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What is new with OMEGAMON/ITM PARMGEN Configuration Tool?

Cecile Day
IBM Corporation

August 14, 2013
Session Number 14116

SHARE in Boston

Agenda

- Our On-going Mission
- Summary – PARMGEN and OMEGAMON XE V510+s
- Product Families Supported by PARMGEN
- Software Deployment Life Cycle – Where does PARMGEN fit?
- What are some of our PARMGEN First-Time-User (FTU) personas?
- PARMGEN RTE Life Cycle: Create a new RTE
- Reference/Backup Materials
  - PARMGEN Time-to-Value (TTV) Enhancements 4Q12 – 3Q13 to-date (Highlights)
  - Planned PARMGEN First-Time-User (FTU) Enhancements in 2014
  - Quantifiable Results and Our Most Important Validation – Our Customer Experience
  - Open Q&A Calls – please join us!
  - OMEGAMON Family Early Access Program – please join us!
  - Shared Publications
  - FAQs and Best Practices

Our Ongoing Mission

- ***Improve Time-to-Value and lower our total cost of ownership (TCO) in the areas of installation, configuration, deployment and maintenance.***
- ***Are we there yet?***
  - **Yes, we are getting there, with the major PARMGEN improvements over ICAT, that we delivered with the OMEGAMON XE V510/V511/V710 Family.**
  - ***And we continue to improve the process – but we are not yet done***
  - ***Next Stop:***
    The Road Forward ➔

Summary – PARMGEN and OMXE V510+s

What PARMGEN Offered for the V510+s? To highlight a few of the TTV enhancements, the PARMGEN process:

1. *Supports all the OMEGAMON XE V510+ PARMGEN APPCONFIG requirements to support OMEGAMON Enhanced 3270UI and Self Describing Agent (SDA) along with application-specific V510 new version features.*

2. *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., 8-12 PARMGEN jobs versus hundreds in ICAT if you have all the products configured)*

3. *Makes extensive use of real system variables and even supports user-defined symbols.*
4. *Harvests settings from an existing ICAT environment (if any) to use customer values.*

Long-standing requests since Candle days - not in ICAT but now in PARMGEN!

Summary – PARMGEN and OMXE V510+s

What PARMGEN Offered for the V510+s? To highlight a few of the TTV enhancements, the PARMGEN process:

5. *Autodiscovers system-specific values so a number of out-of-the-box system-specific RTE values are already set in the RTE profile by default -- saves customization time!*
6. *Supports ease of upgrade from a PARMGEN-to-PARMGEN RTE environment.*
7. *Supports a more staged maintenance/upgrade – does **not** (re)create the runtime members directly into the production RKANCMDU, RKANPARU, and other user execution libraries.*

Long-standing requests since Candle days - not in ICAT but now in PARMGEN!

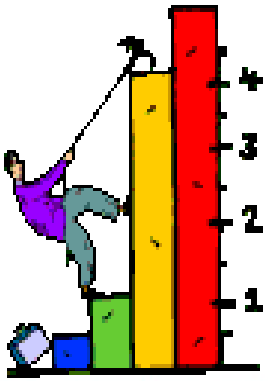
Product-centric (ICAT) vs. Function RTE-centric jobs (PARMGEN)

TEMS, OMXE
CICS & z/OS

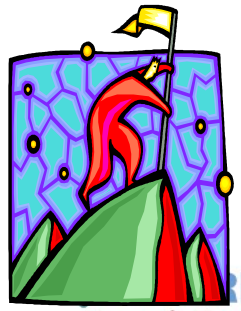
35 ICAT product-centric jobs for 1 LPAR RTE to configure 7 components

ICAT vs. PARM GEN

8-12 PARMGEN function-centric jobs for 1 LPAR RTE regardless how many products!



Quantifiable Results!



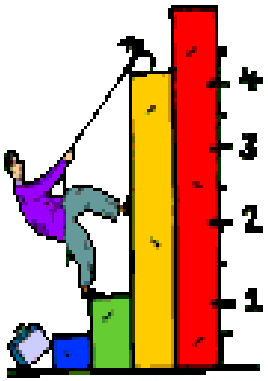
Product-centric (ICAT) vs. Function RTE-centric jobs (PARMGEN)

All products

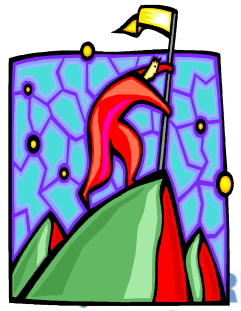
150 ICAT product-centric jobs for 1 LPAR RTE to configure 38 components

ICAT vs. PARM GEN

8-12 PARMGEN function-centric jobs for 1 LPAR RTE regardless how many products!



Quantifiable Results!



Our Most Important Validation – Our Customer Experience

Most Important Validation – Our Customer Experience

Recent quotes in 3Q13 (to-date):

- *"I walked him thru the PARMGEN process - he was wowed by the dynamics… 1-RTE generation can be achieved under 15-minutes. "*

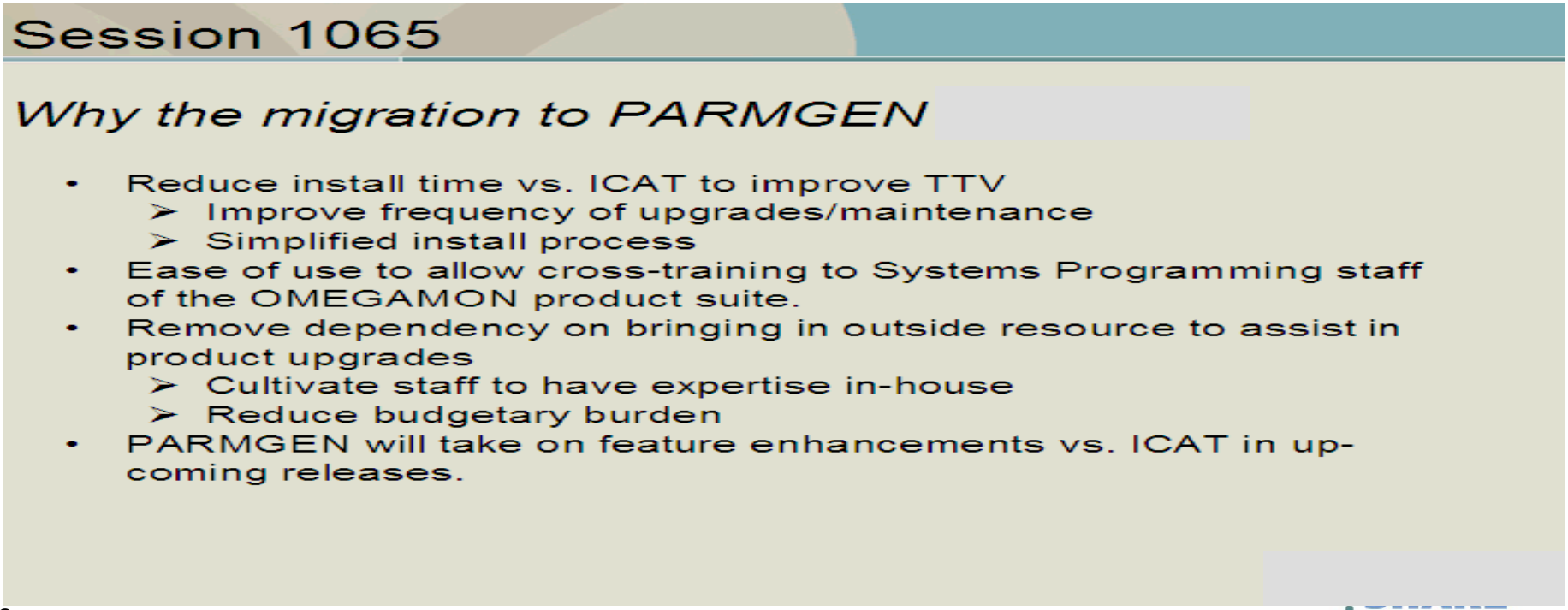
- *"can't say enough good things on only have to run thru the PARMGEN sequence of jobs ONCE! The fact that I can include a product upgrade AND maintenance, I marvel at this."*

- *"Parmgen benefits:*
- *It is MUCH easier than ICAT to standardize your Omegamon installation procedures across RTE (either by your own standards or procedures provided by parmgen). A new colleague who gave up on ICAT is now doing the last parmgen migrations without any problems!*
- *In our case, we went from 3 post-ICAT modifications and 12 post-ICAT jobs to 2 post-parmgen modifications and 2 post-parmgen jobs!*
- *I'm actually looking FORWARD to the next upgrade cycle with parmgen, it will be much easier & faster than before!*
- *PARMGEN is a gem: if you still need to migrate to V510, do it with PARMGEN instead if ICAT now "*

Most Important Validation – Our Customer Experience

Recent quotes in 1Q13:

- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#1: Session AOZ-1065:**
- "***Time To Value was realized by reducing upgrade/product(s) validation time per LPAR by +60% (wall clock time)!***"



Most Important Validation – Our Customer Experience

Recent quotes in 1Q13:

- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#2: Session AOZ-1984:**

OMEGAMON XE on z/OS v5.1 - The new e3270UI

- **OMEGAMON XE history**
  - **We are running OMEGAMON for 10 years**
    - **Starting with v3.1.0 and v4.1.0**
      - CUA user only
    - **We did another EAP for v4.2.0 but we decided not to implement TEP in the future**
      - Too many different teams (z/OS, Unix, Windows, Security, …)
      - ICAT was not preferred (not user friendly)
      - CUA user only

Most Important Validation – Our Customer Experience

Recent quotes in 1Q13:

- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#2: Session AOZ-1984:**

> **OMEGAMON XE on z/OS v5.1 - The new e3270UI**

- **Benefits**
  - **PARMGEN installation tool**
    - Much faster installation – fewer steps than ICAT
    - Very smooth, more intuitive – more user-friendly

z/OS Product Families Supported by PARMGEN

z/OS Product Families Supported by PARMGEN

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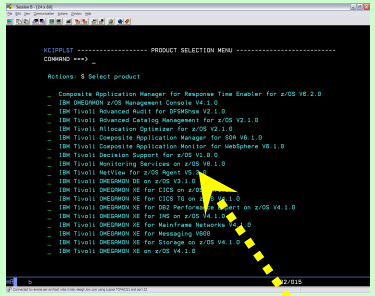
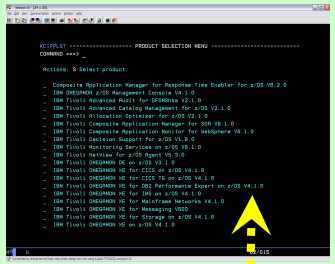
z/OS TMS family

TEMS



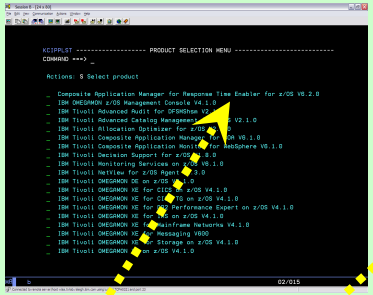
OMEGAMON family

z/OS, CICS, DB2, IMS, Storage, OMEGAVIEW, Management Console, Mainframe Networks, Messaging



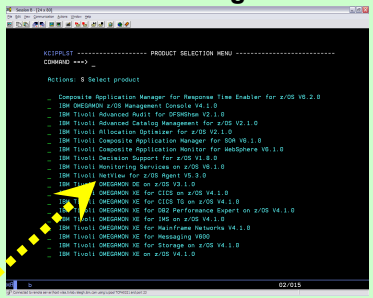
z/OS ITCAM family

SOA, WebSphere (Appl. Diagnostics), File Transfer Enabler



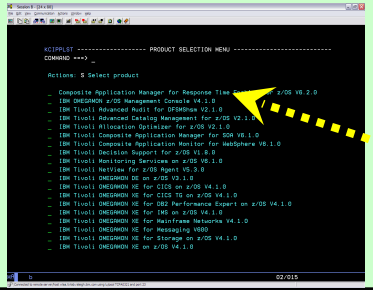
NetView family

NetView for z/OS Agent

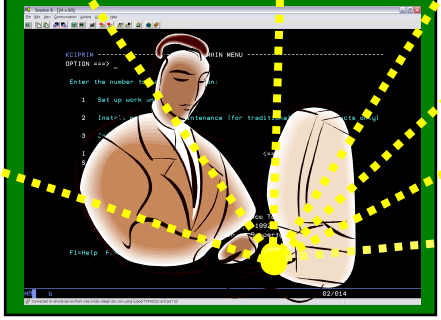


Rocket family

Advanced Audit for DFSMShsm, Advanced Catalog Management, Allocation Optimizer, Advanced Reporting, Advanced Backup & Recovery, Automated Tape Allocation Manager, Tape Optimizer

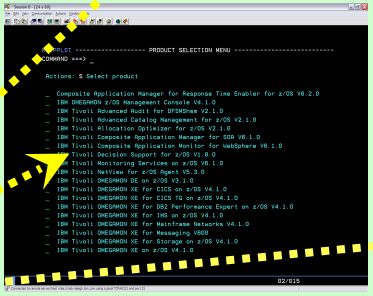


PARMGEN Configuration Framework



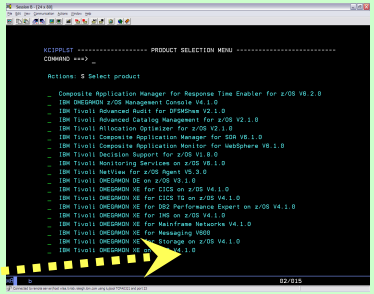
TDS family

Tivoli Decision Support Agent

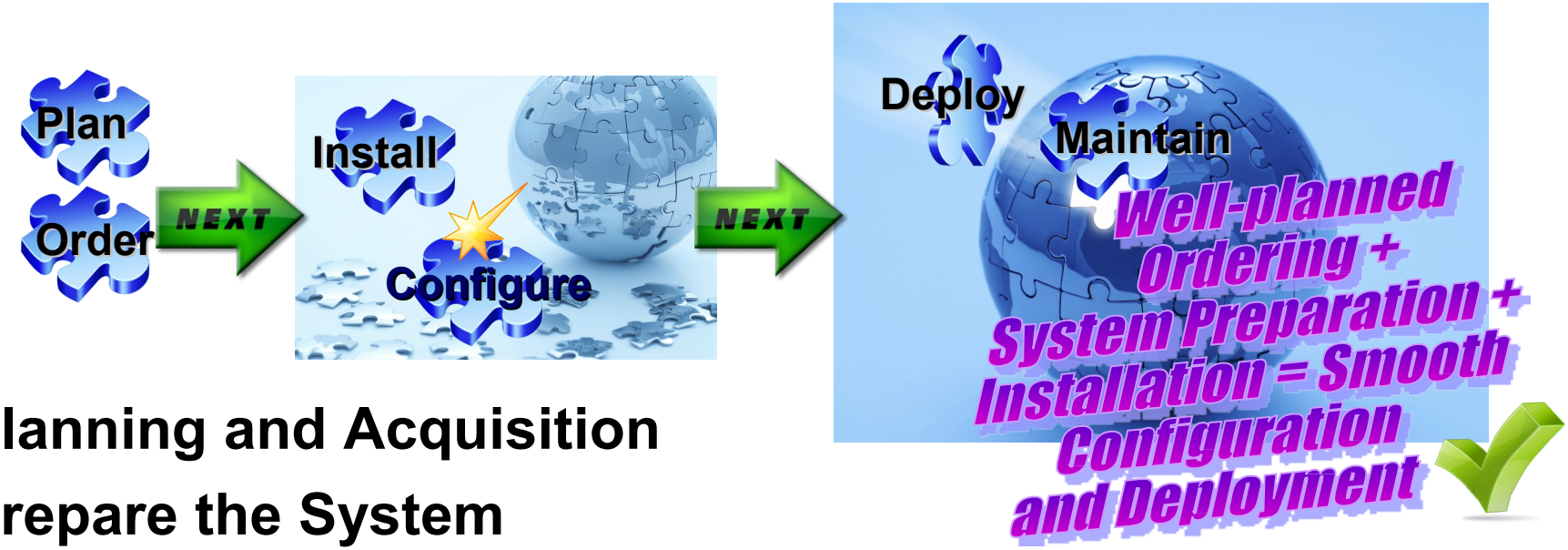


System Automation family

System Automation for z/OS Agent



Software Deployment Life Cycle – Where does PARMGEN fit?

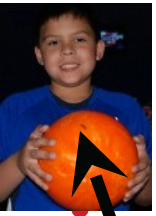


1. Planning and Acquisition
2. Prepare the System
3. Review the Product Components & Installation Steps
4. Perform the SMP/E Installation of the Components that Run on z/OS
5. **Configure the Products on z/OS ← *PARMGEN is here***
6. Complete the Post-configuration Steps and Start the Products

What are some of our PARMGEN first-time-user (FTU) personas?

PARMGEN New User #1: Pristine Install (RTE Persona="*NewMiki*"):

You are creating a new RTE via PARMGEN. You are new to the OMEGAMON/ITM suite, new to the concept of an "RTE" and you have no previous knowledge of ICAT.



PARMGEN New User #2: Clone (RTE Persona="*CuriousNewMiki*"):

You are cloning your first PARMGEN RTE but you are still a fairly "NewMiki" user.

Your 8-year old kid's picture goes here ☺

What are some of our PARMGEN first-time-user (FTU) personas?

PARMGEN New User #3: Convert/Upgrade (RTE Persona="*NewJim*"):

You are an ICAT SME and you creating your first PARMGEN RTE from an already-deployed ICAT RTE to be converted to PARMGEN mode. Not only are you new to PARMGEN but you are also tasked to upgrade all the OMEGAMON/ITM products across 10 – 200 production LPARs and exploit some of the '*Holy Trinity*' of OMEGAMON/ITM brand grace. What are those?...

TOM
(Tivoli
OMEGAMON
Manager)

3

New TTV Offerings in V510+

SDA
(Self
Describing
Agent)

PIG
(PARMGEN
Input
Generator)

"But with great power comes great responsibility"
...with new feature exploitation comes new configuration requirements
...we continue to improve our "close to zero config." initiatives

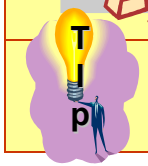
How does a PARMGEN FTU create a new RTE?

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

Execute the PARMGEN code from your *&gbl_target_hilev.*TKANCUS OMEGAMON/ITM SMP/E target library:

```
==========================================
ISRTSO      ISPF Command Shell
Enter TSO or Workstation commands below:

===> EX 'TDITNT.DEV.ITM63053.TKANCUS'
==========================================
```



= User Action (Type input, Execute cmd.)

= Best Practice item

PARMGEN RTE Life Cycle: Create a new RTE

PARMGEN RTE Life Cycle: *When creating a new PARMGEN RTE, there are only **7 main steps** involved.*

1. Set up PARMGEN work environment for the products being configured in the LPAR RTE.
2. Update interim libraries with product configuration runtime member templates and create PARMGEN configuration profiles (LPAR and global) for the products being configured.
3. Customize the product parameters in the PARMGEN configuration profiles for the products being configured (LPAR profile and global profile parameters).
4. Validate PARMGEN profile parameter values specified by the customer for the product parameters.
5. Create the file-tailored RTE members and jobs for the products being configured.
6. Submit batch jobs to complete PARMGEN RTE setup.
7. Complete the post-configuration steps and start the products.

PARMGEN Workflow User Interface – Sample Scenario:

PARMGEN Scenario #1: Create an SMP-sharing runtime environment with a z/OS Hub TEMS and OMEGAMON Agents. This first scenario simulates a brand new deployment such as a new install or a deployment for a Proof of Concept to cater to our first-time users.

PARMGEN RTE Life Cycle:

Step 1. KCIJPCFG Job: Set up PARMGEN work environment for the products being configured in the LPAR RTE=TESTSYSA.

Welcome JOBGEN/PARMGEN Integration Screen

```
        Welcome to the z/OS Installation and Configuration Tools for
          IBM Tivoli Management Services (TMS) dependent products

Option ===> 5_

Read/Print Checklists prior to installation and configuration:

1. Checklist: Planning and Acquisition
2. Checklist: Prepare the system
3. Checklist: Review the product components & installation steps

4. SMP/E-install z/OS products with Install Job Generator (JOBGEN)
5. Configure z/OS products with Parameter Generator Workflow (PARMGEN)

6. Checklist: Complete the post-configuration steps

7. About joining the community: Service Management Connect (SMC)

P. Print checklist(s) selectively

Maintenance Level: HKCI310 PTF UA69076 (APAR OA41710 2Q13A Interim Feature)
```

ETE flow

Seamless integration

Welcome JOBGEN/PARMGEN Integration Screen

```
        Welcome to the z/OS Installation and Configuration Tools for
                IBM Tivoli Management Services (TMS) dependent products

Option ===> 3a_

Tip: Read/Print Checklists prior to installation and configuration:

1. Checklist: System preparation checklists

2. SMP/E-install z/OS products with Install Job Generator (JOBGEN)

3. Configure z/OS products with Parameter Generator Workflow (PARMGEN)
   Select either option 3a or 3b.
   a. Quick Configuration: Use IBM-supplied typical model LPAR profiles.
   b. Standard Configuration: Composite configuration options.

4. About joining the community: Service Management Connect (SMC)


Maintenance Level: HKCI310 PTF UAXXXXX (APAR OAXXXXX nQ14 Interim Feature)
```

FTU Phase 1

Proposed streamlined welcome panel:
Type new 3A option for QCKCFG and press Enter.

