.SAMPLIB
000085 --          SRI-TERM=P391J.SMARTJCL.V3R5.SAMPLIB(SRIXTERM)
000086 --          SRIWORKAREA=256000  AMOUNT OF MEMORY FOR REXX
000087          USE-SRI=N
000088          USE-SJC=Y
000089          SJC-PRG=P390A.JCK.SRI(CS01414)
000090 SJC-LINECHANGE-REPORT  SJCLNCHRP=Y
000091 --SJC-REFORMAT          SJCREP=CHANGED
000092 --SJC-EXCL-EMBCMT-STMT  SJCXES=Y
000093 --SRI-KEEP-INCL-IN-MODL  SRI-KIM=N
000094 --SRI-MSGLNNUM          SRI-MSGLNNUM=N
000095 --SRI-PARM              SRI-PARM='SRIP1=VAL1,SRIP2=VAL2'
000096 --SRI-THEN-IS-PARM      SRI-THEN-IS-PARM=N
000097 -----
M&  D 04/015
```

New parameter  
SJCLNCHRP ...

# SmartJCL 3.5 – Change Facility

```
Session D - [24 x 80]
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY SHOT1414 JOB70771 DSID 114 LINE 45 COLUMNS 01- 80
COMMAND INPUT ==> _ SCROLL ==> CSR
===== LNCHANGE REPORT =====
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----
//S01414 JOB 'PAVO',NOTIFY=&SYSUID 0
/** 0
OLD: /** THIS 4-A STRING >AAAA< IS CHANGED TO >XX< 0
NEW: /** THIS 4-A STRING >XX< IS CHANGED TO >XX< 0
/** 0
//STEP01 EXEC PGM=IEFBR14 0
OLD: //DD01 DD DISP=NEW,DSN=P390A.JUP.DATA.TEST.AAAA 0
NEW: //DD01 DD DISP=NEW,DSN=P390A.JUP.DATA.TEST.XX 0
//DD02 DD * 0
+-----+-----+-----+
COL1 COL2 COL3
+-----+-----+-----+
OLD: AAAA BBBB CCCC
NEW: XX BBBB CCCC
+-----+-----+-----+
OLD: CCCC AAAA BBBB
NEW: CCCC XX BBBB
+-----+-----+-----+
M& D 04/021
```

... creates a report of all line changes made in the JCL

# SmartJCL 3.4

- SmartJCL V3R4 is available since February 2019. It offers following new functions:
- z/OS 2.3 support – new parameters and statements
  - Length for DLM= is increased from 2 characters to 18 characters
  - &SYSJOBNM, job name and &SYSJOBID, job ID added
  - ROACCESS and DSKEYLBL parameter on JCL DD statement added
  - Password phrases and new password on PASSWORD parameter supported
  - EMAIL, GDGBIAS parameter on JOB statement added
  - Limit for TSO/E user Ids is changed to 8 characters
  - NOTIFY JCL statement is added
  - EMAIL= is added, PASSWORD= is changed in JOBGROUP
  - System symbol &SYSEMAIL
  - AFTER, BEFORE and DELAY on SCHEDULE statement supported

# SmartJCL 3.4

- New JCL Check parameters:
  - DB2-CUTSOCMD for customer specific DB2 program calls
  - DEFAULTIMSID specifies a default IMSID value
  - STEPGENNAME and STEPGENOPT for generated step names
  - JES3-SYSNAME defines user specified JES3 system names
- New Change Facility command:
  - LNCHANGEALL
- New REXX Interface function:
  - SRIFillStem
- Support of TWS 9.5



# SmartJCL 3.4 – z/OS 2.3

Password phrases and new password on PASSWORD parameter supported

```
SmartJCL Edit_Settings Menu Utilities Compilers Test Help
P390A.JUP.DATA.JOBLIB(T16555) - 01.01 Columns 00001 00072
Scroll ==> PAGE
***** Top of Data *****
06555 JOB 'HORIZON',PASSWORD='000000000011111111112222222222333333X
000002 //          3333444444444444555555555566666666667777777777888888888899X
000003 //          99999999',
000004 //          EMAIL='INFO@HORIZONT-IT.COM',
.HAAA //          NOTIFY=USERID08
==MSG> JCK0045W PARM EXCEEDS COLUMN 71, CHARACTER AT COLUMN 72 WILL
JCK0045W PARM EXCEEDS COLUMN 71, CHARACTER AT COLUMN 72 WILL

Z/OS 2.3
JOB STATEMENT:
PASSWORD: PASSPHRASE SUPPORT
EMAIL : NEW PARAMETER, NEW SYSTEMSYMBOL &SYSEMAIL
NOTIFY : 8 CHARACTER USERID SUPPORT

.HAAB //SUPPORT NOTIFY USER=SUPPORT,TYPE=EMAIL,WHEN=ABEND
==MSG> JCK0125E INVALID LOGICAL EXPRESSION
000014 //BUDGET NOTIFY EMAIL='BUDGET@HORIZONT-IT.COM',WHEN=(RC^=0)
000015 //*
000016 //STEP01 EXEC PGM=IEFBR14,PARM='TO=&SYSEMAIL'
```

EMAIL parameter is added to the JOB statement

Limit for TSO/E user IDs is changed to 8 characters

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555) - 01.01          Columns 00001 00072
Command ==>
***** Top of Data *****
000001 //T16555  JOB 'HORIZON',PASSWORD='000000000011111111112222222222333333X
000002 //          3333444444444444555555555556666666666777777777788888888899X
000003 //          99999999',
000004 //          EMAIL='INFO@HORIZONT-IT.COM',
.HAAA //          NOTIFY=USERID08
==MSG> JCK0045W PARM EXCEEDS COLUMN 71, CHARACTER AT COLUMN 72 WILL BE LOST
==MSG> JCK0045W PARM EXCEEDS COLUMN 71, CHARACTER AT COLUMN 72 WILL BE LOST
000006 //*
000007 //* Z/OS 2.3
000008 //* JOB STATEMENT:
000009 //*   PASSWORD: PASSPHRASE SUPPORT
000010 //*   EMAIL   : NEW PARAMETER, NEW SYSTEMSYMBOL &SYSEMAIL
000011 //*   NOTIFY  : 8 CHARACTER USERID SUPPORT
000012 //*
.HAAB //SUPPORT  NOTIFY USER=SUPPORT,TYPE=EMAIL,WHEN=ABEND
==MSG> JCK0125E INVALID LOGICAL EXPRESSION
000014 //BUDGET  NOTIFY EMAIL='BUDGET@HORIZONT-IT.COM',WHEN=(RC^=0)
000015 //
000001 EXEC PGM=IEFBR14,PARM='TO=&SYSEMAIL'
```

NOTIFY JCL statement is added

Using the SYSEMAIL system symbol

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers

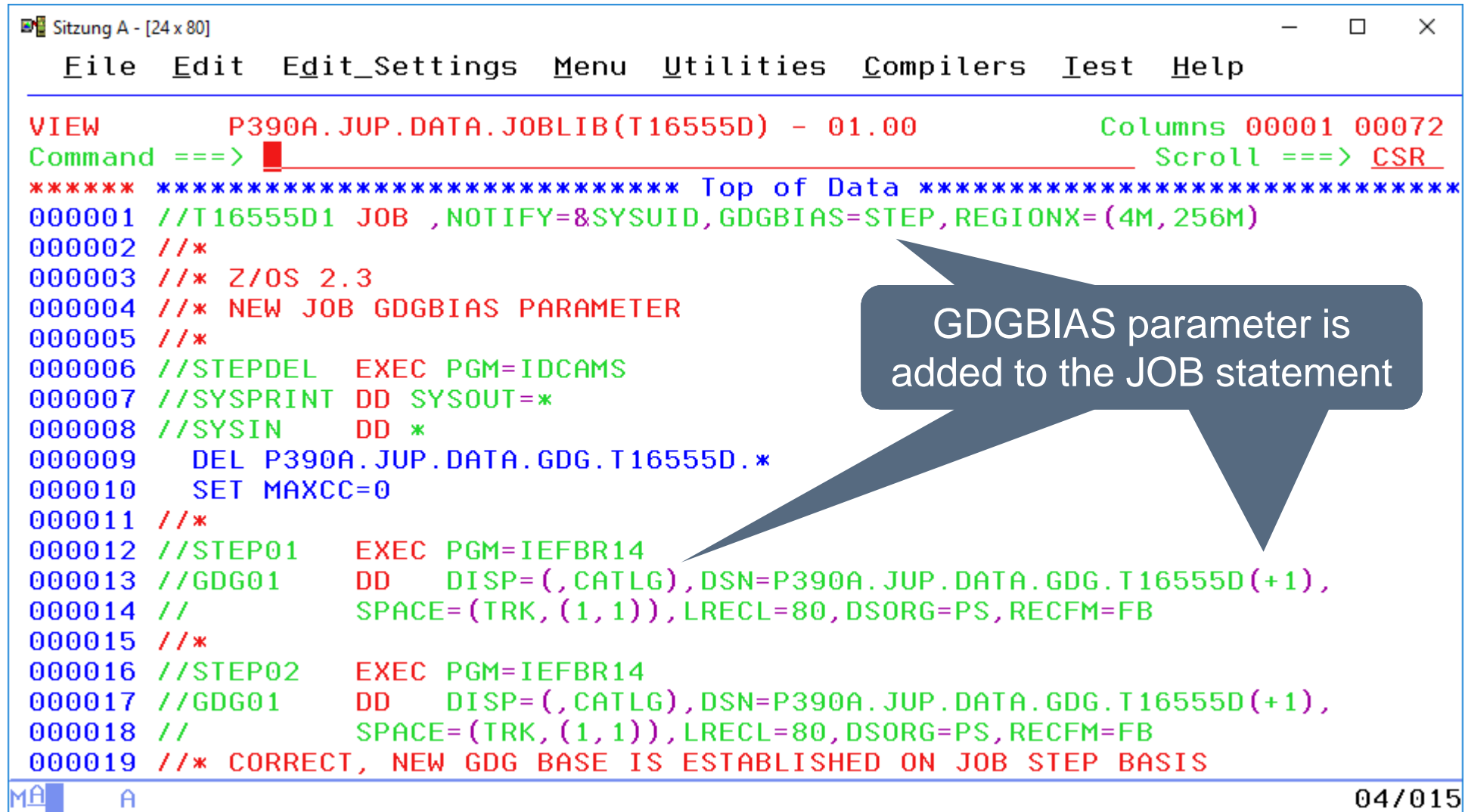
VIEW      P390A.JUP.DATA.JOBLIB(T16555) - 01.01
Command ==>
000017 /*
000018 /* THE LENGTH FOR DLM= IS INCREASED FROM 2 TO 18 CHARACTERS
000019 //STEP02 EXEC PGM=IEBGENER
000020 //SYSPRINT DD SYSOUT=*
000021 //SYSUT2 DD SYSOUT=*
000022 //SYSIN DD DUMMY
000023 //SYSUT1 DD DATA,DLM=123456789012345678
000024 STEP LINE 001
000025 STEP LINE 002
000026 STEP LINE 003
000027 123456789012345678
000028 /*
000029 /* JCL SYMBOLS, &SYSJOBNM, THE JOB NAME, AND &SYSJOBID
000030 //STEP03 EXEC PGM=IEFBR14
000031 //DD01 DD DISP=NEW,DSN=&SYSUID..TEST1.&SYSJOBNM,SPACE=(TRK,(1,1))
=NOTE= --DD01 DD DISP=NEW,DSN=P392F.TEST1.T16555,SPACE=(TRK,(1,1))
000032 //DD02 DD DISP=NEW,DSN=&SYSUID..TEST2.&SYSJOBID,SPACE=(TRK,(1,1))
=NOTE= --DD02 DD DISP=NEW,DSN=P392F.TEST2.JCK00001,SPACE=(TRK,(1,1))
***** ***** Bottom of Data *****

MA A 05/002
```

Length for DLM= increased from 2 characters to 18 characters

&SYSJOBNM, job name and &SYSJOBID, job ID added

# SmartJCL 3.4 – z/OS 2.3



```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555D) - 01.00          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000001 //T16555D1 JOB ,NOTIFY=&SYSUID,GDGBIAS=STEP,REGIONX=(4M,256M)
000002 //*
000003 //* Z/OS 2.3
000004 //* NEW JOB GDGBIAS PARAMETER
000005 //*
000006 //STEPDEL EXEC PGM=IDCAMS
000007 //SYSPRINT DD SYSOUT=*
000008 //SYSIN DD *
000009 DEL P390A.JUP.DATA.GDG.T16555D.*
000010 SET MAXCC=0
000011 //*
000012 //STEP01 EXEC PGM=IEFBR14
000013 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),
000014 // SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
000015 //*
000016 //STEP02 EXEC PGM=IEFBR14
000017 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),
000018 // SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
000019 //* CORRECT, NEW GDG BASE IS ESTABLISHED ON JOB STEP BASIS

MA A 04/015
```

GDGBIAS parameter is added to the JOB statement

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555D) - 01.00          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000018 //          SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
000019 //* CORRECT, NEW GDG BASE IS ESTABLISHED ON JOB STEP BASIS
000020 //*
000021 //T16555D2 JOB ,NOTIFY=&SYSUID,GDGBIAS=JOB,REGIONX=(2M,128M)
000022 //*
000023 //* Z/OS 2.3
000024 //* NEW JOB GDGBIAS PARAMETER
000025 //*
000026 //STEPDEL EXEC PGM=IDCAMS
000027 //SYSPRINT DD SYSOUT=*
000028 //SYSIN DD *
000029 DEL P390A.JUP.DATA.GDG.T16555D.*
000030 SET MAXCC=0
000031 //*
000032 //STEP01 EXEC PGM=IEFBR14
000033 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),
000034 //          SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
000035 //*
000036 //STEP02 EXEC PGM=IEFBR14
000037 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),

M& A 05/002
```

