



***An improved approach to the configuration of
Tivoli OMEGAMON and Tivoli Management
Services (TMS) Products on z/OS –The
PARMGEN Alternative Approach***

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Summary – What is PARMGEN?

✚ PARMGEN:

- ✔ **New & Improved**: By now, most of you have heard about this new configuration method for OMEGAMON/ITM-based products called “**PARMGEN**.” Well, to start with, it’s been **renamed** from “PARMLIB” to “PARMGEN” to avoid misappropriation of a term that already means something to most systems programmers. “**PARMGEN**” is a more appropriate term because we’re all about **updating profile parameters** and **generating the customized files** needed for executing the products.

Summary – What is PARMGEN? (continued)

✚ PARMGEN:

- ☑ **Why PARMGEN? We listened...** What started as merely a desire to deliver a more **intuitive** means of configuration (i.e., “*not ICAT*”) was handed the additional mantles of improving Time-to-Value (**TTV**) and reducing Total-Cost-of-Ownership (**TCO**). We had to do something to reduce or eliminate the deployment pain points from customers who don’t want to learn to use ICAT, so with PARMGEN, we are better aligned with other z/OS product installations. At the same time, could we really just expose numerous raw product configuration parameters to customers and tell them to have at it? ***So, to facilitate the process and prevent errors, we’ve supplied tooling that...***

Summary – What is PARMGEN? (continued)

✚ PARMGEN:

☑ Why PARMGEN Phase 1?

- 1. Walks you through the various steps required to complete configuration including the initial step of customizing a profile that drives the PARMGEN process.*
- 2. Automatically updates hundreds of configuration artifacts according to the values in that profile, including auto-discovering some system values (hostname, NETID), inserting job cards & product SYSIN data as needed.*
- 3. Validates parameter settings for tolerance and type.*

Summary – What is PARMGEN? (continued)

✚ PARMGEN:

☑ **Why PARMGEN Phase 1?** While doing all this work, we also thought it would be a good time to make some **long-desired** improvements. To that end, the PARMGEN process:

1. Is ***“RTE-centric”*** (aka *“function-centric, task-oriented”*) rather than product-centric so you get to define all the products you want in an RTE and generate that environment in just one set of composite jobs (e.g., 10 PARMGEN jobs versus **hundreds** in ICAT)
2. Makes extensive use of real system variables and even supports user-defined symbols!

Summary – What is PARMGEN? (continued)

✚ PARMGEN:

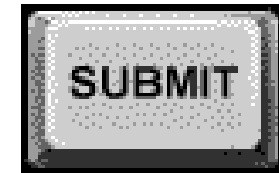
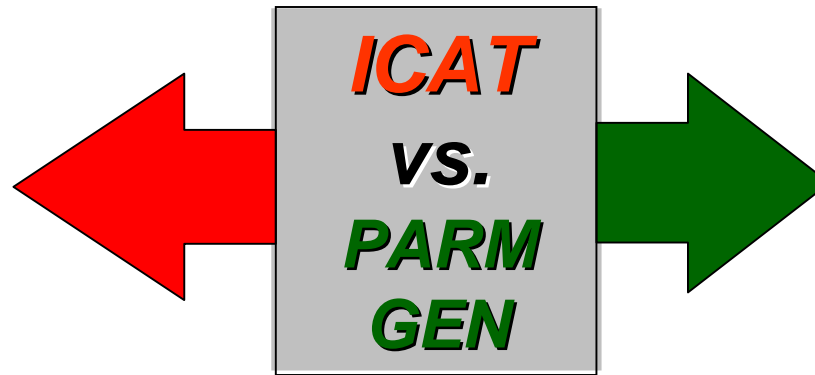
🕒 Why PARMGEN Phase 1?

4. *Uses more than eight characters for self-evident parameter names rather than cryptic ones.*
5. *Harvests settings from an existing ICAT environment (if any) to use customer values.*
6. *Can be re-run after an RTE is set up to change values or add products or delete products.*
7. *Supports a more staged maintenance/upgrade – does not (re)create the runtime members directly into the production RKANCMDU, RKANPARU, and other user execution libs.*

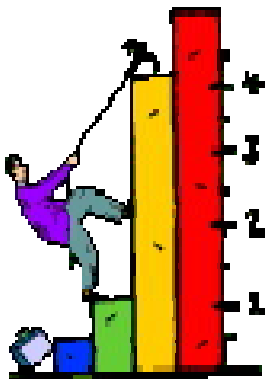
Product-centric (ICAT) vs. Function RTE-centric jobs (PARMGEN)



150 ICAT
product-centric
jobs for 1 LPAR
RTE
to configure 38
components



8-10 PARMGEN
function-centric
jobs for 1 LPAR
RTE
regardless
how many
products!





***z/OS Product Families Supported by
PARMGEN and ICAT
Configuration Modes Today***





PARMGEN Workflow User Interface (Phase 1) – Sample Scenarios



PARMGEN Scenarios: Create a new RTE @ Phase 1



PARMGEN Scenario #1: Pristine Install (RTE=TESTSYSA): Create a new PARMGEN RTE in test LPAR SYSA. RTE shares with a Base RTE BASEA with System Variables enabled with a z/OS Remote TEMS @ ITM623, OMEGAMON XE on z/OS and OMEGAMON XE for CICS on z/OS.



PARMGEN Scenario #2: Clone (RTE=TESTSYSB): Clone TESTSYSA RTE (runs on SYSA LPAR) to run on another LPAR (TESTSYSB RTE to run on SYSB LPAR).

PARMGEN Scenarios: Create a new RTE @ Phase 1



PARMGEN RTE Life Cycle: *When creating a new RTE using the PARMGEN process, there are 8 main steps involved.*

1. Set up PARMGEN work environment for an RTE.
2. Update interim libraries and create PARMGEN configuration profiles.
3. Convert an ICAT RTE Batch member. (Optional)
4. Customize PARMGEN configuration profiles.
5. Validate PARMGEN profile parameter values.
6. Create the RTE members and jobs.
7. Submit batch jobs to complete PARMGEN setup.
8. Complete the post-configuration steps and start the products.

PARMGEN Scenarios: Create a new RTE @ Phase 1



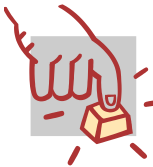
Download the latest PARMGEN Phase 1 PTF and let's get started!

=====

Execute the PARMGEN Phase 1 code:

ISRTSO ISPF Command Shell

Enter TSO or Workstation commands below:



===> **EXECUTE 'TSTEST.ITM62351.TKANCUS(KCIRPLB2)'**

=====

Legend:  = *User Action (Type input, Execute cmd.)*



PARMGEN RTE Life Cycle:

Step 1. KCIJPCFG Job: Set up PARMGEN work environment for RTE=TESTSYSA.



Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB0 ----- PARAMETER GENERATOR USER INTERFACE - WELCOME -----
COMMAND ==> _
```

Welcome to the PARMLIB configuration mode's Parameter Generator User Interface (PARMGEN).

Specify the location of the PARMLIB global user JCL library.

```
GBL_USER_JCL: TSTEST.CCAPI.PARMGEN.JCL_
```

Specify the PARMLIB CONFIG profile library and member. If this is an ICAT-to-PARMLIB conversion, specify the ICAT RTE Batch member location.

If PARMLIB CSI parameters are to be obtained from a JOBGEN work file, then enter its location.

```
TDITNT.JOBGEN.JCL_
```

```
Enter Jobcard data:
```

```
==> //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN=DAY', CLASS=
==> // MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGI
==> /*** RTE_NAME=%RTE_NAME%
==> /*** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%
```

```
Enter=Next F1=Help F3=End/Cancel
```

*File-tailored
KCIJPCFG
via
PARMGEN –
reuse data
from JobGen
repository*

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```

KCIPLB1 ---- SET-UP PARMLIB WORK ENVIRONMENT PARAMETERS (1 OF 2) -----
COMMAND ==> _

Enter parameter values appropriate for your environment:

GBL_INST_HILEV: _____
                High-Level Qualifier (HLQ) of INSTLIB/INSTJOBS datasets
GBL_TARGET_HILEV: TSTEST.ITM62351_____
                HLQ of SMP/E target (TK*) libraries
GBL_SYSDA_UNIT:  SYSDA____
                Non-VSAM disk UNIT (global work datasets)
RTE_HILEV:       TSTEST.CCAPI_____
                Non-VSAM HLO of PARMLIB work and runtime libraries
RTE_VSAM_HILEV: TSTEST.CCAPI_____
                VSAM HLO of the runtime (RK*) libraries
RTE_NAME:       TESTSYSA_____
                Runtime environment (RTE) name for this LPAR
CSI_DSN:       TSTEST.ITM62351.CSI_____
                DSNAME of the SMP/E global CSI for this RTE
TARGET_ZONE:   CANTZ1____
                Name of the SMP/E target zone for this RTE

Enter=Next  F1=Help  F3=End/Cancel

```


Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB2 ---- SET-UP PARMLIB WORK ENVIRONMENT PARAMETERS (2 OF 2) ----  
COMMAND ==>
```

Enter parameter values appropriate for your environment:

Note: If using NONSMS-managed RTE_HILEV and RTE_VSAM_HILEV HLQs, then the RTE_SMS_VOLUME, RTE_SMS_VSAM_VOLUME and RTE_SMS_UNIT values are required.

```
RTE_SMS_PDSE_FLAG:      Y          (PDSE flag (Y, N))  
  
RTE_SMS_UNIT:          _____ (Non-VSAM disk UNIT type)  
RTE_SMS_VOLUME:       _____ (Non-VSAM disk VOLSER)  
RTE_SMS_MGMTCLAS:     _____ (Non-VSAM disk MGMTCLAS)  
RTE_SMS_STORCLAS:     _____ (Non-VSAM disk STORCLAS)  
  
RTE_SMS_VSAM_VOLUME:  _____ (VSAM disk VOLSER)  
RTE_SMS_VSAM_MGMTCLAS: _____ (VSAM disk MGMTCLAS)  
RTE_SMS_VSAM_STORCLAS: _____ (VSAM disk STORCLAS)
```

Enter=Next F1=Help F3=End/Cancel

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB3 ----- DISPLAY PARMLIB ENVIRONMENT ANALYSIS - Row 1 to 12 of 12
COMMAND ==> _

Review message traffic before proceeding.
KCIRJG02 - I Starting 20 Nov 2011 17:23:35
KCIRJG02 - I Extracting information from:
KCIRJG02 - I      CSI - TSTEST.ITM62351.CSI
KCIRJG02 - I      TZONE - CANTZ1
KCIRJG02 - I End of EXEC, RC = 0

-----
Active FMIDs installed in target zone CANTZ1: 43
HABR320 HAB0320 HAES230 HAKD240 HARH240 HCKM240 HFRZ110 HKCF701 HKCI310 HKC5510
HKDB51X HKDB510 HKD0181 HKDS623 HKD4711 HKET620 HKGW510 HKHL410 HKI5420 HKLV623
HKMC701 HKMQ701 HKMV310 HKM5510 HKN3420 HKOB700 HKQI701 HKRG240 HKRH240 HKRJ320
HKRK320 HKRN240 HKRS110 HKRV230 HKRW220 HKSB620 HKS3420 HKT1710 HKW0310 HKYN710
HPMZ410 HTAP220 JKW0420
Enter=Next  F1=Help  F3=Back  F7=Up  F8=Down
```

**Products
installed and
available for
configuration**

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB4 ----- EXCLUDE PRODUCTS FROM PARMGEN CUSTOMIZATIO Row 1 to 15 of 25
COMMAND ==>
```

Select (X) products to EXCLUDE from PARMGEN customization.

When finished, change "N" to "Y" to confirm selections. Confirm ==> Y (Y, N)

Kpp	Product Name/Version
X	KAH IBM Tivoli System Automation for z/OS V330
	KC5 IBM Tivoli OMEGAMON XE for CICS on z/OS V420
X	KD0 IBM Tivoli Decision Support for z/OS V181
	KDS Tivoli Enterprise Monitoring Server V623
X	KD4 IBM Tivoli Composite Application Manager for SOA
X	KD5 IBM Tivoli OMEGAMON XE for DB2 PE/PM V510
	KGW IBM Tivoli OMEGAMON XE for CICS TG on z/OS V420
X	KHL IBM OMEGAMON z/OS Management Console V410
X	KI5 IBM Tivoli OMEGAMON XE for IMS on z/OS V420
X	KMC IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Configuration V701
X	KMQ IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Monitoring V701
	KM5 IBM Tivoli OMEGAMON XE on z/OS V420

Exclude products that will not be configured in new TESTSYSA RTE – first time set-up only!

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```

ISREDDE2 STEST.CCAPI.PARMGEN.JCL (KCIJPCFG) - 01.00      Columns 00001 00070
Command ==> SUBMIT                                     Scroll ==> CSR
***** ***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
000003 //** RTE_NAME=TESTSYSA
000004 //** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%
000005 //* *****
000006 //* Member: KCIJPCFG
000007 //* Master Source:
000008 //*   &thilev.TKANSAM(KCIJPCFG) - IBM Default Copy
000009 //*   &rte_plib_hilev.&rte_name.WCONFIG(KCIJPCFG) - Customer Copy
000010 //*
000011 //* PURPOSE:  Set up the PARMLIB work libraries and configuration
000012 //*             elements for this runtime environment (RTE).
000013 //*
000014 //* BEGIN - INSTRUCTIONS:
000015 //* There are 2 methods to set-up the PARMLIB KCIJPCFG job:
000016 //* - Method #1: Execute Parameter Generator User Interface (PARMGEN)
000017 //* - Method #2: Edit KCIJPCFG directly
000018 //*
000019 //* If you are using Method #1 (PARMGEN), then proceed to

```

*File-tailored
KCIJPCFG
via
PARMGEN
Phase 1*



PARMGEN RTE Life Cycle:

Step 2. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles.