PARMGEN Workflow User Interface (KCIP@PG0 panel)

```
KCIP@PG0 ------ PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME -------------
Option ===>                                                Scroll ===> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:  ________________________________________________
               PARMGEN common/global library for RTEs (CONFIG DD lib. in STCs
RTE_PLIB_HILEV: ____________________
               High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:      ________  (Type ? for a list of configured RTEs)
               Runtime environment (RTE) name for this LPAR
               There are 13 selectable options on this panel
Note:  Enter n  (1-11) to perform tasks.                    Status     Date
       Enter ns (1s-11s) for detailed job/task status.      --------- ---------

1.   KCIJPCFG Set up PARMGEN work environment for an RTE.
2.   $JOBINDX Review PARMGEN job index.
3.   KCIJPCCF Clone customized WCONFIG members.          (COND)
4.   KCIJPUP1 Update interim libraries and create profiles.
5.   KCIJPMC1 Merge profile from backup profile          (COND)
6.   KCIJPMC2 Merge profile from model RTE.              (COND)
7.   KCIJPCNV Convert an ICAT RTE Batch member.          (COND)
8.            Customize PARMGEN configuration profiles.
9.   KCIJPVAL Validate PARMGEN profile parameter values.
10.           Create the RTE members and jobs.
11.  SUBMIT   Submit batch jobs to complete PARMGEN setup.
U    Utility  Access PARMGEN utilities.              (Optional)
R    New RTE  Reset RTE, Status and Date fields.     (Optional)
```

ETE workflow menu

On-line helps available!

PARMGEN Workflow UI – more ease-of-use options added

```
KCIP@PG0 ------ PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME --------------
Option ===>                                                Scroll ===> CSR
Enter PARMGEN parameter values appropriate for your environment:
GBL_USER_JCL:   ____________________________________________________
                PARMGEN common/global library for RTEs (CONFIG DD lib. in STCs)
RTE_PLIB_HILEV:_____________________
                High-Level Qualifier (HLQ) of work libraries (IK*,WCONFIG,WK*)
RTE_NAME:       _________
                Runtime environment (RTE) name for this LPAR

Note:  Enter n  (1-11) to perform tasks.                  Status     Date
       Enter ns (1s-11s) for detailed job/task status.    --------- ----------

1.  KCIJPCFG Set up PARMGEN work environment for an RTE.
2.  $JOBINDX Review PARMGEN job index.
3.  KCIJPCCF Clone customized WCONFIG members.          (COND)
4.  KCIJPUP1 Update interim libraries and create profiles.
5.  KCIJPMC1 Merge profile from backup ESYSMVS          (COND)
6.  KCIJPMC2 Merge profile from model RTE.              (COND)
7.  KCIJPCNV Convert an ICAT RTE Batch member.          (COND)
8>  ESYSMVS  Customize PARMGEN configuration profiles.
9.  KCIJPVAL Validate PARMGEN profile parameter values.
10. $PARSESV Create the RTE members and jobs.
11. SUBMIT   Submit batch jobs to complete PARMGEN setup.
U   Utility  Access PARMGEN utilities.              (Optional)
R   New RTE  Reset RTE, Status and Date fields.    (Optional)
```

"COND = "Conditional" vs. "Optional" (N/A for a brand new RTE)

PARMGEN Workflow User Interface (KCIP@PG0 panel)

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```
----------------- PARAMETER GENERATOR (PARMGEN) WORKFLOW MENU -----------------
Command ===> _                                              Scroll ===> CSR
                        Quick Configuration Mode

Enter PARMGEN parameter values appropriate for your environment:
Press F1=Help for more information.

GBL_USER_JCL:   ____________________________________________________
                (for example, TDITNT.DEV.ITM63051.SYSPLEX.PARMGEN.JCL)
                Specify the dataset name of the PARMGEN common/global
                library for the different LPAR runtime environments (RTEs).
                PARMGEN stores cross-RTE values for the RTEs created
                using the same GBL_USER_JCL PARMGEN common library.

RTE_PLIB_HILEV: ____________________
                Specify the High-Level Qualifier (&hlq)   portion of the
                PARMGEN interim staging and work libraries for this LPAR RTE:
                - &hlq.&rte_name.IK* (IKANCMDU,IKANPARU,IKANSAMU)
                - &hlq.&rte_name.WK* (WKANCMDU,WKANPARU,WKANSAMU)
                - &hlq.&rte_name.WCONFIG

RTE_NAME:       _________
                Specify the runtime environment (&rte_name)   for this LPAR
```

FTU Phase1:

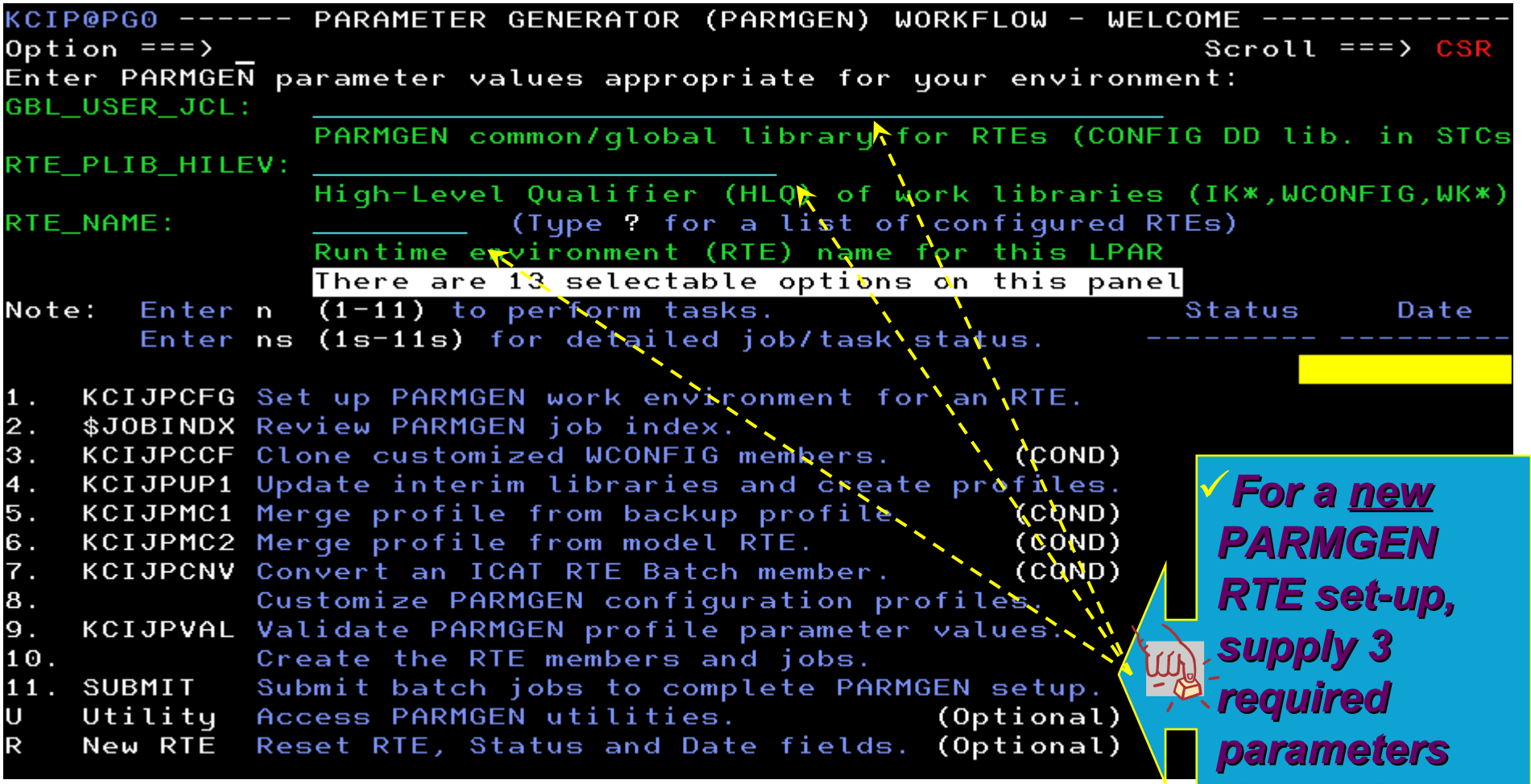
Proposed: Present the first 3 required fields for customer input; provide more helpful text/examples about what each field means

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

```
---------- PARAMETER GENERATOR (PARMGEN) WORKFLOW PRIMARY OPTION MENU ---------
Option ===> _                                            Scroll ===> CSR
                        Quick Configuration Mode

GBL_USER_JCL:    TDITNT.COMMON.PARMGEN.JCL
RTE_PLIB_HILEV:  TDITNT.OMEGAMON
RTE_NAME:        TESTSYSA

Note: Perform steps 1 through 7 in sequence, repeating steps as necessary.
      Enter ns (1s-4s,7s) for detailed job/task status.
                     Description                    Job/Label  Status      Date
    ------------------------------------------- --------- --------- ----------

1.  Set up PARMGEN work environment for an RTE.   KCIJPCFG
2.  Update interim libraries and create profiles. KCIJPUP1
3.  Customize PARMGEN configuration profiles.     TESTSYSA
4.  Validate PARMGEN profile parameter values.    KCIJPVAL
5.  Create the RTE members and jobs.
6.  Submit batch jobs to complete PARMGEN setup.  SUBMIT
7.  Perform post configuration steps.             POSTCFG
R   Reset RTE, Status and Date fields. (Optional) New RTE

Press F1=Help for more information.  Type UTIL to edit PARMGEN work libraries.
```

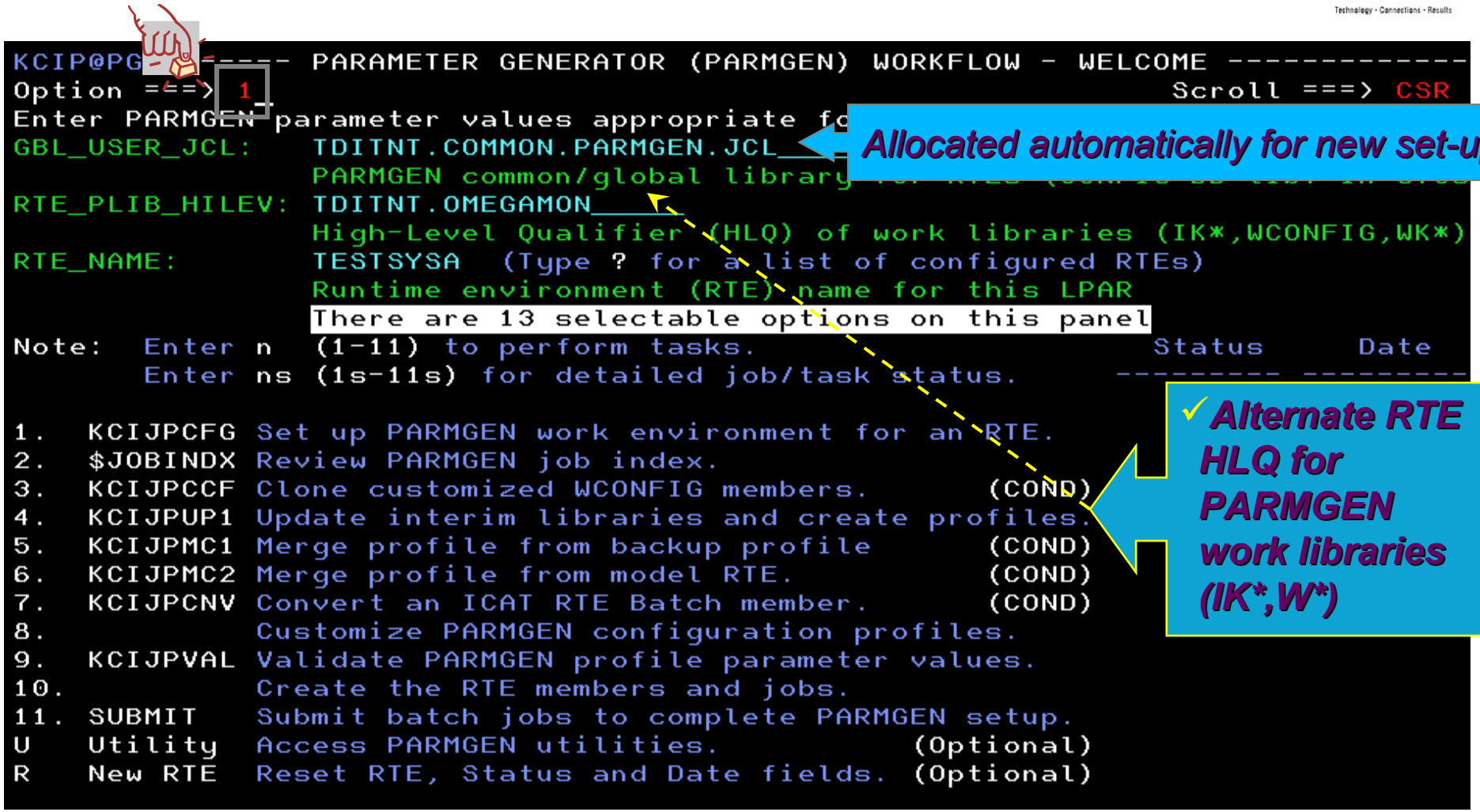
FTU Phase1: **Proposed: Present only options applicable to creating a brand new RTE.**

Step 1. KCIJPCFG Job: Set up PARMGEN work environment



✓ ***For a new PARMGEN RTE set-up, supply 3 required parameters then select option '1'***

Step 1. KCIJPCFG Job: Set up PARMGEN work environment



Step 1. KCIJPCFG Job: Set up PARMGEN work environment

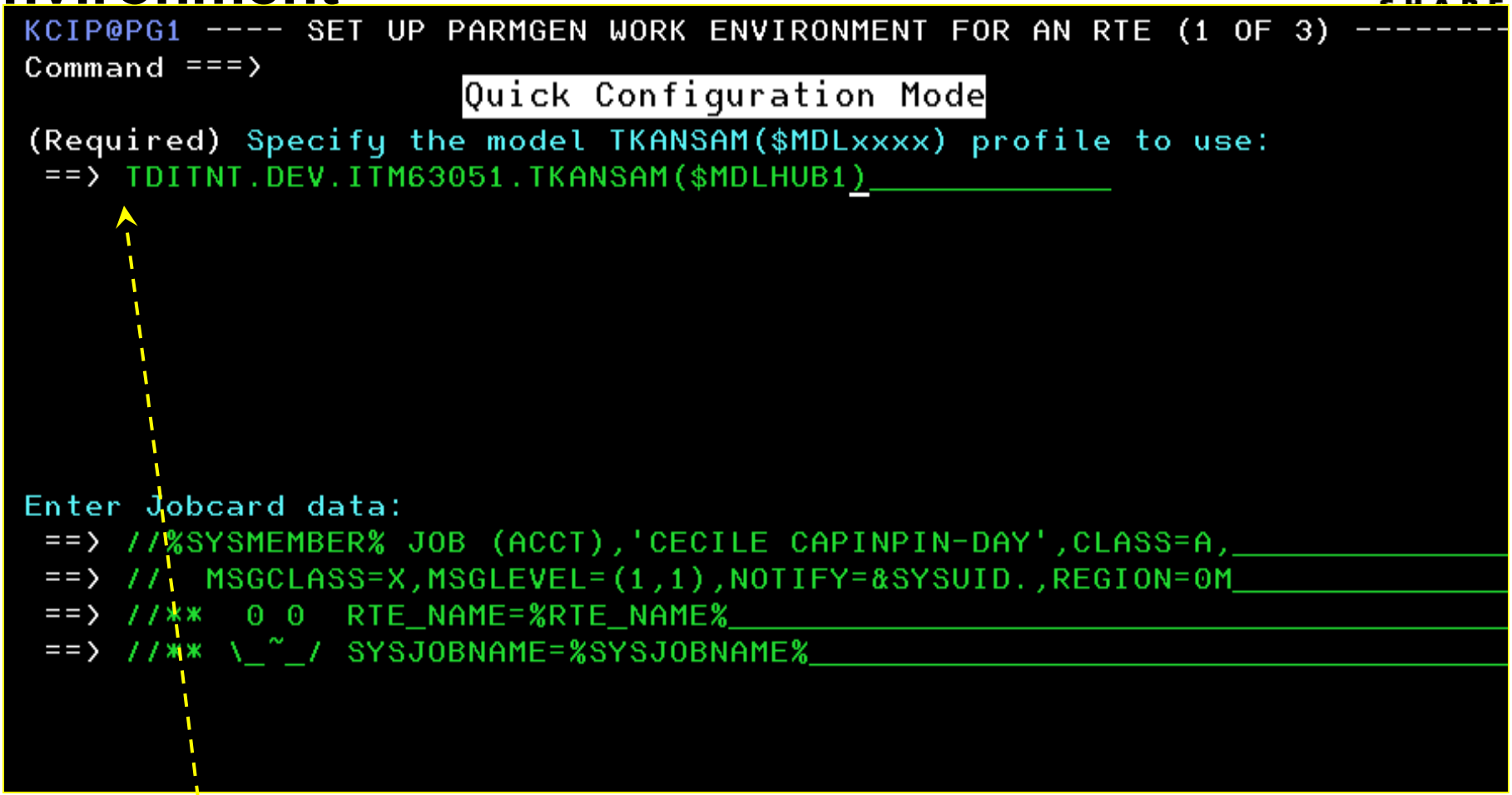
```
KCIP@PG1 ---- SET UP PARMGEN WORK ENVIRONMENT FOR AN RTE (1 OF 3) ------------
Command ===>

Specify the RTE profile library and member name that fits your scenario:
 ==> _                                                  (ex:&dset(&rte))
 - If creating a brand new RTE, leave this field blank.                **or**
 - 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**
 - If reconfiguring or upgrading this existing TESTSYSA RTE, specify its
   values (TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA))                  **or**
 - If converting an ICAT-created RTE to PARMGEN mode, specify the ICAT
   RTE Batch member location and RTE member (ex.: &hlq.INSTJOBS(TESTSYSA))

Specify the Install Job Generator (JOBGEN) output library if you want
PARMGEN to reuse CALLLIBS parameters from the JOBGEN
 ==> _____________________________________________
     (Type ? for last referenced JOBGEN library dis
Enter Jobcard data:
 ==> //%SYSMEMBER% JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,_____________
 ==> //   MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M_____________
 ==> //**   0 0   RTE_NAME=%RTE_NAME%_____________________________________
 ==> //** \_~_/  SYSJOBNAME=%SYSJOBNAME%_____________________________________
```

If you use JOBGEN, check-out new KCIJGREA REALLOC job!

Tip: Useful symbolics
SYSJOBNAME =%SYSMEMBER%
SYSMEMBER=KCIJPCFG

FTU Phase1: Ship new $MDLxxxx model LPAR profiles for the first field

Step 1. KCIJPCFG Job: Set up PARMGEN work environment



Ship new $MDLxxxx model LPAR profiles for the first field;

FTU Phase1:

Update: First field will present a sub-panel to select which TKANSAM($MDL*) to use.

Update: JOBGEN repository will be dynamically displayed if used for the SMP/E work.

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

Ship proposed model RTE profiles in TKANSAM target library. The $MDL* TKANSAM profiles will need to already be set-up for System Variables symbolics. All product parameters will be pre-configured in these sample profiles. Samples RTE profiles are:

1. ***&gbl_target_hilev*.TKANSAM($MDLHUB1)** - model Hub-based sharing with SMP RTE
2. ***&gbl_target_hilev*.TKANSAM($MDLREM1)** - model Remote-based sharing with Base RTE
3. ***&gbl_target_hilev*.TKANSAM($MDLHAHB)** - model High-Availability (HA) Hub-based Full RTE

Model RTE Name (RTE_NAME)	RTE Type (RTE_TYPE)	Sharing with RTE (RTE_SHARE)	TEMS Type (KDS_TEMS_TYPE)	Hub TEMS Type (KDS_TEMS_HA_TYPE)	System Variables Enabled (RTE_SYSV_SYSVAR_FLAG)
$MDLHUB1	SHARING	SMP	HUB	N/A	Y
$MDLREM1	SHARING	BASE	REMOTE	N/A	Y
$MDLHAHB	FULL	N/A	HUB	HA	N

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

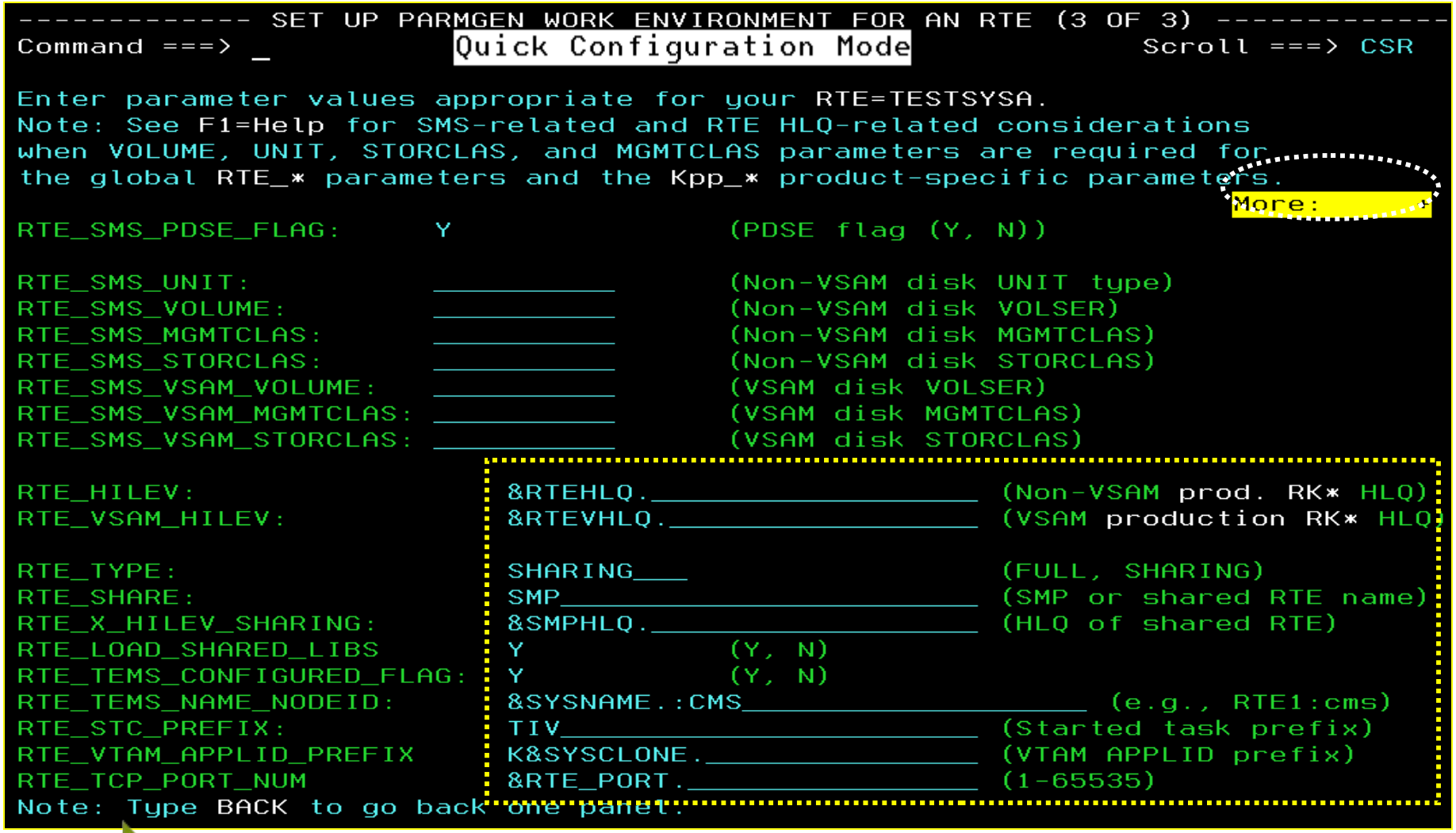
```
------------- SET UP PARMGEN WORK ENVIRONMENT FOR AN RTE (2 OF 3) -------------
Command ===> _
                          Quick Configuration Mode