GDGBIAS parameter is added to the JOB statement

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555D2) - 01.00          Columns 00001 00072
Command ==>
000001 //T16555D2 JOB ,NOTIFY=&SYSUID,GDGBIAS=JOB,REGIONX=(2M,128M)
=NOTE= --T16555D2 JOB ,NOTIFY=P392F,GDGBIAS=JOB,REGIONX=(2M,128M)
- - - - - 5 Line(s) not Displayed
000007 //SYSPRINT DD SYSOUT=*
000008 //SYSIN DD *
000009 DEL P390A.JUP.DATA.GDG.T16555D.*
000010 SET MAXCC=0
000011 //*
000012 //STEP01 EXEC PGM=IEFBR14
000013 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),
000014 // SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
000015 //*
000016 //STEP02 EXEC PGM=IEFBR14
000017 //GDG01 DD DISP=(,CATLG),DSN=P390A.JUP.DATA.GDG.T16555D(+1),
.HAAA // SPACE=(TRK,(1,1)),LRECL=80,DSORG=PS,RECFM=FB
==MSG> JCK0517E DATA SET IS ALREADY CATALOGED,
==MSG> DSN="P390A.JUP.DATA.GDG.T16555D(+1)"
000019 //* ERROR, GDG MEMBER ALREADY EXISTS
000020 //*
***** Bottom of Data *****
MA A 04/015
```

GDGBIAS parameter is added to the JOB statement

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555L) - 01.01          Columns 00001 00072
Command ==>
***** Top of Data *****
000001 //JOBE          JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYSUID
000002 //*-----
000003 //* JOB SEQUENCE :
000004 //*          JOBA          JOBB
000005 //*          \              /
000006 //*          \              /
000007 //*          \              /
000008 //*          \              /
000009 //*          \              /
000010 //*          \              /
000011 //*          \              /
000012 //*          \              /
000013 //*          \              /
000014 //*          \              /
000015 //*          \              /
000016 //          SCHEDULE DELAY=YES
000017 //STEPE      EXEC PGM=WAITFOR,PARM=10000
000018 //STEPLIB DD   DISP=SHR,DSN=P390P.PAVEL.LOAD
000019 //*-----
```

```
graph TD
    JOBA --- JOBC
    JOBB --- JOBC
    JOBC --- JOBD
    JOBC --- JOBE
    JOBD --- JOBD_params["(AFTER=JOBC)  
(DELAY=YES)"]
    JOBE --- JOBE_params["(DELAY=YES)"]
```

New parameters AFTER, BEFORE, and DELAY

04/015

# SmartJCL 3.4 – z/OS 2.3

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16555L) - 01.01          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000020 //JOBDD      JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYSUID
000021 //          SCHEDULE AFTER=JOBBC,DELAY=YES
000022 //STEPD    EXEC PGM=WAITFOR,PARM=10000
000023 //STEPLIB DD  DISP=SHR,DSN=P390P.PAVEL.LOAD
000024 //*-----
000025 //JOBBC      JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYSUID
000026 //          SCHEDULE BEFORE=JOBEB,AFTER=JOBBA
000027 //STEPD    EXEC PGM=WAITFOR,PARM=10000
000028 //STEPLIB DD  DISP=SHR,DSN=P390P.PAVEL.LOAD
000029 //*-----
000030 //JOBEB      JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYSUID
000031 //          SCHEDULE BEFORE=JOBBC
000032 //STEPD    EXEC PGM=WAITFOR,PARM=10000
000033 //STEPLIB DD  DISP=SHR,DSN=P390P.PAVEL.LOAD
000034 //*-----
000035 //JOBBA      JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYSUID
000036 //STEP1    EXEC PGM=WAITFOR,PARM=10000
000037 //STEPLIB DD  DISP=SHR,DSN=P390P.PAVEL.LOAD
000038 //*-----
***** Bottom of Data *****
MA  A 04/015
```

New parameters AFTER, BEFORE, and DELAY



# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          Columns 00001 00072
Command ==> _____ Scroll ==> CSR

000210 JES3-SYSTEM-NAME          JES3-SYSNAME=&JCKS1
000211 DB2-CUCTRL-PGM          DB2-CUTSOCMD=REXXPGM, SUBSYS=2, PGM=3
000212 DB2-CUCTRL-PGM          DB2-CUTSOCMD=DB2XCTL, SUBSYS=SID, PGM=PRG
000213 CHECK-GDG-BASE          CSR=Y
000214 CHECK-DSN-IN-QUOTES      CDSNIQ=N
000215 CHECK-CATALOG-ENTRY      CCE=Y
000216 CSI-WORK-AREA            CSIWA=96000
000217 CAT-AUTO-DEF-GDG-BASE    GB=Y
000218 CA-ACF2                  CA-ACF2=N
000219 SMS-MGMT                  SMS=Y
000220 CHECK-DB2-PGM             C2PG=Y
000221 CHECK-IMS-PGM            CIPG=Y
000222 CHECK-IMS-PSB            CIPS=Y
000223 CHECK-TSO-PGM-CALL        CTPC=Y
000224 CHECK-DSN-WITH-TWS-VARS  CD=N
000225 CAT-MGMT                  CM=Y
000226 --CSIOFF                 CSIOFF=Y
000227 PATH-MGMT                 PM=Y
000228 CHECK-PROCEDURES          CP=Y
000229 --DEFAULT-LOADLIB         DLL=P390A.JCK.DEV.LOAD

M&  A
```

New parameter  
DB2-CUCTRL-PGM ...

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T17251) - 01.10          Columns 00001 00072
Command ==>
000001 //T17251  JOB
000002 //*
000003 //DB201  EXEC PGM=IKJEFT01,REGION=4000K,
.HAAA // PARM= ('%DB2XCTL SID(DB9G) PLAN(MYPLAN1) PRG(DSNTIAU1)')
==MSG> JCK0670E DB9G SUBSYSTEM NOT FOUND
==MSG> JCK0440E PROGRAM DSNTIAU1 NOT FOUND ON SEARCH PATH
.HAAB //STEPLIB DD DISP=SHR,DSN=DSNB10.DBBG.RUNLIB.LOAD
000006 //SYSTSPRT DD  SYSOUT=*
000007 //SYSTSIN DD  DUMMY
000008 //*
000009 //DB202  EXEC PGM=IKJEFT01,REGION=4000K,
.HAAC // PARM= ('%REXXPGM SS0X DSNTIAU2 MYPLAN2')
==MSG> JCK0670E SS0X SUBSYSTEM NOT FOUND
==MSG> JCK0440E PROGRAM DSNTIAU2 NOT FOUND ON SEARCH PATH
.HAAD //STEPLIB DD DISP=SHR,DSN=DSNB10.DBBG.RUNLIB.LOAD
000012 //SYSTSPRT DD  SYSOUT=*
000013 //SYSTSIN DD  DUMMY
000014 //*
***** Bottom of Data *****
```

... helps to recognize customer specific DB2 calls

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000123          TMS-CTRL-CS=CSIMSAPP
000124  DEFAULT-IMSID          DEFAULTIMSID=ABIZ
000125  IMS-ACB-LIB          ACBLIB=P390A.JUP.DATA.IMS.DBDLIB,IMSID=ABIZ
000126          ACBLIB=P390A.JUP.DATA.IMS.ACBLIB,IMSID=ABIZ
000127          ACBLIB=P390A.JUP.DATA.IMS.ACBLIB,IMSID=ABIZ
000128  -----
000129  -- ***** JOBPARAM PROCLIB PAR
000130  --USER-PROC          UPROCDD=UPROC01,UPROCD=UPROC01,UPROCD=UPROC01
000131  --USER_PROC          UPROCDD=MYPROC0,UPROCD=MYPROC0,UPROCD=MYPROC0
000132  --USER_PROC          UPROCDD=MYPROC1,UPROCD=MYPROC1,UPROCD=MYPROC1
000133  --JES_PROC          PROCDD=USERPL,PROCDD=USERPL,PROCDD=USERPL
000134  --JES_PROC          PROCDD=XATPLB11,PROCDD=XATPLB11,PROCDD=XATPLB11
000135  --JES_PROC          PROCDD=USERPL,PROCDD=USERPL,PROCDD=USERPL
000136  --JES_PROC          PROCDD=PROC00,PROCDD=PROC00,PROCDD=PROC00
000137  --JES_PROC          PROCDD=&PROCLIB,PROCDD=&PROCLIB,PROCDD=&PROCLIB
000138  --*****
000139  JES_PROC          PROCDD=PROC00,PROCDD=PROC00,PROCDD=PROC00
000140          PROCDD=PROC00,PROCDD=PROC00,PROCDD=PROC00
000141          PROCDD=PROC00,PROCDD=PROC00,PROCDD=PROC00
000142          PROCDD=PROC00,PROCDD=PROC00,PROCDD=PROC00
```

New parameter  
DEFAULT-IMSID ...

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(T17145) - 01.07      CHECK SUCCESSFUL, RC=0
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000001 //T17145      JOB CLASS=A,MSGCLASS=T,NOTIFY=&SYSUID
=NOTE=  --T17145      JOB CLASS=A,MSGCLASS=T,NOTIFY=P390P
000002 /**
000003 //STEP01 EXEC  PGM=DFSRR00,REGION=0M,DYNAMNBR=25,TIME=1440,
000004 //      PARM=(BMP,HELLO,WM043,,,N00000,,,,,ABIZ,PROD,,,ABI5,'',5)
000005 //STEPLIB DD   DSN=P390A.JUP.DATA.LOAD,DISP=SHR
000006 //SYSDOUT DD   SYSOUT=*
000007 /**
000008 /** DEFAULT SUBSYS IS USED
000009 //STEP02 EXEC  PGM=DFSRR00,REGION=0M,DYNAMNBR=25,TIME=1440,
000010 //      PARM=(BMP,HELLO,WM043,,,N00000,,,,,IPROD,,,ABI5,'',5)
000011 //STEPLIB DD   DSN=P390A.JUP.DATA.LOAD,DISP=SHR
000012 //SYSDOUT DD   SYSOUT=*
000013 /**
***** Bottom of Data *****
```

... to check the right subsystem

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          Columns 00001 00072
Command ==>
000058 STOP-MSG-MASK          STOPM='%L,%N, STOP DURATION: %D MSGRC=%J, RC=%R'
000059 STEPGEN_NAME          STEPGENNAME=XXYYZZ
000060 STEPGEN_OPTION          STEPGENOPT=PRC          MEM/PRC/USR
000061 --SUPRESS-NOTELN-PROCLIB SNLPL=*
000062 --SUPRESS-NOTELN-PROCLIB SNLPL=P390A.JUP.DATA.PROCLIB
000063 --SUPRESS-NOTELN-PROCLIB SNLPL=P390A.JUP.DATA.PROCLIB1
000064 --SUPRESS-NOTELN-PROCLIB SNLPL=%INSTREAM
000065 --SUPRESS-NOTELN-PROCNAME SNLPN=P390A.JCK.DEV.PLI(JCKKSPN)
000066 -----
000067 --***** MEMBER SEARCH ORDER PARAMETER *****
000068 --MEMBER-SEARCH-ORDER      MSOID=CONCAT1,MSODS=P390A.JUP.DATA.DYNAPO
000069 --                          MSOID=CONCAT1,MSODS=P390A.JUP.DATA.DYNAPO1
000070 --                          MSOID=CONCAT1,MSODS=P390A.JUP.DATA.DYNAPO2
000071 --MEMBER-SEARCH-ORDER      MSOID=CONCAT2,MSODS=P390A.JUP.DATA.DYNAPO3
000072 --                          MSOID=CONCAT2,MSODS=P390A.JUP.DATA.DYNAPO4
000073 -----
000074 -- ***** TSO PROGRAMS *****
000075 TSO-PGM-IKJEFTXX          TSO-PGM=IKJEFT01
000076 -- ***** REXX INTERFACE, JCL CHANGE, REFORMAT *****
000077 --                          SRI-PRGLIB=P390A.JCK.DEV.SRI
```

New STEPGEN parameters

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT          P390A.JUP.DATA.PROCLIB(P17114) - 01.01          CHECK SUCCESSFUL, RC=0
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= MESSAGE SUMMARY AND COUNTS: E=00000, W=00000, I=00001, SUPPRESSED=00000
=NOTE= LABEL MSG.NO. ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA JCK0081I PROCEDURE P17114 IS CALLED FROM AN INSTREAM PROCEDURE
=NOTE= //JOBGEN JOB ' ' /*STATEMENT GENERATED BY SMARTJCL
000001 //P17114 PROC
000002 //PSTEP01 EXEC PGM=IEFBR14
000003 // IF (P17114.PSTEP01.RC = 0) THEN
000004 //PSTEP02 EXEC PGM=IEFBR14
000005 // ENDIF
.HAAA // PEND
=NOTE= //P17114 EXEC P17114 /*STATEMENT GENERATED BY SMARTJCL
==MSG> JCK0081I PROCEDURE P17114 IS CALLED FROM AN INSTREAM PROCEDURE
=NOTE= P01//P17114 PROC
=NOTE= P01//PSTEP01 EXEC PGM=IEFBR14
=NOTE= P01// IF (P17114.PSTEP01.RC = 0) THEN
=NOTE= P01//PSTEP02 EXEC PGM=IEFBR14
=NOTE= P01// ENDIF
=NOTE= P01// PEND
```

Proc name is used for step name

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000006 -- ***** GENERAL PARAMETERS *****
000007 ACCEPT-OPC-DIRECTIVES  AOD=N
000008 JCK_VERSION            VER=33
000009 DEBUG-LEVEL            DL=0          ONLY FOR DEVELOPING PURPOSES
000010 DYNALLOC JCLLIB         JL=Y
000011 HEADER-LINE-TYPE       HLT=NOTE      INFO/NOTE/MSG      W/B/W
000012 JES-TYPE                JT=3
- - - - - 194 Line(s) not Displayed
000207 JES3-SYSTEM-NAME        JES3-SYSNAME=S1
000208 JES3-SYSTEM-NAME        JES3-SYSNAME=S2
000209 JES3-SYSTEM-NAME        JES3-SYSNAME=S3
000210 DB2-CUCTRL-PGM         DB2-CUTSOCMD=REXXPGM, SUBSYS=2, PGM=3
000211 DB2-CUCTRL-PGM         DB2-CUTSOCMD=DB2XCTL, SUBSYS=SID, PGM=PRG
000212 CHECK-GDG-BASE         CGB=Y
000213 CHECK-DSN-IN-QUOTES    CDSNIQ=N
000214 CHECK-CATALOG-ENTRY    CCE=Y
000215 CSI-WORK-AREA          CSIWA=96000
000216 CAT-AUTO-DEF-GDG-BASE  GB=Y
000217 CA-ACF2                CA-ACF2=N
000218 SMS-MGMT                SMS=Y
```

New parameter  
JES3-SYSNAME ...