Step 2. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles

```

ISRUDSLO Data Sets Matching TSTEST.CCAPI.TESTSYSA
Command ==>

Command - Enter "/" to select action
-----
TSTEST.CCAPI.TESTSYSA.IKANCMDU
TSTEST.CCAPI.TESTSYSA.IKANPARU
TSTEST.CCAPI.TESTSYSA.IKANSAMU
TSTEST.CCAPI.TESTSYSA.IKD2PAR
TSTEST.CCAPI.TESTSYSA.IKD2PRF
TSTEST.CCAPI.TESTSYSA.IKD2SAM
EDIT TSTEST.CCAPI.TESTSYSA.WCONFIG
TSTEST.CCAPI.TESTSYSA.WINSTLOG
TSTEST.CCAPI.TESTSYSA.WKANCMDU
TSTEST.CCAPI.TESTSYSA.WKANPARU
TSTEST.CCAPI.TESTSYSA.WKANSAMU
TSTEST.CCAPI.TESTSYSA.WKD2PAR
TSTEST.CCAPI.TESTSYSA.WKD2PRF
TSTEST.CCAPI.TESTSYSA.WKD2SAM
***** End of Data Set list *****

```

PARMGEN work libraries allocated by KCIJPCFG job. Edit the WCONFIG library.

Step 2. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles

```

ISREDDE2 TSTEST.CCAPI.TESTSYS.WCONFIG(KCIJPUP1) - 01.00 Columns 00001 00072
Command ==> SUBMIT Scroll ==> CSR
***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN-DAY', CLASS=A,
000002 // MSGCLASS=X, MSGLEVEL=(1,1), NOTIFY=&SYSUID., REGION=0M
000003 /*** RTE_NAME=TESTSYS
000004 /*** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPUP1
000005 /*** *****
000006 /*** Member: KCIJPUP1
000007 /*** Master Source: TSTEST.ITM62351.TKANSAM(KCIJPUP1)
000008 /*** KCIJPCFG Batch Job Output:
000009 /*** IBM Default Copy:
000010 /*** TSTEST.ITM62351.TKANSAM(KCIJPUP1)
000011 /*** Customer Copy:
000012 /*** TSTEST.CCAPI.TESTSYS.WCONFIG(KCIJPUP1)
000013 /***
000014 /*** PURPOSE: 1. Populate/Update the IK* interim staging libraries with
000015 /*** product-specific PARMLIB samples and elements packaged
000016 /*** in the composite KppCMDLB/KppPRMLB master IEBUPDTE
000017 /*** members from the SMP/E target libraries.
000018 /*** 2. Prepare applicable PARMLIB elements dynamically
000019 /*** [KCIJP* jobs, PARMGEN configuration profiles, and

```

KCIJPUP1
creates the
initial
PARMGEN
profiles



PARMGEN RTE Life Cycle:

Step 3. KCIJPCNV Job: Convert an ICAT RTE Batch member. (Conditional)



N/A for TESTSYSA new PARMGEN RTE





PARMGEN RTE Life Cycle:

Step 4. Customize PARMGEN configuration profiles (RTE_NAME and \$GBL\$USR).



Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSA) and \$GBL\$USR in WCONFIG)

(Required) * Customize the TESTSYSA RTE LPAR profile:

1. TESTSYSA RTE LPAR CONFIG profile in WCONFIG

(Conditional) * Select option 2 and/or 3 if applicable to this RTE:

2. \$GBL\$USR Global parameters CONFIG profile in WCONFIG
(Required if this is not an ICAI-to-PARMGEN conversion)
3. TESTSYSA System Variables CONFIG profile in GBL_USER_JCL
(TSTEST.CCAPI.PARMGEN.JCL)
(Required if using user-defined symbols or overriding system symbols' resolved values)

*Note: The PARMGEN configuration profiles above are preserved (initially created by KCIJPUP1 job).

(Reference) IBM-supplied default profiles (refreshed by KCIJPUP1 job):

4. \$SCFG\$IBM IBM default RTE LPAR CONFIG profile in WCONFIG
5. \$GBL\$IBM IBM default Global parameters CONFIG profile in WCONFIG
6. \$SYSIN \$PARSE/\$PARSESV SYSIN controls for processing which:
 - CONFIG profiles (CONFIG MEMBER=&config_profile)
 - runtime members (SELECT MEMBER=(*,&mbri,&mbri2??))
 to (re)create from PARMGEN IK*-to-WK* output libraries

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSA) and \$GBL\$USR in WCONFIG)

```

ISREDDE2 STEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 00001 00072
Command = -TSO KCIRPLBS_
000359 ** Runtime environment settings.
000360 ** Specify the name of the RTE in the RTE_NAME parameter if this RTE
000361 ** is not enabled for System Variables (RTE_SYSV_SYSVAR_FLAG=N).
000362 RTE_NAME                TESTSYSA
000363
000364 RTE_DESCRIPTION          "TESTSYSA LPAR"
000365
000366 ** Type of RTE:
000367 ** There are three types of RTEs:
000368 ** FULL      - Allocates Image-specific and Base libraries.
000369 ** SHARING   - Allocates Image-specific libraries and shares Base
000370 **            libraries with another RTE or SMP/E target libraries.
000371 ** BASE      - Allocates Base libraries only and is not configurable.
000372 **            It may be shared by multiple (type=sharing) RTEs with the
000373 **            same product mix.
000374 RTE_TYPE                FULL          * FULL, SHARING or BASE *
000375
000376 ** RTE global defaults:
000377 ** RTE high-level qualifier of the following PARMGEN set-up libraries:
000378 ** - PARMLIB WCONFIG control library (WCONFIG)

```

PARMGEN on-line parameter help set-up macro

**or → TSO EX
'&thilev.TKANCUS
(KCIRPLBS)'**

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 00001 00072
Command ==>                                     Scroll ==> CSR
000359 ** Runtime environment (RTE) settings:
000360 ** Specify the name of the RTE in the RTE_NAME parameter
000361 ** is not enabled for System Variables (RTE_SYSVLSYS)
000362 RTE_NAME                                TEST&SYSNAME.
000363
000364 RTE_DESCRIPTION                          "TESTSYSA LPAR"
000365
000366 ** Type of RTE:
000367 ** There are three types of RTEs:
000368 ** FULL      - Allocates Image-specific and Base libraries.
000369 ** SHARING   - Allocates Image-specific libraries and shares Base
000370 **             libraries with another RTE or SMP/E target libraries.
000371 ** BASE      - Allocates Base libraries only and is not configurable.
000372 **             It may be shared by multiple (type=sharing) RTEs with the
000373 **             same product mix.
000374 RTE_TYPE                                SHARING
000375

```

Change from "TESTSYSA" to "TEST&SYSNAME." to create sharable procs. This is the SYS= parameter in the STC PROC statement

Change from "FULL" to "SHARING"

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 00001 00072
Command ==>                                     Scroll ==> CSR
000394 ** Required if RTE_TYPE is SHARING:
000395 ** Specify the Non-VSAM HLQ in the "RTE_X_HILEV_SHARING" of the
000396 ** RTE being shared to by TESTSYSA RTE.
000397 ** For RTE_SHARE parameter, specify "SMP" value if this RTE is sharing
000398 ** with SMP/E target libraries.
000399 ** Otherwise, specify the name of the shared-to RTE in the "RTE_SHARE"
000400 ** parameter if this RTE is not enabled for System Variables
000401 ** (RTE_SYSV_SYSVAR_FLAG=N). If RTE_SYSV_SYSVAR_FLAG=Y, then specify
000402 ** the name of the shared-to RTE that may contain the shared-to RTE.
000403 ** RTE_SYSV_SHARE parameter.
000404 RTE_X_HILEV_SHARING      "TSTEST"
000405 RTE_SHARE                 "BASE&SYSALVL."

```

Specify HLQ value for "RTE_X_HILEV_SHARING"

Specify value as "BASE&SYSALVL."

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 00
Command ==>                                     Scroll
000329 ** Specify "Y" if you are using symbolics as parameter values.
000330 RTE_SYSV_SYSVAR_FLAG      Y
000331

```

Change from "N" to "Y"

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```
ISREDDE2 TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) -
Command ==> C TESTSYSA:CMS TEST&SYSNAME.:CMS ALL
==CHG> RTE_TEMS_NAME_NODEID "TEST&SYSNAME.:CMS"
000485
```

*Change all *_NODEID*

```
ISREDDE2 TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA)
Comm ==>
000505 ** VTAM SNA values:
000508 RTE_VTAM_NETID IBMNETID
000509 RTE_VTAM_LU62_DLOGMOD CANCTDCS
000510 RTE_VTAM_LU62_MODETAB KDSMTAB1
000511 RTE_VTAM_GBL_MAJOR_NODE KCANDLE1
000512 RTE_VTAM_APPLID_MODEL Y
000513
000514 ** TCP/IP communications values:
000515 RTE_TCP_HOST "SYSA"
000516 RTE_TCP_STC "*"
000517 RTE_TCP_PORT_NUM 1918
```

*Autodiscovered value!
Keep all _VTAM_NETID parm
values generic by
changing to
"&SYSVTAMNETID."*

*Autodiscovered value!
Keep all _TCP_HOST parm.
values generic by
changing to
"&SYSIPHOSTNAME."*

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 00001 00072
Command ==>                                     Scroll ==> CSR
000519 ** (Optional) If any products to be configured in this RTE require
000520 ** Unix System Services (USS) directories created, specify the main RTE
000521 ** HFS/zFS USS directory (#rtedir):
000522 ** Note: This is also required if you are enabling the Self-describing
000523 ** Agent (SDA) functionality in the z/OS TEMS and Agents:
000524 ** Related PARMLIB CONFIG profile parameters (for SDA):
000525 **      - GBL_HFS_JAVA_DIRn
000526 **      - GBL_DSN_SYS1_SBPXEXEC
000527 **      - RTE_USS_RTEDIR
000528 **      - KDS_KMS_SDA
000529 **      - KDS_TEMA_SDA
000530 **      - Kpp AGT TEMA SDA (per Kpp Agent exploiting SE
000531 RTE_USS_RTEDIR                                "&RTE_USS_RTEDIR."

```

Example of a user-defined Symbolic. Define what "&RTE_USS_RTEDIR." resolves to in GBL_USER_JCL(TESTSYSA)

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Columns 000
Command ==>                                     Scroll =
000848 ** Enable TEMS Self-Description Agent (SDA) processing:
000849 ** This is required if you are enabling the Self-describing
000850 ** Agent (SDA) functionality in the z/OS TEMS and Agents:
000851 ** Note: By default, the KMS_SDA KDSENV parameter is:
000852 ** - initially disabled @ the Hub TEMS (KMS_SDA=N)
000853 ** - initially enabled @ the Remote TEMS (KMS_SDA=Y)
000854 ** Customize the parameter accordingly by uncommenting out the
000855 ** parameter and specifying the applicable value.
000856 ** Related PARMLIB CONFIG profile parameters:
000857 **     - GBL_HFS_JAVA_DIRn
000858 **     - GBL_DSN_SYS1_SBPXEXEC
000859 **     - RTE_USS_RTEDIR
000860 **     - KDS_KMS_SDA
000861 **     - KDS_TEMA_SDA
000862 **     - Kpp AGT TEMA SDA (per Kpp Agent exp
000863 KDS KMS SDA "Y"
000864
000865 ** Agent Self-Description processing in TEMS:
000866 ** Note: By default, the TEMA_SDA KDSENV parameter is:
000867 ** - initially enabled @ the TEMS (TEMA_SDA=Y)