GBL_USER_JCL:       TDITNT.COMMON.PARMGEN.JCL
RTE_PLIB_HILEV:     TDITNT.OMEGAMON
RTE_NAME:           TESTSYSA

Enter parameter values appropriate for your environment:

                                                        UNIT/      STORCLAS/
                                                        VOLSER     MGMTCLAS
GBL_TARGET_HILEV:   TDITNT.DEV.ITM63053_____________    _________  _________
                    HLQ of SMP/E target (TK*) datasets  _______    _________

GBL_SYSDA_UNIT:     SYSDA___
                    Non-VSAM disk UNIT (global work datasets)




Note: Type BACK to go back one panel.
```

Autopopulated fields if JOBGEN output library was supplied; otherwise, specify the values once (preserved).

FTU Phase1:

Update: ICAT HLQ field (moved in the end) will be displayed only if this is not an ICAT->PARMGEN conversion based on feedback.

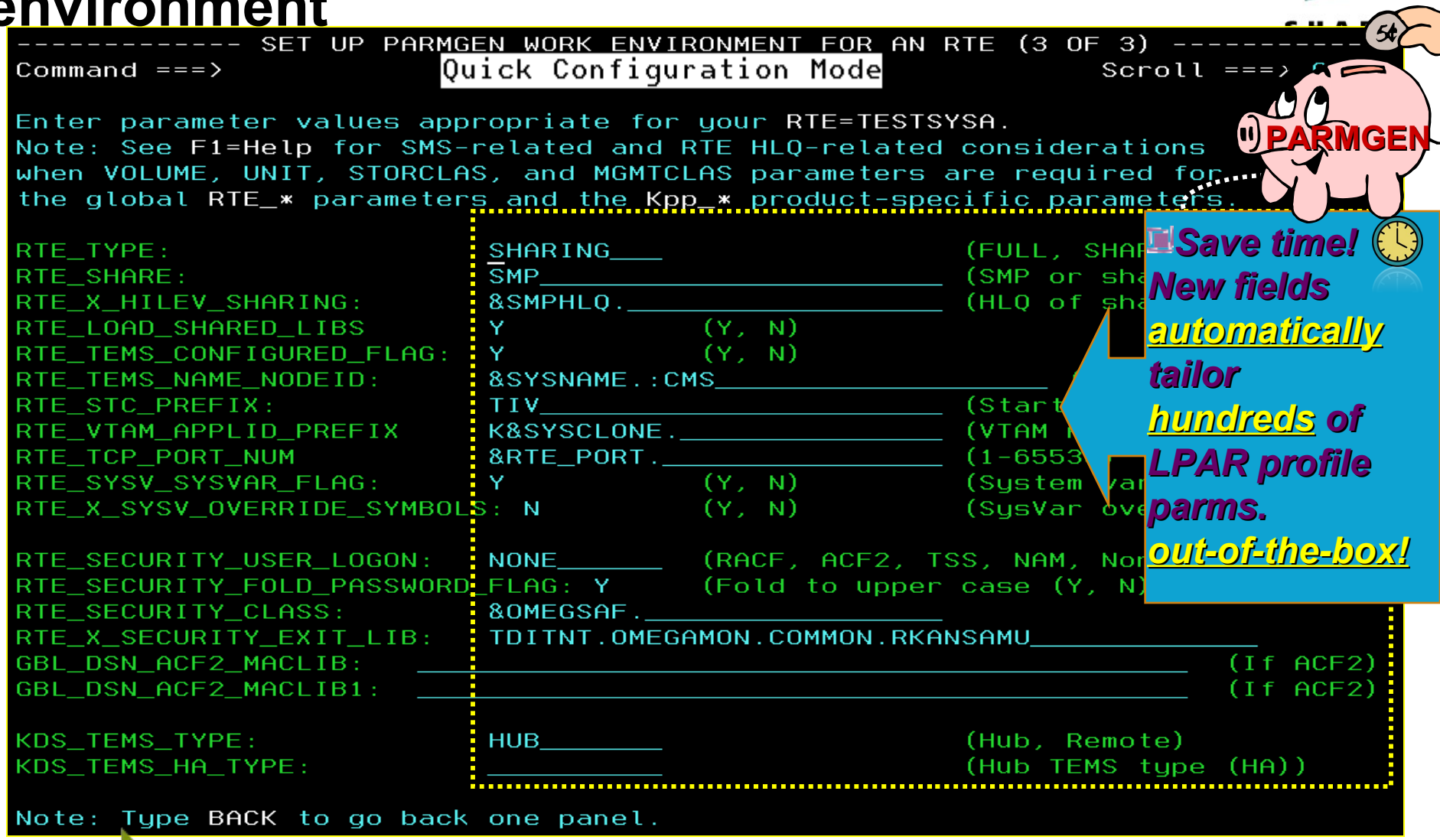
Step 1. KCIJPCFG Job: Set up PARMGEN work environment



FTU Phase1:

Read $MDLxxxx model LPAR profile to pre-fill in with symbolic values OOTBox;

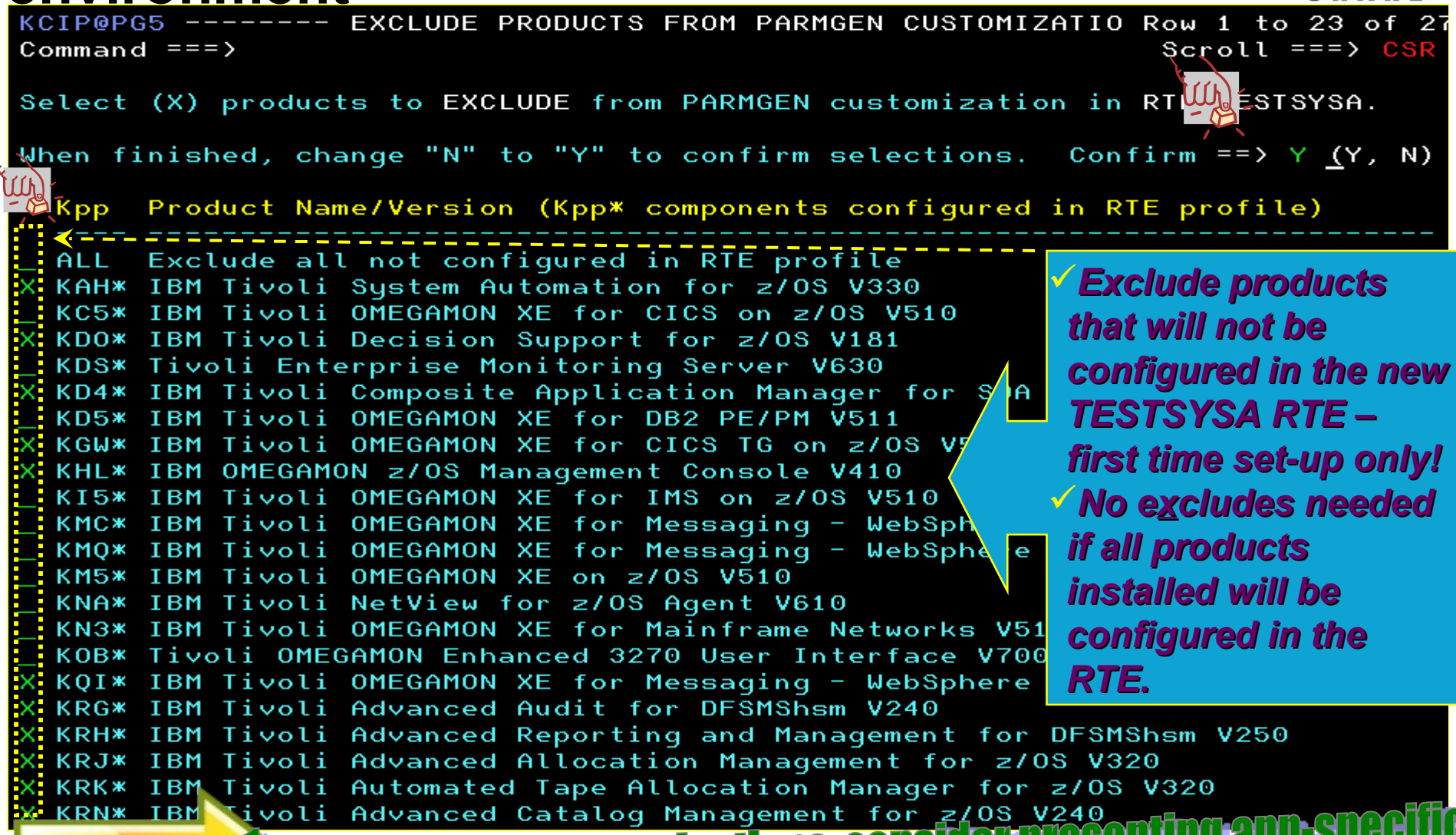
Step 1. KCIJPCFG Job: Set up PARMGEN work environment



Save time! New fields automatically tailor hundreds of LPAR profile parms. out-of-the-box!

Phase1: **Update: This KCIP@PG3 panel will be split into 2 panels based on feedback.**

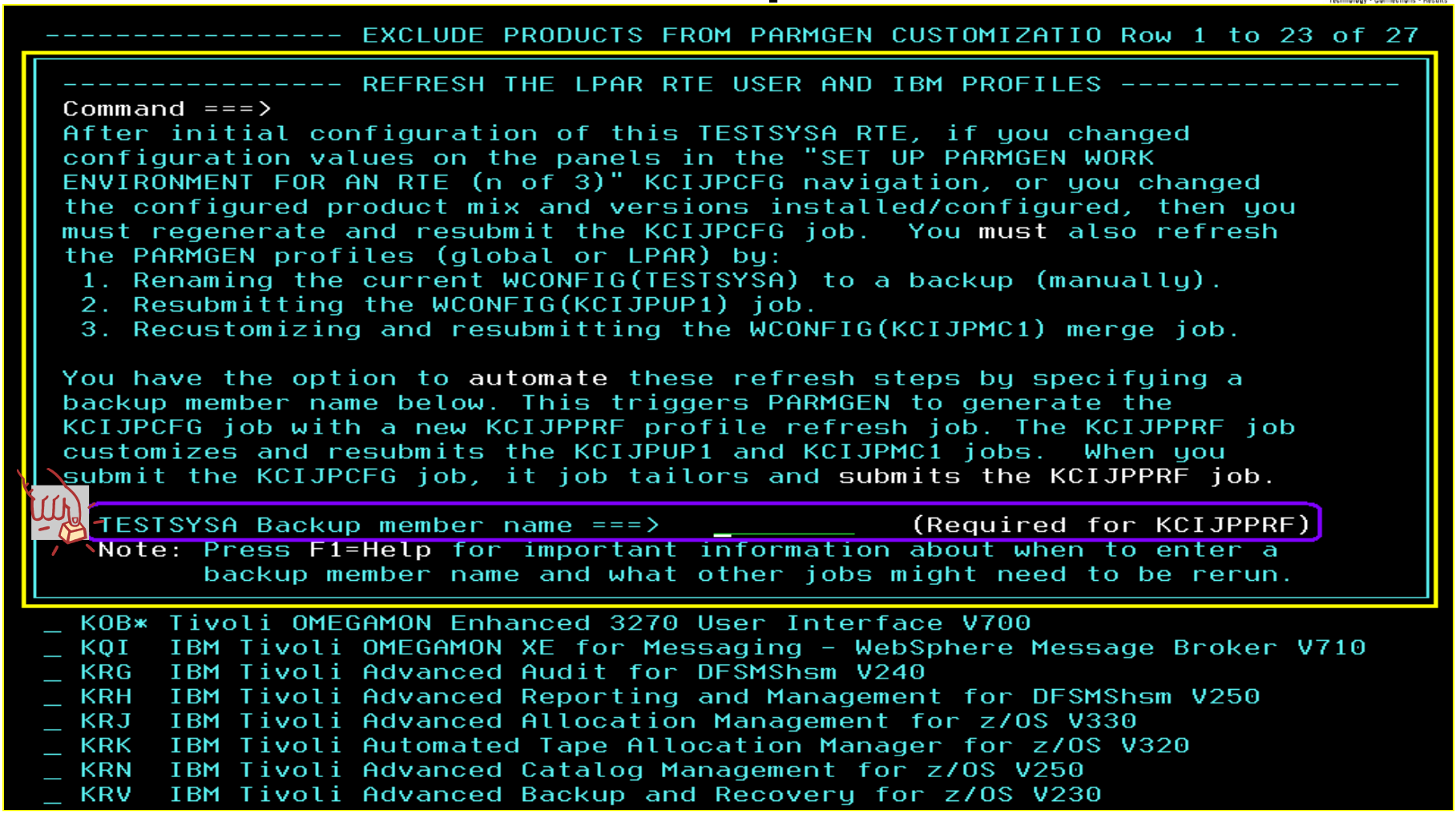
Step 1. KCIJPCFG Job: Set up PARMGEN work environment



- ✓ *Exclude products that will not be configured in the new TESTSYSA RTE – first time set-up only!*
- ✓ *No excludes needed if all products installed will be configured in the RTE.*

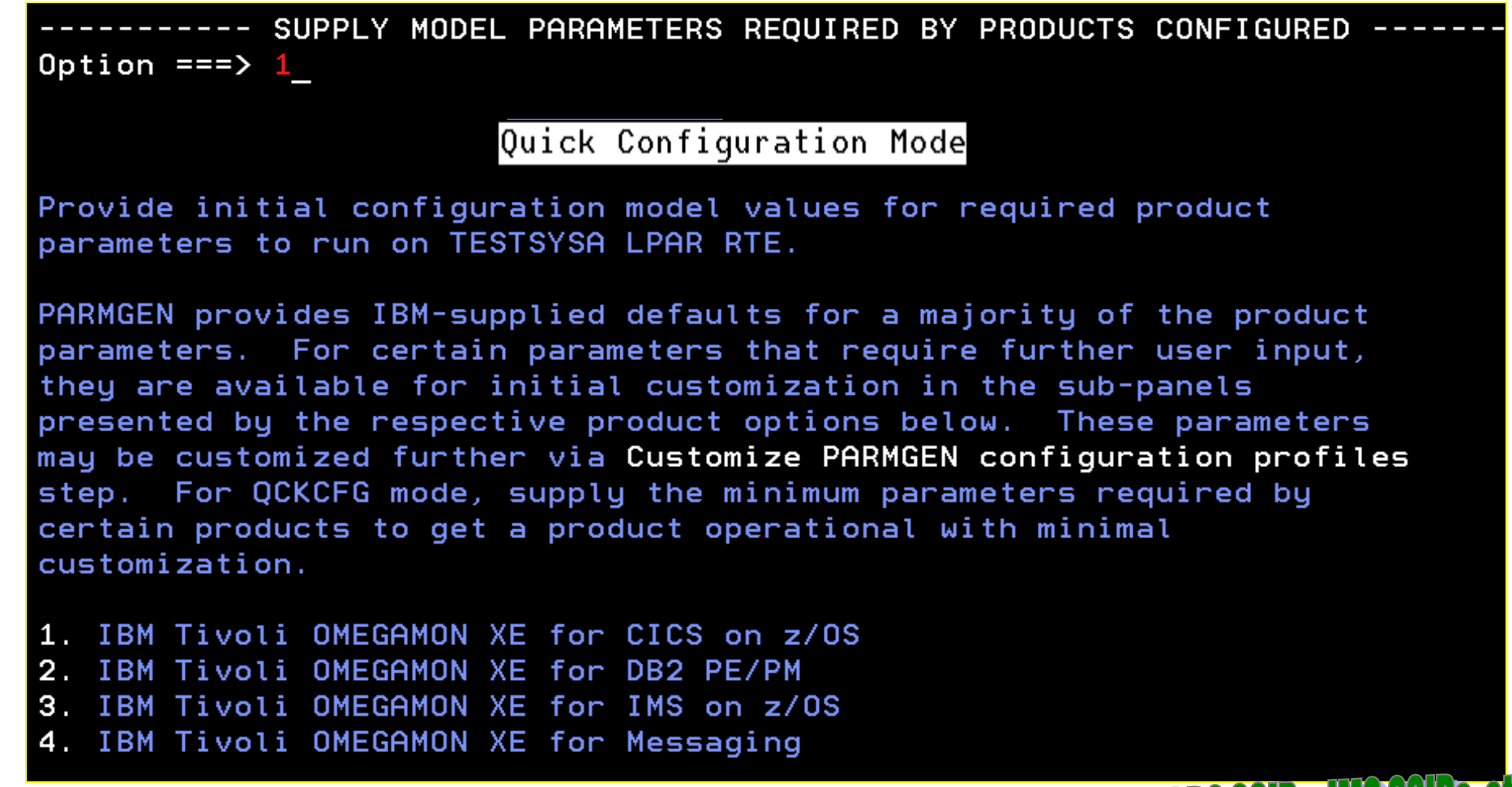
FTU Phase1: Based on product selections, consider presenting app-specific model parms: for CICS regions, DB2 SSIDs, IMS SSIDs, etc.

Step 1. KCIJPCFG Job: Set up PARMGEN work environment – "KCIJPPRF" profile refresh enhance



Not applicable for a brand new RTE but is very useful for reconfiguring an RTE to refresh the RTE profile automatically.

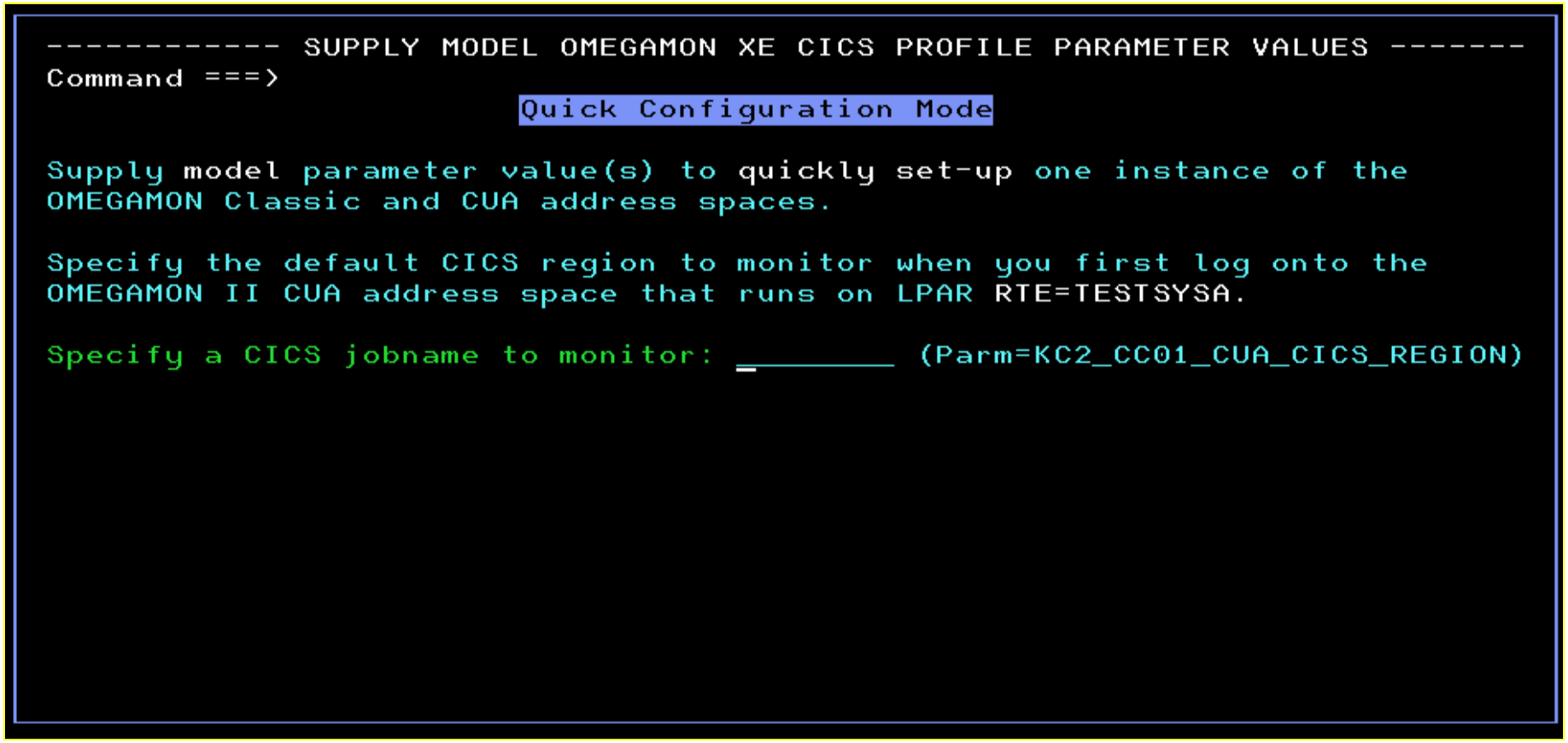
Step 1. KCIJPCFG Job: Set up PARMGEN work environment



FTU Phase2:

Proposed new app-specific model parms. panel for CICS regions, DB2 SSIDs, IMS SSIDs, etc. for products that require certain values (those that cannot be autodiscovered nor defaulted)

Step 1. KCIJPCFG Job: Set up PARMGEN work environment



Proposed:

If OMXE CICS R&D group has APIs we can redrive to inquire the CICS region repository to pre-populate these values OOTBox, we can provide better defaults on this panel.

FTU Phase2:

Step 1. KCIJPCFG Job: Set up PARMGEN work environment

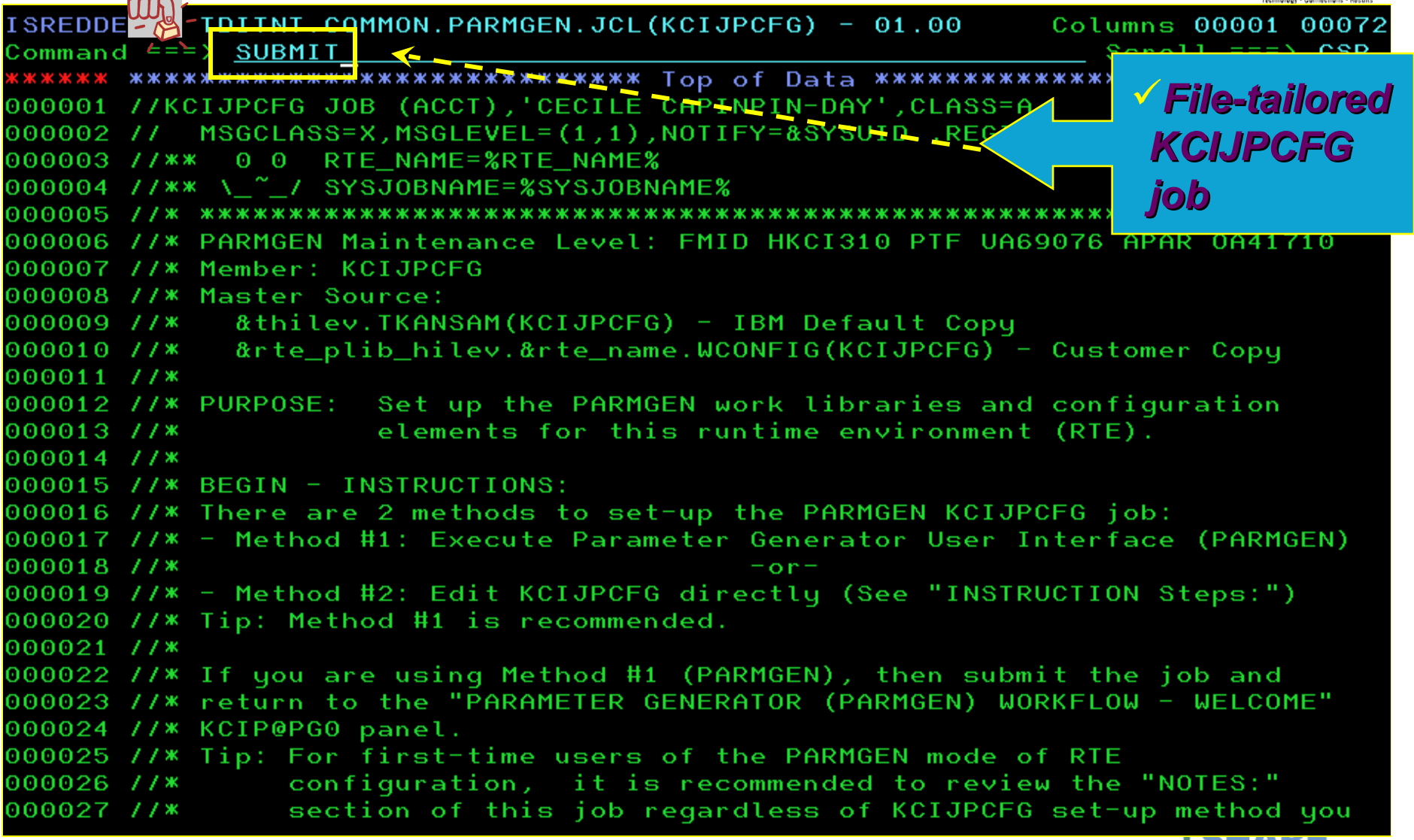
```
------------ SUPPLY MODEL OMEGAMON XE DB2 PROFILE PARAMETER VALUES --------
Command ===>
                          Quick Configuration Mode
Supply model parameter values to quickly set-up 1 or 2 DB2 SSIDs to monitor