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(T17694) - 01.02      ERRORS OCCURRED, RC=8
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
=NOTE= MESSAGE SUMMARY AND COUNTS: E=00003, W=00000, I=00000, SUPPRESSED=00000
=NOTE= LABEL MSG.NO.  ERROR MESSAGE
=NOTE= -----
=NOTE= .HAAA  JCK0180E  INVALID VALUE X1 FOR KEYWORD SYSTEM
=NOTE= .HAAA  JCK0180E  INVALID VALUE X2 FOR KEYWORD SYSTEM
=NOTE= .HAAB  JCK0180E  INVALID VALUE S4 FOR KEYWORD SYSTEM
000001 //T17694 JOB  ' ',NOTIFY=&SYSUID
=NOTE= --T17694 JOB  ' ',NOTIFY=P390P
.HAAA  //*MAIN CLASS=PS,SYSTEM=(X1,X2)
==MSG> JCK0180E  INVALID VALUE X1 FOR KEYWORD SYSTEM
==MSG> JCK0180E  INVALID VALUE X2 FOR KEYWORD SYSTEM
000003 //*MAIN CLASS=PS,SYSTEM=(S1,S2)
000004 //*MAIN CLASS=PS,SYSTEM=S1
.HAAB  //*MAIN CLASS=PS,SYSTEM=S4
==MSG> JCK0180E  INVALID VALUE S4 FOR KEYWORD SYSTEM
000006 //P2S2  EXEC PGM=IEFBR14
000007 /*
***** ***** Bottom of Data *****
```

... for checking the JES3 system name



# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.PLI(JCKKPARAM) - 01.99          CHARS 'CHECK-UTILITY-MEM
Command ==> _____ Scroll ==> CSR
000319 CHECK-UTILITIES          CUTL=Y
000320 CHECK-UTILITY-MEMBERS    CUMEM=Y
000321 CHECK-DD-NAMES          DDNCHK=Y
000322 CHECK-DD-NAMES          UTILNAME=ABBRUCH,UTILDDN=MYDDN1
000323 CHECK-DD-NAMES          UTILNAME=ABBRUCH,UTILDDN=MYDDN2
000324 --CHECK-DD-NAMES        UTILNAME=IDCAMS,UTILDDN=TESTDDN
000325 --                      DEL-PGM=MYDELPGM
000326                      DEL-PGM=EQQDELDS
000327 --                      DEL-PGM=CA11
000328                      SORT-PGM=SORT, SORTTYPE=IBM, SORTMSG=SYSOUT, PARMDDN=DFSPARM
000329 --                      SORT-PGM=SORT, SORTTYPE=SYNC, SORTMSG=SYSOUT, PARMDDN=$ORTPARM
000330 --                      SORT-PGM=SORT, SORTTYPE=IBM, SORTMSG=SYSOUT
000331 --                      SORT-PGM=SORT, SORTTYPE=IBM, SORTMSG=SRTprt
000332 --                      SORT-PGM=SORT, SORTTYPE=SYNC, SORTMSG=SRTprt
000333 --                      SORT-PGM=SORT, SORTTYPE=SYNC, SORTMSG=SYSOUT, PARMDDN=$ORTPARM
000334 --                      SORT-PGM=SORT, SORTTYPE=SYNC, SORTMSG=SYSOUT
000335 --                      SORT-PGM=SORT, SORTTYPE=SYNC, SORTMSG=SYSOUT, PARMDDN=DFSPARM
000336 --                      SORT-PGM=SORT, SORTMSG=SYSOUT, SORTTYPE=SYNC
000337 --                      SORT-PGM=ICEMAN
000338 -----
M A
```

New parameter  
CHECK-UTILITY-  
MEMBERS ...

# SmartJCL 3.4 – JCL Check

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      P390A.JUP.DATA.JOBLIB(T17922) - 01.07      CHECK SUCCESSFUL, RC=0
Command ==> CSR
000002  /** THERE IS NO OLDNAME MEMBER IN P390A.JUP.DATA.DYNAPO
000003  /**STEP1      EXEC PGM=IDCAMS
000004  /**SYSPRINT    DD SYSOUT=*
000005  /**SYSIN       DD *
000006  ALTER P390A.JUP.DATA.DYNAPO(OLDNAME) -
.HAAA      NEWNAME(P390A.JUP.DATA.DYNAPO(NEWNAME))
==MSG> IDC0300E MEMBER OLDNAME NOT FOUND,
==MSG>      DSN="P390A.JUP.DATA.DYNAPO"
000008  SET MAXCC=0
000009  /**
000010  /** MEMBER MEM2 ALREADY EXISTS IN P390A.JUP.DATA.DYNAPO
000011  /**STEP2      EXEC PGM=IDCAMS
000012  /**SYSPRINT    DD SYSOUT=*
000013  /**SYSIN       DD *
000014  ALTER P390A.JUP.DATA.DYNAPO(MEM1) -
.HAAB      NEWNAME(P390A.JUP.DATA.DYNAPO(MEM2))
==MSG> IDC0301E MEMBER MEM2 ALREADY EXISTS,
==MSG>      DSN="P390A.JUP.DATA.DYNAPO"
000016  SET MAXCC=0
000017  /**
```

... enables the check if members in utility control statements exist

# SmartJCL 3.4 – Change Facility

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(T17263) - 01.18      Columns 00001 00072
Command ==> _____ Scroll ==> CSR

***** ***** Top of Data *****
000001 //T17263 JOB
000002 //*
000003 //S1      EXEC PGM=MYPROG1,PARM=AAA AAA AAA AAA'
000004 //*
000005 //S2      EXEC PGM=MYPROG2,PARM=BBB BBB BBB BBB'
000006 //*
***** ***** Bottom of Data *****

M A
```

Change one string  
or all strings ...

# SmartJCL 3.4 – Change Facility

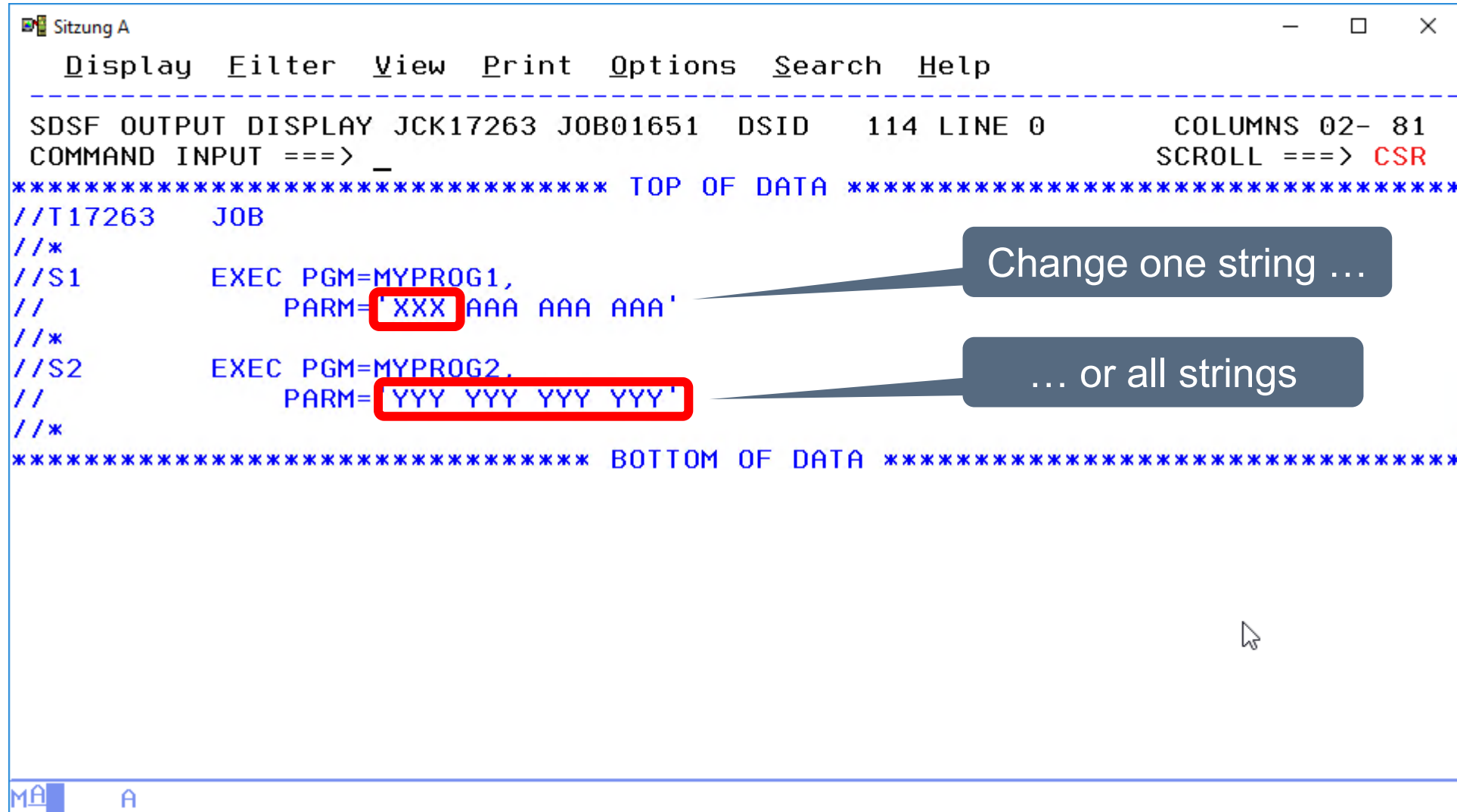
```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JCK.SRI(C17263) - 01.41          Columns 00001 00072
Command ==> _____ Scroll ==> CSR

***** ***** Top of Data *****
000001 WILDCARD *?;
000002 LNCHANGE LTYPE=*, VALUE=<*AAA*>, NEWVALUE=<*XXX*>;
000003 LNCHANGEALL LTYPE=*, VALUE=<BBB>, NEWVALUE=<YYY>;
***** ***** Bottom of Data *****
```

Change one string  
or all strings ...

# SmartJCL 3.4 – Change Facility



The screenshot shows a terminal window titled "Sitzung A" with a menu bar: Display Filter View Print Options Search Help. Below the menu bar, the terminal displays the following text:

```
SDSF OUTPUT DISPLAY JCK17263 JOB01651 DSID 114 LINE 0 COLUMNS 02- 81
COMMAND INPUT ==> _ SCROLL ==> CSR
***** TOP OF DATA *****
//T17263 JOB
//*
//S1 EXEC PGM=MYPROG1,
// PARM='XXX AAA AAA AAA'
//*
//S2 EXEC PGM=MYPROG2,
// PARM='YYY YYY YYY YYY'
***** BOTTOM OF DATA *****
```

Two callout boxes are present:

- A callout box labeled "Change one string ..." points to the string 'XXX' in the PARM parameter of the first job step.
- A callout box labeled "... or all strings" points to the entire PARM parameter 'YYY YYY YYY YYY' in the second job step.

At the bottom left of the terminal window, there is a status bar with "M" and "A" icons.

# SmartJCL 3.4 – REXX Interface

```
Sitzung A
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T16609A) - 01.04          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 //T16609A  JOB ,NOTIFY=&SYSUID
000002 //*
000003 //MYPROC  PROC PARAM1=XX,PARAM2=YY
000004 //PSTEP01 EXEC PGM=IEFBR14,TIME=(1,2),PARM=(&PARAM1)
000005 //PSTEP02 EXEC PGM=IEFBR14,TIME=(3,4),PARM=(&PARAM2)
000006 //PSTEP03 EXEC PGM=IEFBR14,TIME=(5,6)
000007 //      PEND
000008 //*
000009 //STEP02  EXEC MYPROC,PARAM1=AAAA,PARAM2=BBBB,
000010 //      TIME.PSTEP01=(8,9),TIME.PSTEP03=(7,8)
***** ***** Bottom of Data *****

M&  A
```

Input JCL ...

# SmartJCL 3.4 – REXX Interface

```
VIEW          P390A.JCK.SRI(X16609A) - 01.08          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** Top of Data *****
000001  /* REXX */
000002  /******
000003  /* 16609: EXEC STATEMENT STEM VARIABLE. EXAMPLE 1 */
000004  /******
000005  STMPTR = SRIGETSTMT(1);
000006  do while (stmptr /= 0);
000007  call SRIFillStem(stmptr);
000008  if (SRISayStmtype(stmptr) = 'EXEC') then do;
000009  say '**** EXEC STEM VARIABLE *****';
000010  say 'EXEC.NAME          => EXEC.NAME <';
000011  if SYMBOL('EXEC.PGM')="VAR" then
000012  say 'EXEC.PGM          => EXEC.PGM <';
000013  if SYMBOL('EXEC.PROC')="VAR" then
000014  say 'EXEC.PROC         => EXEC.PROC <';
000015  if SYMBOL('EXEC.TIME')="VAR" then
000016  say 'EXEC.TIME         => EXEC.TIME <';
000017  if SYMBOL('EXEC.TIME.MINUTES')="VAR" then
000018  say 'EXEC.TIME.MINUTES => EXEC.TIME.MINUTES <';
000019  if SYMBOL('EXEC.TIME.SECONDS')="VAR" then
000020  say 'EXEC.TIME.SECONDS => EXEC.TIME.SECONDS <';
000021  if SYMBOL('EXEC.TIME.MINUTES.PSTEP01')="VAR" then
000022  say 'EXEC.TIME.MINUTES.PSTEP01=> EXEC.TIME.MINUTES.PSTEP01 <';
000023  if SYMBOL('EXEC.TIME.SECONDS.PSTEP01')="VAR" then
000024  say 'EXEC.TIME.SECONDS.PSTEP01=> EXEC.TIME.SECONDS.PSTEP01 <';
000025  if SYMBOL('EXEC.TIME.MINUTES.PSTEP02')="VAR" then
000026  say 'EXEC.TIME.MINUTES.PSTEP02=> EXEC.TIME.MINUTES.PSTEP02 <';
000027  if SYMBOL('EXEC.TIME.SECONDS.PSTEP02')="VAR" then
000028  say 'EXEC.TIME.SECONDS.PSTEP02=> EXEC.TIME.SECONDS.PSTEP02 <';
000029  if SYMBOL('EXEC.TIME.MINUTES.PSTEP03')="VAR" then
000030  say 'EXEC.TIME.MINUTES.PSTEP03=> EXEC.TIME.MINUTES.PSTEP03 <';
000031  if SYMBOL('EXEC.TIME.SECONDS.PSTEP03')="VAR" then
000032  say 'EXEC.TIME.SECONDS.PSTEP03=> EXEC.TIME.SECONDS.PSTEP03 <';
000033  say '-----';
000034  say 'EXEC.PROCSTEPS      => EXEC.PROCSTEPS <';
000035  say 'EXEC.SYMBOLS        => EXEC.SYMBOLS <';
000036  say '*****';
000037  end;
000038  stmptr = SRIGetStmt(stmptr, 'NEXT');
```