```

Enable KDS_KMS_SDA at the Remote TEMS by uncommenting out the parameter

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA)
Command ==> XF KDEB_INTERFACELIST_
***** ***** Top of Data *****
- - - - -
000708 **          KDS_TEMS_TCP_KDEB_INTERFACELIST and
- - - - -
000710 **KDS_TEMS_TCP_KDEB_INTERFACELIST  "!*"
- - - - -
001169 **KC5_AGT_TCP_KDEB_INTERFACELIST  "!*"
- - - - -
001360 **KGW_AGT_TCP_KDEB_INTERFACELIST  "!*"
- - - - -
***** ***** Bottom of Data *****

```

Clearer parameter Names!
Uncomment the parameters to enable for TEMS and Agents

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Colum
Command ==> C '!*' '&KDEB_INTERFACELIST.' ALL_ Sc
***** ***** Top of Data *****
- - - - - 707 Line(s)
000708 **          KDS_TEMS_TCP_KDEB_INTERFACELIST and set its valu
- - - - - 1 Line(s)
000710 KDS_TEMS_TCP_KDEB_INTERFACELIST  "&KDEB_INTERFACELIST."
- - - - - 458 Line(s)
001169 KC5_AGT_TCP_KDEB_INTERFACELIST  "&KDEB_INTERFACELIST."
- - - - - 190 Line(s)
001360 KGW_AGT_TCP_KDEB_INTERFACELIST  "&KDEB_INTERFACELIST."
- - - - - 346 Line(s)
***** ***** Bottom of Data *****

```

Keep the parm. values generic by specifying "&KDEB_INTERFACELIST."

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

EDIT      TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.01 Columns 00001 00072
Command ==> _                               Scroll ==> CSR
000828 ** If the TEMS is a Remote, specify its Hub values accordingly:
000829 ** Note: The KDS_HUB_* values populate the xKANPARU(KDCSSITE) member
000830 **      that Remote TEMS reads to know how to connect to its Hub.
000831 KDS_HUB_TEMS_NAME_NODEID      "&KDS_HUB_TEMS_NAME_NODEID."
000832
000833 ** If the TEMS is a Remote and requires VTAM SNA support:
000834 KDS_HUB_VTAM_APPL_GLB_BROKER   "&KDS_HUB_VTAM_APPL_GLB_BROKER."
000835 KDS_HUB_VTAM_NETID           "&KDS_HUB_VTAM_NETID."
000836
000837 ** If the TEMS is a Remote and requires TCP/IP support:
000838 KDS_HUB_TCP_HOST              "&KDS_HUB_TCP_HOST."
000839
000840 ** If the TEMS is a Remote, specify port numbers of its Hub.
000841 KDS_HUB_TCP_PIPE_PORT_NUM     "&KDS_HUB_TCP_PIPE_PORT_NUM."
000842 KDS_HUB_TCP_UDP_PORT_NUM     "&KDS_HUB_TCP_UDP_PORT_NUM."

```

Keep KDS_HUB_ parm. values generic by specifying user-defined symbolics*

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) -
Command ==>
000908 ** Additional TEMS settings:
000909 ** xKANPARU(KDSSYSIN) runtime member settings:
000909 KDS X TEMS_STORAGE_RESERVE_PRI      4096
000910 KDS X TEMS_WTO                        N
000911 KDS X TEMS_CONFIRM_SHUTDOWN         0
000912 KDS X TEMS_LGSA_VERIFY              Y
000913 KDS X TEMS_TASKS_ATTACHED_NUM       1
000914 KDS X TEMS_LSRPOOL_BUFSIZE1        32768
000915 KDS X TEMS_LSRPOOL_BUFSIZE2        8192
000916 KDS X TEMS_LSRPOOL_BUFSIZE3        4096
000917 KDS X TEMS_LSRPOOL_BUFSIZE4        1024
000918 KDS X TEMS_LSRPOOL_BUFFER_NUM1      12
000919 KDS X TEMS_LSRPOOL_BUFFER_NUM2      21
000920 KDS X TEMS_LSRPOOL_BUFFER_NUM3      400
000921 KDS X TEMS_LSRPOOL_BUFFER_NUM4      6
000922 KDS X TEMS_LSRSTRNO_CONCURRENT      255
000923 KDS X TEMS_FRAME_STACK_SIZE         1025
000924 KDS X TEMS_LOGBLOCK_RKLVLOG_SIZE    12480
000925 KDS X TEMS_LOGBUFS_RKLVLOG_BUFSZ    5
000926 KDS X TEMS_SDUMP_SVC_SYS1_DUMP      Y

```

Popular parameters externalized in PARMGEN not avail. In ICAT. Similar customizable Kpp_X parms. are available in all products.

Step 4. Customize PARMGEN configuration profiles (TESTSYSA RTE LPAR profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA) - 01.00 Colu
Command ==>
000928 KDS X TEMS_DEBUG_TRACE N
000929 KDS X TEMS_STORAGE_STGDEBUG N
000929 ** xKANPARU(KDSINNAM) runtime member settings:
000930 KDS X SECURITY_USER_EXIT ""
000931 KDS X SECURITY_RESOURCE_CLASS ""
000932 ** xKANPARU KppENV common Agent runtime member settings:
000933 KAG X KDE_TRANSPORT_HTTP_OPTIONS ""
000934 KAG X KDE_TRANSPORT_POOL_OPTIONS ""
000935 KAG X KDE_TRANSPORT_OPTIONS ""
000936 ** xKANPARU(KDSENV) TEMS runtime member settings:
000937 KDS X KDE_TRANSPORT_HTTP_OPTIONS ""
000938 KDS X KDE_TRANSPORT_POOL_OPTIONS ""
000939 KDS X KDE_TRANSPORT_OPTIONS ""
000940 KDS X HUB_BKUP1_TCP_HOST ""
000941 KDS X HUB_BKUP1_TEMS_VTAM_NETID ""
000942 KDS X HUB_BKUP1_VTAM_APPL_GLBKRB ""
000943 KDS X KDCFC_RXLIMIT 8192
000944 ** xKANSAMU TEMS and Agent started task settings:
000945 KDS X STC_SYSTCPD_INCLUDE_FLAG N
000946 KAG X STC_SYSTCPD_INCLUDE_FLAG N

```

Popular parameters externalized in PARMGEN not avail. In ICAT. Similar customizable Kpp_X parms. are available in all products.

Step 4. Customize PARMGEN configuration profiles (\$GBL\$USR global profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG($GBL$USR) - 01 01 C
Command ==>
000066  ** Sysplex name:
000066  GBL_SYSPLEX_NAME          &SYSPLEX.
000067
000068  ** Common system libraries (if applicable):
000069  ** Health Check configuration values for HZSPRMCI and
000070  ** HCK1%RTE_JCL_SUFFIX% xKANPARU members:
000071  GBL_DSN_HZSPROC_LOADLIB    "TSTEST.SYS1.LOAD"
000072
000073  ** (Required) GBL_DSN_SYS1_* system libraries:
000074  GBL_DSN_SYS1_PARMLIB       "TSTEST.SYS1.PARMLIB"
000075  GBL_DSN_SYS1_PROCLIB       "TSTEST.SYS1.PROCLIB"
000076  GBL_DSN_SYS1_SAXREXEC      "TSTEST.SYS1.SAXREXEC"
000077  GBL_DSN_SYS1_VTAMLIB       "TSTEST.SYS1.VTAMLIB"
000078  GBL_DSN_SYS1_VTAMLST       "TSTEST.SYS1.VTAMLST"

```

Autodiscovered value!
Keep the parm. value generic
by changing to static symbol
"&SYSPLEX."

Some of these global
values are values you
customized during
KCIJPCFG set-up and/or
values harvested from
JOBGEN repository.
Customize further by
uncommenting out the
parameters and specify
the system library used
in the LPAR.

Step 4. Customize PARMGEN configuration profiles (\$GBL\$USR global profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG($GBL$USR) - 01.01 Column Sc
Command ==>
000103 **** GBL_DSN_CICS_* CICS system libraries:
000103 **** Note: For OMEGAMON XE for CICS TG (if configured)
000104 GBL_DSN_CICS_CTG_DLL          "CTG.V8ROM0.SCTGDLL"
000105
000106 **** GBL_DSN_NETVIEW_* NetView system libraries:
000107 **** Note: This is required if you are enabling the ITM F
000108 ****      Take Action commands to NetView for z/OS.
000109 ****      Related PARMLIB CONFIG profile parameters:
000110 ****      - *_PPI_RECEIVER and *_PPI_SENDER
000111 ****      This library is concatenated in the TEMS and Agent STCs
000112 ****      RKANMODL_DD:
000113 **GBL_DSN_NETVIEW_CNMLINK      "NETVIEW.VNRNMN.CNMLINK"
000114
000115 **** GBL_DSN_CSF_* ICSF system libraries:
000116 **** Note: This is required if you are enabling the ITM Password
000117 ****      Encryption (KAES256) across the ITM enterprise:
000118 ****      This library is concatenated in the TEMS STC's STEPLIB DD:
000119 ****      Related PARMLIB CONFIG profile parameters:
000119 ****      - KDS_TEMS_SECURITY_KAES256_ENCKEY
000120 GBL_DSN_CSF_SCSFMODE0          "CSF.SCSFMODE0"

```

In ICAT, a number of these parameters are product-specific so if more than one component needs the same value, the DSNAME is specified more than once. In PARMGEN, they were consolidated in the new \$GBL profiles.*

Step 4. Customize PARMGEN configuration profiles (\$GBL\$USR global profile)

```

ISREDDE2  TSTEST.CCAPI.TESTSYSA.WCONFIG($GBL$USR) - 01.01 Columns 00001 00072
Command ==>                                     Scroll ==> CSR
000123 **** Java home directory name:
000124 **** Note: This is required if you are enabling the Self-describing
000125 ****       Agent (SDA) functionality in the z/OS TEMS and Agents:
000126 ****       "GBL_HFS_JAVA_DIRn" value becomes part of the
000127 ****       TEMS_JAVA_BINPATH parameter in the RKANDATV(KDSDPROF) member
000128 ****       that is created by the WKANSAMU(KCIJPUSP) USS preparation
000129 ****       job.  "/bin" is added to the "GBL_HFS_JAVA_DIRn" Java home
000130 ****       directory_value_programmatically.
000131 ****       Related PARMLIB CONFIG profile parameters:
000132 ****       - GBL_DSN_SYS1_SBPXEXEC
000133 ****       - RTE_USS_RTEDIR
000134 ****       - KDS_KMS_SDA
000135 ****       - KDS_TEMA_SDA
000136 ****       - Kpp_AGT_TEMA_SDA
000137 GBL_HFS_JAVA_DIR1                               /Java/J6.0

```

**Part of the SDA enablement.
See "Related PARMLIB
CONFIG profile parameters"
in the comments.**

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSA) in GBL_USER_JCL)

(Required) * Customize the TESTSYSA RTE LPAR profile:

1. **TESTSYSA** RTE LPAR CONFIG profile in WCONFIG

(Conditional) * Select option 2 and/or 3 if applicable to this RTE:

2. **\$GBL\$USR** Global parameters CONFIG profile in WCONFIG
(Required if this is not an ICAT-to-PARMGEN conversion)
3. **TESTSYSA** System Variables CONFIG profile in GBL_USER_JCL
(TSTEST.CCAPI.PARMGEN.JCL)
(Required if using user-defined symbols or overriding system symbols' resolved values)

*Note: The PARMGEN configuration profiles above are preserved (initially created by KCIJPUP1 job).

(Reference) IBM-supplied default profiles (refreshed by KCIJPUP1 job):

4. **\$CFG\$IBM** IBM default RTE LPAR CONFIG profile in WCONFIG
5. **\$GBL\$IBM** IBM default Global parameters CONFIG profile in WCONFIG
6. **\$SYSIN** \$PARSE/\$PARSESV SYSIN controls for processing which:
 - CONFIG profiles (CONFIG MEMBER=&config_profile)
 - runtime members (SELECT MEMBER=(*,&mb1,&mb2??))
 to (re)create from PARMGEN IK*-to-WK* output libraries.

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSA) in GBL_USER_JCL)