DB2 load libraries (Parm=GBL_DSN_DB2_LOADLIB_V&vv):
  DB2 version 10    _____________________________________________________
  DB2 version 11    _____________________________________________________

DB2 run libraries  (Parm=GBL_DSN_DB2_RUNLIB_V&vv):
  DB2 version 10    _____________________________________________________
  DB2 version 11    _____________________________________________________

DB2 exit library   (Parm=GBL_DSN_DB2_DSNEXIT):
  DB2 exit library  _____________________________________________________

Default DB2 subsystem ID/version  (Parm=KD2_DB0n_DB2_SSID/KD2_DB0n_DB2_VER)
  DB2 subsystem ID (DB01) ____     DB2 version of DB01  __   (10,11)
  DB2 subsystem ID (DB02) ____     DB2 version of DB02  __   (10,11)

Number of DB2 subsystems monitored in this LPAR RTE      __   (1-32)
```

Proposed:

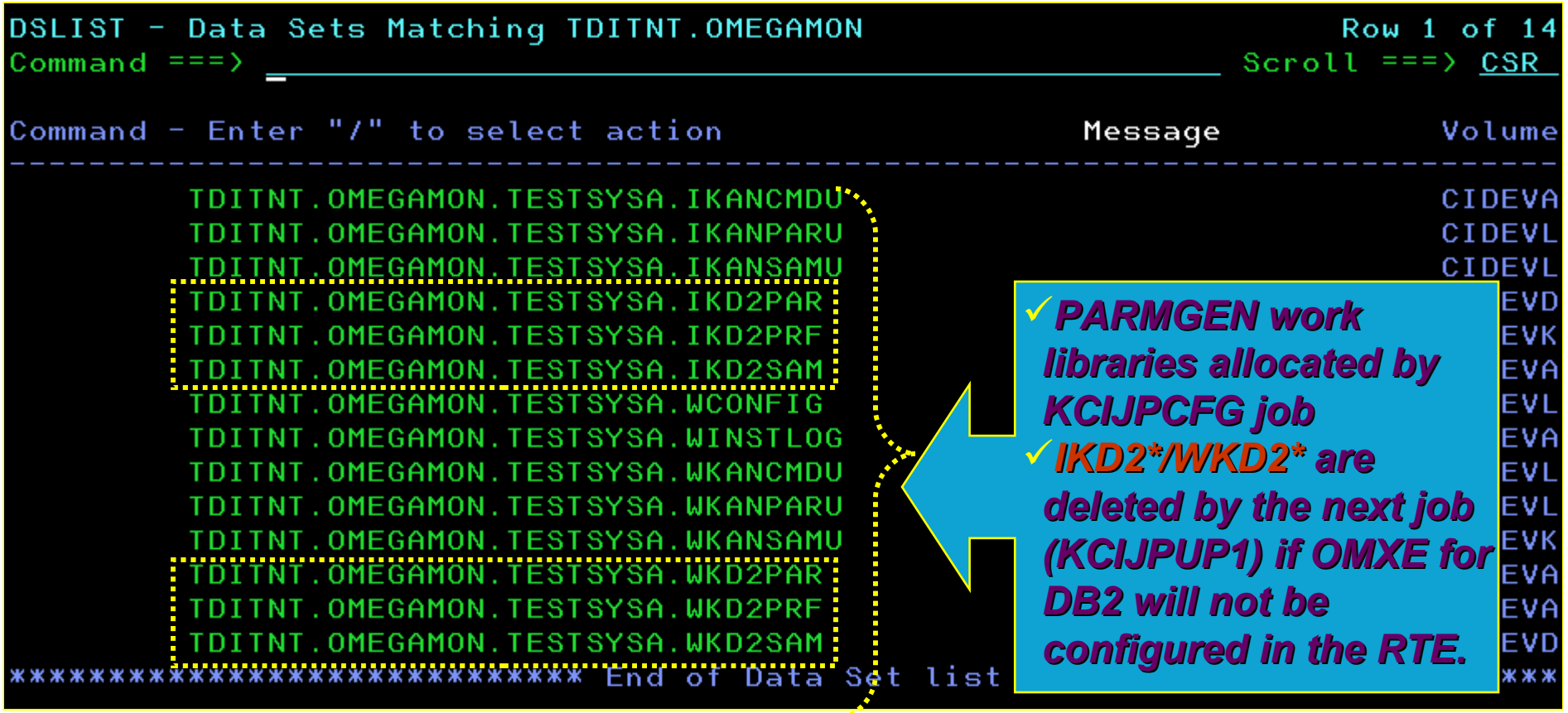
If OMXE DB2 R&D group has APIs we can redrive to inquire the DB2 SSID repository to pre-populate these values OOTBox, we can provide better defaults on this panel.

FTU Phase2:

Step 1. KCIJPCFG Job: Set up PARMGEN work environment



Step 1. KCIJPCFG Job: Set up PARMGEN work environment

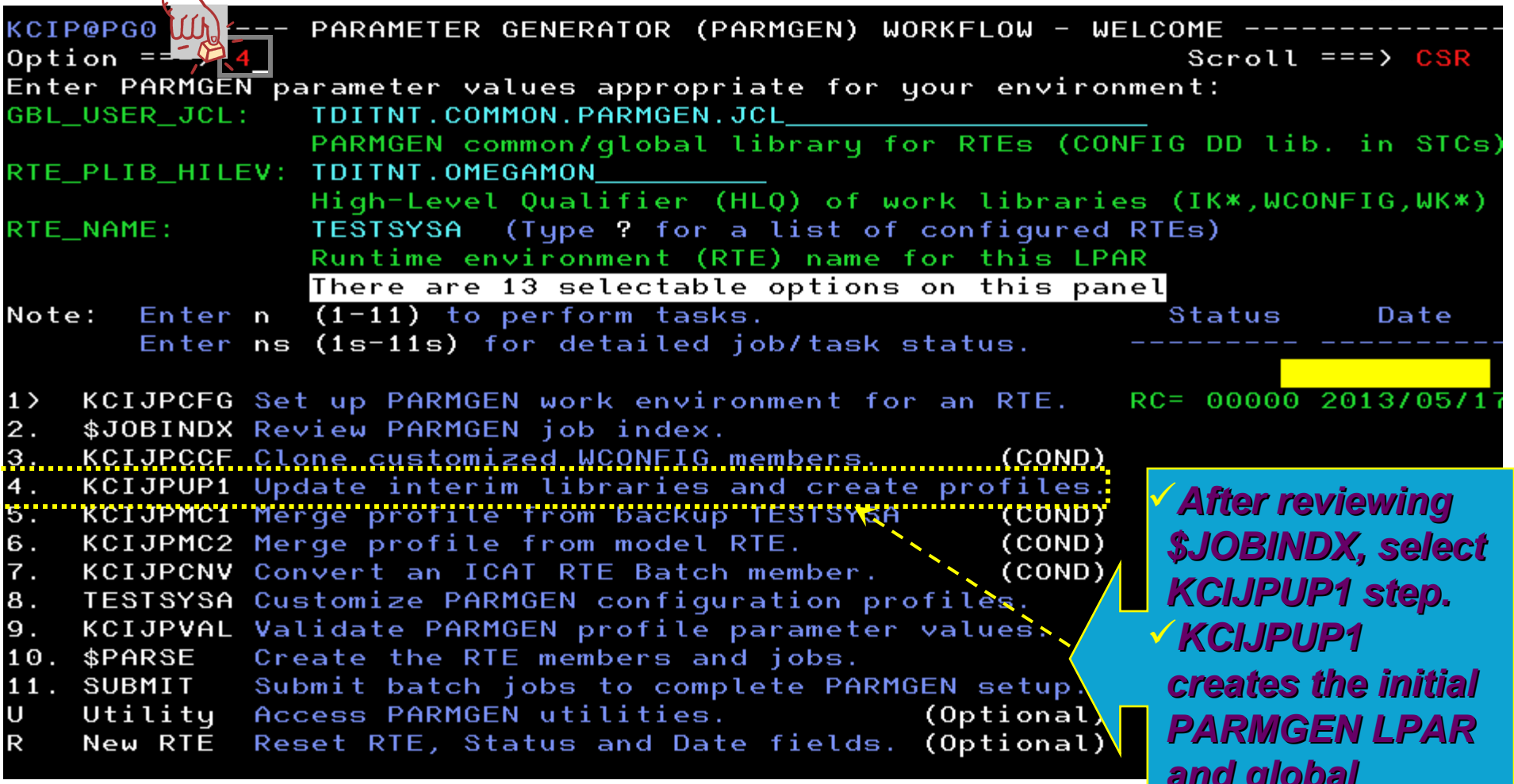


- ✓ *PARMGEN work libraries allocated by KCIJPCFG job*
- ✓ *IKD2*/WKD2* are deleted by the next job (KCIJPUP1) if OMXE for DB2 will not be configured in the RTE.*

PARMGEN RTE Life Cycle:

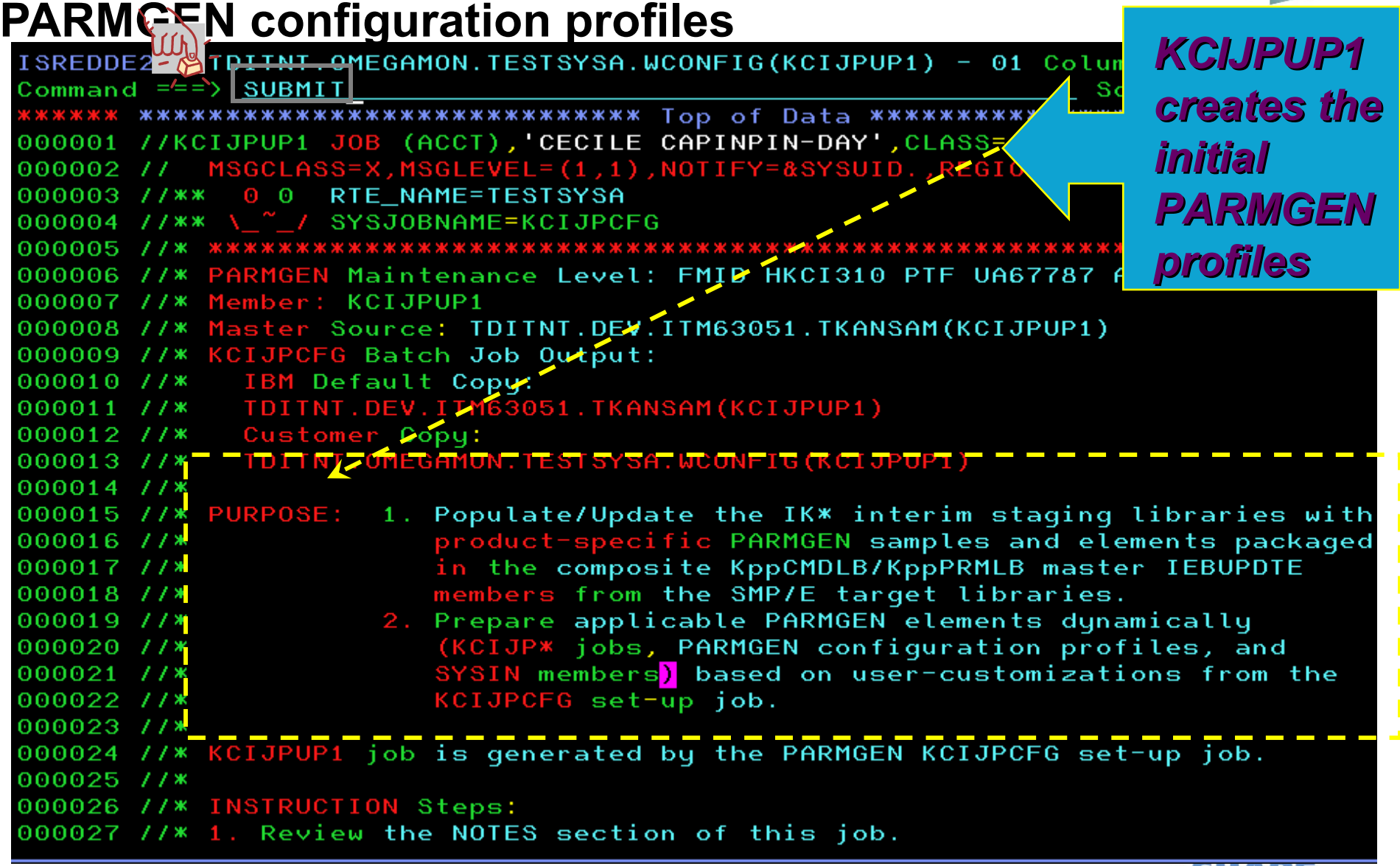
Step 2. KCIJPUP1 Job: Update interim libraries and create PARMGEN configuration profiles.

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



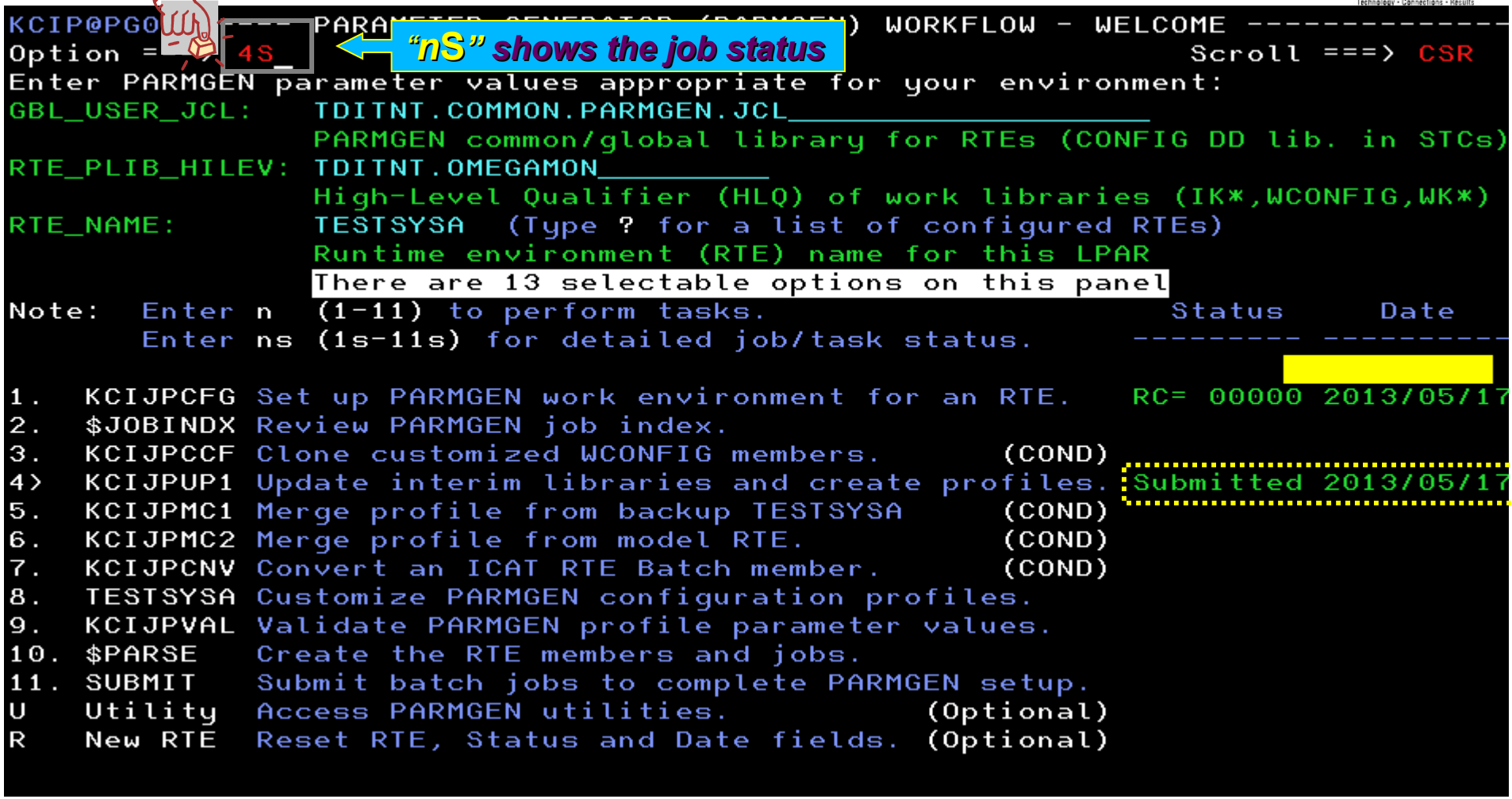
- ✓ *After reviewing $JOBINDX, select KCIJPUP1 step.*
- ✓ *KCIJPUP1 creates the initial PARMGEN LPAR and global profiles*

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



KCIJPUP1 creates the initial PARMGEN profiles

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



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