... is available in a stem

# SmartJCL 3.4 – REXX Interface

```
SDSF OUTPUT DISPLAY JCK16609 JOB06425  DSID   111 LINE 2          COLUMNS 02- 81
COMMAND INPUT  ===>          SCROLL ===>  CSR
EXEC.NAME      =>PSTEP01<
EXEC.PGM       =>IEFBR14<
EXEC.TIME      =>(1,2)<
EXEC.TIME.MINUTES =>1<
EXEC.TIME.SECONDS =>2<
-----
EXEC.PROCSTEPS =><
EXEC.SYMBOLS   =><
*****
**** EXEC STEM VARIABLE *****
EXEC.NAME      =>PSTEP02<
EXEC.PGM       =>IEFBR14<
EXEC.TIME      =>(3,4)<
EXEC.TIME.MINUTES =>3<
EXEC.TIME.SECONDS =>4<
-----
EXEC.PROCSTEPS =><
EXEC.SYMBOLS   =><
*****
**** EXEC STEM VARIABLE *****
EXEC.NAME      =>PSTEP03<
EXEC.PGM       =>IEFBR14<
EXEC.TIME      =>(5,6)<
EXEC.TIME.MINUTES =>5<
EXEC.TIME.SECONDS =>6<
-----
EXEC.PROCSTEPS =><
EXEC.SYMBOLS   =><
*****
**** EXEC STEM VARIABLE *****
EXEC.NAME      =>STEP02<
EXEC.PROC      =>MYPROC<
EXEC.TIME.MINUTES.PSTEP01=>8<
EXEC.TIME.SECONDS.PSTEP01=>9<
EXEC.TIME.MINUTES.PSTEP03=>7<
EXEC.TIME.SECONDS.PSTEP03=>8<
-----
EXEC.PROCSTEPS => PSTEP01 PSTEP03 <
EXEC.SYMBOLS   => PARAM1 PARAM2 <
```

Result of the  
REXX program



SmartJCL V3R3 is available since May 2016. It offers following new functions:

- z/OS 2.2 support - many new statements
  - New SCHEDULE statement
  - JES2 Execution Control Statements:
    - AFTER
    - BEFORE
    - CONCURRENT
    - ENDGROUP
    - ENDSET
    - GJOB
    - JOBGROUP
    - JOBSET
    - SCHEDULE
    - SJOB

# SmartJCL 3.3

- PATH check
  - UNIX files are check in the same way as z/OS data sets
  - Files are managed in a temp. catalog of SmartJCL
- Retrieve Proclib information from system
  - z/OS 2.2 with SSI calls
- Adapted installation routine
  - ISPF dialog collects data
  - Jobs do the installation and create data sets
- Support of TWS 9.3

# SmartJCL 3.3 – Path Management

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(HFST006) - 01.08      ERRORS OCCURRED, RC=8
Command ==> _____ Scroll ==> PAGE
***** ***** Top of Data *****
==MSG> MESSAGE SUMMARY AND COUNTS: E=00001, W=00000, I=00001, SUPPRESSED=00001
==MSG> LABEL MSG.NO. ERROR MESSAGE
==MSG> -----
==MSG> .HAAA JCK0491E INSUFFICIENT AUTHORITY FOR READ OPERATION FOR USER P392F
==MSG>
==MSG>          PATH="/home/p390o/test3.txt"
000001 //HFST006 JOB ,NOTIFY=&SYSUID
=NOTE= --HFST006 JOB ,NOTIFY=P392F
000002 //*****
000003 //* Read a HFS file content
000004 //*****
000005 //STEP01 EXEC PGM=IEFBR14
000006 //SYSIN DD PATH='/home/p390o/test1.txt',
000007 //          PATHOPTS=(ORDONLY)
===== +---+ 1 ---+---+ 2 ---+---+ 3 ---+---+ 4 ---+---+ 5
===== /home/p390o/test1.txt
===== /home/p390o/test1.txt
===== /home/p390o/test1.txt
===== /home/p390o/test1.txt

MA A 04/015
```

zFS files are checked like z/OS data sets ...

# SmartJCL 3.3 – Path Management

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(HFST006) - 01.08          Columns 00001 00072
Command ==>
===== /home/p390o/test1.txt
000008 //*
000009 //STEP02 EXEC PGM=IEFBR14
000010 //SYSIN      DD PATH='/home/p390o/test2.txt',
000011 //              PATHOPTS=(ORDONLY)
===== /home/p390o/test2.txt
===== /home/p390o/test2.txt
===== /home/p390o/test2.txt
===== /home/p390o/test2.txt
000012 //*
000013 //STEP03 EXEC PGM=IEFBR14
000014 //SYSIN      DD PATH='/home/p390o/test3.txt',
.HAAA //              PATHOPTS=(ORDONLY)
==MSG> JCK0491E INSUFFICIENT AUTHORITY FOR READ OPERATION FOR USER P392F ,
==MSG>          PATH="/home/p390o/test3.txt"
000016 //*
000017 //STEP04 EXEC PGM=IDCAMS
000018 //SYSPRINT DD SYSOUT=*
000019 //SYSIN      DD PATH='/home/p390p/IDCAMS/sysin1',PATHOPTS=ORDONLY,
000020 //              LRECL=80,BLKSIZE=2400

MA  A  04/015
```

SYSIN content is included ...

/home/p390o/test2.txt  
/home/p390o/test2.txt  
/home/p390o/test2.txt  
/home/p390o/test2.txt

... and file permissions are taken into account.

JCK0491E INSUFFICIENT AUTHORITY FOR READ OPERATION FOR USER P392F ,  
PATH="/home/p390o/test3.txt"

# Any questions about SmartJCL 3.3 ?

Contact: [info@horizont-it.com](mailto:info@horizont-it.com)

```

Sitzung A - [24x80]
File Edit Edit_Settings Menu Utilities Compilers
VIEW          P390A.JUP.DATA.JOBLIB(T16555L) - 01.01
Command ==>
***** Top of Data *****
000001 //JOBE          JOB TIME=NOLIMIT,REGION=0K,NOTIFY=&SYS
000002 //*-----
000003 //* JOB SEQUENCE :
000004 //*              JOBA          JOBB
000005 //*              /            /
000006 //*              \            \
000007 //*              JOBC          (BEFORE=JOBC)
000008 //*              (AFTER=JOBA)
000009 //*              (BEFORE=JOBE)
000010 //*              /            \
000011 //*              JOBD          JOBE
000012 //*              (AFTER=JOBC) (DELAY=YES)
000013 //*              (DELAY=YES)
000014 //*-----
000015 //*
000016 //          SCHEDULE DELAY=YES
000017 //STEPE          EXEC PGM=WAITFOR,PARM=10000
000018 //STEPLIB DD          DISP=SHR,DSN=P390P.PAVEL.LOAD
000019 //*-----
Mâ  A 04/015
  
```

```

Sitzung A - [24x80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(T16555B) - 01.05
Command ==>
***** Top of Data *****
000001 //T16555B1 JOB ,NOTIFY=&SYSUID
000002 //*
000003 //* Z/OS 2.3
000004 //* JCL SYMBOLS, &SYSJOBNM, THE JOB NAME, AND &SYSJOBID
000005 //*
000006 //STEP01          EXEC PGM=IEFBR14
000007 //DD01           DD DISP=NEW,DSN=&SYSUID..TEST1.&SYSJOBNM,SPACE=(TRK,(1,1))
000008 //DD02           DD DISP=NEW,DSN=&SYSUID..TEST2.&SYSJOBID,SPACE=(TRK,(1,1))
000009 //DD03           DD DISP=NEW,DSN=&SYSUID..TEST3.&JOBNAME,SPACE=(TRK,(1,1))
000010 //*
000011 //T16555B2 JOB ,NOTIFY=&SYSUID
000012 //*
000013 //* Z/OS 2.3
000014 //* JCL SYMBOLS, &SYSJOBNM, THE JOB NAME, AND &SYSJOBID
000015 //*
000016 //STEP01          EXEC PGM=IEFBR14
000017 //DD01           DD DISP=NEW,DSN=&SYSUID..TEST1.&SYSJOBNM,SPACE=(TRK,(1,1))
000018 //DD02           DD DISP=NEW,DSN=&SYSUID..TEST2.&SYSJOBID,SPACE=(TRK,(1,1))
000019 //DD03           DD DISP=NEW,DSN=&SYSUID..TEST3.&JOBNAME,SPACE=(TRK,(1,1))
Mâ  A 04/015
  
```

# SmartJCL 3.2

SmartJCL V3R2 is available since February 2014. It offers following new functions:

- New Eclipse / RDz plug-in
  - Uses Remote Check Server on z/OS for a complete JCL check on z/OS
- Enhanced support for condition code dependent steps

# SmartJCL 3.2

- Support System Symbols in PARM members
- New PARM member to exclude DSNs from catalog check
- REXX Interface supports compiled REXX pgms
- Support for
  - z/OS 1.13 Enhancements
    - JOBRC parameter
    - In-stream data in JES2 procedures
  - z/OS 2.1 Enhancements
  - TWS 9.1

# SmartJCL 3.2 – Edit Macro

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.OPC.JOBLIB(GDGJ102) - 01.05          Columns 00001 00072
Command ==> jck                                     Scroll ==> PAGE
***** Top of Data *****
000001 //GDGJ102 JOB ACCOUNT,'GDG',CLASS=A,MSGCLASS=T,NOTIFY=P390K
000002 /**
000003 /** HORIZONT TEST-JCL
000004 /** READ 1 EXTERN GDG
000005 /** CREATE 1 NEW GDG
000006 /**
000007 //STEP1 EXEC PGM=IEFBR15
000008 //GDG01I DD DSN=P390K.GDGJ101.GDG010,DISP=SHR
000009 //GDG010 DD DSN=P390A.GDGJ102.GDG01(+1),
000010 //          DISP=(NEW,CATLG),UNIT=SYSDA,
000011 //          SPACE=(TRK,(1,1),RLSE),
000012 //          DCB=(DSORG=PS,RECFM=FB)
000013 /**
***** Bottom of Data *****

M&  A  04/018
```

Type JCK ...



# SmartJCL 3.2 – Edit Macro

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.OPC.JOBLIB(GDGJ102) - 01.05          ERRORS OCCURRED PAGE=8
Command ==>  _____ Scroll ==> PAGE

***** ***** Top of Data *****
==MSG> MESSAGE SUMMARY AND COUNTS: E=00003, W=00000, I=00000, SUPPRESSED=00000
==MSG> LABEL MSG.NO. ERROR MESSAGE
==MSG> -----
==MSG> .HAAA JCK0440E PROGRAM IEFBR15 NOT FOUND ON SEARCH PATH
==MSG> .HAAB JCK0515E DATA SET CANNOT BE FOUND/NOT IN CATALOG,
==MSG>          DSN="P390K.GDGJ101.GDG010"
==MSG> .HAAC JCK0309E GENERATION DATA GROUP DOES NOT EXIST,
==MSG>          DSN = "P390A.GDGJ102.GDG01"
000001 //GDGJ102 JOB ACCOUNT, 'GDG', CLASS=A,MSGCLASS=T,NOTIFY=P390K
000002 //*
000003 //* HORIZONTAL TEST-JCL
000004 //* READ 1 EXTERN GDG
000005 //* CREATE 1 NEW GDG
000006 //*
.HAAA //STEP1 EXEC PGM=IEFBR15
==MSG> JCK0440E PROGRAM IEFBR15 NOT FOUND ON SEARCH PATH
.HAAB //GDG01I DD DSN=P390K.GDGJ101.GDG010,DISP=SHR
==MSG> JCK0515E DATA SET CANNOT BE FOUND/NOT IN CATALOG,
==MSG>          DSN="P390K.GDGJ101.GDG010"

MA A 04/015
```

1. Summary

2. Labels to locate the error

3. Error message

# SmartJCL 3.2 – Eclipse plug-in

The screenshot shows the Eclipse IDE interface. On the left is the SmartJCL Explorer showing a tree of JCL files. The main editor displays the content of 'GDGJ102.jcl'. A context menu is open over the editor, with 'SmartJCL' expanded and 'Check' selected. Two callout boxes are present: one at the top right stating 'The JCL is transferred to z/OS and checked there' and one at the bottom right stating 'Edit JCL, click right mouse and select „SmartJCL - Check“'.

```
1 //GDGJ102  JOB  ACCOUNT, 'GDG', CLASS=A, MSGCLASS=T, NOTIFY=P390K
2 /**
3 /*** HORIZONT TEST-JCL
4 /**  READ  1  EXTERN GDG
5 /**  CREATE 1  NEW GDG
6 /**
7 //STEP1  EXEC  PGM=IEFBR15
8 //GDG01I DD  DSN=P390K.GDGJ101.GDG010, DISP=SHR
9 //GDG010 DD  DSN=P390A.GDGJ102.GDG01(+1),
10 //          DISP=(NEW, CATLG), UNIT=SYSDA,
11 //          SPACE=(TRK, (1, 1), RLSE),
12 //          DCB=(DSORG=PS, RECFM=FB)
13 /**
14 |
```

# SmartJCL 3.2 – Eclipse plug-in

The screenshot shows the Eclipse IDE interface. On the left is the SmartJCL Explorer showing a tree of JCL files. The main editor displays the content of GDGJ102.jcl. At the bottom, the SmartJCL Error Log window is open, showing a summary of errors and a table of error details.

```
1 //GDGJ102 JOB ACCOUNT,'GDG',CLASS=A,MSGCLASS=T,NOTIFY=P390K
2 /**
3 /*** HORIZONT TEST-JCL
4 /*** READ 1 EXTERN GDG
5 /*** CREATE 1 NEW GDG
6 /***
7 //STEP1 EXEC PGM=IEFBR15
8 //GDG01I DD DSN=P390K.GDGJ101.GDG010,DISP=SHR
9 //GDG010 DD DSN=P390A.GDGJ102.GDG01(+1),
10 //          DISP=(NEW,CATLG),UNIT=SYSDA,
11 //          SPACE=(TRK,(1,1),RLSE),
12 //          DCB=(DSORG=PS,RECFM=FB)
13 /***
14
```

MESSAGE SUMMARY AND COUNTS: Errors=00003, Warnings=00000, Infos=00000, Suppressed=00000

	Line	Type	Number	Message
1	7	✘	JCK0440E	<a href="#">PROGRAM IEFBR15 NOT FOUND ON SEARCH PATH</a>
2	8	✘	JCK0515E	<a href="#">DATA SET CANNOT BE FOUND/NOT IN CATALOG, DSN="P390K.GDGJ101.GDG010"</a>
3	12	✘	JCK0309E	<a href="#">GENERATION DATA GROUP DOES NOT EXIST, DSN = "P390A.GDGJ102.GDG01"</a>

Error messages are shown below in a special view

# SmartJCL 3.2 – Eclipse plug-in

The screenshot shows the Eclipse IDE interface. The SmartJCL Explorer on the left displays a tree of JCL files. The Preferences dialog is open in the center, with the 'SmartJCL Remote Check' section selected. The 'SmartJCL Remote Check' dialog is also open, showing a table of server configurations.