```

ISREDDE2      TSTEST.CCAPI.PARMGEN.JCL (TESTSYSA)
Command ==>                                     Scroll ==> CSR
*****
000067 * SECTION: PRE-DEFINED / USER-DEFINED SYMBOLICS          *
*****
000069 * ----- BEGIN - USER SECTION: PRE-DEFINED SYMBOLICS ----- *
000070 * =====
000071 * User-defined symbolic:                                     Resolved value:
000072 * =====
000073 * "Enable secondary TEMS" - Agent's CT_CMSLIST backup TEMS if
000074 * primary TEMS is down
000075 AGT_TEMS_BKUP1_NAME_NODEID          PLB1SP22:CMS
000076 AGT_TEMS_BKUP1_TCP_HOST             SP22
000077 AGT_TEMS_BKUP1_VTAM_LU62_DLOGMOD    CANCTDCS
000078 AGT_TEMS_BKUP1_VTAM_APPL_LLB_BKR    TS1DSL
000079 AGT_TEMS_BKUP1_VTAM_NETID           USCAC001
000080 * ----- END - USER SECTION: PRE-DEFINED SYMBOLICS -----

```

Ready for use as
the user-defined
symbolic values in
Agent's
Kpp_TEMS_BKUP1_*
LPAR profile
parameters if
secondary TEMS
feature will be
enabled

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSA) in GBL_USER_JCL)

```

ISREDDE2      TSTEST.CCAPI.PARMGEN.JCL (TESTSYSA)
Command ==>                                     Scroll ==> CSR
000081 * ---- BEGIN - USER SECTION: USER-DEFINED SYMBOLICS -- *
000082 * =====
000083 * User-defined symbolic:                               Resolved value:
000084 * =====
000086 RTE_USS_RTEDIR                                     /tstest
000087 KDEB_INTERFACELIST                               !*
000088 SDA_CICS_FLAG                                     N
000089 KDS_HUB_TEMS_NAME_NODEID                          "PLB1SP22:CMS"
000090 KDS_HUB_VTAM_APPL_GLB_BROKER                     TS1DSLB
000091 KDS_HUB_VTAM_NETID                                 USCACO01
000092 KDS_HUB_TCP_HOST                                  SP22
000093 KDS_HUB_TCP_PIPE_PORT_NUM                          1918
000094 KDS_HUB_TCP_UDP_PORT_NUM                          1918
***** ***** Bottom of Data *****

```

Define resolution values of the user-defined symbols used in WCONFIG(TESTSYSA). You control one member when these values change.

Step 4. Customize PARMGEN configuration profiles (Kpp\$* WCONFIG override imbeds)

```

EDIT          TSTEST.CCAPI.TESTSYSA.WCONFIG(KDS$PENV)
Command ==>                                     Scroll ==> CSR
000017 * Instructions:
000018 *   Add your TEMS override(s) below, if any.
000019 *   They will be imbedded in the TEMS' WKANPARU(KDSENV) environmental
000020 *   member.
000021 * *****
000022 * USER SECTION: OVERRIDE FOR MEMBER @SYSSTEPNAME@(@SYSMEMBER@)
000023 * *****
000024 * ----- BEGIN - USER SECTION: OVERRIDE ----- *
000025 KGL_COMMAND_AUTHOR_SECURITY_REQUIRED=Y
000026 EIB_FLUSH_TIMER=120
000027 KDS_NCSLISTEN=256
000028 KGL_GMMSTORE=100
000029 MSG_MODE=RMS
000030 KDE_ALLOWNETIDMISMATCH=1
000031 IRA_AUTONOMOUS_MODE=N
000032 IRA_DEBUG_AUTONOMOUS=Y
000033 IRA_EVENT_EXPORT_EIF=Y
000034 IRA_EVENT_EXPORT_SNMP_TRAP=Y
000035 IRA_EVENT_EXPORT_SNMP_TRAP_CONFIG=KM5TRAPS.R
000036 KM5ZIIPOFFLOAD=NO
000037 CTIRA_HEARTBEAT=600
000038 CTIRA_RECONNECTWAIT=10
000039 CTIRA_PRIMARY_FALLBACK_INTERVAL=30

```

WCONFIG(Kpp\$*) members are preserved. Add your special overrides/add-on parms. & they get appended at the end of ***WKANPARU(KDSENV)*** in this example. All apps. have a similar WCONFIG override imbed.



PARMGEN RTE Life Cycle:

Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values.



Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values.

```

ISREDDE2 TSTEST.CCAPI.TESTSYSA.WCONFIG(KCIJPVAL) - 01.00 Co
Command -> SUBMIT
***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,RE
000003 //** RTE_NAME=TESTSYSA
000004 //** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPVAL
000005 //* *****
000006 //*
000007 //* NAME:      KCIJPVAL
000008 //*
000009 //* PURPOSE:  Validate parameter value settings in customer override
000010 //*           CONFIG profile members.
000011 //*
000012 //* NOTES:
000013 //* The VALIDATE step is invoked from 2 jobs in the WCONFIG library:
000014 //* - Standalone KCIJPVAL job
000015 //* - $PARSE "Create runtime members and jobs in WK*" job
000016 //* - $PARSESV "Create runtime members and jobs in WK*" job (if
000017 //*           System Variables is enabled in the RTE)
000018 //*
000019 //* The VALIDATE step uses the KCIRPLBV REXX program in
  
```

KCIJPVAL validates the parameter values in the different PARMGEN profiles.

Output: WCONFIG(\$VALRPT) validation report



PARMGEN RTE Life Cycle:

***Step 6. \$PARSE or \$PARSESV Job:
Create the RTE members and jobs.***



Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

```

ISREDD2 TSTEST.CCAPI.TESTSYSA.WCONFIG($PARSESV) - 01.00 Co
Command SUBMIT
***** ***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGI=0
000003 //** RTE_NAME=TESTSYSA
000004 //** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPPRV
000005 //* *****
000006 //* Member: KCIJPPRV
000007 //* Master Source: TSTEST.ITM62351.TKANSAM(KCIPRML
000008 //* KCIJPUP1 Batch Job Output:
000009 //*   IBM Default Copy:
000010 //*   TSTEST.CCAPI.TESTSYSA.IKANSAMU(KCIJPPRV)
000011 //*   Customer Copy:
000012 //*   TSTEST.CCAPI.TESTSYSA.WCONFIG($PARSESV)
000013 //* $PARSESV Batch Job Output:
000014 //*   TSTEST.CCAPI.TESTSYSA.WKANSAMU(KCIJPPRV)
000015 //* *****
000016 //*
000017 //* PURPOSE:   *** System Variables version of $PARSE job ***
000018 //*           *** For RTEs enabled for System Variables support ***
000019 //*           Process the PARMLIB samples from the interim (IK*)
  
```

\$PARSESV job creates the runtime members and jobs in the WK PARMGEN work libraries (WKANPARU, etc.) instead of the RK* production user libraries (RKANPARU, etc.)*

Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

```

EDIT          TSTEST.CCAPI.TESTSYSA.WKANPARU (KDSENV)
Col 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
====>
000065 KDS_XCFPLEXGROUP=&SYSPLEX.
000066 KDS_KOS_PLEXNAME=&SYSPLEX.
000067 KDS_KOSENQPLEX=$DEFAULT
000068 KDS_KM5_DDS=NO
000069 KM5_DXL_APPLID=TS&SYSCLONE.M2RC
000070 KM5_DXL_USERDATA=\
000071 USER=/I,LROWS=3000
000074 CT_CMSLIST=\
000075 IP_PIPE:&SYSIPHOSTNAME.:\
000076 IP_UDP:&SYSIPHOSTNAME.:\
000077 SNA:\
000078 &SYSVTAMNETID.:\
000079 TS&SYSCLONE.DSLB.\
000080 CANCTDCS.SNASOCKETS;
000083 CMS NODEID=TEST&SYSNAME.:CMS
000084 KDEB INTERFACELIST=\
000085 &KDEB INTERFACELIST.
000086 LANG=en_US.ibm-1047
000087 KMS_SDA=Y
000088 TEMA_SDA=Y
000089 TEMS_MANIFEST_PATH=\
000090 &RTE USS RTEDIR./TEST&SYSNAME./kda/support/TEMS

```

Scroll ==> CSR

**Portable runtime members!
Example of static system symbol**

Example of static system symbol

Example of KCIPARSE-extracted symbol

Example of KCIPARSE-extracted symbol

Example of static system symbol

Example of user-defined symbol

Example of user-defined & static

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Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