```
KCIP@PGS -------- PARAMETER GENERATOR USER INTERFACE -- STATUS --------------
COMMAND ===> _

                                                        SCROLL ===> CSR

Detailed status for task: KCIJPUP1

Status:                 RC= 00000 2013/05/17
JES Jobname/Job#:       KCIJPUP1/J21247
Submit date/time        2013/05/17 08:03:56
Job end date/time:      2013/05/17 08:04:36
Job highest RC:         00000
```

Job Logger step in every PARMGEN job records the status

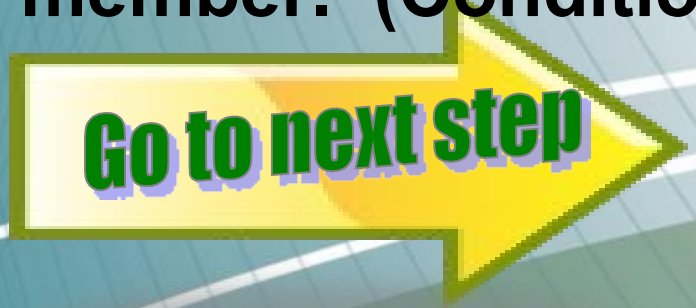
```
ISREDDE2   TDITNT.OMEGAMON.TESTSYSA.WCONFIG(KCIJPUP1) - 01 Columns 00001 0
Command ===> _____________________________________________ Scroll ===>
002282 //* ************************************************************
002283 //* KCIJPUP1 Job Logger Step:
002284 //* Capture the step condition codes of this KCIJPUP1 job in
002285 //* TDITNT.OMEGAMON.TESTSYSA.WINSTLOG.
002286 //* TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(KCIJ%IVP)
002287 //* IVP job uses the data in WINSTLOG to generate the IVP report
002288 //* TDITNT.OMEGAMON.TESTSYSA.WCONFIG($IVPRPT).
002289 //* ************************************************************
002290 //KCIJPUP1 EXEC PGM=IKJEFT1A,REGION=0M,DYNAMNBR=99,COND=EVEN
002291 //SYSPROC  DD DISP=SHR,
002292 //         DSN=TDITNT.DEV.ITM63051.TKCIINST
002293 //STEPLIB  DD DISP=SHR,
002294 //         DSN=TDITNT.DEV.ITM63051.TKANMOD
002295 //SYSTSPRT DD SYSOUT=*
002296 //SYSPRINT DD SYSOUT=*
002297 //SYSTSIN  DD *
002298 KCIRJLOG +
002299 JOBLOG(+
       TDITNT.OMEGAMON.TESTSYSA.WINSTLOG) +
       JOBJCL(+
       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(KCIJPUP1)) +
       KCIOJLOG(TDITNT.DEV.ITM63051.TKCIINST(KCIOJLOG))
002304 /*
****** ***************************** Bottom of Data ***********************
```

- ✓ *Joblogger step writes into WINSTLOG seq.*
- ✓ *PARMGEN reads WINSTLOG to generate the $IVPRPT IVP report*

PARMGEN RTE Life Cycle:

Step 3.

- **KCIJPCCF Job: Clone customized WCONFIG profiles.**
- **KCIJPMCn Jobs: Merge profile parameters from backup/model profiles**
- **KCIJPCNV Job: Convert an ICAT RTE Batch member. (Conditional)**



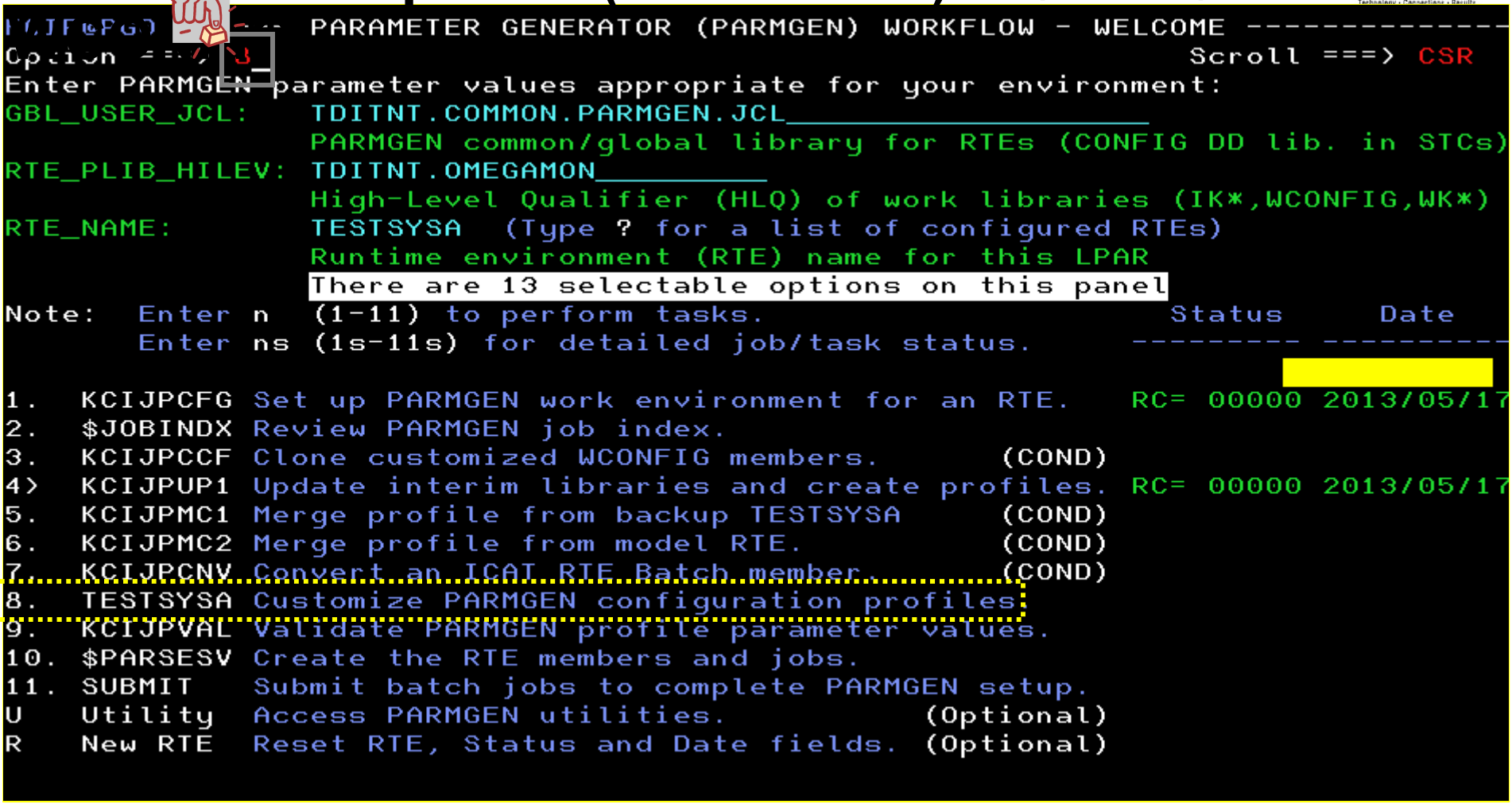
N/A for TESTSYSA new PARMGEN RTE

PARMGEN RTE Life Cycle:

Step 4. Customize PARMGEN configuration profiles

1. LPAR-specific profile (WCONFIG(RTE_NAME))
2. Global profile (WCONFIG(GBLUSR))
3. System variables RTE profile (GBL_USER_CL(RTE_NAME))

Step 4. Customize PARMGEN configuration profiles: LPAR profile (TESTSYSA) & GBLUSR in

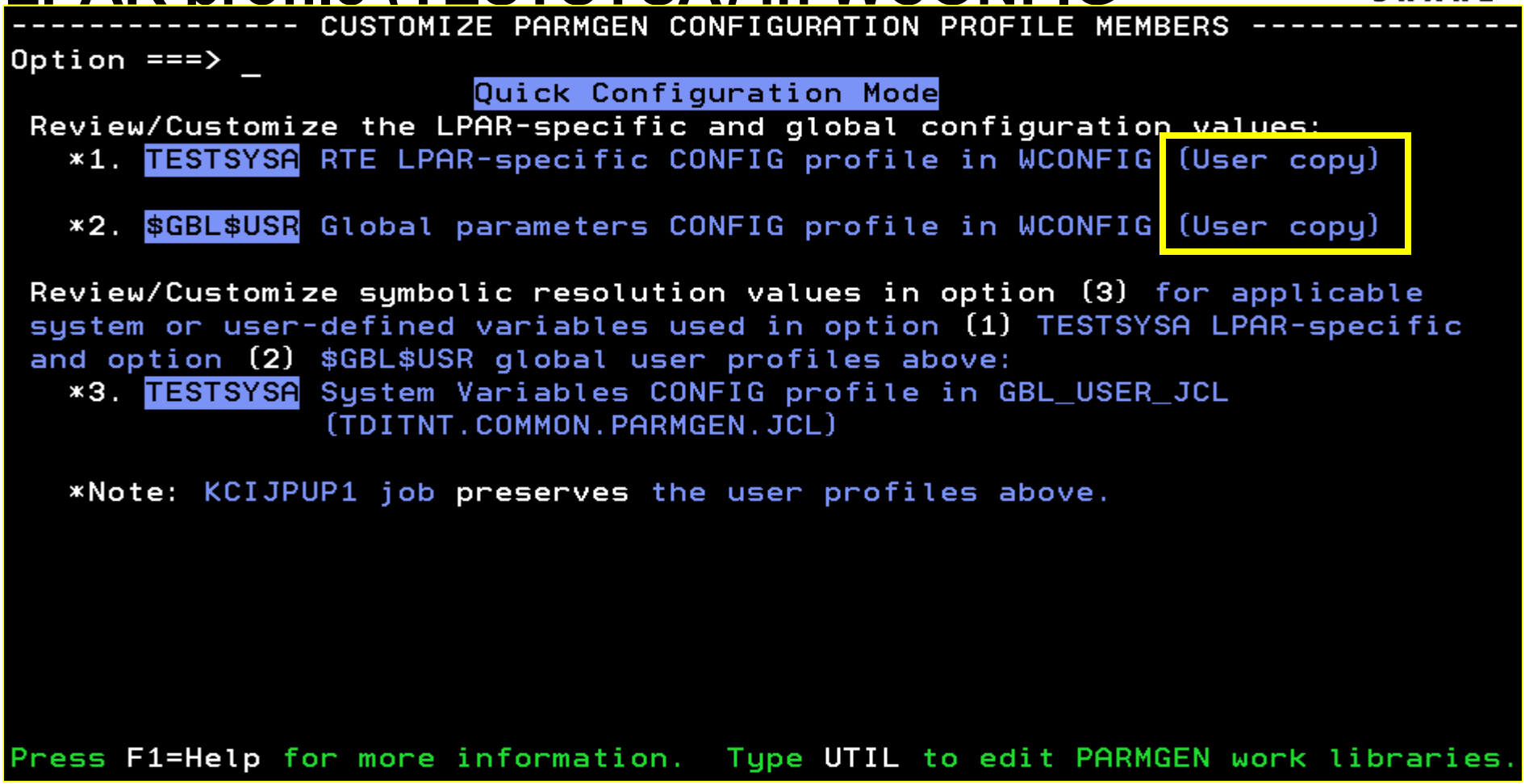


Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG

```
--------------- CUSTOMIZE PARMGEN CONFIGURATION PROFILE MEMBERS -------------
Option ===> _
                          Quick Configuration Mode
 Review/Customize the LPAR-specific and global configuration values:
   *1. TESTSYSA RTE LPAR-specific CONFIG profile in WCONFIG (User copy)

   *2. $GBL$USR Global parameters CONFIG profile in WCONFIG (User copy)

 Review/Customize symbolic resolution values in option (3) for applicable
 system or user-defined variables used in option (1) TESTSYSA LPAR-specific
 and option (2) $GBL$USR global user profiles above:
   *3. TESTSYSA System Variables CONFIG profile in GBL_USER_JCL
               (TDITNT.COMMON.PARMGEN.JCL)

   *Note: KCIJPUP1 job preserves the user profiles above.

 (Reference) IBM-supplied default profiles (refreshed by KCIJPUP1 job):
    4. $CFG$IBM RTE LPAR-specific CONFIG profile in WCONFIG (IBM copy)
    5. $GBL$IBM Global parameters CONFIG profile in WCONFIG (IBM copy)
    6. $SYSIN   $PARSE/$PARSESV SYSIN controls (CONFIG/SELECT MEMBER)
 (Optional) Select option 7 for member list of the WCONFIG library:
    7. WCONFIG  TDITNT.OMEGAMON.TESTSYSA.WCONFIG
Press F1=Help for more information.  Type UTIL to edit PARMGEN work libraries.
```

Minimal updates are usually needed as a number of values were inherited from the KCIJPCFG set-up panel.

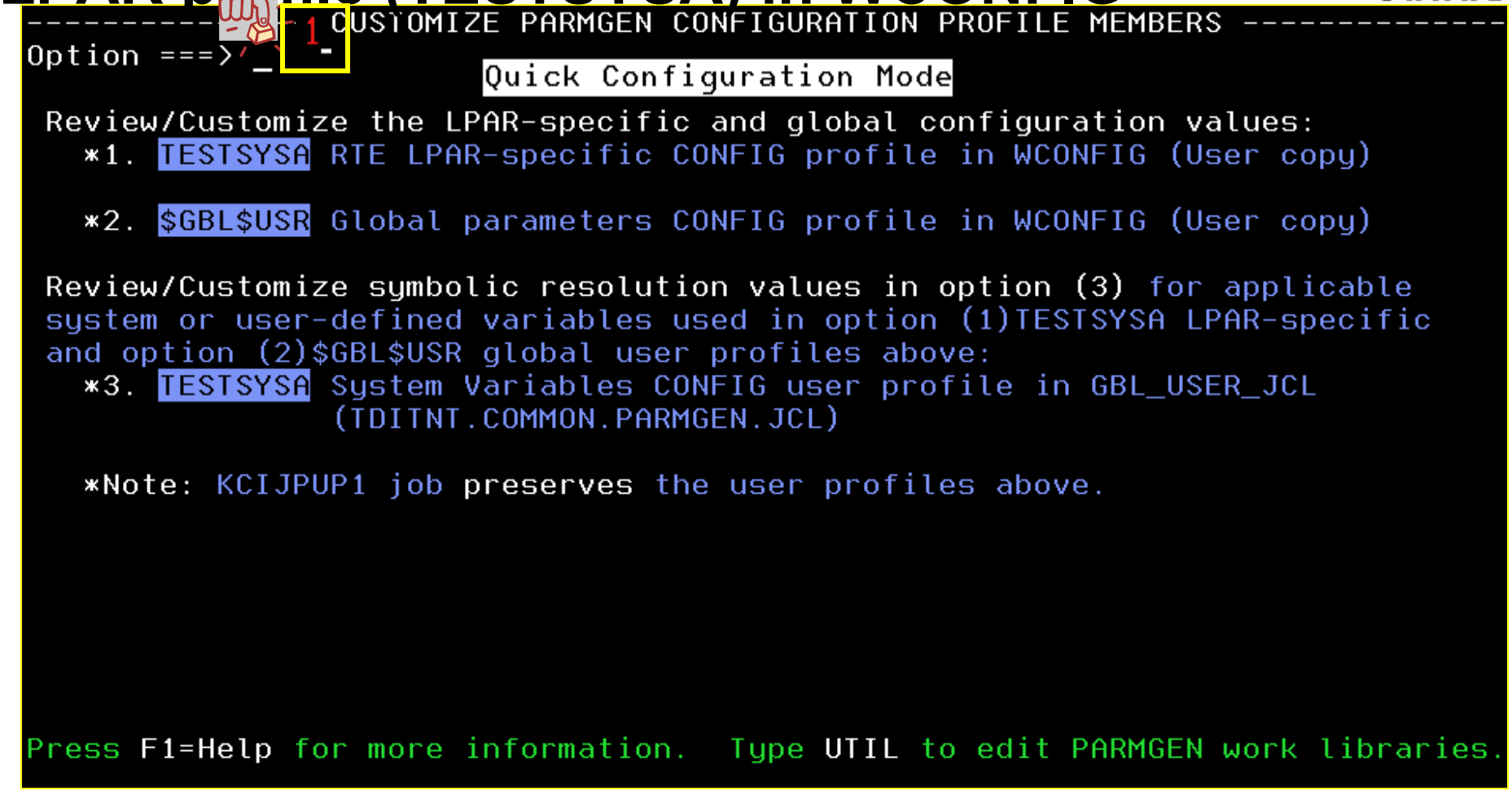
Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG



FTU Phase1:

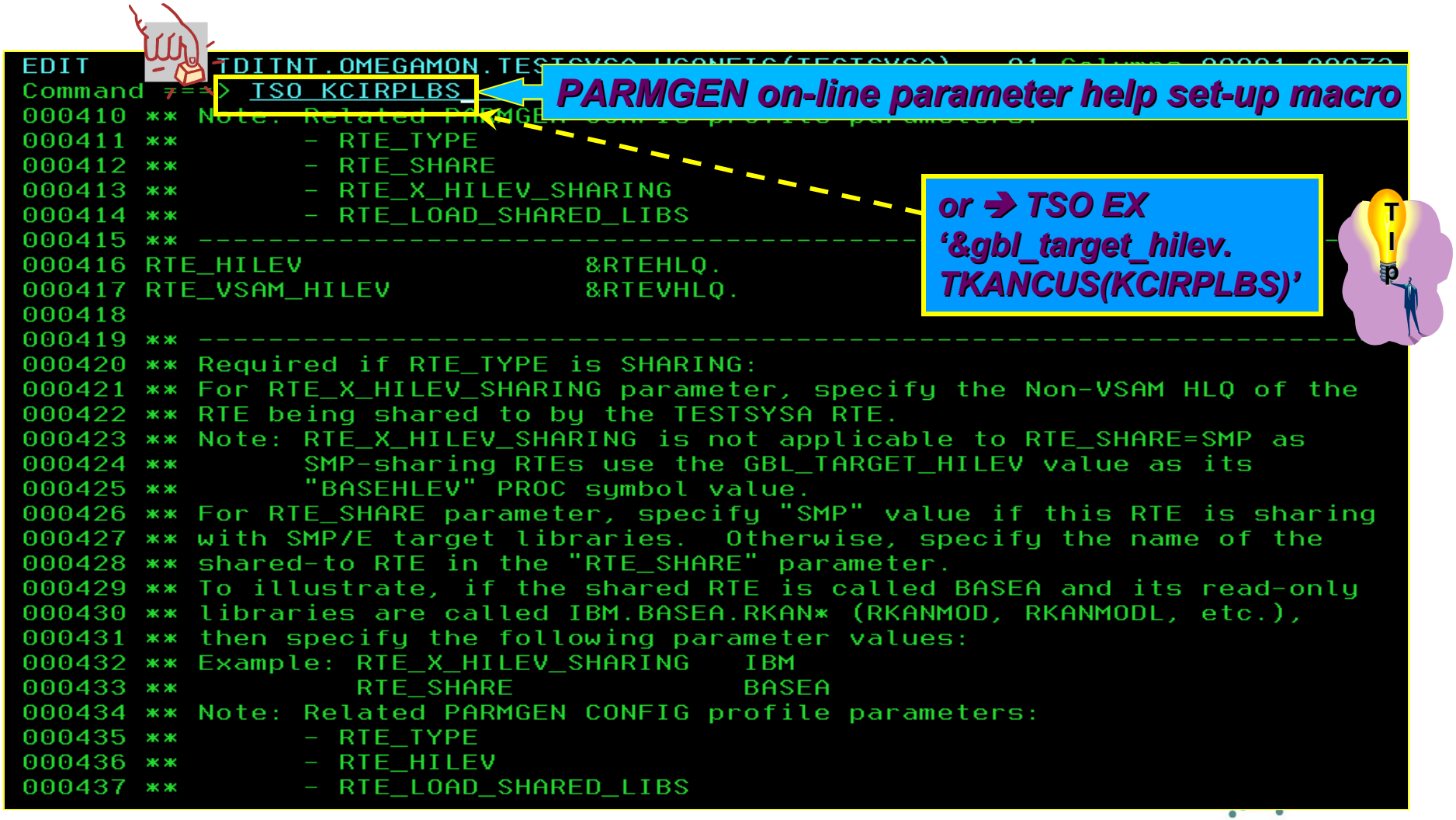
Update: "(Reference)" section (IBM-supplied profiles) and "7. WCONFIG" edit will be hidden based on feedback.

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG



Next, select option 1 to further edit the product parameters in the PARMGEN configuration profiles for the products being configured (for example, do I want to enable certain functions?)

Step 4. Customize PARMGEN configuration profile. LPAR profile (TESTSYSA) in WCONFIG



Step 4. Customize PARMGEN configuration profile. LPAR profile (TESTSYSA) in WCONFIG

```
KCIPPLBS -------- KCIRPLBS SETUP ROUTINE ---------------
COMMAND ===>

 Enter the GBL_TARGET_HILEV SMP/E target high-level
 qualifier (HLQ):
 Target HLQ ==> TSTEST.ITM62351

 If using KEYLISTs, enter "KEYLIST OFF" command

 F3=Back (Cancel)
```

Turn KEYLIST OFF to view the helps

Also check out the common Parameter Reference guide

```
KCIPPLBS -------- KCIRPLBS SETUP ROUTINE ---------------
COMMAND ===>

{RTE_USS_RTEDIR} - RTE HFS/zFS home directory

 If any products in this RTE require Unix System Services (USS)
 directories be created, specify the RTE HFS/zFS home directory
 (#rtedir):  Notes:

 The RTE_USS_RTEDIR parameter is required if you are enabling
 the Self-Describing Agent (SDA) functionality in the z/OS TEMS
 and Agents.  SDA is applicable to Tivoli Management Services
 V6.2.3 and higher versions.