The connection to z/OS is established via the „HORIZONT TCP/IP-Scheduler“. You can define several z/OS systems

Specify IP-adress, port and member name of the SmartJCL STC Procedure

Server Name	IP Address	Hostname (...)	Port Number	Server Task
DEV	192.168.47.14		20000	JCKJSV33

# SmartJCL 3.2 – RDz plug-in

The screenshot shows the IBM Rational Developer for z Systems interface. The main editor displays a JCL file named GDGJ102.jcl with the following content:

```
1 //GDGJ102 JOB ACCOUNT, 'GDG', CLASS=A, MSGCLASS=T, NOTIFY=P390K
2 /**
3 /*** HORIZONT TEST-JCL
4 /*** READ 1 EXTERN GDG
5 /*** CREATE 1 NEW GDG
6 /**
7 //STEP1 EXEC PGM=IEFBR15
8 //GDG01I DD DSN=P390K.GDGJ101.GDG010, DISP=SHR
9 //GDG01O DD DSN=P390A.GDGJ102.GDG01(+1),
10 //          DISP=(NEW,CATLG), UNIT=SYSDA,
11 //          SPACE=(TRK,(1,1),RLSE),
12 //          DCB=(DSORG=PS, RECFM=FB)
13 /**
14
```

A callout bubble on the right side of the editor contains the text: "It works identical in RDz, even if there is another Editor".

At the bottom of the window, a red box highlights the error messages in the SmartJCL Error Log:

MESSAGE SUMMARY AND COUNTS: Errors=00003, Warnings=00000, Infos=00000, Suppressed=00000

Line	Type	Number	Message
1		7	JCK0440E PROGRAM IEFBR15 NOT FOUND ON SEARCH PATH
2		8	JCK0515E DATA SET CANNOT BE FOUND/NOT IN CATALOG, DSN= "P390K.GDGJ101.GDG010"
3		12	JCK0309E GENERATION DATA GROUP DOES NOT EXIST, DSN = "P390A.GDGJ102.GDG01"

# SmartJCL 3.2 – Cond. Steps

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(T10074B) - 01.01      Columns 00001 00072
Command ==> _____ Scroll ==> PAGE

***** Top of Data *****
000001 //T10074B JOB
000002 //*
000003 /*-----
000004 /* DELETE DATA SET
000005 /*-----
000006 //DEL      EXEC PGM=IDCAMS
000007 //SYSPRINT DD SYSOUT=*
000008 //SYSIN    DD *
000009 DELETE P390A.JUP.DATA.OUTPS
000010 /*-----
000011 /* SET RC
000012 /*-----
000013 //SETRC     EXEC PGM=ROTIRC
000014 //STEPLIB  DD DISP=SHR,DSN=P390A.ROSE.LOADEN
000015 //SYSPRINT DD SYSOUT=*
000016 //PRGRCF   DD *
000017 01
000018 /*
000019 /*-----

M A 04/015
```

Control execution of below steps ...

# SmartJCL 3.2 – Cond. Steps

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T10074B) - 01.01          Columns 00001 00072
Command ==>
000033 //GENER2 EXEC PGM=IEBGENER, COND=(2,NE,SETRC)
000034 //SYSPRINT DD SYSOUT=*
000035 //SYSUT1 DD *
000036 STEP GENER2
000037 //SYSUT2 DD DISP=(NEW,CATLG),DSN=P390A.JUP.DATA.OUTPS,
000038 //          SPACE=(TRK,(1,1)),
.HAAA //          DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PS)
==MSG> JCK0517E DATA SET IS ALREADY CATALOGED,
==MSG>          DSN="P390A.JUP.DATA.OUTPS"
000040 //SYSIN DD DUMMY
000041 //*-----
000042 //* CHECK FOR RC=3
000043 //*-----
000044 //          EXEC PGM=IEBGENER, COND=(3,NE,SETRC)
000045 //          *
000046 //          *
000047 //          *
000048 //SYSUT2 DD DISP=(NEW,CATLG),DSN=P390A.JUP.DATA.OUTPS,
000049 //          SPACE=(TRK,(1,1)),
.HAAB //          DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB,DSORG=PS)

M& A 04/015
```

Depends on Step  
SETR ...

... but SmartJCL does  
not know the RC.

# SmartJCL 3.2 – Cond. Steps

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      SYSH.SMARTJCL.V3R2.PARM(JCKKCND) - 01.31      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
000001  -----+-----+-----+-----+-----+-----+-----
000002  --JOB   |STEP   |PROCSTEP|PROCNAME|RC      |RESERVE |COMMENT
000003  -----+-----+-----+-----+-----+-----+-----
000004  T10074B |SETRC  |         |         |1       |         |SET RC=1
000005  T10074C |SETRC  |         |         |2       |         |SET RC TO 2
000006  T10074C |SETRCP |PSETRC  |         |1       |         |SET RC TO 1
000007  T10074D |SETRC  |         |         |2       |         |SET RC TO 2
000008  T10074D |SETRCP |PSETRC1 |         |1       |         |SET RC TO 1
000009  T10074D |SETRCP |PSETRC2 |         |2       |         |SET RC TO 2
000010  T10074D |SETRCP |PSETRC3 |         |3       |         |SET RC TO 3
000011  T10074E |STEP01 |SETRC1  |         |1       |         |SET RC TO 1
000012  T10074E |STEP02 |SETRC1  |         |3       |         |SET RC TO 3
***** Bottom of Data *****
```

New PARM member



Define RC for steps that are referenced in IF or COND



# SmartJCL 3.2 – Cond. Steps

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JUP.DATA.JOBLIB(T10074C) - 01.10      CHECK SUCCESSFUL, RC=0
Command ==> jck_                                     Scroll ==> CSR
***** Top of Data *****
==MSG> MESSAGE SUMMARY AND COUNTS: E=00000, W=00000, I=00004, SUPPRESS=00004
000001 //T10074C JOB
000002 //*
000003 //*-----
000004 //* DELETE DATA SET
000005 //*-----
000006 //DEL      EXEC PGM=IDCAMS
000007 //SYSPRINT DD SYSOUT=*
000008 //SYSIN     DD *
000009 DELETE P390A.JUP.DATA.OUTPS1
000010 DELETE P390A.JUP.DATA.OUTPS2
000011 DELETE P390A.JUP.DATA.OUTPS3
000012 //*-----
000013 //* DELETE DATA SET
000014 //*-----
000015 //MYPROC    PROC
000016 //PSETRC   EXEC PGM=ROTIRC
000017 //STEPLIB  DD DISP=SHR, DSN=P390A.ROSE.LOADEN
000018 //SYSPRINT DD SYSOUT=*

MA  A  04/018
```

Condition codes are evaluated and jobs is checked correctly.

# SmartJCL 3.2 – System Symbols

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities
VIEW      SYSH.SMARTJCL.V3R2.PARM(JCKKPARAM)
Command ==>
000090  -- ***** PROCLIB PARAMET
000091  JES-PROC      PROCDD=PROC00, PROCDS=USER.PROCLIB
000092          PROCDD=PROC00, PROCDS=SYSH.PROCLIB
000093          PROCDD=PROC00, PROCDS=SYS1.PROCLIB
000094          PROCDD=PROC01, PROCDS=P390A.JUP.DATA.PROCLIB
000095  --USER-PROC  UPROCDD=UPROC01, PROCDSN=P390P.USER.PLIB01
000096  --USER-PROC  UPROCDD=UPROC02, PROCDSN=P390P.USER.PLIB02
000097  -----
000098  -- ***** JOBCLASS PROC LIBRARY *****
000099  --JOBCLASS_PROC_LIBRARY  JOBCLASS=Z, PROCDD=PROC00
000100  -----
000101  -- ***** JCK DATA SETS ***
000102          JCK-MSG=SYSH.SMARTJCL.V3R2.PARM(JCKMSGI)
000103          JCK-MSG=SYSH.SMARTJCL.V3R2.PARM(JCKMSGI)
000104  JCK-FILE      JCK-FILE=PARM
000105  --JCKCNDI     JCK-CND=SYSH.SMARTJCL.V3R2.PARM(JCKCNDI)
000106  JCKMSGI       JCK-MSG=SYSH.SMARTJCL.V3R3.MSGS(JCKM)
000107  --JCKMSGI     JCK-MSG=HORIZONT.SMARTJCL.V3R2.MSGS.E(JCKM)
000108  --JCKMSGU     JCK-MSU=SYSH.SMARTJCL.V3R2.PARM(JCKMUSR)
000109  JCKMSXI       JCK-MSX=SYSH.SMARTJCL.V3R2.PARM(JCKKMSX)
MA      A
06/047
```

System symbols can be used for proclib specifications (JCKKPARAM) and for message suppression (JCKKMSX).

PROCDS parameter allows &SYSNAME, &SYSPLEX and &LPAR

# SmartJCL 3.2 – System Symbols

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          SYSH.SMARTJCL.V3R2.PARM(JCKKPARAM) - 01.30      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000089 -----
000090 -- ***** PROCLIB PARAMETERS *****
000091 JES-PROC          PROCDD=PROC00,PROCDS=USER.PROCLIB
000092                 PROCDD=PROC00,PROCDS=SYSH.PROCLIB
000093                 PROCDD=PROC00,PROCDS=SYS1.PROCLIB
000094                 PROCDD=PROC01,PROCDS=P390A.JUP.DATA.PROCLIB
000095 --USER-PROC      UPROCDD=UPROC01,PROCDSN=P390P.USER.PLIB01
000096 --USER-PROC      UPROCDD=UPROC02,PROCDSN=P390P.USER.PLIB02
000097 -----
000098 -- ***** JOBCLASS PROC LIBRARY *****
000099 --JOBCLASS_PROC_LIBRARY JOBCLASS=Z,PROCDD=PROC00
000100 -----
000101 -- ***** JCK DATA SETS *****
000102 JCK-MSG=SYSH.
000103 JCK-MSG=SYSH.
000104 JCK-FILE          JCK-FILE=PARAM
000105 --JCKCNDI        JCK-CND=SYSH.SMARTJCL.V3R2.PARM(JCKKCND)
000106 JCKMSGI          JCK-MSG=SYSH.SMARTJCL.V3R3.MSGS(JCKM)
000107 --JCKMSGI        JCK-MSG=HORIZONT.SMARTJCL.V3R2.MSGS.E(JCKM)
000108 --JCKMSGU        JCK-MSU=SYSH.SMARTJCL.V3R2.PARM(JCKMUSR)
MA A                                                    05/002
```

With parm WP=Y the parms can be checked in SYSPRINT

# SmartJCL 3.2 – System Symbols

```
Session C - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      SYSH.SMARTJCL.V3R2.PARM(JCKKMSX) - 01.99      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000011 --          DEFAULT VALUE: WILDCHAR *%
          STEP=STEPNAME,STMTNAME=STMTNAME,VAR1=VALUE1
          PARAMETERS:
000016 -- MSGNUM      NUMBER OF THE MESSAGE, WHICH SHOULD BE SUPPRESSED.
000017 --          CARDS IN MSGNUM ARE ALLOWED. NEXT PARAMETER, IF
000018 --          EXISTS, MUST START AT COLUMN 10, AT LEAST.
000019 -- SYSPLEX=    THE MESSAGE IS SUPPRESSED FOR THE SPECIFIED SYSPLEX NAME
000020 -- LPAR=       THE MESSAGE IS SUPPRESSED FOR THE SPECIFIED LPAR NAME
          - - - - - 3 Line(s) not Displayed
000024 -- PROCNAME=   THE MESSAGE IS SUPPRESSED FOR THE SPECIFIED PROCEDURE
000025 -- PROCSTEP=  THE MESSAGE IS SUPPRESSED FOR THE SPECIFIED PROCSTEP NAME
          - - - - - 48 Line(s) not Displayed
000074 -- *****
000075 JCK0318E STEP=STEP02,PROCSTEP=P1$1
000076 JCK0515E PROCNAME=MYPROC1
000077 JCK0440E PGM=PRODSYS,LPAR=IBMSYS1
000078 JCK0515E VAR1=*.PROD,SYSPLEX=ADCDPL
***** ***** Bottom of Data *****
MA C 04/015
```

System symbol can be used for message suppression.

SYSPLEX=  
LPAR=

PROCNAME=  
PROCSTEP=

Further new parameters for message suppression.