```

ISREDDE2    TSTEST.CCAPI.TESTSYSA.WKANSAMU (CANSDSST)
Command ==>                                     Scroll ==> CSR
000000 //*****
000020 //CANSDSST PROC RGN=OM,TIM=1440,
000021 //      SYS=TEST&SYSNAME,
000022 //      RHILEV=TSTEST.CCAPI,
000023 //      BASEHLEV=TSTEST.BASE&SYSALVL..R,
000024 //      USERCMDU=TSTEST.CCAPI.TEST&SYSNAME..RKANCMDU,
000025 //      USERPARU=TSTEST.CCAPI.TEST&SYSNAME..RKANPARU,
000026 //      USERSAMU=TSTEST.CCAPI.TEST&SYSNAME..RKANSAMU,
000027 //      SOUT=X,          LOG OUTPUT CLASS
000028 //      DOUT=X,          DEBUGGING OUTPUT CLASS
000029 //      RVHILEV=TSTEST.CCAPI,
000030 //      STARTUP=KDSSYSIN
000031 //*****
000032 //* Specify "Y" to the RTE_X_STC_INAPF_INCLUDE_FLAG parameter in
000033 //* WCONFIG(TEST&SYSNAME.) if you want the INAPF stmt generated
000034 //* as uncommented out. CANSAPF member contains
000035 //* APF-authorization commands for libraries concatenated in STC
000036 //* STEPLIB and RKANMODL DDNAMEs. Review CANSAPF and
000037 //* CANSSTRT WKANSAMU members for more information.
000038 //INAPF INCLUDE MEMBER=CANSAPF

```

Sharable STC PROCs!
Example of static system symbol

New **USERxxxx**
PROC – point to
WK* for quick
testing

CANSAPF has all the SETPROG
statements tailored to the RTE



PARMGEN RTE Life Cycle:

Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.



Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.

On SYSA LPAR:

Select option 1 to SUBMIT the full set of composite jobs in WKANSAMU.

Alternatively, select 2-12 to SUBMIT each job individually.

1. KCIJVSUB Composite master SUBMIT job
2. KCIJVALO Allocate runtime libraries
3. KCIJVL0D Load TK*->RK* runtime libraries
4. KCIJVSEC Product security
5. KCIJVUPV System Variables IEBUPDTE (Conditional)
6. KCIJVUSP USS preparation (Conditional)
7. KCIJVUSS USS system set-up (Authorization required)
8. KCIJVSYs System set-up (Authorization required)
9. KCIJVLNK ASM/Link RKANMODU modules (Conditional)
10. KCIJVCPY Backup IK*,WK* or RK* user lib. (Conditional)
11. KCIJW2R WK*->RK* deployment (Conditional)
12. KCIJPIVP Configuration verification

Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.

If you are not on SYSA LPAR:

If you want to submit the SYSA-specific WKANSAMU jobs while on a different LPAR, an alternative is to use `"/*JOBPARM SYSAFF=xxxxxxxx"` card in your WKANSAMU(KCIJV*) jobcard (where `xxxxxxxx` = LPAR system name where to execute the submitted jobs). You may even add this in your WCONFIG(\$JOB CARD) prior to submitting the WCONFIG(\$PARSES SV) job -- in such a manner, the WKANSAMU(KCIJV*) SYSA jobs that \$PARSES SV creates, will already contain the JOBPARM card.

For JES3 users, use the "`SCHENV=&schenv-name`" parameter to specify the name of the Workload Manager (WLM) scheduling environment to associate with the KCIJV* jobs.

*** JOBPARM Considerations *** Certain sites may pose JOBPARM restrictions when directing jobs to execute on production-type LPARs. Please consult with your site system programmers for more information.

Step 7. KCIJcIVP Job: Submit batch jobs to complete PARMGEN setup

TSTEST.CCAPI.TESTSYSA.WCONFIG(\$IVPRPT)

Command ==>

* THE REPORT CONTAINS THE FOLLOWING SECTIONS:

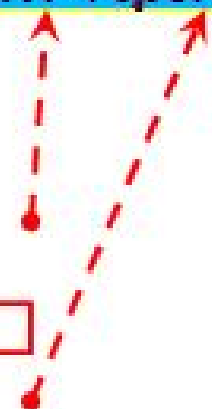
- * 1. REQUIRED CONFIGURATION BATCH JOBS
- * 2. REQUIRED SEQUENTIAL DATASETS
- * 3. REQUIRED PARTITIONED DATASETS AND MEMBERS.
- * 4. REQUIRED VSAM DATASETS

* SECTION 1: REQUIRED CONFIGURATION BATCH JOBS

JOB	STATUS	JOBNAME	JOB#	DATE	TIME	HI-CC
KCIJPCFG	OK	CCAPIPLB	J02109	11.311	07:57:01	00000
KCIJPUP1	OK	CCAPIPLB	J02113	11.311	07:57:31	00000
KCIJPCNV	OPTION					
\$PARSESV	OK	CCAPIPLB	J02151	11.326	08:15:08	00000
\$PARSECM	OPTION					
\$PARSEPR	OK	CCAPIPLB	J15061	11.326	13:13:32	00000
\$PARSESM	OPTION	CCAPIPLB	J09795	11.326	11:51:22	00004
KCIJPALD	OK	CCAPIPLB	J02186	11.326	08:25:18	00000
KCIJPLOD	ERROR	CCAPIPLB	J02187	11.326	08:34:06	SE37
KCIJPUSP	OK	CCAPIPLB	J02188	11.326	08:34:07	00000
KCIJPUSS	OK	CCAPIPLB	J02193	11.326	08:34:14	00000
KCIJPSYS	OK	CCAPIPLB	J02192	11.326	08:34:13	00000
KCIJPLNK	ERROR	CCAPIPLB	J02190	11.326	08:34:08	00012

Generated by
KCIJcIVP job

Review any
STATUS=ERROR
in the IVP report





PARMGEN RTE Life Cycle:

Step 8. Complete the post-configuration steps and start the products.



Step 8. Complete the post-configuration steps and start the products.

1. Review the PARMGEN-supplied CANSSTRT, CANSSTOP and CANSAPF members. These members have been copied from the RTE's WKANSAMU library to the GBL_DSN_SYS1_PROCLIB library as part of the KCIJcSYS job run (if submitted).

SDSF STATUS DISPLAY ALL CLASSES

COMMAND INPUT ==> /S CANSSTRT

SCROLL ==> CSR

NP	JOBNAME	JobID	Owner	Prtty	Queue	C	Pos	Saff	ASys
	CANSGW	STC10620	TSUSER	1	PRINT		108		
	CANSM2HI	STC10624	TSUSER	1	PRINT		109		
	CANSM2EZ	STC10617	TSUSER	1	PRINT		234		
	CANSOC0	STC10618	TSUSER	1	PRINT		235		
	CANSM2HD	STC10623	TSUSER	1	PRINT		236		
	CANSC20	STC10619	TSUSER	1	PRINT		237		
	CANSC5	STC10621	TSUSER	1	PRINT		239		
	CANSM2	STC10622	TSUSER	1	PRINT		240		
	CANSDSST	STC10613	TSUSER	1	PRINT		241		
	CANSM2HI	STC12499	TSUSER	1	PRINT		242		
	CANSC5	STC12496	TSUSER	1	PRINT		244		
	CANSGW	STC12498	TSUSER	1	PRINT		245		
	CANSM2	STC12497	TSUSER	1	PRINT		246		



***PARMGEN Workflow User Interface
(Phase 1) – Sample Scenario:***

***PARMGEN Scenario #2: Clone
(RTE=TESTSYSB): Clone
TESTSYSA RTE (runs on SYSA
LPAR) to run on another LPAR
(TESTSYSB RTE to run on SYSB
LPAR).***



PARMGEN Scenarios: Clone an RTE @ Phase 1



PARMGEN RTE Life Cycle: *When cloning an RTE using the PARMGEN process, there are **8 main steps** involved. The time to perform “**Customize PARMGEN configuration profiles**” step is considerably less.*

1. Set up PARMGEN work environment for an RTE.
2. **Clone customized WCONFIG members to new RTE's WCONFIG.**
3. Update interim libraries and create PARMGEN configuration profiles.
4. **Customize PARMGEN configuration profiles.**
5. Validate PARMGEN profile parameter values.
6. Create the RTE members and jobs.
7. Submit batch jobs to complete PARMGEN setup.
8. Complete the post-configuration steps and start the products.

PARMGEN Scenarios: Clone an RTE @ Phase 1



Start the PARMGEN process.

=====

Execute the PARMGEN Phase 1 code:

ISRTSO ISPF Command Shell

Enter TSO or Workstation commands below:



====> EXECUTE 'TSTEST.ITM62351.TKANCUS(KCIRPLB2)'

=====

Legend:  = *User Action (Type input, Execute cmd.)*



PARMGEN RTE Life Cycle:

Step 1. KCIJPCFG Job: Set up PARMGEN work environment for RTE=TESTSYSB.



Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB0 ----- PARAMETER GENERATOR USER INTERFACE - WELCOME -----
COMMAND ==>
```

```
Welcome to the PARMLIB configuration mode's Parameter Generator
User Interface (PARMGEN).
```

```
Specify the location of the PARMLIB global user JCL library.
GBL_USER_JCL: TSTEST.CCAPI.PARMGEN.JCL_____
```

```
Specify the PARMLIB CONFIG profile library and member. If this is an
ICAT-to-PARMLIB conversion, specify the ICAT RTE Batch member location.
```

```
TSTEST.CCAPI.TESTSYSA.WCONFIG(TESTSYSA)_____
```

```
If PARMLIB CSI parameters are to be obtained from a JOBGEN work
then enter its location.
```

```
TDITNT.JOBGEN.JCL_____
```

```
Enter Jobcard data:
```

```
==> //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN-DAY', CLASS=...
```

```
==> // MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=...
```

```
==> /*** RTE_NAME=%RTE_NAME%_____
```

```
==> /*** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%_____
```

```
Enter=Next F1=Help F3=End/Cancel
```

Specify TESTSYSA's WCONFIG values to clone the product set to configure for TESTSYSB

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```

KCIPLB1 ---- SET-UP PARMLIB WORK ENVIRONMENT PARAMETERS (1 OF 2) -----
COMMAND ==>

Enter parameter values appropriate for your environment:

GBL_INST_HILEV: _____
                High-Level Qualifier (HLQ) of INSTLIB/INSTJOBS datasets
GBL_TARGET_HILEV: TSTEST.ITM62351_____
                HLQ of SMP/E target (TK*) libraries
GBL_SYSDA_UNIT:  SYSDA____
                Non-VSAM disk UNIT (global work datasets)
RTE_HILEV:       TSTEST.CCAPI_____
                Non-VSAM HLQ of PARMLIB work and runtime libraries
RTE_VSAM_HILEV: TSTEST.CCAPI_____
                VSAM HLQ of the runtime (RK*) libraries
RTE_NAME:       TESTSYSB_____
                Runtime environment (RTE) name for this LPAR
CSI_DSN:        TSTEST.ITM62351.CSI_____
                DSNNAME of the SMP/E global CSI for this R
TARGET_ZONE:    CANTZ1____
                Name of the SMP/E target zone for this R

Enter=Next  F1=Help  F3=End/Cancel

```

**Modify
RTE_NAME
from
TESTSYSA
to
TESTSYSB**

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB2 ---- SET-UP PARMLIB WORK ENVIRONMENT PARAMETERS (2 OF 2) ----
COMMAND ==>
```

Enter parameter values appropriate for your environment:

Note: If using NONSMS-managed RTE_HILEV and RTE_VSAM_HILEV HLQs, then the RTE_SMS_VOLUME, RTE_SMS_VSAM_VOLUME and RTE_SMS_UNIT values are required.

```
RTE_SMS_PDSE_FLAG:      Y          (PDSE flag (Y, N))

RTE_SMS_UNIT:          _____ (Non-VSAM disk UNIT type)
RTE_SMS_VOLUME:        _____ (Non-VSAM disk VOLSER)
RTE_SMS_MGMTCLAS:      _____ (Non-VSAM disk MGMTCLAS)
RTE_SMS_STORCLAS:     _____ (Non-VSAM disk STORCLAS)

RTE_SMS_VSAM_VOLUME:   _____ (VSAM disk VOLSER)
RTE_SMS_VSAM_MGMTCLAS: _____ (VSAM disk MGMTCLAS)
RTE_SMS_VSAM_STORCLAS: _____ (VSAM disk STORCLAS)
```

Enter=Next F1=Help F3=End/Cancel

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB3 ----- DISPLAY PARMLIB ENVIRONMENT ANALYSIS
COMMAND ==> _
```

Review message traffic before proceeding.

```
KCIRJG02 - I Starting 21 Nov 2011 01:13:40
KCIRJG02 - I Extracting information from:
KCIRJG02 - I      CSI - TSTEST.ITM62351.CSI
KCIRJG02 - I      TZONE - CANTZ1
KCIRJG02 - I End of EXEC, RC = 0
```

Active FMIDs installed in target zone CANTZ1: 43

```
HABR320 HAB0320 HAES230 HAKD240 HARH240 HCKM240 HFRZ110 HKCF701 HKCI310 HKC5510
HKDB51X HKDB510 HKD0181 HKDS623 HKD4711 HKET620 HKGW510 HKHL410 HKI5420 HKLV623
HKMC701 HKMQ701 HKMV310 HKM5510 HKN3420 HKOB700 HKQI701 HKRG240 HKRH240 HKRJ320
HKRK320 HKRN240 HKRS110 HKRV230 HKRW220 HKSB620 HKS3420 HKT1710 HKW0310 HKYN710
HPMZ410 HTAP220 JKW0420
```

Active, installed components configured in the RTE profile TESTSYSB: 5

```
KC5 KDS KGW KM5 KOB
```

```
Enter=Next  F1=Help  F3=Back  F7=Up  F8=Down
```

**Product set
cloned from
TESTSYSA;
same will be
configured in
TESTSYSB**

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
KCIPPLB4 ----- EXCLUDE PRODUCTS FROM PARMGEN CUSTOMIZATIO Row 1 to 15 of 26
COMMAND ==>
```

Select (X) products to EXCLUDE from PARMGEN customization.

When finished, change "N" to "Y" to confirm selections. Confirm ==> Y (Y, N)

Kpp Product Name/Version (Kpp* components configured in RTE profile)

```
X ALL Exclude all not configured in RTE profile
_ KAH IBM Tivoli System Automation for z/OS V330
_ KC5* IBM Tivoli OMEGAMON XE for CICS on z/OS V420
_ KD0 IBM Tivoli Decision Support for z/OS V181
_ KDS* Tivoli Enterprise Monitoring Server V623
_ KD4 IBM Tivoli Composite Application Manager for SOA V
_ KD5 IBM Tivoli OMEGAMON XE for DB2 PE/PM V510
_ KGW* IBM Tivoli OMEGAMON XE for CICS TG on z/OS V420
_ KHL IBM OMEGAMON z/OS Management Console V410
_ KI5 IBM Tivoli OMEGAMON XE for IMS on z/OS V420
_ KMC IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Configuration V701
_ KMQ IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Monitoring V701
_ KM5* IBM Tivoli OMEGAMON XE on z/OS V420
```

Place "X" next to "ALL" if not adding more products or deleting products for the current product mix.

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```

ISREDD2  STEST.CCAPI.PARMGEN.JCL (KCIJPCFG) - 01.00      Columns 00001 00070
Command = SUBMIT                                       Scroll ==> CSR
*****  ***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
000003 //** RTE_NAME=TESTSYSB
000004 //** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%
000005 //* *****
000006 //* Member: KCIJPCFG
000007 //* Master Source:
000008 //*   &thilev.TKANSAM(KCIJPCFG) - IBM Default Copy
000009 //*   &rte_plib_hilev.&rte_name.WCONFIG(KCIJPCFG) - Customer Copy
000010 //*
000011 //* PURPOSE:  Set up the PARMLIB work libraries and configuration
000012 //*             elements for this runtime environment (RTE).
000013 //*
000014 //* BEGIN - INSTRUCTIONS:
000015 //* There are 2 methods to set-up the PARMLIB KCIJPCFG job:
000016 //* - Method #1: Execute Parameter Generator User Interface (PARMGEN)
000017 //* - Method #2: Edit KCIJPCFG directly
000018 //*
000019 //* If you are using Method #1 (PARMGEN), then proceed to

```

**File-tailored
KCIJPCFG
via
PARMGEN
Phase 1**



PARMGEN RTE Life Cycle:

Step 2. KCIJPCCF Job: Clone customized WCONFIG members to new RTE's WCONFIG.



Step 2. KCIJPCCF Job: Clone customized WCONFIG members to new RTE's WCONFIG.