 Product configuration USS jobs that use the RTE_USS_RTEDIR
 home directory parameter must be run by a user ID that has
 superuser authority (UID=0) or read access to resource
 BPX.SUPERUSER under the FACILITY profile and superuser
 authority must be activated.
```

Press F14=ParmHelp to display the help. Or view the KppAHELP PARMGEN help members in '&gbl_target_hilev. TKANCUS library.

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – RTE_* global RTE parms.

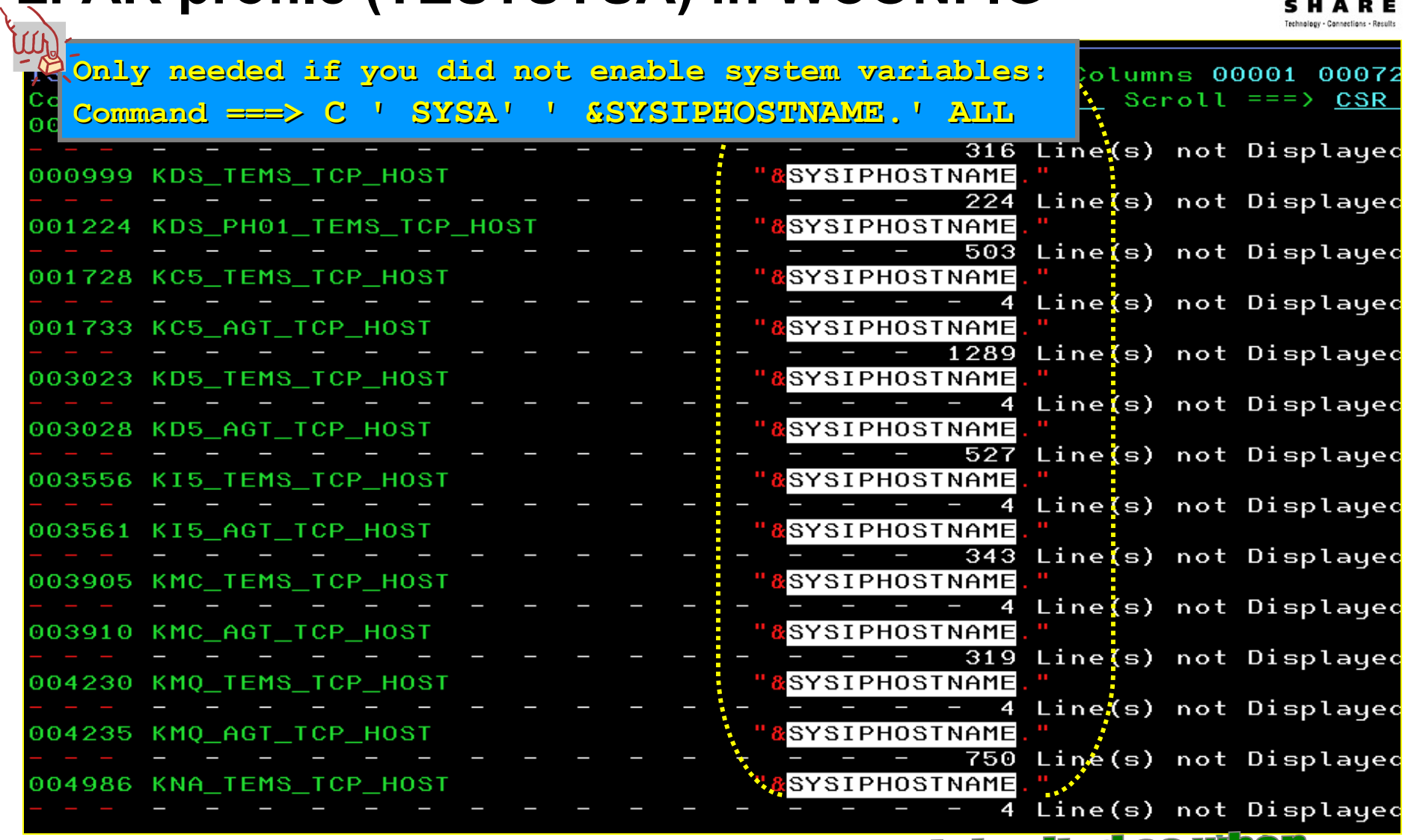
Step 4: Next series of slides -- Sample PARMGEN CONFIG Overrides (IBM-supplied defaults are provided)

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA) - 01 Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000365 ** ------------------------------------------------------------------
000366 RTE_NAMESV                  TESTSYSA
000367
000368 ** ------------------------------------------------------------------
000369 ** Runtime environment (RTE) settings:
000370 ** Specify the name of the RTE in the RTE_NAME paramet
000371 ** is not enabled for System Variables (RTE_SYSV_SYSNA
000372 **
000373 RTE_NAME                   TEST&SYSNAME._
000374
000375 RTE_DESCRIPTION           "&SYSNAME. LPAR"
000376
000377 ** ------------------------------------------------------------------
000378 ** Type of RTE:
000379 ** There are two main types of RTEs in PARMGEN mode:
000380 ** FULL     - Allocates Image-specific and Base libraries.
000381 ** SHARING - Allocates Image-specific libraries and shares Base
000382 **             libraries with another RTE or SMP/E target libraries.
000383 ** Note: Related PARMGEN CONFIG profile parameters:
000384 **         - RTE_HILEV
000385 **         - RTE_VSAM_HILEV
000386 **         - RTE_SHARE
000387 **         - RTE_X_HILEV_SHARING
000388 **         - RTE_LOAD_SHARED_LIBS
000389 **
000390 RTE_TYPE                   SHARING
000391
000392 ** ------------------------------------------------------------------
```

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

Already set to "SHARING"

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG



PARMGEN-extracted system symbols are inherited so when system values change, you do not need to reconfigure the RTE.

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)          CHARS '&' fou
Command ===> _____________________________________________ Scroll ===> CS
000734 ** 9. Related PARMGEN CONFIG profile parameters (for SDA):
000735 **         - GBL_HFS_JAVA_DIRn      (typically in WCONFIG($GBL$USR))
000736 **         - GBL_DSN_SYS1_SBPXEXEC (typically in WCONFIG($GBL$USR))
000737 **         - RTE_USS_RTEDIR
000738 **         - RTE_USS_MKDIR_MODE
000739 **         - KDS_KMS_SDA
000740 **         - KDS_TEMA_SDA
000741 **         - Kpp_AGT_TEMA_SDA (per Kpp Agent exploiting SDA)
000742 ** ------------------------------------------------------------------
000743 RTE_USS_RTEDIR                        "&RTE_USS_RTEDIR."
000744 RTE_USS_MKDIR_MODE                   "777"
000745
000746 ** ------------------------------------------------------------------
000747 ** Persistent Datastore (PDS) settings for
000748 ** xKANPARU(KppPCTL), xKANPARU(KppPG), xKANPARU(KppDEFIN) and
000749 ** xKANPARU(KppAL) Persistent Datastore control member options.
000750 ** KppPCTL is referenced in the RKPDIN DDNAME of product started
000751 ** tasks enabled for PDS historical collection:
000752 ** Note: Related PARMGEN CONFIG profile parameters:
000753 **         - Kpp_PD_*
000754 **         - Kpp_X_PD_HISTCOLL_DATA_*
000755 ** ------------------------------------------------------------------
000756 RTE_PDS_HILEV                  &RTEHLQ..TEST&SYSNAME.
000757 RTE_PDS_KPDPROC_PREFIX TIVPD
000758 RTE_PDS_BATCHINIT_FLAG              N          * TIVPD1 MAINTPRC option
000759 RTE_PDS_BACKUP_FLAG                N          * xKANPARU(KppPG) option
000760 RTE_PDS_EXPORT_FLAG                N          * xKANPARU(KppPG) option
000761 RTE_PDS_EXTRACT_FLAG               N          * xKANPARU(KppPG) option
```

FTU Phase1:

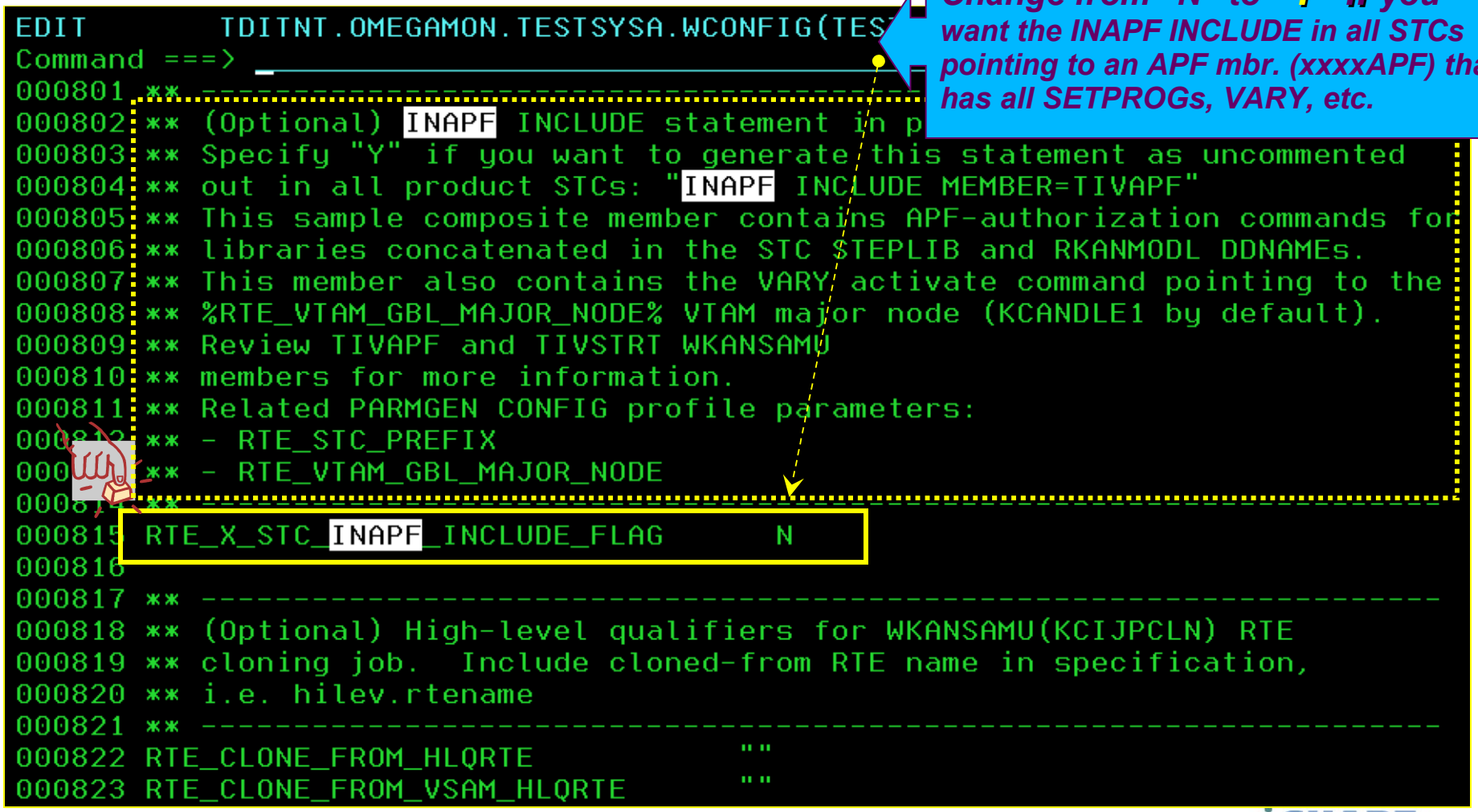
Proposed: Add'l generic user-defined symbols will be supplied so when startup values change, you do not need to reconfigure the RTE.

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – RTE_* System Variables parms.

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA) CHARS 'RTE_X_SYSV_OVERRI
Command ===> _____________________________________________ Scroll ===> CSR
000334 ** ------------------------------------------------------------------
000335 ** Specify "Y" if you are using symbolics as parameter values.
000336 ** ------------------------------------------------------------------
000337 RTE_SYSV_SYSVAR_FLAG     Y
000338
000339 ** ------------------------------------------------------------------
000340 ** If RTE_SYSV_SYSVAR_FLAG=Y:
000341 ** If you are using symbolics for PARMGEN parameters like RTE_NAME
000342 ** and RTE_HILEV, these symbolics are used directly in PARMGEN batch
000343 ** jobs created by $PARSESV in the WKANSAMU libraries.  If these are
000344 ** static system symbols (&SYSNAME., &SYSCLONE., etc.) or KCIPARSE
000345 ** extracted symbols (&SYSIPHOSTNAME., &SYSVTAMNETID.) that resolve to
000346 ** different values on each LPAR, rather than user-defined symbols you
000347 ** can control via TDITNT.COMMON.PARMGEN.JCL(TESTSYSA)
000348 ** LPAR System Variables resolution member, the PARMGEN process
000349 ** assumes you plan to submit the WKANSAMU(KCIJV*) jobs in the system
000350 ** where the symbolics resolve.  You have the option to override the
000351 ** system symbols locally so you can complete the RTE set-up in the
000352 ** local system rather than the target system you intend to deploy the
000353 ** runtime libraries.  Specify "Y" if you want to override the symbol
000354 ** values by defining the symbols and their resolved values in the
000    ** TDITNT.COMMON.PARMGEN.JCL(TES
000    ** user JCL (similar process whe
000357 ** ------------------------------
000358 RTE_X_SYSV_OVERRIDE_SYMBOLS
```

Ideal for preparing the RTEs ahead of time! Customized on KCIP@PG3 KCIJPCFG set-up panel. "Y" value is ideal if you want to create the RTE libs./jobs in the local system (not the target system where the symbols resolve)

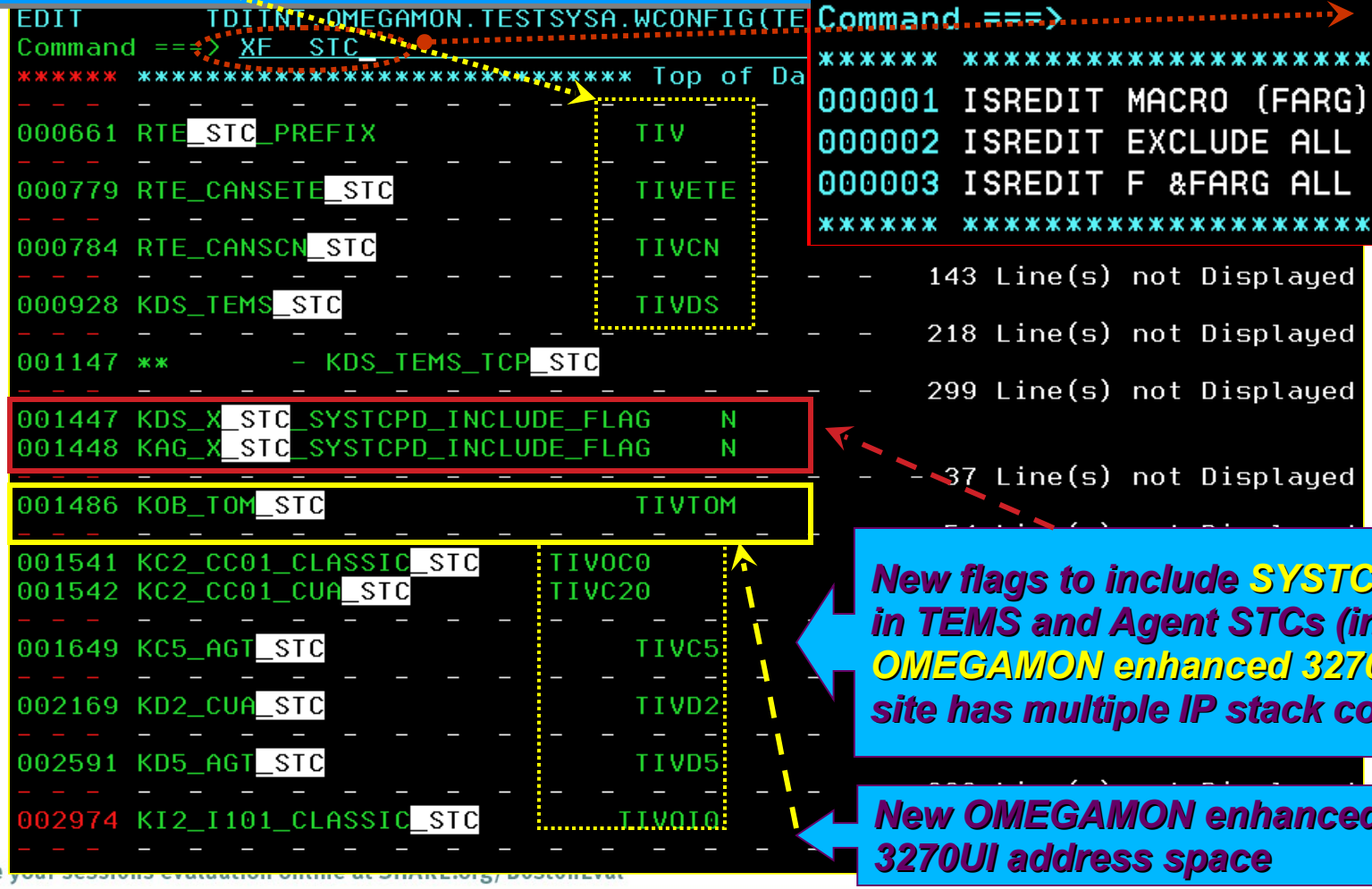
Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – RTE_* global RTE parms.

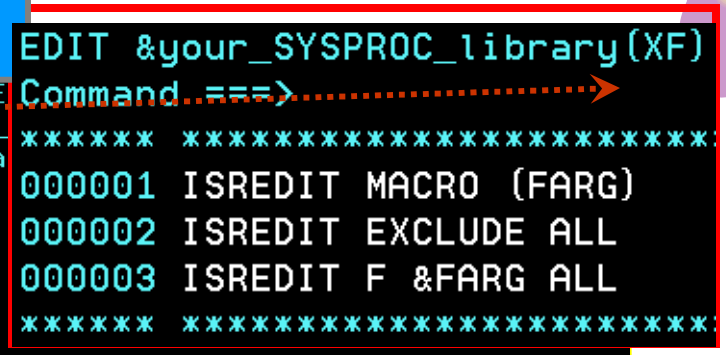


Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – *_STC

If reconfiguring (RTE profile already built):

Command => C '_TIV' ' &newstcpfx' ALL

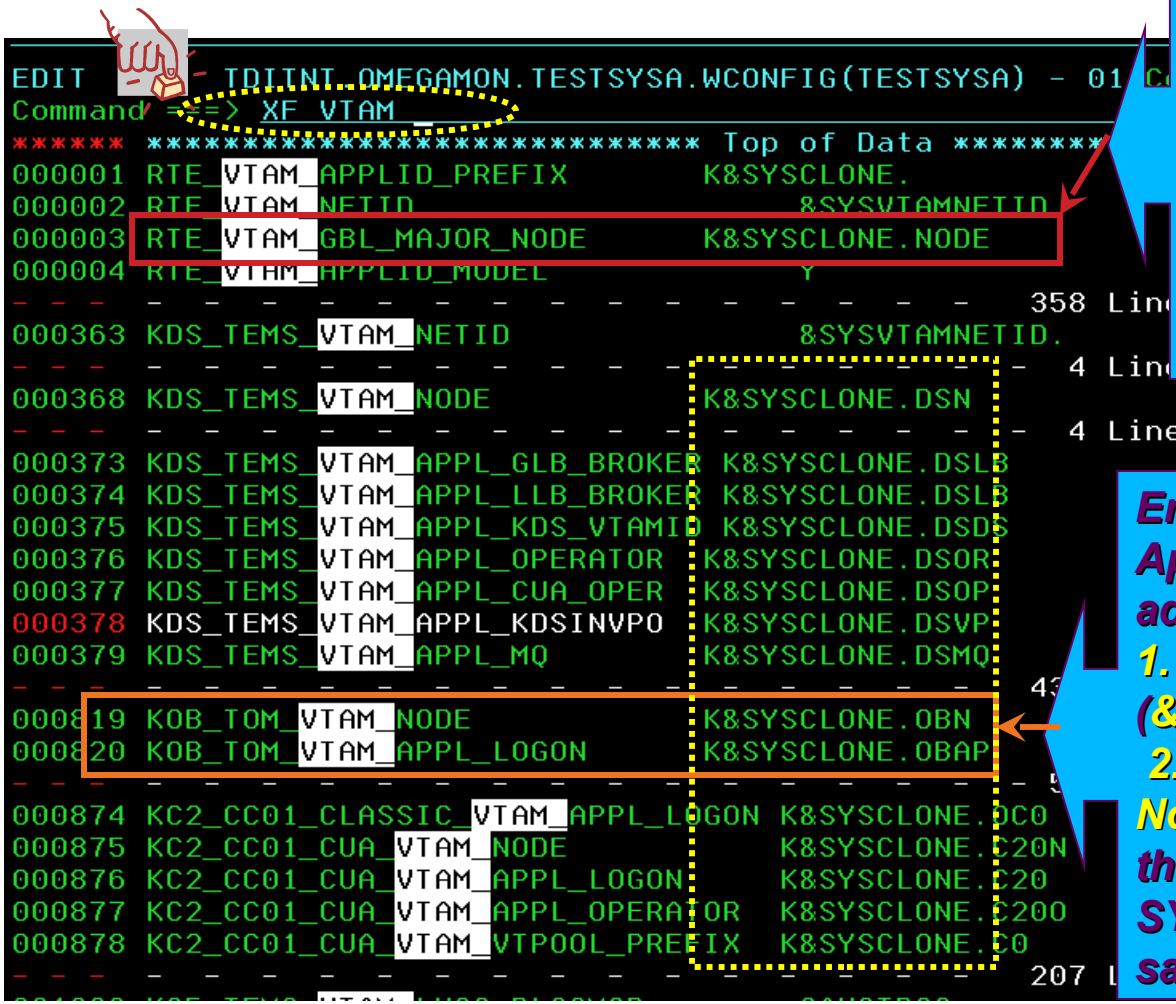




New flags to include SYSTCPD DD in TEMS and Agent STCs (including OMEGAMON enhanced 3270UI) if site has multiple IP stack config.

New OMEGAMON enhanced 3270UI address space

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – *_VTAM_APPL_* parms.