PROCSTEP=P1\$1

PROCNAME=MYPROC1

LPAR=IBMSYS1

SYSPLEX=ADCDPL

# SmartJCL 3.2 – JCK-ECAT

```
Session C - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      SYSH.SMARTJCL.V3R2.PARM(JCKKPARM) - 01 15      Columns 00001 00072
Command ==>
000098 JCK-FILE      JCK-FILE=
000099 JCKMSGI        JCK-MSG=$
000100 --JCKMSGU        JCK-MSU
000101 JCKMSXI          JCK-MSX=$
000102 PWDIN          JCK-PWD=SYSH.SMARTJCL.V3R2.P
000103 JCKCNDI          JCK-CND=SYSH.SMARTJCL.V3R2.P
000104 JCK-ECAT          JCK-ECAT=SYSH.SMARTJCL.V3R2.PARM(JCKKECAT)
000105 -----
000106 -- ***** CHECK PARAMETERS *****
000107 ACCEPT-MVS-COMMANDS  AMC=Y
000108 --ACCOUNTING-INFORMATION  ACCOUNTING=D548-8686
000109 --                          ACCOUNTING=D548-8686,'12/8/85',PGMBIN,AAAAAAA
000110 --                          YBBBBBBB
000111 --                          ACCOUNTING=TEST
000112 --                          ACCOUNTING=
000113 --CA-ACF2              CA-ACF2=N
000114 CAT-AUTO-DEF-GDG-BASE  GB=N
000115 CAT-CHECK              CM=Y
000116 CAT-CHECK-ENTRY        CCF=Y
000117 CAT-CHECK-EXCLUDE-DSN  ECAT-DSN=P390A.CATMGMT.EXCLUDE.DSN

MA C 04/015
```

A new parm member to exclude DSNs from catalog check

The only way in the past

# SmartJCL 3.2 – JCK-ECAT

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      SYSH.SMARTJCL.V3R2.PARM(JCKKECAT) - 01.02      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
***** ***** Top of Data *****
000001 -- EXCLUDE DATA SETS FROM CATALOG CHECKS, I.E. DATA SETS THAT ARE
000002 -- CREATED BY FILE TRANSFERS
000003 ECAT-DSN=P390A.JUP.DATA.OUTPS
000004 ECAT-DSN=P390A.JUP.DATA.DYNAPS
000005 ECAT-DSN=P390A.JUP.DATA.T10237.*
***** ***** Bottom of Data *****
```

Excluded data sets from catalog check

MA A 04/015

# Any questions about SmartJCL 3.2 ?

Contact: [info@horizont-it.com](mailto:info@horizont-it.com)

The screenshot displays the Eclipse IDE interface. On the left, the SmartJCL Explorer shows a project tree with files like GDGJ102, GDGJ103, etc. The main editor shows the JCL code for GDGJ102.jcl. Below the editor, the SmartJCL Error Log is visible, showing a message summary and a table of errors.

The terminal window, titled 'Sitzung A - [24 x 80]', shows the output of the JCL execution. It displays the job name 'P390A.JUP.DATA.JOBLIB(T1655B) - 01.05' and the command 'VIEW'. The output shows the top of the data for the job, including job details and data set information.

**MESSAGE SUMMARY AND COUNTS: Errors=00003, Warnings=00000**

Line	Type	Number	Message
1		7	JCK0440E PROGRAM IEFBR15 NOT FOUND ON SEARCH PATH
2		8	JCK0515E DATA SET CANNOT BE FOUND/NOT IN CATALOG, DSN="P390K.GDGJ101.GDG010"
3		12	JCK0309E GENERATION DATA GROUP DOES NOT EXIST, DSN = "P390A.GDGJ102.GDG01"

# SmartJCL 3.1

SmartJCL V3R1 will be available in September 2011. It will have following new functions:

- Many new parameters and options for JCL Check and Reformat
  - Get DB2 subsystem from system control blocks
  - Reformat only selected or changed JCL statements
  - Control setting ISPF member statistics in output file JCKJCLO
  - Check TSO program call



# SmartJCL 3.1

- Support for z/OS 1.12 SORT enhancements
  - JOINKEYS Application
  - Date Field Conversions
  - MERGE Operator
  - MERGEIN Alternate ddnames
  - ...
- Support for TWS 8.6

# SmartJCL 3.1

- ISPF dialog supports administrators
  - Admins are defined during installation or in JCKXPARM
  - Admins have additional configuration options
  - Users can only “use” SmartJCL

# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JCK.DEV.V3R1.PARM(JCKXPARM) - 01.03      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000317 /*-----*/
000318 /* Administrator users */
000319 /*-----*/
000320 JckAdm = "P390C.P390D"
000321 JckAdmU = (INDEX(JckAdm,USERID()) /= 0)
000322 /*-----*/
000323 OpzJc1 = scan(OpzJc1)
000324 OpzJc2 = scan(OpzJc2)
000325 OpzJc3 = scan(OpzJc3)
000326 OpzJc4 = scan(OpzJc4)
000327 address ispexec
000328 /*-----*/
000329 /* Put names and values of constants into shared pool */
000330 /*-----*/
000331 OpzVShr = OpzVShr,
000332          "OPZJL1  OPZJL2  OPZJL3  OPZJL4  ",
000333          "OPZWSPCE OPZSSPCE OPZUSPCE OPZOSPCE OPGVSPCE ",
000334          "OPGVVOL  OPZSUNIT OPZUUNIT OPZWUNIT ",
000335          "OPZEQQYP OPZADDS  OPZWSDS  OPZOIDS  OPZRDDS  OPZSIDS ",
000336          "OPZLTDS  OPZCXDS  OPZMSDS  OPZLDDS  OPZLBDS  ",
MA A 05/002
```

ISPF dialog supports administrator:

Specify admin users here ...

# SmartJCL 3.1

```
Session C - [24 x 80]
File Edit View Communication Actions Window Help
----- SmartJCL 3.1 -----
Command ==> _

Select one of the following options and press ENTER

1 Scheduler Interface for TWS
2 Check
3 Remote Check
4 Reformat
0 Options and Settings
A Administration Options and Settings

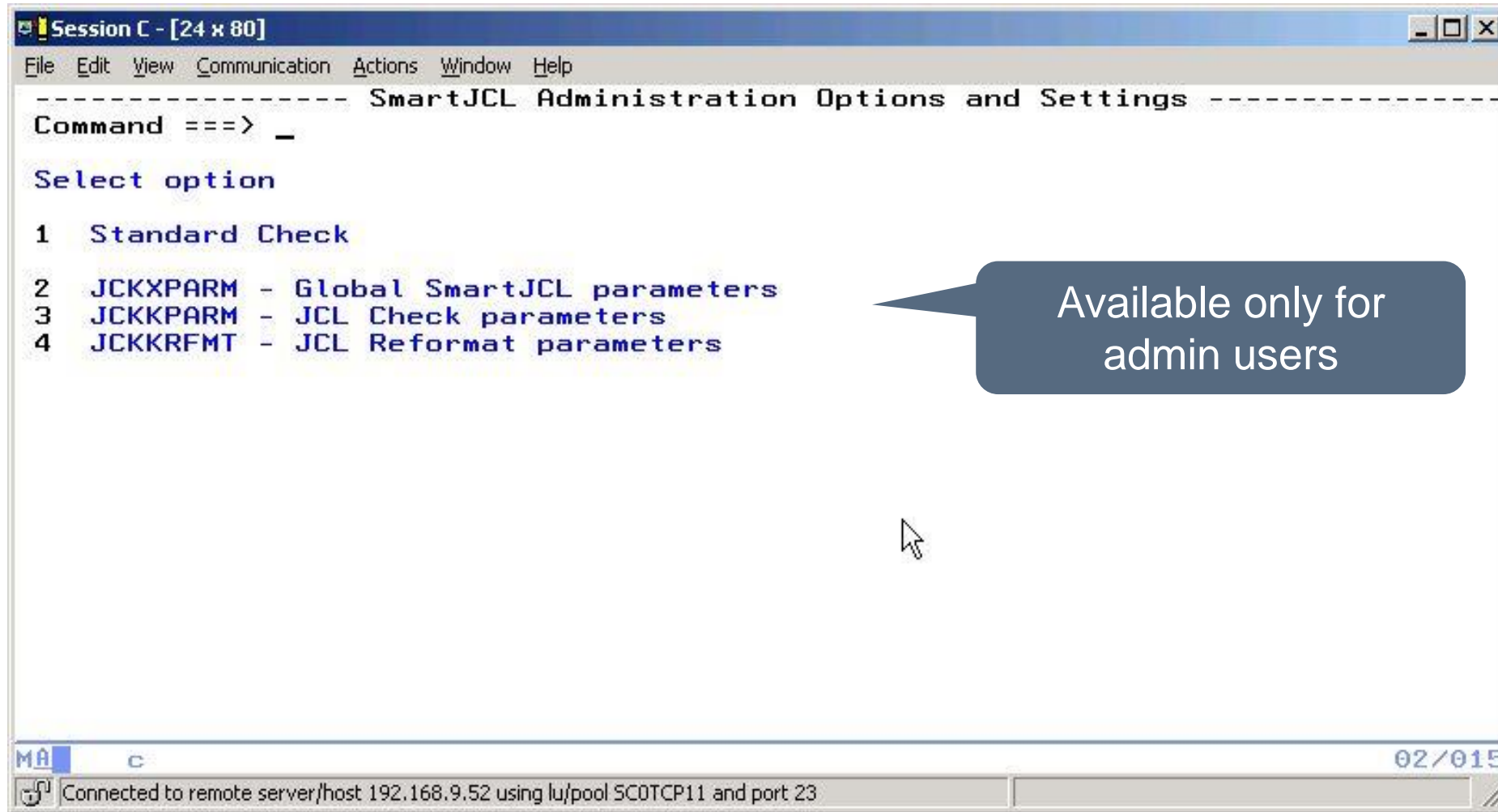
Available edit macros:
JCK          -JCL Check
RCK          -JCL Remote Check
JREF         -JCL Reformat
OSJ          -TWS variable simulation for TWS

MA c
02/015
Connected to remote server/host 192.168.9.52 using lu/pool SCOTCP11 and port 23
```

Available for every user

Available only for admin users

# SmartJCL 3.1



# SmartJCL 3.1

```
Session C - [24 x 80]
File Edit View Communication Actions Window Help
----- SmartJCL Option and Settings -----
Command ==> _

Select option or enter
JC      Change jobcards
JOBLIST edit Joblist data set
JOBLIB  edit Joblib data set
CANcel  leave panel without changing the Joblist or Joblibs DSN

DSN Joblist ==> P390D.SMARTJCL.JOBLIST
To edit joblist directly use command JOBLIST

DSN Joblibs ==> P390D.SMARTJCL.JOBLIBS
To edit joblib directly use command JOBLIB

MA  c  02/015
Connected to remote server/host 192.168.9.52 using lu/pool SCOTCP11 and port 23
```

Available for every user

- New SRI function “SriCatEntry” for catalog access and informations
  - Returns
    - Entry name (=DSN)
    - Catalog name
    - Entry type
    - Volser
  - Easier than LISTCAT and scanning output

- Enhanced JCL Change Facility
  - New commands DELSTMT, DELSTEP, INSERTSTMT, INSERTSTMT BEFORE FIRST (i.e. before first EXEC)
  - DO/ENDDO block to summarize more actions for one condition
  - RANGE (Column 1-72)



# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JCK.SRI(C10870C) - 01.09      Columns 00001 00072
Command ==> _____ Scroll ==> PAGE

***** ***** Top of Data *****
000001 WILDCARD *?;
000002 COMPATIBILITY_MODE NEW;
000003
000004 INSERTSTMT FIRST
000005 /* COMMENT STATEMENT ADDED AS FIRST
000006 ENDINS
000007 STMT=JOB;
000008
000009 INSERTSTMT LAST
000010 /* COMMENT STATEMENT ADDED AS LAST DD%
000011 ENDINS
000012 STMT=DD, PARM1=0, VALUE1=<DD??1>;
000013
000014 INSERTSTMT BEFORE
000015 //STEPAA EXEC                PGM=IEFBR14
000016 //DDAA1 DD                   DISP=SHR, DSN=P390A.JUP.DATA.DYNAPS
000017 //DDBB2 DD                   DISP=SHR, DSN=P390A.JUP.DATA.DYNAPS2
000018 ENDINS
000019 STMT=EXEC, PARM1=PGM, VALUE1=<PROG01>;
```

Enhanced JCL Change Facility:  
INSERTSTMT

Insert FIRST, LAST,  
BEFORE, AFTER

The statements to  
be inserted

... only if these  
criteria are fulfilled

# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JCK.SRI(C11081I) - 01.03          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** Top of Data *****
000001 COMPATIBILITY_MODE NEW;
000002 WILDCARD %?~;
000003
000004 INSERTSTMT AFTER
000005 //*****
000006 //PROCLIB  JCLLIB ORDER=(SYSH.PA.EMER.PROCLIB,SYSH.PA.XCPT.PROCLIB,
000007 //          SYSH.PA.TEST.PROCLIB,SYSH.PA.MRGEHOLD.PROCLIB,
000008 //          SYSH.PA.PROD.PROCLIB)
000009 //*
000010 ENDINS
000011 STMT=JOB;
***** Bottom of Data *****
```

Insert this JCLLIB statement after the JOB statement

MA A 04/015

# SmartJCL 3.1

DELSTMT and DELSTEP can be combined with parameter selection

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
JCK.SRI(C10870D) - 01.19 Columns 00001 00072
Scroll ==> PAGE
***** Top of Data *****
?;
...ITY_MODE NEW;
000000
000004 STATE COMMENT, VALUE=<*XDELX*>;
000005 DELSTMT JES=JOBPARM;
000006
000007 DELSTMT STMT=EXEC, PARM1=PROC, VALUE1=<AA*>;
000008 DELSTMT STMT=EXEC, PARM1=1, VALUE1=<AA*>;
000009 DELSTEP STMT=EXEC, PARM1=1, VALUE1=<BB*>;
000010 --
000011 DELSTMT STMT=DD, PARM1=DSN, VALUE1=<*AAAA*>;
000012 DELSTMT STMT=DD, PARM1=DSN, VALUE1=<*BBBB*>, PARM2=SPACE;
000013 DELSTMT STMT=DD, PARM1=DSN, VALUE1=<*CCCC*>, PARM2=DISP, VALUE2=<NEW>;
000014 --
000015 DELSTEP STMT=DD, PARM1=DSN, VALUE1=<*XXXX*>;
000016 DELSTEP STMT=DD, PARM1=DSN, VALUE1=<*YYYY*>, PARM2=SPACE;
000017 DELSTEP STMT=DD, PARM1=DSN, VALUE1=<*ZZZZ*>, PARM2=DISP, VALUE2/=<NEW>;
***** Bottom of Data *****
MA A 04/015
```

Use multiple PARMn and VALUEn pairs for selection ...

# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW      P390A.JCK.SRI(C11105) - 01.05
Command ==>
***** Top of Data *****
000001 COMPATIBILITY_MODE NEW;
000002 WILDCARD %?~;
000003 CHANGE STMT=DD,
000004     PARM1=DSN, VALUE1/= <%AAAA.%>,
000005     PARM2=DSN, VALUE2/= <%BBBB.%>,
000006     PARM3=DSN, VALUE3/= <%CCCC.%>,
000007     PARM4=DSN, VALUE4/= <%DDDD.%>,
000008     PARM5=DSN, VALUE5/= <%EEEE.%>,
000009 DO
000010     PARM=DSN, VALUE=<III.JJJ.%>, NEWVALUE=<CHNG01.%>,
000011     PARM=DSN, VALUE=<KKK.LLL.%>, NEWVALUE=<CHNG02.%>,
000012     PARM=DSN, VALUE=<MMM.NNN.%>, NEWVALUE=<CHNG03.%>,
000013     PARM=DSN, VALUE=<000.PPP.%>, NEWVALUE=<CHNG04.%>,
000014     PARM=DSN, VALUE=<CHNG03.%>, NEWVALUE=<ERRCHNG.%>
000015 ENDDO;
***** Bottom of Data *****
```