```

EDIT TSTEST.CCAPI.TESTSYSB.WCONFIG(KCIJPCCF) - 01.00 C
Command -> SUBMIT
000074 /* *****
000075 /* CLONWCFG Step: %OLD_WCONFIG%-->New WCONFIG
000076 /* Copy the PARMLIB CONFIG user override members
000077 /* from %OLD_WCONFIG%
000078 /* to TSTEST.CCAPI.TESTSYSB.WCONFIG.
000079 /* *****
000080 /*CLONWCFG EXEC PGM=KCIPARSE,
000081 /*          PARM='MV=32000,MAXL=32000,MI=255,LIST=
000082 /*STEPLIB DD DISP=SHR,
000083 /*          DSN=TSTEST.ITM62351.TKANMOD
000084 /*OLDWCNFG DD DISP=SHR,
000085 /*          DSN=TSTEST.CCAPI.TESTSYSA.WCONFIG
000086 /*NEWWCNFG DD DISP=OLD,
000087 /*          DSN=TSTEST.CCAPI.TESTSYSB.WCONFIG
000088 /*SYSPRINT DD SYSOUT=*
000089 /*SYSINLST DD SYSOUT=*
000090 /*SYSIN DD *
000091 * *****

```

Save time!
Clone
TESTSYSA's
\$JOB CARD,
\$GBL\$USR,
KDS\$PENV,
etc. to
TESTSYSB's
WCONFIG.



PARMGEN RTE Life Cycle:

Step 3. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles.



Step 3. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles

```

ISREDDE TSTEST.CCAPI.TESTSYSB.WCONFIG(KCIJPUP1) - 01.00 Columns 00001 00072
Command > SUBMIT Scroll ==> CSR
***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN-DAY', CLASS=A,
000002 // MSGCLASS=X, MSGLEVEL=(1,1), NOTIFY=&SYSUID., REGION=0M
000003 //** RTE_NAME=TESTSYSB
000004 //** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPUP1
000005 //* *****
000006 //* Member: KCIJPUP1
000007 //* Master Source: TSTEST.ITM62351.TKANSAM(KCIJPUP1)
000008 //* KCIJPCFG Batch Job Output:
000009 //* IBM Default Copy:
000010 //* TSTEST.ITM62351.TKANSAM(KCIJPUP1)
000011 //* Customer Copy:
000012 //* TSTEST.CCAPI.TESTSYSB.WCONFIG(KCIJPUP1)
000013 //*
000014 //* PURPOSE: 1. Populate/Update the IK* interim staging libraries with
000015 //* product-specific PARMLIB samples and elements packaged
000016 //* in the composite KppCMDLB/KppPRMLB master IEBUPDTE
000017 //* members from the SMP/E target libraries.
000018 //* 2. Prepare applicable PARMLIB elements dynamically
000019 //* (KCIJP* jobs, PARMGEN configuration profiles, and

```

KCIJPUP1
creates the
initial
PARMGEN
profiles



PARMGEN RTE Life Cycle:

Step 4. Customize PARMGEN configuration profiles (RTE_NAME and \$GBL\$USR).



Step 4. KCIJPMCF Job: Customize PARMGEN configuration profiles (TESTSYSB RTE LPAR profile)

```

EDIT TSTEST.CCAPI.TESTSYSB.WCONFIG(KCIJPMCF) - 01.00 Col
Command > SUBMIT
000055 /* *****
000056 /* MERGECHG Step:
000057 /* Merge the changes in %OLDMEM% into %NEWMEM% member
000058 /* *****
000059 //MERGECHG EXEC PGM=IKJEFT01,DYNAMNBR=99,REGION=4M
000060 //SYSEXEC DD DISP=SHR,
000061 // DSN=TSTEST.ITM62351.TKANCUS
000062 //SYSTSPRT DD SYSOUT=*
000063 //SYSPRINT DD SYSOUT=*
000064 //SYSTSIN DD *
000065 KCIRPLBX +
000066 BATCH +
000067 [ OLDMEM (TSTEST.CCAPI.TESTSYSB.WCONFIG (TESTSYSB)) ] +
000068 [ NEWMEM (TSTEST.CCAPI.TESTSYSB.WCONFIG (TESTSYSB)) ]
000069 /*
000070 /* =====
  
```

Save time!
Merge
TESTSYSB's
LPAR profile
System
Variables
customization
to
TESTSYSB's
WCONFIG.

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSB) and \$GBL\$USR in WCONFIG))

(Required) * Customize the TESTSYSB RTE LPAR profile:

1. **TESTSYSB** RTE LPAR CONFIG profile in WCONFIG

(Conditional) * Select option 2 and/or 3 if applicable to this RTE:

2. **\$GBL\$USR** Global parameters CONFIG profile in WCONFIG
(Required if this is not an ICAT-to-PARMGEN conversion)

3. **TESTSYSB** System Variables CONFIG profile in GBL_USER_JCL
(TSTEST.CCAPI.PARMGEN.JCL)
(Required if using user-defined symbols or overriding system symbols' resolved values)

*Note: The PARMGEN configuration profiles above are preserved
(initially created by KCIJPUP1 job).

(Reference) IBM-supplied default profiles (refreshed by KCIJPUP1 job)

4. **\$CFG\$IBM** IBM default RTE LPAR CONFIG profile in WCONFIG
5. **\$GBL\$IBM** IBM default Global parameters CONFIG profile in WCONFIG
6. **\$SYSIN** \$PARSE/\$PARSESV SYSIN controls for processing which:
 - CONFIG profiles (CONFIG MEMBER=&config_profile)
 - runtime members (SELECT MEMBER=(*, &mb1, &mb2??))
 to (re)create from PARMGEN IK*-to-WK* output libraries.

Step 4. Customize PARMGEN configuration profiles (TESTSYSB RTE LPAR profile)

```

ISREDDE2 STEST.CCAPI.TESTSYSB.WCONFIG(TESTSYSB) - 01.00 Colum
Command ==> C TESTSYSA TESTSYSB ALL_ Sc
***** Top of Data *****
- - - - - 354
000355 RTE_NAMESV TESTSYSA
- - - - - 1352 Line(s)
***** Bottom of Data *****
  
```

Annotations in the image:

- A red hand icon points to the command line.
- A red hand icon points to the asterisks above the data.
- A yellow box highlights the command `C TESTSYSA TESTSYSB ALL_`.
- A yellow box highlights the parameter `RTE_NAMESV TESTSYSA`.
- A blue callout box with an arrow points to the value `TESTSYSA` in the `RTE_NAMESV` line, containing the text: **Change "RTE_NAMESV" back to "TESTSYSB"**.

After the KCIJPMCF merge CONFIG profile job, TESTSYSB RTE LPAR profile inherited all of TESTSYSA's values. Change only one reference of "TESTSYSA" to "TESTSYSB".

*****Important*** In a System Variables scenario, the only parameters that **MUST** have a non-symbolic value are "RTE_NAMESV", "RTE_HILEVSV", and "RTE_VSAM_HILEVSV" parameters as these are used directly in the WKANSAMU(KCIJV*) jobs. In the RTE_NAMESV parameter above, the value must remain "TESTSYSB":**

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSB) in GBL_USER_JCL)

(Required) * Customize the TESTSYSB RTE LPAR profile:



1. **TESTSYSB** RTE LPAR CONFIG profile in WCONFIG

(Conditional) * Select option 2 and/or 3 if applicable to this RTE:

2. **\$GBL\$USR** Global parameters CONFIG profile in WCONFIG

(Required if this is not an ICAT-to-PARMGEN conversion)



3. **TESTSYSB** System Variables CONFIG profile in GBL_USER_JCL
(TSTEST.CCAPI.PARMGEN.JCL)

(Required if using user-defined symbols or overriding
system symbols' resolved values)

*Note: The PARMGEN configuration profiles above are preserved
(initially created by KCIJPUP1 job).

(Reference) IBM-supplied default profiles (refreshed by KCIJPUP1 job)

4. **\$CFG\$IBM** IBM default RTE LPAR CONFIG profile in WCONFIG

5. **\$GBL\$IBM** IBM default Global parameters CONFIG profile in WCONFIG

6. **\$SYSIN** \$PARSE/\$PARSESV SYSIN controls for processing which:

- CONFIG profiles (CONFIG MEMBER=&config_profile)

- runtime members (SELECT MEMBER=(*, &mbri, &mbri2??))

to (re)create from PARMGEN IK*-to-WK* output libraries

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSB) in GBL_USER_JCL)

ISREDDE2 TSTEST.CCAPI.PARMGEN.JCL (TESTSYSB)

```

Command == COPY TESTSYSA Scroll ==> CSR
000066 *****
000067 * SECTION: PRE-DEFINED / USER-DEFINED SYMBOLICS *
000068 *****
000069 * ---- BEGIN - USER SECTION: PRE-DEFINED SYMBOLICS ---- *
000070 * =====
000071 * User-defined symbolic: Resolved value:
000072 * =====
000073 * "Enable secondary TEMS" - Agent's CT_CMSLIST backup
000074 * TEMS if primary TEMS is down
000075 AGT_TEMS_BKUP1_NAME_NODEID PLB1SP22:CMS
000076 AGT_TEMS_BKUP1_TCP_HOST SP22
000077 AGT_TEMS_BKUP1_VTAM_LU62_DLOGMOD CANCTD
000078 AGT_TEMS_BKUP1_VTAM_APPL_LL_BKR TS1D$
000079 AGT_TEMS_BKUP1_VTAM_NETID USCA
000080 * ---- END - USER SECTION: PRE-DEFINED
*
.
.

```

Copy the contents of TESTSYSA's System Variables member to TESTSYSB's System Variables member.

Step 4. Customize PARMGEN configuration profiles (RTE_NAME (TESTSYSB) in GBL_USER_JCL)

```

ISREDDER  TSTEST.CCAPI.PARMGEN.JCL (TESTSYSB)
Command = COPY TESTSYSA                               Scroll ==> CSR
.
.
000081 * ----- BEGIN - USER SECTION: USER-DEFINED SYMBOLICS ----- *
000082 * =====
000083 * User-defined symbolic:                               Resolved value:
000084 * =====
000086 RTE_USS_RTEDIR                                     /tstest
000087 KDEB_INTERFACELIST                               !*
000088 SDA_CICS_FLAG                                       N
000089 KDS_HUB_TEMS_NAME_NODEID                          "PLB1SP22:CMS"
000090 KDS_HUB_VTAM_APPL_GLB_BROKER                     TS1DSL B
000091 KDS_HUB_VTAM_NETID                                  USCAC001
000092 KDS_HUB_TCP_HOST                                   SP22
000093 KDS_HUB_TCP_PIPE_PORT_NUM                          1918
000094 KDS_HUB_TCP_UDP_PORT_NUM                          1918
***** ***** Bottom of Data *****

```

TESTSYSB's TEMS and Agent connections share the same values as TESTSYSA's.



PARMGEN RTE Life Cycle:

***Step 5. KCIJPVAL Job: Validate
PARMGEN profile parameter values.***



Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values.