✓*PARMGEN creates it with symbolics in this TESTSYSA RTE. Same global VTAM major node member can be copied to other LPAR's VTAMLST without change.*

✓*If adding a new component use the app-specific major node until the global node can be updated with the VTAM APPL*

Enhanced 3270UI VTAM Applid. VTAM logon definition is added to both WKANSAMU mbrs.:
1. global VTAM major node (&rte_vtam_pfx.NODE by default)
2. enhanced 3270UI VTAM major Node; KSAOBN in this example assuming SYSCLONE=SA in TESTSYSA sample RTE)

Step 4. Customize PARMGEN configuration profile. LPAR profile (TESTSYSA) in WCONFIG – KDS_* TEMS parms. (SDA)

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA) - 01 Colu
Command ===> _
001274 ** ------------------------------------------------------
001275 ** Enable TEMS Self-Describing Agent (SDA) processing:
001276 ** This is required if you are enabling the Self-Describi
001277 ** Agent (SDA) functionality in the z/OS TEMS and Agents:
001278 ** Note:  By default, the TEMS KMS_SDA xKANPARU(KDSENV) parameter is:
001279 ** - initially disabled @ the Hub TEMS     (KMS_SDA=N)
001280 ** - initially enabled  @ the Remote TEMS (KMS_SDA=Y)
001281 ** Customize the parameter accordingly by uncommenting out the
001282 ** parameter and specifying the applicable value.
001283 ** Related PARMGEN CONFIG profile parameters:
001284 **       - GBL_HFS_JAVA_DIRn      (typically in WCONFIG($GBL$USR))
001285 **       - GBL_DSN_SYS1_SBPXEXEC  (typically in WCONFIG($GBL$USR))
001286 **       - RTE_USS_RTEDIR
001287 **       - RTE_USS_MKDIR_MODE
001288 **       - KDS_KMS_SDA
001289 **       - KDS_KMS_SDA_NO_GRANULAR (applicable to ITM6.3.0+ only)
001290 **       - KDS_TEMA_SDA
001291 **       - Kpp_AGT_TEMA_SDA (per Kpp Agent exploiting SDA)
001292 ** ------------------------------------------------------
001293 *KDS_KMS_SDA                    "Y"              * KMS_SDA=x
001294
001295 ** ------------------------------------------------------
001296 ** (Conditional) Retain current behavior of no granular SDA security
001297 ** controls (ITM6.2.3 behavior) in an ITM6.3.0 upgrade scenario:
001298 ** Starting with ITM6.3.0, the Hub TEMS blocks
001299 ** Self-Describing Agent (SDA) application dat
001300 ** versions to be installed are specified
001301 ** interface.  SDA enablement on z/OS-based
```

*PARMGEN profile provides clearer **Parameter Mapping** for profile parms. ("Where does it get written in?")*

Don't forget to set other SDA-related parameters (required if SDA is on)

*Enable KDS_KMS_SDA at the Remote TEMS by **uncommenting** out the KDS_KMS_SDA parameter*

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KDS_* TEMS parms. (SDA, Audit, DRA)

```
000945 ** Agent Self-Description processing in TEMS:
000946 ** Note:  By default, the TEMA_SDA KDSENV parameter is:
000947 ** - initially enabled @ the TEMS (TEM
000948 KDS_TEMA_SDA                                    Y
```

Benign enabled setting: "KRAA001 Ignoring TEMA_SDA Configuration" msg. in RKLVLOG if Agents running in TEMS do not exploit SDA (yet).

```
000952 ** Specify M=Minimum, B=Basic, D=Detail or X=Disa
000953 ** disable z/OS SMF output (z/Secure).  The value you specify on the
000954 ** KDS_AUDIT_TRACE parameter generates an AUDIT_TRACE parameter in
000955 ** KDSENV.  If AUDIT_TRACE is not specified, AUDIT_TRACE=BASIC is the
000956 ** internal code default.
000957 *KDS_AUDIT_TRACE                    "B"              * M, B, D, or X
000958 ** Specify the maximum entries in the in-memory c
000959 ** queries.  Valid values range from 10 to 1000
000960 ** on the KDS_AUDIT_MAX_HIST generates an AUDI
000961 ** in KDSENV.  If AUDIT_MAX_HIST is not specifie
000962 ** is the internal code default.
000963 *KDS_AUDIT_MAX_HIST                  100              * 10-1000
000964 ** Specify an identifier that may be used to associate audit records.
000965 ** The value you specify on the KDS_AUDIT_DOMAIN parameter
000966 ** generates an ITM_DOMAIN parameter in KDSENV
000967 *KDS_AUDIT_ITM_DOMAIN                ""
```

ITM Audit parameters: Uncomment out the if you want to enable; otherwise, take internal code default.

```
000320 ** Enable Data Retrieval Agent (DRA) in TEM
000321 ** Note: The KDS_TEMS_DRA_FLAG parameter th
000322 **       in xKANCMDU(KDSSTRT1).
000323 KDS_TEMS_DRA_FLAG                          Y
```

New OMEGAMON e3270UI flag for KOBAGENT IRAMAN DRA startup in TEMS xKANCMDU(KDSSTRT1). Flag configured as part of TEMS so it is already set-up for the Agents (e3270UI, OMXE, etc.).

Step 4. Customize PARMGEN configuration profile. LPAR profile (TESTSYSA) in WCONFIG – KDEB_INTERFACELIST

```
EDIT       TDITNT.OMEGAMON.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
```

More examples of clearer parameter names!
Uncomment the parameters to enable for TEMS and Agents if required @ site

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)
Command ===> C '!*' '&KDEB_INTERFACELIST.' ALL_                Sc
****** ********************************* Top of Data ***************
- - -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  707 Line(s)
000708 **        KDS_TEMS_TCP_KDEB_INTERFACELIST and set its val
- - -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  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 parameter values generic by specifying "&KDEB_INTERFACELIST." Later on, define what "&KDEB_INTERFACELIST." resolves to in GBL_USER_JCL (TESTSYSA) SYSV LPAR profile.

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KDS_* TEMS parms. (If this were a Remote TEMS – KDS_HUB*)

```
EDIT        TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)
Command ===> _                                          Scrol
000908 ** If the TEMS is a Remote, specify its Hub values according
000909 ** Note: The KDS_HUB_* values populate the xKANPARU(KDCSSITE
000910 **       that Remote TEMS reads to know how to connect to it
000911 KDS_HUB_TEMS_NAME_NODEID          "&KDS_HUB_TEMS_NAME_NODEID."
000912
000913 ** If the TEMS is a Remote and requires VTAM SNA support:
000914 KDS_HUB_VTAM_APPL_GLB_BROKER     "&KDS_HUB_VTAM_APPL_GLB_BRO K
000915 KDS_HUB_VTAM_NETID               "&KDS_HUB_VTAM_NETID."
000916
000917 ** If the TEMS is a Remote and requires TCP/IP support:
000918 KDS_HUB_TCP_HOST                 "&KDS_HUB_TCP_HOST."
000919
000920 ** If the TEMS is a Remote, specify port numbers of its Hub
000921 KDS_HUB_TCP_PIPE_PORT_NUM        "&KDS_HUB_TCP_PIPE_PORT_NUM.
000922 KDS_HUB_TCP_UDP_PORT_NUM        "&KDS_HUB_TCP_UDP_PORT_NUM."
000923 KDS_HUB_TCP_PIPE6_PORT_NUM      ""
000924 KDS_HUB_TCP_UDP6_PORT_NUM      ""
000925 KDS_HUB_TCP_PIPES_PORT_NUM     ""
000926 KDS_HUB_TCP_PIPE6S_PORT_NUM    ""
000927
```

- ✓*Keep KDS_HUB_ parm. values generic by specifying user-defined "&KDS_HUB_*." symbolics. Later on, define what "&KDS_HUB_*." resolve to in GBL_USER_JCL (TESTSYSA) SYSV LPAR profile.*
- ✓*Change one plac when HTEMS connectivity changes in the Enterprise!*

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KDS_* TEMS parms. (KDS_X_*, KAG_X_*)

```
EDIT        TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)
Command ===> _                                        Scroll
000987 ** Additional TEMS settings:
000988 ** xKANPARU(KMSOMTEC) runtime member settings:
000989 KDS_X_TEMS_EIF_BUFFEREVENTS       YES
000990 KDS_X_TEMS_EIF_BUFEVTPATH         "./TECLIB/om_tec.cache"
000991 KDS_X_TEMS_EIF_FILTERMODE         OUT
000992 KDS_X_TEMS_EIF_FWD_EVT            N
000993 KDS_X_TEMS_EIF_FILTER_CLASS1      "ITM_Generic"
000994 KDS_X_TEMS_EIF_FILTER_ATTR1       "master_reset_flag=
000995 ** xKANPARU(KDSSYSIN) runtime member settings:
000996 KDS_X_TEMS_STORAGE_RESERVE_PRI    4096
000997 KDS_X_TEMS_WTO                    N
000998 KDS_X_TEMS_CONFIRM_SHUTDOWN       0
000999 KDS_X_TEMS_LGSA_VERIFY            Y
001000 KDS_X_TEMS_TASKS_ATTACHED_NUM     1
001001 KDS_X_TEMS_LSRPOOL_BUFSIZE1       32768
001002 KDS_X_TEMS_LSRPOOL_BUFSIZE2       8192
001003 KDS_X_TEMS_LSRPOOL_BUFSIZE3       4096
001004 KDS_X_TEMS_LSRPOOL_BUFSIZE4       1024
001005 KDS_X_TEMS_LSRPOOL_BUFFER_NUM1    12
001006 KDS_X_TEMS_LSRPOOL_BUFFER_NUM2    21
```

Popular parameters externalized in PARMGEN not avail. in ICAT. Similar customizable Kpp_X_* parms. are available in all products. (TEMS, Agents, 3270, etc.)

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KDS_* TEMS parms. (KDS_X_*, KAG_X_*)

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)
Command ===> XF _X_                                          Scro
001016 ** xKANPARU(KDSINNAM) runtime member settings:
001017 KDS_X_SECURITY_USER_EXIT                ""
001018 KDS_X_SECURITY_RESOURCE_CLASS           ""
001019 ** xKANPARU KppENV common Agent runtime member settings:
001020 KAG_X_KDE_TRANSPORT_HTTP_OPTIONS        ""
001021 KAG_X_KDE_TRANSPORT_POOL_OPTIONS        ""
001022 KAG_X_KDE_TRANSPORT_OPTIONS             ""
001023 ** xKANPARU(KDSENV) TEMS runtime member
001024 KDS_X_KDE_TRANSPORT_HTTP_OPTIONS        ""
001025 KDS_X_KDE_TRANSPORT_POOL_OPTIONS        ""
001    KDS_X_KDE_TRANSPORT_OPTIONS             ""
001    KDS_X_KDCFC_RXLIMIT                    8192
001028 ** xKANPARU(KDCSSITE) TEMS runtime member s
001029 KDS_X_HUB_BKUP1_TCP_HOST                "&STANDBY
001030 KDS_X_HUB_BKUP1_TEMS_VTAM_NETID         ""
001031 KDS_X_HUB_BKUP1_VTAM_APPL_GLBBKR        ""
001032 ** xKANSAMU TEMS and Agent started task settings:
001033 KDS_X_STC_SYSTCPD_INCLUDE_FLAG          N
001034 KAG_X_STC_SYSTCPD_INCLUDE_FLAG          N
```

Parameters to support special KDE_TRANSPORT settings: HTTPS:0, HTTP_SERVER:n, HTTP_CONSOLE:n, POOL:6014-14206, etc. if needed for connectivity

Parameters to support a z/OS RTEMS to participate in distrib. FTO Hubs; Tip: Use generic user symbol "&STANDBY_HUB_*. "

If SYSTCPD DD is needed, specify GBL_DSN_TCP_SYSTCPD_TCPDATA value and set these flags to "Y"

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KC2_*/KC5_* CICS (Backup TEMS, SDA)

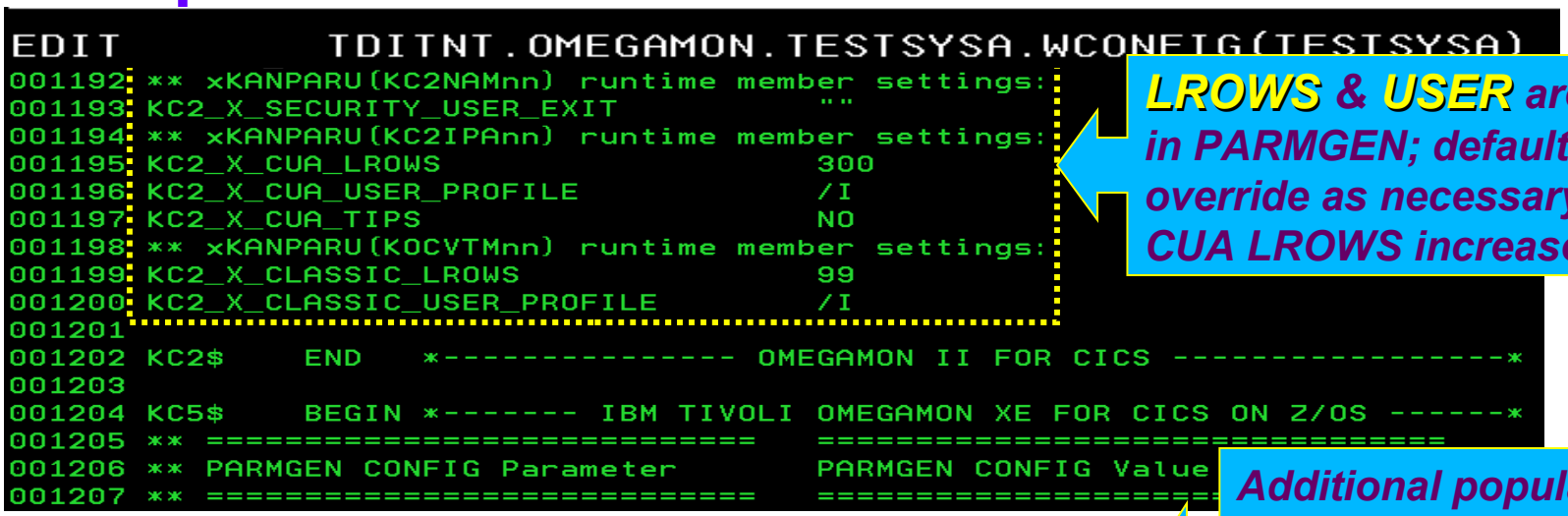

```
EDIT        TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TES
001363 ** (Optional) Secondary TEMS configuration:
001364 ** Note: Specify the Backup TEMS (KC5_TEMS_BKUP1_*) para
001365 ** that the Agent will connect to if the Primary TEMS
001366 ** (KC5_TEMS_TCP_*/KC5_TEMS_VTAM_* parameters) is not av
001367 ** Agent's Primary and Backup TEMS parameter values are
001368 ** CT_CMSLIST parameter in the Agent's xKANPARU(KC5ENV)
001369 **KC5_TEMS_BKUP1_NAME_NODEID              "&AGT_TEMS_BKUP1_NA
001370
001371 ** (Optional) Secondary TEMS TCP/IP information:
001372 **KC5_TEMS_BKUP1_TCP_HOST                 "&AGT_TEMS_BKUP1_T
001373
001374 ** (Optional) Secondary TEMS VTAM information:
001375 **KC5_TEMS_BKUP1_VTAM_LU62_DLOGMOD        &AGT_TEMS_BKUP1_VTA
001376 **KC5_TEMS_BKUP1_VTAM_APPL_LLB_BKR       &AGT_TEMS_BKUP1_VTAM
001377 **KC5_TEMS_BKUP1_VTAM_NETID             &AGT_TEMS_BKUP1_VTAM
001378
001379 ** Workload Manager (WLM) configuration options:
001380 ** Specify the WLM startup parameters for the "OC START
001381 ** command generated in the:
001382 ** - xKANCMDU(KC5AGST) member, if C5 Agent runs in its o
001901 ** - xKANCMDU(KC5AGST) member, if C5 Agent runs in its own Agent address
001902 **   space (i.e., KC5_AGT_CONFIGURATION_MODE = "STANDALONE") -or-
001903 ** - xKANCMDU(KDSSTART) member, if C5 Agent runs in the TEMS address
001904 **   space (i.e, KC5_AGT_CONFIGURATION_MODE = "CMS")
001905 **
001906 KC5_WLM_BLOCKS                          &KC5_WLM_BLOCKS.
001907 KC5_WLM_CLASSIFY                        DEFAULT
001908 KC5_WLM_REGION_RESPONSE                 2.00
001909 KC5_WLM_REGION_GOO                      0
001915 ** Related PARMGEN CONFIG profile parameters:
001916 **         - GBL_HFS_JAVA_DIRn      (typically in WCONFIG($GBL$USR))
001917 **         - GBL_DSN_SYS1_SBPXEXEC  (typically in WCONFIG($GBL$USR))
001918 **         - RTE_USS_RTEDIR
001919 **         - KDS_KMS_SDA
001920 **         - KDS_KMS_SDA_NO_GRANULAR (applicable post-ITM623
001921 **
001922 KC5_AGT_TEMA_SDA                       Y                    * TEMA
```

*Parameters to enable Agent's Backup TEMS if Primary TEMS is unavailable. **Tip:** If enabled simply **uncomment** to use the generic user symbols "&AGT_TEMS_BKUP1*." already set-up as placeholders. TESTSYSA SYSV profile already defines resolution values **by default (local TEMS)**. One can use same settings for all 24 Agents (Do XF "_TEMS_BKUP1")*

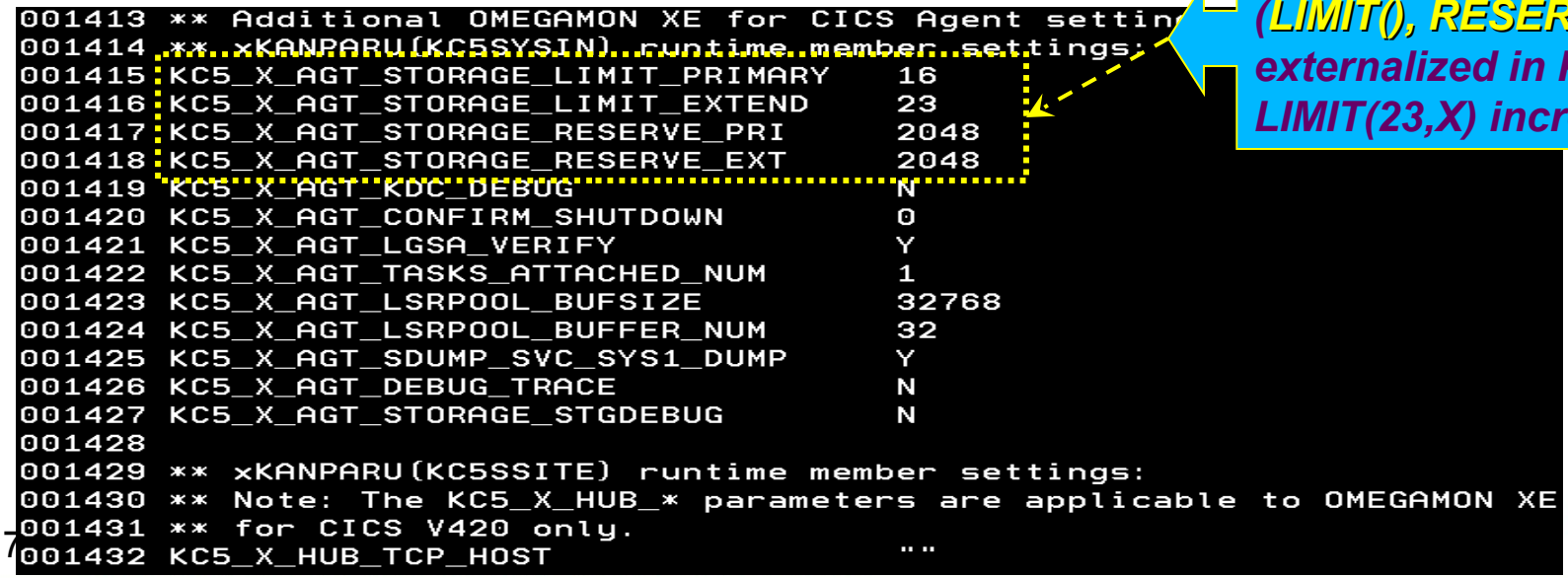
"&KC5_WLM_BLOCKS." sample user-defined symbol so this can be changed @ Agent startup.

TEMA_SDA=Y flag in KC5ENV

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KC2_*/KC5_* CICS parms.



LROWS & USER are externalized in PARMGEN; defaults provided – override as necessary.
CUA LROWS increased in V510



Additional popular parameters (LIMIT(), RESERVE(), etc.) externalized in PARMGEN .
LIMIT(23,X) increased in C5

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KM2_*/KM5_* z/OS parms

```
EDIT         TDITNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA)
Command ===>                                          Scroll ===> CSR
001661 *    ========================================= ==============
001662 *    NAME                                      COMPONENT CODE
001663 *    ========================================= ==============
001664 *    1. OMEGAMON z/OS 3270 (Classic and CUA)   KOM/KM2
001665 *    2. OMEGAMON XE on z/OS Agent              KM5
001666 *
001667 * PARAMETER NAME USAGE FOR COMPONENTS:
001668 *    1. KM2$/KM2_* for OMEGAMON z/OS 3270 (Classic and CUA)
001669 *    2. KM5$/KM5_* for OMEGAMON XE on z/OS Agent
001670 *    3. New KM2_X_*/KM5_X_* parameters: additional RTE values
001671 * ************************************************************
001672 KM2$     BEGIN *---------------- OMEGAMON II FOR MVS ------------------*
......
001673 ** Additional OMEGAMON II for MVS settings:
001674 ** xKANPARU(KM2SYSIN) runtime member settings:
001675 KM2_X_MVS_STORAGE_MIN_EXTEND      76800
001676 KM2_X_MVS_STORAGE_RESERVE_PRI    2048
001677 KM2_X_MVS_STORAGE_LIMIT_PRIMARY  20
001678 KM2_X_MVS_STORAGE_LIMIT_EXTEND   23
001679 KM2_X_MVS_APF_AUTH               Y
001768 KM2_X_MVS_LSRPOOL_BUFSIZE        32768
001769 KM2_X_MVS_LSRPOOL_BUFFER_NUM     32
001770 KM2_X_MVS_CONFIRM_SHUTDOWN       0
001771 KM2_X_MVS_SDUMP_SVC_SYS1_DUMP    Y
001772 KM2_X_MVS_DEBUG_TRACE            N
001773 KM2_X_MVS_STORAGE_STGDEBUG       N
001774 KM2_X_MVS_LGSA_VERIFY            Y
001775 ** xKANPARU(KM2IPARM) runtime member settings:
001776 KM2_X_MVS_LOG                    NO
001777 KM2_X_MVS_DEBUG                  NO
001778
001779 KM2$     END   *---------------- OMEGAMON II FOR MVS ------------------*
001780
001781 KM5$     BEGIN *---------------- OMEGAMON XE ON Z/OS ------------------*
```

Additional popular parameters externalized in PARMGEN for KM2SYSIN and KM2IPARM xKANPARU runtime members

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KM2_*/KM5_* z/OS parms.

```
001855 ** Note: Related PARMGEN CONFIG profile parameter:
001856 **       - RTE_SECURITY_CLASS
001857 KM5_SECURITY_ACTION_CLASS          ""
001858
001859 ** OMEGAMON XE on z/OS to monitor Cryptographic Services:
001860 ** Specify the KM5_CSFPRM00_* values accordingly.  These are input to
001861 ** WKANPARU(KM5PARM) member if you intend to collect Integrated
001862 ** Cryptographic Service Facility (ICSF) data.  Note: If this is not
001863 ** an ICAT-converted RTE, customize the "GBL_DSN_SYS1_PARMLIB" paramet
001864 ** (SYS1.PARMLIB value) in the
001865 ** WCONFIG($GBL$USR) global PARMGEN CONFIG profile.  Otherwise,
001866 ** customize the parameters in this TEST&SYSNAME. LPAR profile:
001867 KM5_CSFPRM00_MEMBER_NAME          CSFPRM00
001868 *KM5_CSFPRM00_PARMLIB_VOLUME     ""
001869 *KM5_CSFPRM00_PARMLIB_UNIT       ""
001871 ** Additional OMEGAMON XE on z/OS settings:
001872 ** xKANPARU(KOSDEVIN) DASD data collection parameters:
001873 KM5_X_KOSDEVIN_CACHINTV           0
001874 KM5_X_KOSDEVIN_CACHRSTI          RMF
001875 KM5_X_KOSDEVIN_RESPINTV          120
001876 KM5_X_KOSDEVIN_FREQ              RMF
001877 KM5_X_KOSDEVIN_APPLINTV          300
001878
001879 KM5$    END   *--------------- OMEGAMON XE ON Z/OS
001880 * ---------- END - IBM SECTION: IMBEDS -------------------------- *
****** ***************************** Bottom of Data ****************************
```

*Additional popular parameters externalized in PARMGEN for **KOSDEVIN** runtime member*

Step 4. Customize PARMGEN configuration profile: LPAR profile (TESTSYSA) in WCONFIG – KM2_*/KM5_* z/OS parms.