Enhanced JCL Change Facility:  
PARMn, VALUEn combined with  
DO/ENDDO

Use multiple PARMn and  
VALUEn pairs for selection

... and PARM and  
VALUE for the change

Use DO/ENDDO to group  
more changes for a selection

# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(T11105) - 01.02          Columns
Command ==> _____ Scroll ==> CSR
000016 /**
000017 //STEP10 EXEC PGM=IEFBR14
000018 //DD01  DD  DISP=SHR,DSN=III.JJJ.AAAA.NOCHNG
000019 //DD02  DD  DISP=SHR,DSN=III.JJJ.KKKK.CHANGE
000020 //DD03  DD  DISP=SHR,DSN=000.PPP.DDDD.NOCHNG
000021 //DD04  DD  DISP=SHR,DSN=KKK.LLL.MMMM.CHANGE
000022 //DD05  DD  DISP=SHR,DSN=000.PPP.QQQQ.CHANGE
000023 //DD06  DD  DISP=SHR,DSN=MMM.NNN.0000.CHANGE
000024 //DD07  DD  DISP=SHR,DSN=III.JJJ.XXXX.CHANGE
***** Bottom of Data *****
```

This JCL is modified:

Contains the strings for the change III.JJJ as well the string AAAAA that excludes the change

# SmartJCL 3.1

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW          P390A.JUP.DATA.JOBLIB(T11105) - 01.02
Command ==>
000004 /** PARM1=DSN, VALUE1/= <%AAAA.%>,
000005 /** PARM2=DSN, VALUE2/= <%BBBB.%>,
000006 /** PARM3=DSN, VALUE3/= <%CCCC.%>,
000007 /** PARM4=DSN, VALUE4/= <%DDDD.%>,
000008 /** PARM5=DSN, VALUE5/= <%EEEE.%>,
000009 /** DO
000010 /** PARM=DSN, VALUE=<III.JJJ.%>, NEWVALUE=<CHNG01.%>,
000011 /** PARM=DSN, VALUE=<KKK.LLL.%>, NEWVALUE=<CHNG02.%>,
000012 /** PARM=DSN, VALUE=<MMM.NNN.%>, NEWVALUE=<CHNG03.%>,
000013 /** PARM=DSN, VALUE=<000.PPP.%>, NEWVALUE=<CHNG04.%>,
000014 /** PARM=DSN, VALUE=<CHNG03.%>, NEWVALUE=<ERRCHNG.%>
000015 /** ENDDO;
000016 /**
000017 //STEP10 EXEC PGM=IEFBR14
000018 //DD01 DD DISP=SHR, DSN=III.JJJ.AAAA.NOCHNG
000019 //DD02 DD DISP=SHR, DSN=III.JJJ.KKKK.CHANGE
000020 //DD03 DD DISP=SHR, DSN=000.PPP.DDDD.NOCHNG
000021 //DD04 DD DISP=SHR, DSN=KKK.LLL.MMMM.CHANGE
000022 //DD05 DD DISP=SHR, DSN=000.PPP.QQQQ.CHANGE
000023 //DD06 DD DISP=SHR, DSN=MMM.NNN.0000.CHANGE
MA A 05/002
```

Resulting JCL:

Only changed JCL statements are reformatted:  
SJCREF=CHANGED

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compil
VIEW      P390A.JCK.SRI(C11525A) - 01.02
Command ==>
***** Top of Data *****
000001 WILDCARD %?;
000002 COMPATIBILITY_MODE NEW;
000003 OPTION RANGE=(39,49);
000004 --
000005 LNCHANGE VALUE=<%PROGRAM(%DB%)%> NEWVALUE=<%PROGRAM(%$$$%)%>,
000006         RANGE (4,19);
000007 --
000008 CHANGE INSTREAM,
000009         RANGE=(10,20),
000010         VALUE=<%ABCOLD%>,
000011         NEWVALUE=<%DEFNEW%>;
000012 --
000013 CHANGE COMMENT,
000014         RANGE=(10,20),
000015         VALUE=<%CMTOLD%>,
000016         NEWVALUE=<%CMTNEW%>;
***** Bottom of Data *****
MA A 08/016
```

Enhanced JCL Change Facility:  
RANGE

# Any questions about SmartJCL 3.1 ?

Contact: [info@horizont-it.com](mailto:info@horizont-it.com)

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JCK.DEV.V3R1.PARM(JCKXPARM) - 01.03          Columns 00001 00072
Command ==> _____ Scroll ==> _____
000317 /*-----
000318 /* Administrator users */
000319 /*-----
000320 JckAdm = "P390C,P390D"
000321 JckAdmU = (INDEX(JckAdm,USERID()) /= 0)
000322 /*-----
000323 OpzJc1 = scan(OpzJc1)
000324 OpzJc2 = scan(OpzJc2)
000325 OpzJc3 = scan(OpzJc3)
000326 OpzJc4 = scan(OpzJc4)
000327 address ispexec
000328 /*-----
000329 /* Put names and values of constants into sha
000330 /*-----
000331 OpzVShr = OpzVShr,
000332 "OPZJL1  OPZJL2  OPZJL3  OPZJL4
000333 "OPZWSPCE OPZSSPCE OPZUSPCE OPZOSPC
000334 "OPGVVOL  OPZSUNIT OPZUUNIT  OPZWUNI
000335 "OPZEQQYP OPZADDS  OPZWSDS  OPZOIDS
000336 "OPZLTDS  OPZCXDS  OPZMSDS  OPZLDDS
```

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JCK.SRI(C11105) - 01.05          Columns 00001 00072
Command ==> _____ Scroll ==> PAGE
***** ***** Top of Data *****
000001 COMPATIBILITY_MODE NEW;
000002 WILDCARD %?~;
000003 CHANGE STMT=DD,
000004 PARM1=DSN,VALUE1/=<%AAAA.%>,
000005 PARM2=DSN,VALUE2/=<%BBBB.%>,
000006 PARM3=DSN,VALUE3/=<%CCCC.%>,
000007 PARM4=DSN,VALUE4/=<%DDDD.%>,
000008 PARM5=DSN,VALUE5/=<%EEEE.%>,
000009 DO
000010 PARM=DSN VALUE=<III III %> NEWVALUE=<CHNG01 %>
```

```
Sitzung A - [24 x 80]
File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW          P390A.JUP.DATA.JOBLIB(T11105) - 01.02          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000016 /*-----
000017 //STEP10 EXEC PGM=IEFBR14
000018 //DD01 DD DISP=SHR,DSN=III.JJJ.AAAA.NOCHNG
000019 //DD02 DD DISP=SHR,DSN=III.JJJ.KKKK.CHANGE
000020 //DD03 DD DISP=SHR,DSN=000.PPP.DDDD.NOCHNG
000021 //DD04 DD DISP=SHR,DSN=KKK.LLL.MMMM.CHANGE
000022 //DD05 DD DISP=SHR,DSN=000.PPP.QQQQ.CHANGE
000023 //DD06 DD DISP=SHR,DSN=MMM.NNN.0000.CHANGE
000024 //DD07 DD DISP=SHR,DSN=III.JJJ.XXXX.CHANGE
***** ***** Bottom of Data *****

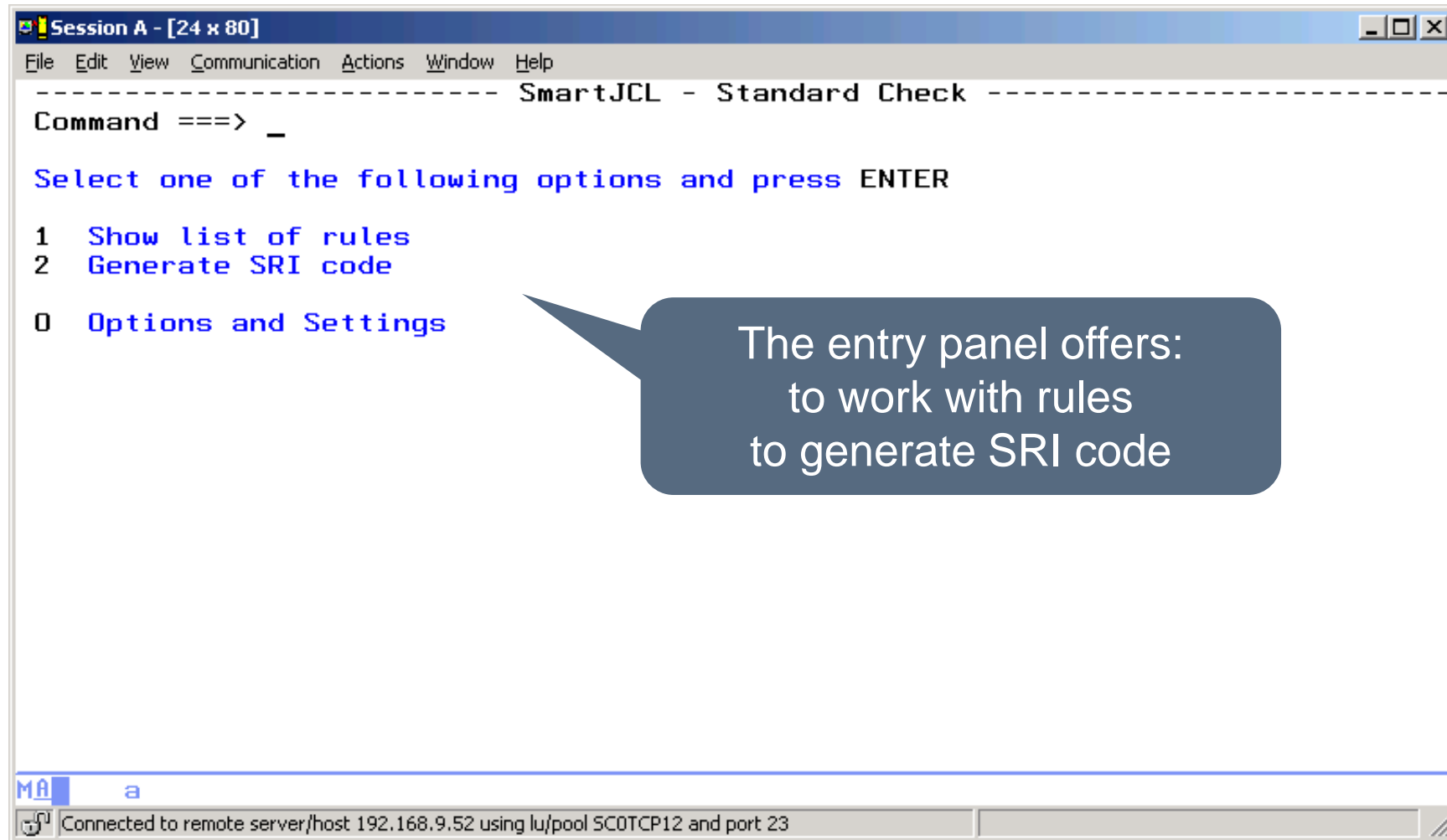
04/015
05/002
```



SmartJCL V3R0 is available since September 2009. It will have following major new functions:

- ISPF Dialog to specify rules according to customer specific standards
  - Every site has individual rules, e.g. „UNI must be SYSDA in SORT step“
  - Up to now checks required usage of SmartJCL's REXX interface
  - SmartJCL will enable non-programmers to specify complex rules by using a simple ISPF dialog
  - See dialog on next slides

# Standard Check: Entry Panel



# Standard Check: Options

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- SmartJCL 3.0 - Standard Check: Options and Settings -----
Command ===> _

Specify DSN for rule definitions:
Rules    ===> P390C.SMARTJCL.RULES(STDKALL)
To edit the rules directly use command RULE

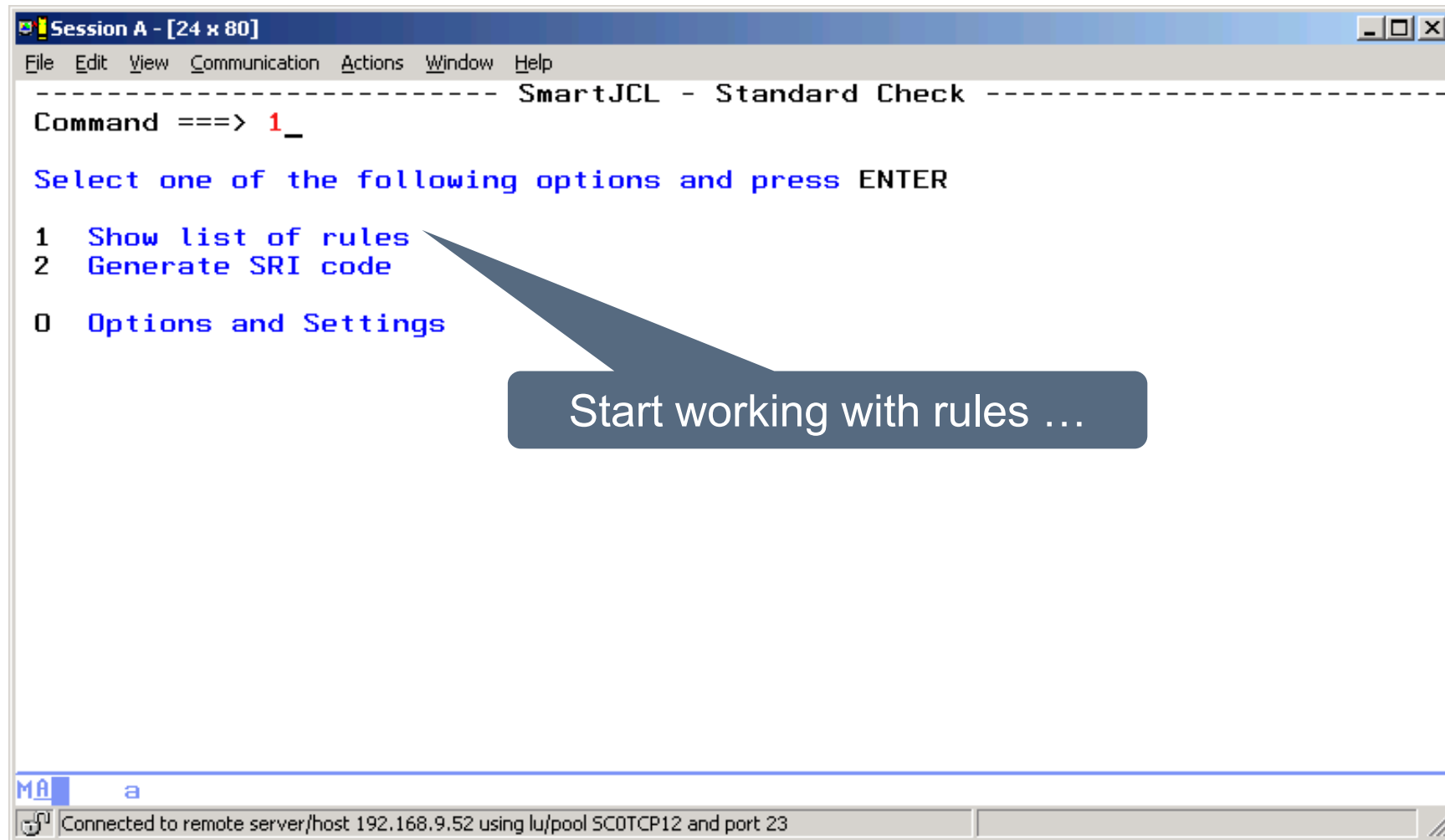
Specify DSN for generated SmartJCL REXX Interface (SRI) code:
SRI code ===> P390C.SMARTJCL.REXX(STDKALL)
To edit the SRI code directly use command SRI

Mâ a
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```

Specify with which rules you want to work ...

... and where the generated code is to be stored.

# Standard Check: Entry Panel



# List of Rules

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: List of Rules ----- ROW 15 TO 28 OF 36
Command ==> SCROLL ==> PAGE

Commands: CRE Create Rule XML Browse rules (XML) CANCEL
LineCmds: M Modify B Browse X Browse XML D Delete A Active/Deactive

Rules : P390C.SMARTJCL.RULES(STDKALL)

L A Name Description
-----
- Y PROC= IS REQUIRED 17. EXEC PROC=PROCX not allowed, only EXEC PROCX
- N IN-STREAM LINES 18. Search string in in-stream lines and in PO/PS D
- Y SASBAT 19. If 'SASBAT' then the 'SYSIN' or 'SAS.SYSI not
- Y SASBAT 20. Third JOBLIB must be PRD.CM.LOADLIB
m Y DISP PARAM 21. DISP parameter depends on JOB name
- Y BLKSIZE 22. For SORTIN and DUMMY BLKSIZE is not allowed
- Y SEGMENT 23. SEGMENT parm not allowed in DD statement
- Y PARAMS DEP. 24. RETPD requires SPACE RLSE
- Y JOB LABEL 25. LABEL= depends on JOB name
- Y JOB LIB 26. LABEL= depends on JOB name
- Y RECFM BLK 27. Cataloged datasets require blocking
- Y UNCATLG 28. UNCATLG in DISP parameter not allowed
- Y UNIT VALUES 29. UNIT value invalid
- Y DEN AND UNIT 31. DEN=3 or DEN=4 requires UNIT=OM80 or UNIT=ED80

Mâ a 16/002
Disconnected.
```