```

ISREDDER TSTEST.CCAPI.TESTSYSB WCONFIG(KCIJPVAL) - 01.00 Co
Command ==> SUBMIT
***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,RE
000003 //** RTE_NAME=TESTSYSB
000004 //** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPVAL
000005 //* *****
000006 //*
000007 //* NAME:      KCIJPVAL
000008 //*
000009 //* PURPOSE:  Validate parameter value settings in customer override
000010 //*           CONFIG profile members.
000011 //*
000012 //* NOTES:
000013 //* The VALIDATE step is invoked from 2 jobs in the WCONFIG library:
000014 //* - Standalone KCIJPVAL job
000015 //* - $PARSE "Create runtime members and jobs in WK*" job
000016 //* - $PARSESV "Create runtime members and jobs in WK*" job (if
000017 //*           System Variables is enabled in the RTE)
000018 //*
000019 //* The VALIDATE step uses the KCIRPLBV REXX program in
  
```

KCIJPVAL validates the parameter values in the different PARMGEN profiles.

Output: WCONFIG(\$VALRPT) validation report



PARMGEN RTE Life Cycle:

Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.



Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

```

ISREDDER TSTEST.CCAPI.TESTSYSB.WCONFIG($PARSESV) - 01.00
Command => SUBMIT
***** Top of Data *****
000001 //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN-DAY', CLASS=A,
000002 // MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REASON
000003 /*** RTE_NAME=TESTSYSB
000004 /*** SYSJOBNAME=CCAPIPLB SYSMEMBER=KCIJPPRV
000005 /*** *****
000006 /*** Member: KCIJPPRV
000007 /*** Master Source: TSTEST.ITM62351.TKANSAM(KCIPRMB)
000008 /*** KCIJPUP1 Batch Job Output:
000009 /*** IBM Default Copy:
000010 /*** TSTEST.CCAPI.TESTSYSB.IKANSAMU(KCIJPPRV)
000011 /*** Customer Copy:
000012 /*** TSTEST.CCAPI.TESTSYSB.WCONFIG($PARSESV)
000013 /*** $PARSESV Batch Job Output:
000014 /*** TSTEST.CCAPI.TESTSYSB.WKANSAMU(KCIJPPRV)
000015 /*** *****
000016 /***
000017 /*** PURPOSE: *** System Variables version of $PARSE job ***
000018 /*** *** For RTEs enabled for System Variables support ***
000019 /*** Process the PARMLIB samples from the interim (IK*)
  
```

\$PARSESV job creates the runtime members and jobs in the WK PARMGEN work libraries (WKANPARU, etc.) instead of the RK* production user libraries (RKANPARU, etc.)*

Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

EDIT	TSTEST.CCAPI.TESTSYSB.WKANPARU (KDSENV)	
Col 1 ==>		Scroll ==> CSR
000065	KDS_XCFPLEXGROUP=&SYSPLEX.	← Portable runtime members! Example of static system symbol
000066	KDS_KOS_PLEXNAME=&SYSPLEX.	
000067	KDS_KOSENQPLEX=\$DEFAULT	
000068	KDS_KM5_DDS=NO	
000069	KM5_DXL_APPLID=TS&SYSCLONE.M2RC	← Example of static system symbol
000070	KM5_DXL_USERDATA=\	
000071	USER=/I,LROWS=3000	
000074	CT_CMSLIST=\	
000075	IP_PIPE:&SYSIPHOSTNAME.:\	← Example of KCIPARSE-extracted symbol
000076	IP_UDP:&SYSIPHOSTNAME.:\	
000077	SNA:\	
000078	&SYSVTAMNETID.:\	← Example of KCIPARSE-extracted symbol
000079	TS&SYSCLONE.DSLB.\ CANCTDCS.SNASOCKETS;	
000083	CMS NODEID=TEST&SYSNAME.:CMS	← Example of static system symbol
000084	KDEB INTERFACELIST=\	
000085	&KDEB INTERFACELIST.	← Example of user-defined symbol
000086	LANG=en_US.ibm-1047	
000087	KMS_SDA=Y	
000088	TEMA_SDA=Y	
000089	TEMS_MANIFEST_PATH=\	← Example of user-defined & static
000090	&RTE USS RTEDIR./TEST&SYSNAME /kda/support/TEMS	

Step 6. \$PARSE or \$PARSESV Job: Create the RTE members and jobs.

```

ISREDDE2      TSTEST.CCAPI TESTSYSB.WKANSAMU (CANSDSST)
Command ==>                                     Scroll ==> CSR
000010 //*****
000020 //CANSDSST PROC RGN=OM,TIM=1440,
000021 //      SYS=TEST&SYSNAME.,
000022 //      RHILEV=TSTEST.CCAPI,
000023 //      BASEHLEV=TSTEST.BASE&SYSALVL..R,
000024 //      USERCMDU=TSTEST.CCAPI.TEST&SYSNAME..RKANCMDU,
000025 //      USERPARU=TSTEST.CCAPI.TEST&SYSNAME..RKANPARU,
000026 //      USERSAMU=TSTEST.CCAPI.TEST&SYSNAME..RKANSAMU,
000027 //      SOUT=X,          LOG OUTPUT CLASS
000028 //      DOUT=X,          DEBUGGING OUTPUT CLASS
000029 //      RVHILEV=TSTEST.CCAPI,
000030 //      STARTUP=KDSSYSIN
000031 //*****
000032 /* Specify "Y" to the RTE_X_STC_INAPF_INCLUDE_FLAG parameter in
000033 /* WCONFIG(TEST&SYSNAME.) if you want the INAPF stmt generated
000034 /* as uncommented out. CANSAPF member contains
000035 /* APF-authorization commands for libraries concatenated in STC
000036 /* STEPLIB and RKANMODL DDNAMEs. Review CANSAPF and
000037 /* CANSSTRT WKANSAMU members for more information.
000038 //INAPF INCLUDE MEMBER=CANSAPF

```

Sharable STC PROCs!
Example of static system symbol

New **USERxxxx**
PROC – point to
WK* for quick
testing

CANSAPF has all the SETPROG
statements tailored to the RTE



PARMGEN RTE Life Cycle:

Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.



Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.

On SYSB LPAR:

Select option 1 to SUBMIT the full set of composite jobs in WKANSAMU.

Alternatively, select 2-12 to SUBMIT each job individually.

1. KCIJVSUB Composite master SUBMIT job

2. KCIJVALO Allocate runtime libraries
3. KCIJVL0D Load TK*->RK* runtime libraries
4. KCIJVSEC Product security
5. KCIJVUPV System Variables IEBUPDTE (Conditional)
6. KCIJVUSP USS preparation (Conditional)
7. KCIJVUSS USS system set-up (Authorization required)
8. KCIJVSYs System set-up (Authorization required)
9. KCIJVLNK ASM/Link RKANMODU modules (Conditional)
10. KCIJVCpy Backup IK*,WK* or RK* user lib. (Conditional)
11. KCIJW2R WK*->RK* deployment (Conditional)
12. KCIJPIVP Configuration verification

Step 7. KCIJcSUB Job: Submit batch jobs to complete PARMGEN setup.

If you are not on SYSB LPAR:

If you want to submit the SYSB-specific WKANSAMU jobs while on a different LPAR, an alternative is to use `"/*JOBPARM SYSAFF=xxxxxxxxx"` card in your WKANSAMU(KCIJV*) jobcard (where `xxxxxxxxx` = LPAR system name where to execute the submitted jobs). You may even add this in your WCONFIG(\$JOB CARD) prior to submitting the WCONFIG(\$PARSE SV) job -- in such a manner, the WKANSAMU(KCIJV*) SYSB jobs that \$PARSE SV creates, will already contain the JOBPARM card.

For JES3 users, use the "`SCHENV=&schenv-name`" parameter to specify the name of the Workload Manager (WLM) scheduling environment to associate with the KCIJV* jobs.

*** JOBPARM Considerations *** Certain sites may pose JOBPARM restrictions when directing jobs to execute on production-type LPARs. Please consult with your site system programmers for more information.



PARMGEN RTE Life Cycle:

Step 8. Complete the post-configuration steps and start the products.



Step 8. Complete the post-configuration steps and start the products.

1. Review the PARMGEN-supplied CANSSTRT, CANSSTOP and CANSAPF members. These members have been copied from the RTE's WKANSAMU library to the GBL_DSN_SYS1_PROCLIB library as part of the KCIJcSYS job run (if submitted).

SDSF STATUS DISPLAY BY ALL CLASSES

COMMAND INPUT ==> /S CANSSTRT

SCROLL ==> CSR

NP	JOBNAME	JobID	Owner	Prty	Queue	C	Pos	SAff	ASys
	CANSGW	STC10620	TSUSER	1	PRINT		108		
	CANSM2HI	STC10624	TSUSER	1	PRINT		109		
	CANSM2EZ	STC10617	TSUSER	1	PRINT		234		
	CANSOC0	STC10618	TSUSER	1	PRINT		235		
	CANSM2HD	STC10623	TSUSER	1	PRINT		236		
	CANSC20	STC10619	TSUSER	1	PRINT		237		
	CANSC5	STC10621	TSUSER	1	PRINT		239		
	CANSM2	STC10622	TSUSER	1	PRINT		240		
	CANSDSST	STC10613	TSUSER	1	PRINT		241		
	CANSM2HI	STC12499	TSUSER	1	PRINT		242		
	CANSC5	STC12496	TSUSER	1	PRINT		244		
	CANSGW	STC12498	TSUSER	1	PRINT		245		
	CANSM2	STC12497	TSUSER	1	PRINT		246		



***What's In Store for PARMGEN
Workflow (Phase 2) – Stay Tuned for
the February Webcast!***



What's Coming in Phase 2...

✓ A. PARMGEN Configuration Framework

Enhancements – User Stories supported:

- ✓ 1. PARMGEN Workflow UI - Phase 2 support: *“As a new user of the PARMGEN process, I want some sort of “wrapper” on top of the entire PARMGEN process that simplifies the workflow ETE life cycle of an RTE that can step a sysprog through doing what he needs to do out of the box.”*
- ✓ 2. Alternate RTE HLQ support: *“As the installer/configurator of RTEs in test and production LPARs, I want the flexibility in PARMGEN to allow for a **production alternate RTE RK* HLQ** that I can use to prepare the jobs that will run on the production LPAR that a system administrator can run.”*
- ✓ 3. Override local system symbols support: *“As the installer/configurator of dozens of RTEs, I want the PARMGEN process to support for more advanced System Variables deployment/transport RTE scenarios when using static system symbols and KCIPARSE-extracted symbols in my RTE names and HLQ parameters for the different RTEs but I want to complete the PARMGEN RTE set-up at the central site.”*
- ✓ 4. INAPF INCLUDE: Provide the option to use the **INAPF INCLUDE** statement in all PARMGEN-created STCs.







***Recap: PARMGEN @ Phase 1
(GA @ 2Q11) – Summary of
Steps***



PARMGEN Phase 1 today

- ✓ **Step 1.** Apply the latest PARMGEN PTF.
 - ✓ **Step 2.** Set up the PARMGEN work libraries for a runtime environment (RTE).
 - ☐ **Method 1:** Supply values for global parameters in ISPF panels (“PARMGEN”).
 - ☐ ****or** Method 2:** Edit the KCIJPCFG job directly.
 - ✓ **Step 3.** Review the WCONFIG(\$JOBINDX) job index for planning purposes.
 - ✓ **Step 4.** Submit the WCONFIG(KCIJPUP1) IEBUPDTE job to populate the IK* interim staging libraries and create default PARMGEN configuration profiles.
 - ✓ **Step 5.** Set up your PARMGEN configuration profiles (\$GBL*/LPAR-specific).
 - ✓ **Step 6.** Submit WCONFIG(\$PARSE) or WCONFIG(\$PARSESV) job to create runtime members and WKANSAMU jobs.
 - ✓ **Step 7.** Submit WKANSAMU batch jobs to complete the PARMGEN setup. Submit the composite  **KCIJcSUB** master PARMGEN auto-SUBMIT job **-or-** submit the following jobs individually: 
- c = P or V**
KCIJPSUB: non-SYSV
KCIJVSUB: SYSV mode
- ☐ KCIJcALO Allocate runtime libraries
 - ☐ KCIJcLOD Load TK*->RK* runtime libraries
 - ☐ KCIJcSEC Product security
 - ☐ KCIJcUPV System Variables IEBUPDTE (Conditional)
 - ☐ KCIJcUSP USS preparation (Conditional)
 - ☐ KCIJcUSS USS system set-up (Authorization required)
 - ☐ KCIJcSYS System set-up (Authorization required)
 - ☐ KCIJcLNK ASM/Link RKANMODU modules (Conditional)
 - ☐ KCIJcCPY Backup IK*,WK* or RK* user libs.(Conditional)
 - ☐ KCIJcW2R WK*->RK* deployment (Conditional)
 - ☐ KCIJcIVP Configuration verification
- ✓ **Step 8.** Complete the configuration and start the products.



Early look at PARMGEN UI-Phase 2

or → TSO EXECUTE
'&thilev.TKANCUS
(KCIRPLB2)' –
PARMGEN Phase1

```
KCIP@PG0 ----- PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME -----
OPTION ==>                                     SCROLL ==> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:  TSTEST.CCAPI.PARMGEN_JCL
                PARMGEN global user JCL library (CONFIG DD in STCs)
RTE_PLIB_HILEV: TSTEST.CCAPI
                High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:     PLB4SP13
                Runtime environment (RTE) name for this LPAR

Enter n (1-8) to perform tasks or display detailed status:      Status      Date
Note: Enter ns (1s-8s) for detailed task status.              -----
1. KCIJPCFG Set up PARMGEN work environment for an RTE.         RC= 00000 2011/11/17
2. $JOBINDX Review PARMGEN job index.                           Viewed    2011/11/17
3. KCIJPUP1 Update interim libraries and create profiles.       RC= 00000 2011/11/17
4. KCIJPCNV Convert an ICAT RTE Batch member. (Optional)       RC= 00000 2011/11/17
5> PLB4SP13 Customize PARMGEN configuration profiles.           Edited    2011/11/17
6. KCIJPVAL Validate PARMGEN profile parameter values.         RC= 00000 2011/11/17
7. $PARSESV Create the RTE members and jobs.                   RC= 00000 2011/11/17
8. KCIJVSUB Submit batch jobs to complete PARMGEN setup.       RC= 00000 2011/11/17
R New RTE Reset RTE, Status and Date fields. (Optional)

Enter=Next  F1=Help  F3=End/Cancel
```

Stay tuned! Feb. 2012 webcast

Early look at PARMGEN UI-Phase 2

or → TSO EXECUTE
'&thilev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase2

```
KCIP@PG0 ----- PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME -----
OPTION ==>                                     SCROLL ==> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:  TSTEST.CCAPI.PARMGEN.JCL_____
                PARMGEN global user JCL library (CONFIG DD in STCs)
RTE_PLIB_HILEV: TSTEST.CCAPI_____
                High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:     PLB4SP13
                Runtime environment (RTE) name for this LPAR

Enter n (1-8) to perform tasks or display detailed status:      Status      Date
Note: Enter ns (1s-8s) for detailed task status.              -----
1. KCIJPCFG Set up PARMGEN work environment for an RTE.        RC= 00000 2011/11/17
2. $JOBINDX Review PARMGEN job index.                          Viewed     2011/11/17
3. KCIJPUP1 Update interim libraries and create profiles.      RC= 00000 2011/11/17
4. KCIJPCNV Convert an ICAT RTE Batch member. (Optional)      RC= 00000 2011/11/17
5> PLB4SP13 Customize PARMGEN configuration profiles.          Edited     2011/11/17
6. KCIJPVAL Validate PARMGEN profile parameter values.        RC= 00000 2011/11/17
7. $PARSESV Create the RTE members and jobs.                  RC= 00000 2011/11/17
8. KCIJVSUB Submit batch jobs to complete PARMGEN setup.      RC= 00000 2011/11/17
R New RTE Reset RTE, Status and Date fields. (Optional)

Enter=Next  F1=Help  F3=End/Cancel
```

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Early look at PARMGEN UI-Phase 2

or → TSO EXECUTE
'&thlev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase2

```
KCIP@PG1 ---- SET UP PARMGEN WORK ENVIRONMENT FOR AN RTE (1 OF 3) -----  
COMMAND ==>  
Specify the RTE profile library and RTE member name (**if applicable**):  
1. If creating a brand new RTE, leave this field blank.  **or**  
2. If creating another new RTE and you want to clone a PARMGEN-created  
   RTE's configured product set, specify the WCONFIG profile library and  
   RTE member name to clone (ex.: &hlq.&rte.WCONFIG(&clone_from)).  **or**  
3. If upgrading an existing PARMGEN-maintained RTE, specify the WCONFIG  
   profile library and RTE member name to upgrade.  **or**  
4. If converting an ICAT-created RTE to PARMGEN mode, specify the ICAT  
   RTE Batch member location and RTE member (ex.: &hlq.INSTJOBS(PLB4SP13))  
==> TDOMPT.ITM623.INSTJOBS(PLB4SP13)  
  
Specify the Install Job Generator (JOBGEN) output library if you want  
PARMGEN to reuse CSI parameters from the JOBGEN repository:  
==> _____  
  
Enter Jobcard data:  
==> //CCAPIPLB JOB (ACCT), 'CECILE CAPINPIN-DAY', CLASS=A, _____  
==> //  MSGCLASS=X, MSGLEVEL=(1,1), NOTIFY=&SYSUID., REGION=OM _____  
==> /*** RTE_NAME=%RTE_NAME% _____  
==> /*** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER% _____  
Enter=Next  F1=Help  F3=End/Cancel
```

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Early look at PARMGEN UI-Phase 2

or → TSO EXECUTE
'&thilev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase2

```
KCIP@PG0 ----- PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME -----
OPTION ==>                                     SCROLL ==> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:  TSTEST.CCAPI.PARMGEN.JCL_____
                PARMGEN global user JCL library (CONFIG DD in STCs)
RTE_PLIB_HILEV: TSTEST.CCAPI_____
                High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:     PLB4SP13
                Runtime environment (RTE) name for this LPAR

Enter n (1-8) to perform tasks or display detailed status:      Status      Date
Note:  Enter ns (1s-8s) for detailed task status.             -----
1. KCIJPCFG Set up PARMGEN work environment for an RTE.        RC= 00000 2011/11/17
2. $JOBINDX Review PARMGEN job index.                          Viewed    2011/11/17
3. KCIJPUP1 Update interim libraries and create profiles.      RC= 00000 2011/11/17
4. KCIJPCNV Convert an ICAT RTE Batch member. (Optional)      RC= 00000 2011/11/17
5> PLB4SP13 Customize PARMGEN configuration profiles.          Edited    2011/11/17
6. KCIJPVAL Validate PARMGEN profile parameter values.        RC= 00000 2011/11/17
7. $PARSESV Create the RTE members and jobs.                  RC= 00000 2011/11/17
8. KCIJVSUB Submit batch jobs to complete PARMGEN setup.      RC= 00000 2011/11/17
R  New RTE  Reset RTE, Status and Date fields. (Optional)

Enter=Next  F1=Help  F3=End/Cancel
```

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Early look at PARMGEN UI-Phase 2

or → TSO EXECUTE
'&thlev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase2

```
KCIP@PG6 ----- CUSTOMIZE PARMGEN CONFIGURATION PROFILE MEMBERS -----  
OPTION ==>  
[Required]* Select option 1 to customize the PLB4SP13 RTE LPAR profile:  
1. PLB4SP13 RTE LPAR CONFIG profile in WCONFIG  
  
[Conditional]* Select option 2 and/or 3 if applicable to this RTE:  
2. $GBL$USR Global parameters CONFIG profile in WCONFIG  
   (Required if this is not an ICAT-to-PARMGEN conversion)  
3. PLB4SP13 System Variables CONFIG profile in GBL_USER_JCL  
   (TSTEST.CCAPI.PARMGEN.JCL)  
   (Required if using user-defined symbols or overriding  
   system symbols' resolved values - see F1=Help)  
*Note: The PARMGEN configuration profiles above are preserved  
      (initially created by KCIJPUP1 job).  
  
[Reference] IBM-supplied default profiles (refreshed by KCIJPUP1 job):  
4. $CFG$IBM IBM default RTE LPAR CONFIG profile in WCONFIG  
5. $GBL$IBM IBM default Global parameters CONFIG profile in WCONFIG  
6. $SYSIN   $PARSE/$PARSESV SYSIN controls for processing which:  
   - CONFIG profiles (CONFIG MEMBER=&config_profile)  
   - runtime members (SELECT MEMBER=(*,&mbr1,&mbr2??))  
   to (re)create from PARMGEN IK*-to-WK* output libraries.  
Enter=Next  F1=Help  F3=End/Cancel
```

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Early look at PARMGEN UI-Phase 3

or → TSO EXECUTE
'&thilev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase3

```
KCIP@PGX ----- PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME -----
OPTION ==>                                     SCROLL ==> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:  TSTEST.CCAPI.PARMGEN.JCL_____
                PARMGEN global user JCL library (CONFIG DD in STCs)
RTE_PLIB_HILEV: TSTEST.CCAPI_____
                High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:      PLB4SP13
                Runtime environment (RTE) name for this LPAR

Enter n (1-8) to perform tasks or display detailed status:      Status      Date
Note: Enter ns (1s-8s) for detailed task status.              -----
1. KCIJPCFG Set up PARMGEN work environment for an RTE.        RC= 00000 2011/11/17
2. $JOBINDX Review PARMGEN job index.                          Viewed    2011/11/17
3. KCIJPUP1 Update interim libraries and create profiles.      RC= 00000 2011/11/17
4. KCIJPCNV Convert an ICAT RTE Batch member. (Optional)      RC= 00000 2011/11/17
5. PLB4SP13 Customize PARMGEN configuration profiles.          Edited    2011/11/18
6. KCIJPVAL Validate PARMGEN profile parameter values.         RC= 00000 2011/11/17
7. $PARSESV Create the RTE members and jobs.                  RC= 00000 2011/11/17
8. SUBMIT Submit batch jobs to complete PARMGEN setup.
R New RTE Reset RTE, Status and Date fields. (Optional)

Enter=Next F1=Help F3=End/Cancel
```

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Early look at PARMGEN UI-Phase 3

or → TSO EXECUTE
'&thilev.TKANCUS
(KCIR@PG1)' –
PARMGEN Phase3

```
KCIP@SUB ----- SUBMIT BATCH JOBS TO COMPLETE PARMGEN SETUP -----
OPTION ==> _                               SCROLL ==> CSR

Select option 1 to SUBMIT the full set of composite jobs in WKANSAMU.
Alternatively, select 2-12 to SUBMIT each job individually.

Note: Enter ns (1s-12s) for detailed task status.
```

		Status	Date
1.	KCIJVSUB Composite master SUBMIT job	RC= 00000	2011/11/17
2.	KCIJVALD Allocate runtime libraries	RC= 00000	2011/11/17
3.	KCIJVL0D Load TK*->RK* runtime libraries	RC= 00000	2011/11/17
4.	KCIJVSEC Product security	RC= 00000	2011/11/17
5.	KCIJVUPV System Variables IEBUPDTE (Conditional)	RC= 00000	2011/11/17
6.	KCIJVUSP USS preparation (Conditional)	RC= 00000	2011/11/17
7.	KCIJVUSS USS system set-up (Authorization required)	RC= 00000	2011/11/17
8.	KCIJVSYs System set-up (Authorization required)	RC= 00000	2011/11/17
9.	KCIJVLNK ASM/Link RKANMODU modules (Conditional)	RC= 00000	2011/11/17
10.	KCIJVCPY Backup IK*,WK* or RK* user lib. (Conditional)		
11.	KCIJVW2R WK*->RK* deployment (Conditional)	RC= 00000	2011/11/17
12.	KCIJPIVP Configuration verification	Submitted	2011/11/16

Press F1=Help for additional considerations when selecting options 5-11.
Enter=Next F1=Help F3=End/Cancel

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PARMGEN Documentation

Master PARMGEN Technote

URL: <http://www-01.ibm.com/support/docview.wss?uid=swg21417935>

Document information

Tivoli Components	IBM Application Services Pack Appl Mgr
Software version:	6.2.2
Operating system(s):	z/OS
Reference #:	1417935
Modified date:	2011-11-16

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Select language

In transition - in between publication re-release, the technote gets updated

THANK YOU

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Cecile Day



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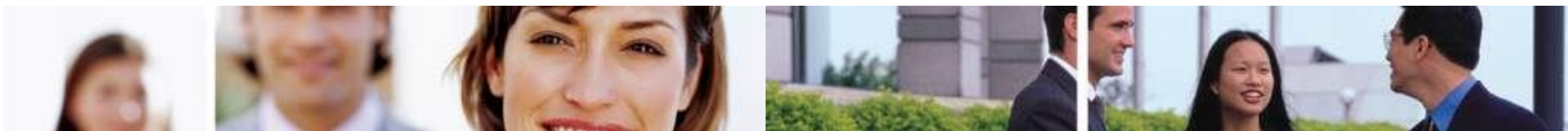
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Summary – What is PARMGEN?

✚ Scope of Support:

- ✔ The 2010 initial PARMGEN deliverables focused on enabling all 37 components to be configured using the alternative PARMGEN approach, in order to create a brand new RTE.
- ✔ 2011 PARMGEN Phase 1 (GA) and planned Phase 2 in 1Q12 focus on *RTE maintenance/upgrade, deployment best practices* and *performance improvements*, of PARMGEN-created RTEs.
- ✔ Planned PARMGEN Phase 3 throughout 2H12+ provides additional improvements

Stay tuned! Feb. 2012 webcast