Create a new rule or select an existing one to modify it ...

# Modify Rule

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> _ SCROLL ==> PAGE

Commands: AddC Add Condition AddE Add Exception AddA Add Action CANCEL
LineCmds: I Insert M Modify D Delete Condition/Exception/Action

Rule name : DISP PARAM_____
Description: 21. DISP parameter depends on JOB name_____
-----
- Condition
- SUBSTR(JOB.NAME,6,1) INLIST 'R,E'
- DD.DISP NE 'SHR'
- Condition
- SUBSTR(JOB.NAME,3,1) EQ '3'
- DD.DISP NE 'SHR'
- Action
- MESSAGE LAST_JCL_STMT 'STD0021E'
```

If pos. 6 of jobname is R o E and DISP not equal SHR ...

... or if pos. 3 of jobname is 3 and DISP not equal SHR ...

... then issue message.

# Selection Criteria

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

Comma ----- Selection criteria ----- ROW 1 TO 16 OF 54
LineC Command ==> SCROLL ==> PAGE
Rule Commands: CANcel END
Descr LineCmds: S Select
Selected:

  Con L Constant          Description
  M   S -----
  -   D - JOB            valid for job
  -   D - STEP          valid for step
  -   D - STMT         valid for statement

  Con S
  -   D S JOB.         JOB statement
  -   D - EXEC.       EXEC statement
  -   D - DD.         DD statement

  Act M
  -   M - JES2_JOBPARM. /*JOBPARM    statement
  -   M - JES2_MESSAGE. /*MESSAGE    statement
  -   M - JES2_NETACCT. /*NETACCT   statement
  -   M - JES2_NOTIFY.  /*NOTIFY    statement
  -   M - JES2_OUTPUT.  /*OUTPUT    statement
```

All possible selection criteria can be picked from a list ...

# Selection Criteria

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

Comma
LineC ----- Selection criteria ----- ROW 40 TO 54 OF 54
Rule  Command ==> SCROLL ==> PAGE
Descr Commands: CANcel END
Selected: LineCmds: S Select

-----
_ Con L Constant Description
M S -----
_ D - JOBMAX Number of all jobs in a member
_ JCLLINE Content of current orig. JCL line + in-strea
_ Con JCLLINEMAX Number of JCL lines
_ S - JOBNO Number of currently processed job of a membe
_ D - MEMBERNAME Name of currently processed member
MEMBERTYPE JOB, PROC, INCL
_ Act PGMMAX Number of (all) program steps of currently p
M - PGMNO Number of currently processed program of a j
- PROCMAX Number of (all) procedure steps of currently
- PROCNO Number of currently processed procedure of a
- STEPMAX Number of (all) steps of currently processed
- STEPNO Number of currently processed step of a job

Mâ a 05/023
Disconnected.
```

Further down in the list ...

... the selection criteria provided by Standard Check



# Selection Criteria

----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11  
Command ==> SCROLL ==> PAGE

----- Selection criteria ----- ROW 1 TO 16 OF 47  
Command ==> SCROLL ==> PAGE

Comma LineC  
Rule Descr  
-----  
\_ Con L Constant Description  
M S  
\_ D S NAME Job name  
\_ ACCT Accounting parameter  
\_ Con ACCT.NUMBER Account number  
\_ S ACCT.INFO Accounting information  
\_ D  
\_ Act BYTES.COUNT  
M BYTES.ACTION  
\_ CARDS  
\_ CARDS.COUNT  
\_ CARDS.ACTION  
\_ CCSID

Selected: JOB.

JOB statement is selected ...

... and all possible parameters and sub-parameter are listed ...

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# Comparison Operators

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

Comma LineC ----- Selection operator ----- ROW 1 TO 11 OF 11
LineC Command ==> SCROLL ==> PAGE
Rule Commands: CANcel END
Descr LineCmds: S Select
Selected: JOB.NAME

L Operator Description
-----
M S EQ equal to
D NE not equal to
Con LT less than
S LE less than or equal to
D GT greater than
GE greater than or equal to
Act INDSN equals a value in a DSN
M S INLIST equals a value in a list
INCLUDE value includes
ISMISSING value does not exist

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```

... as well as all comparison operators

# Specify Compare Values

```
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

----- Value for compare ----- ROW 1 TO 2 OF 2
Command ==>
Commands: CANceL END SAVE
Condition:
Constant   : JOB.NAME
Substr     : Pos ==> 6_ Length ==> 1_
Operator   : INLIST
LineCmds: I Insert value D Delete value

-----
- R -----
- E -----

-----
```

Comma LineC

Rule Descr

Con M S D

Act M

Values for substr

Here you can enter a list of the values.

Mâ a 05/023

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# Action for a Rule

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> _ SCROLL ==> PAGE

Commands: AddC Add Condition AddE Add Exception AddA Add Action CANCEL
LineCmds: I Insert M Modify D Delete Condition/Exception/Action

Rule name : DISP PARAM_____
Description: 21. DISP parameter depends on JOB name_____

-----
- Condition
- SUBSTR(JOB.NAME,6,1) INLIST 'R,E'
- DD.DISP NE 'SHR'

- Condition
- SUBSTR(JOB.NAME,3,1) EQ '3'
- DD.DISP NE 'SHR'

- Action
m MESSAGE LAST_JCL_STMT 'STD0021E'
```

What should happen if a condition is true?

# Action for a Rule

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

Comma LineC
Rule Descr
-----
_ Con L Action Description
_ S - -----
_ D S MESSAGE ISSUE MESSAGE
_ - USERCODE CALL USER SRI PROGRAM

_ Con
_ S
_ D

Act
M M

Mâ a 05/024
Disconnected.
```

A message can be issued or a REXX can be called.

# Action for a Rule

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11
Command ==> SCROLL ==> PAGE

Comma ----- Message positioning----- ROW 1 TO 5 OF 5
LineC Command ==> SCROLL ==> PAGE
Rule Commands: CANcel END
Descr LineCmds: S Select
Selected: MESSAGE

-----
_ Con L Position Description
_ S - -----
_ D - TOP_OF_JCL Insert message before JCL
_ Con - BOTTOM_OF_JCL Insert message after JCL
_ S - FIRST_JCL_STMT Insert message at first JCL statement of rul
_ D - S LAST_JCL_STMT Insert message at last JCL statement of rule

Act
M M

Mâ a 05/023
Disconnected.
```

Where will the message appear?

# Action for a Rule

Session A - [24 x 80]

File Edit View Communication Actions Window Help

----- Standard Check: Modify Rule ----- ROW 1 TO 11 OF 11  
Command ==> SCROLL ==> PAGE

----- Value for action -----

Command ==>  
Commands: CANcel END SAVE

Action:

Type : MESSAGE  
Location : LAST\_JCL\_STMT  
Value ==> STD0021E

-----

Con S  
D

Con S  
D

Action  
M MESSAGE LAST\_JCL\_STMT 'STD0021E'

Mâ a 12/024

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The message has to be defined in a message member.

# XML for a Rule

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
Menu Utilities Compilers Help

BROWSE      SYS09201.T131957.RA000.P390C.R0129648      Line 00000000 Col 001 080
Command ==> _                                         Scroll ==> CSR
***** Top of Data *****
<?xml version="1.0"?>
<RULE>
  <TITLE>DISP PARAM</TITLE>
  <DESCRIPTION>21. DISP parameter depends on JOB name</DESCRIPTION>
  <ACTIVE>Y</ACTIVE>
  <OR>
    <AND>
      <CONST>SUBSTR(JOB.NAME,6,1)</CONST>
      <OPER>INLIST</OPER>
      <VALUE>R</VALUE>
      <VALUE>E</VALUE>
    </AND>
    <AND>
      <CONST>DD.DISP</CONST>
      <OPER>NE</OPER>
      <VALUE>SHR</VALUE>
    </AND>
  </OR>
</RULE>
```

The rules created in the dialog are stored as XML.



# Generate SRI Code

```
----- SmartJCL - Standard Check -----  
Command ==> 2_  
STDM015 XML is changed, please generate new SRI code  
Select one of the following options and press ENTER  
  
1 Show list of rules  
2 Generate SRI code  
  
0 Options and Settings
```

Option 2 creates SmartJCL REXX Interface Code from XML.

Mâ a 02/016  
Disconnected.

# Generate SRI Code

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
Menu Utilities Compilers Help

BROWSE      SYS09201.T144352.RA000.P390C.R0129734      Line 00000000 Col 001 080
Command ==> _                                         Scroll ==> CSR

***** Top of Data *****
*****
JCKISTD
HORIZONT GMBH, MUNICH, 2009, ALL RIGHTS RESERVED
COMPILED WITH IBM PLI LE V1R1 AT 19 JUL 09 21.58.03
*****

=====
SUMMARY REPORT ABOUT SRI GENERATION
=====
|RuleName          |Conditions|Exceptions|SubConditi.|Message|UserCode|
|-----|-----|-----|-----|-----|-----|
|STEPMAX           |1         |0         |1          |STD0001E|         |
|JOB CLASS        |1         |0         |4          |STD0002E|         |
|PGM SORT         |1         |0         |1          |STD0003E|         |
|DD UNIT          |1         |1         |2          |STD0004E|         |
|SPACE            |1         |0         |1          |STD0005E|         |
|TEMP. DATASETS   |1         |0         |1          |STD0006E|         |
|DTRBATCH         |1         |0         |1          |STD0007E|         |

Mâ a 04/015
Disconnected.
```

# Generate SRI Code

```
Session A - [24 x 80]
File Edit View Communication Actions Window Help
Menu Utilities Compilers Help

BROWSE      SYS09201.T144352.RA000.P390C.R0129734      Line 00000038 Col 001 080
Command ==> -                                         Scroll ==> CSR

UNIT VALUES      | 0      | 1      | 1      | STD0029E
DEN AND UNIT      | 2      | 0      | 4      | STD0031E
AMP AMORG         | 1      | 0      | 1      | STD0032E
JOB CLASS         | 1      | 0      | 1      | STD0035E
JOB CLASS L,M,M,Z | 1      | 0      | 1      | STD0036E
DSN 1-10          | 1      | 0      | 1      | STD0037E
PROC UTSEP        | 1      | 0      | 2      | STD0038E
/*XEQ             | 1      | 0      | 1      | STD0041E
-----+-----+-----+-----+-----+
TOTAL:  33      | 34     | 3      | 70     |
=====+=====+=====+=====+=====
Input XML: P390C.SMARTJCL.RULES(STDKALL)
Output SRI: P390C.SMARTJCL.REXX(STDKALL)
=====+=====+=====+=====+=====

*****
JCKISTD ENDED AT 14:43:53:303, RC=0000
*****
***** Bottom of Data *****
*****

Mâ a 04/015
Disconnected.
```

The created REXX code has to be specified with parameter SRI-PRG for Check or Reformat.

Other new functions and enhancements:

- Installation – Own PARM dataset
  - Strict separation of product libraries and parameter library (OPZXPARM in CLIST caused problems).
  - Easier distribution/maintenance of SmartJCL to multiple z/OS systems.
- Scheduler Interface for TWS
  - TWS 8.5 support

## Other new functions and enhancements (2):

- JCL Checker
  - z/OS 1.11 support
    - DD EATTR parameter and SORT enhancements
  - Check IEHPROGM control statements and consider them for catalog check
  - Issue warning for RACF unprotected datasets
  - Issue warning if no alias exists for first qualifier
    - To avoid data sets in the master catalog
  - Message suppression: allow wildcards for message number
    - To suppress all messages for particular members
    - Example for PARM (JCKKMSX): JCK\*MEMBER=MEMNAME

## Other new functions and enhancements (3):

- JCL Reformat
  - Reformat writes directly to PO files
    - In the past a PS dataset with IEBUPDTE format was used
    - ISPF member statistic is updated
  - Reformat COMMAND statement

Other new functions and enhancements (4):

- SmartJCL REXX Interface (SRI)
  - New function %SRIInclude to avoid copies of same code
  - New function SRIChangeRef to adapt references to changes stepnames
  - Same line numbers in SRI messages as in trace

Thanks for your attention! Do you have any questions?

The logo for 'HORIZONT' features the word in a bold, sans-serif font. The letter 'O' is highlighted in red, while the other letters are in dark grey. The background is light grey with a large red curved shape on the left and several faint, semi-transparent geometric shapes (squares and circles) scattered around.

**HORIZONT**

Please feel free to visit us in Munich or send an email to  
**[info@horizont-it.com](mailto:info@horizont-it.com)**