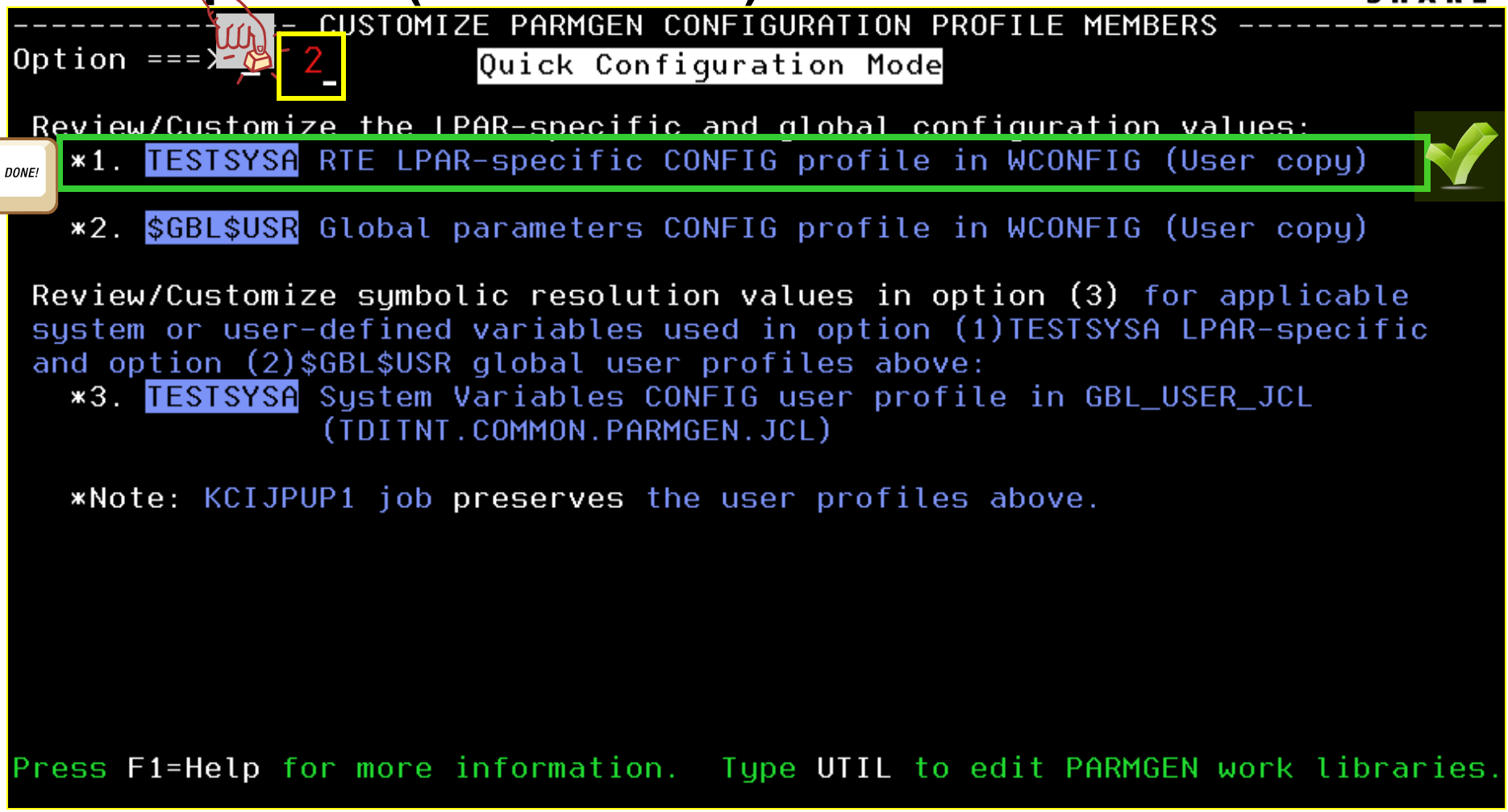
```
EDIT       TNT.OMEGAMON.TESTSYSA.WCONFIG(TESTSYSA) - 01 Columns 00001 00072
Command ===>                                                  Scroll ===> CSR
004489 GBL_SYSPLEX_NAME_XCFPLEXGROUP     &SYSPLEX.
004490
004491 ** ------------------------------------------------------------------
004492 ** Use &SYSPLEX. name in Managed Systems list:
004493 ** ------------------------------------------------------------------
004494 KM5_SYSPLEX_KDS_KOSPLEXNAME_FLAG  N
004495
004496 ** ------------------------------------------------------------------
004497 ** Sysplex Persistent Datastore high-level qualifier:
004498 ** Important:
004499 ** 1.GBL_SYSPLEX_NAME_XCFPLEXGROUP value must be the last
004500 **   the KM5_PDS_RKM5PLX_PLEXDATA_HILEV value (example is
004501 **   GBL_SYSPLEX_NAME_XCFPLEXGROUP=SYSPLEX and "SYSPLEX"
004502 **   qualifier in the KM5_PDS_RKM5PLX_PLEXDATA_HILEV para
004503 ** 2.When deleting the libraries for this RTE (KCIJPDEL/K
004504 **   TDITNT.COMMON.PARMGEN.JCL), these libraries are not
004505 **   deleted on purpose to accommodate other TEMS in other RTEs that
004506 **   use the same Sysplex-level persistent datastore libraries.
004507 ** Note: Related PARMGEN CONFIG profile parameters:
004508 **       - KM5_SYSPLEX_PROXY_POSITION
004509 **       - GBL_SYSPLEX_NAME_XCFPLEXGROUP
004510 **       - KM5_SYSPLEX_KDS_KOSPLEXNAME_FLAG
004511 ** ------------------------------------------------------------------
004512 KM5_PDS_RKM5PLX_PLEXDATA_HILEV &RTEHLQ..&SYSPLEX.
```

Sysplex name is also autodiscovered by PARMGEN by default. Tip: Keep parm. values generic by changing to "&SYSPLEX." system symbol or use a user sym. "&XCFPLEXGROUP." if you want to use a different Sysplex grouping name

```
001827 KM5_PDS_RKM5PLX_PLEX_VOLUME      ""
001828 KM5_PDS_RKM5PLX_PLEX_STORCLAS    ""
001829 KM5_PDS_RKM5PLX_PLEX_MGMTCLAS    ""
001830
001831 ** (Optional) Persistent datastore tab
001832 KM5_PD_HISTCOLL_DATA_IN_TEMS_STC   Y
```

New SMS options for WKANPARU(KM5AL) RKM5PLX* PLEXDATA PDS file allocation if different from RKM5LPR* LPARDATA short-term PDS files.

Step 4. Customize PARMGEN configuration profile: Global profile (GBLUSR) in WCONFIG



Next, select option 2 to customize system libraries in the PARMGEN global profile for the products being configured (for example, system libraries needed by functions enabled)

Step 4. Customize PARMGEN configuration profile: Global profile (GBLUSR) in WCONFIG

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG($GBL$USR) - 01 Columns 00001 00072
Command ===> _                                                Scroll ===> CSR
000285 **** ---------------------------------------------------------------
000286 **** GBL_DSN_DB2_* DB2 system libraries:
000287 **** Note: For OMEGAMON XE for Messaging MC component (if configured)
000288 ****       For OMEGAMON XE for DB2 PE/PM (if configured)
000289 ****       In the WCONFIG($GBL$USR) profile, uncomment out the
000290 ****       applicable parameters and null out (clear out) their
000291 ****       values, if you are not using these DB2 load libraries.
000292 ****       If these parameters are generated in your
000293 ****       WCONFIG(TESTSYSA)
000294 ****       LPAR profile from an ICAT-to-PARMGEN conversion from a
000295 ****       WCONFIG(KCIJPCNV) job run, then the values in your RTE LPAR
000296 ****       profile takes precedence over the values in
000297 ****       WCONFIG($GBL$USR).
000298 **** ---------------------------------------------------------------
000299 GBL_DSN_DB2_SDSNLOAD          "DSN.V9R1M0.SDSNLOAD"
000300 **GBL_DSN_DB2_LOADLIB_V8        "DSN.V8R1M0.SDSNLOAD"
000301 **GBL_DSN_DB2_LOADLIB_V9        "DSN.V9R1M0.SDSNLOAD"
000302 GBL_DSN_DB2_LOADLIB_V10      "DSN.VAR1M0.SDSNLOAD"
000303 GBL_DSN_DB2_LOADLIB_V11      "DSN.VBR1M0.SDSNLOAD"
000304 **GBL_DSN_DB2_RUNLIB_V8        "DSN.V8R1M0.RUNLIB"
000305 **GBL_DSN_DB2_RUNLIB_V9        "DSN.V9R1M0.RUNLIB"
000306 GBL_DSN_DB2_RUNLIB_V10      "DSN.VAR1M0.RUNLIB"
000307 GBL_DSN_DB2_RUNLIB_V11      "DSN.VBR1M0.RUNLIB"
000308 GBL_DSN_DB2_DSNEXIT        "DSN.V9R1M0.DSNEXIT"
```

FTU Phase2:

These will be customized if customer supplied the values on the KCIJPCFG navigation, or if the products can help provide PARMGEN the values to use

Step 4. Customize PARMGEN configuration profile: Global profile (GBLUSR) in WCONFIG

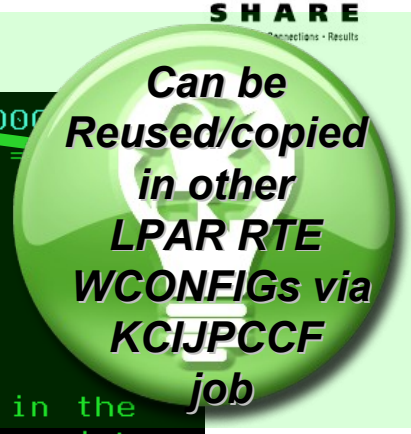
```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG($GBL$USR)          CHARS '&' found
Command ===> _____________________________________________ Scroll ===> CSR
000201 **** Java home directory name:
000202 **** Note: This is required if you are enabling the Self-describing
000203 ****       Agent (SDA) functionality in the z/OS TEMS and Agents:
000204 ****       "GBL_HFS_JAVA_DIRn" value becomes part of the
000205 ****       TEMS_JAVA_BINPATH parameter in the RKANDATV(KDSDPROF) member
000206 ****       that is created by the WKANSAMU(KCIJPUSP) USS preparation
000207 ****       job.  "/bin" is added to the "GBL_HFS_JAVA_DIRn" Java home
000208 ****       directory value programmatically.
000209 ****       Related PARMGEN CONFIG profile parameters:
000210 ****       - GBL_DSN_SYS1_SBPXEXEC
000211 ****       - RTE_USS_RTEDIR
000212 ****       - RTE_USS_MKDIR_MODE
000213 ****       - KDS_KMS_SDA
000214 ****       - KDS_TEMA_SDA
000215 ****       - Kpp_AGT_TEMA_SDA
000216 **** ----------------------------------------------------------------
000217 GBL_HFS_JAVA_DIR1                  "&GBL_HFS_JAVA_DIR1."
000218 **GBL_HFS_JAVA_DIR2
```

FTU Phase1:

Add'l generic user-defined symbols will be supplied so when startup values change, you do not need to reconfigure the RTE.

Step 4. Customize PARMGEN configuration profile: Global profile (GBLUSR) in WCONFIG

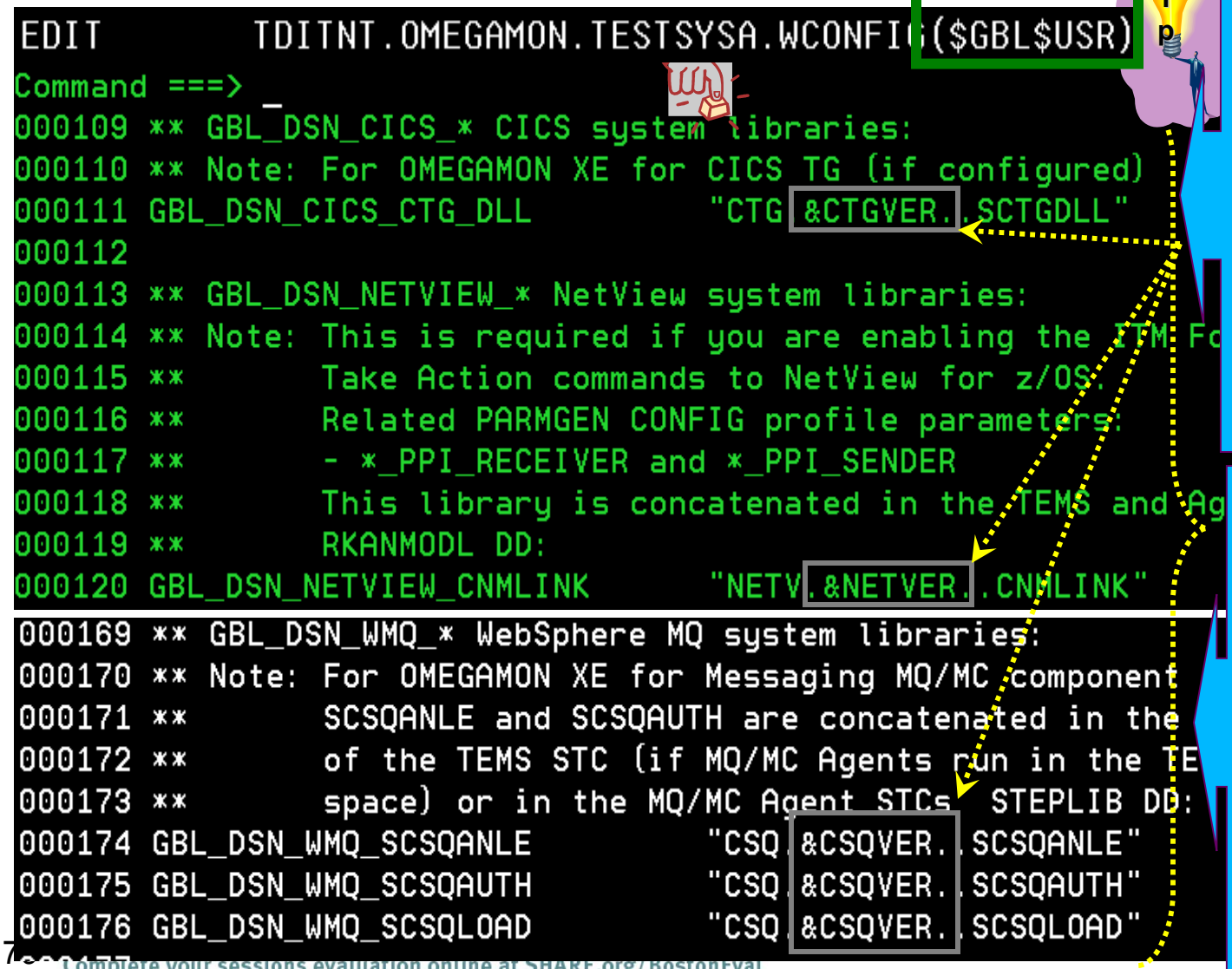
```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFI($GBL$USR)
Command ===>                                          Scroll =
((2
000066
000067
000068 **** Common system libraries (if applicable):
000069 **** Health Check configuration values for HZSPRMCI and
000070 **** HCK1%RTE_JCL_SUFFIX% xKANPARU members:
000071 **** Note: GBL_DSN_HZSPROC_LOADLIB is used as the RTEHLOAD DD in the
000072 ****       COPYHCKM step of the WKANSAMU(KCIJ%SYS) system set-up job.
000073 ****       COPYHCKM step copies Health Check message table modules into
000074 ****       this library.
000075 **GBL_DSN_HZSPROC_LOADLIB      "USER.LOADLIB"
000076
000077 **** (Required) GBL_DSN_SYS1_* system libraries:
000078 **** Note: For WKANSAMU(KCIJ%SYS) system set-up job plan
000079 ****       KCIJ%SYS job creates runtime members in these
000080 ****       copy VTAM major node members, system procedur
000081 **GBL_DSN_SYS1_PARMLIB          "SYS1.PARMLIB"
000082 **GBL_DSN_SYS1_SAXREXEC        "SYS1.SAXREXEC"
000083 **GBL_DSN_SYS1_PROCLIB         "SYS1.PROCLIB"
000084 **GBL_DSN_SYS1_VTAMLIB         "SYS1.VTAMLIB"
((     **GBL_DSN_SYS1_VTAMLST         "SYS1.VTAMLST"
000086
000087 **** GBL_DSN_SYS1_* system libraries:
000088 **** Note: These libraries are typically referenced in t
000089 ****       composite PARMGEN KCIJPSEC security job,
000090 ****       composite PARMGEN KCIJPLNK ASM/LINK job,
000091 ****       and other WKANSAMU-related product sample jobs
000092 ****       that execute ASM/LINK-type functions:
```



Some of the $GBL 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.*

(Do ((2..((to shift 2 cols.)

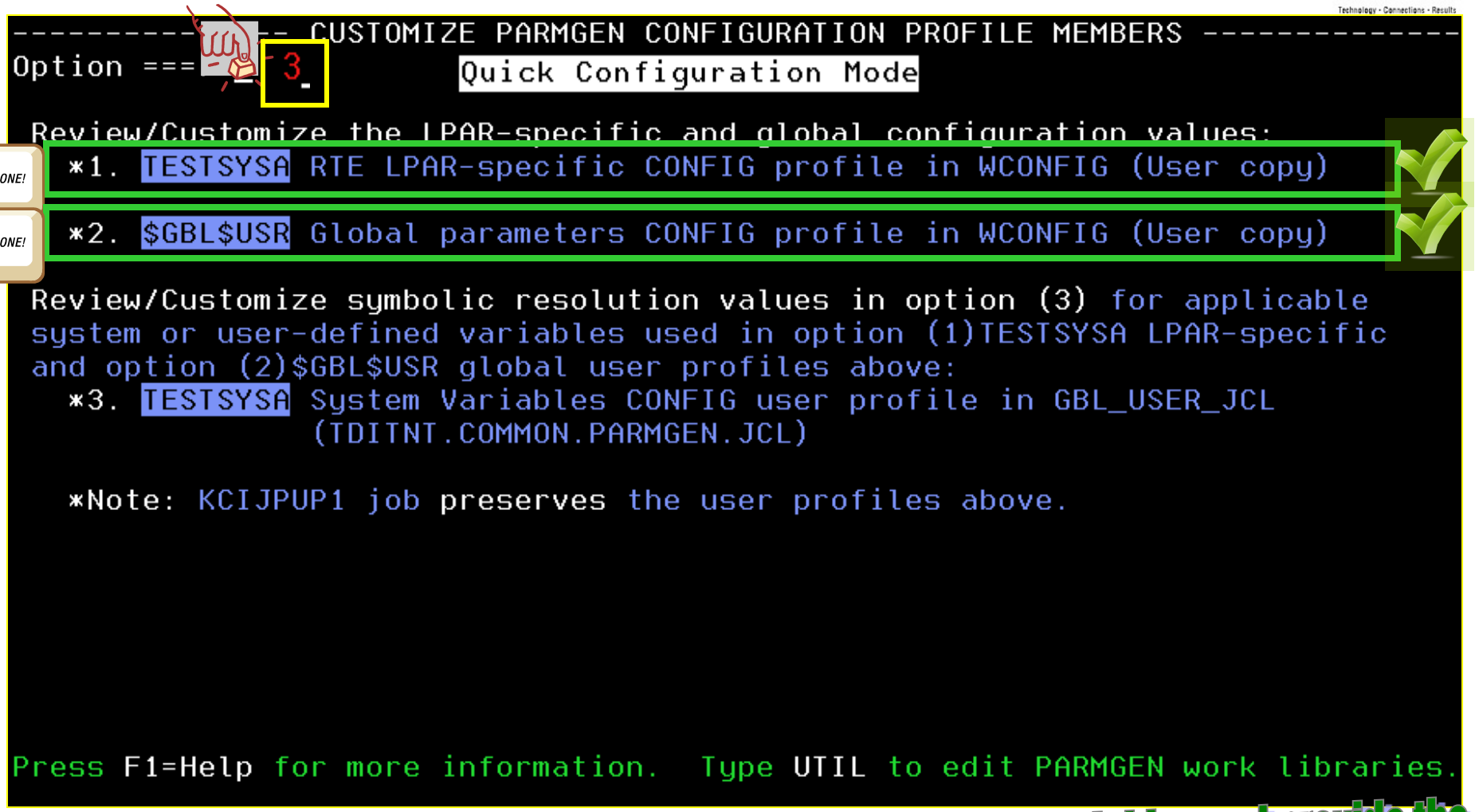
Step 4. Customize PARMGEN configuration profile: Global profile (GBLUSR) in WCONFIG



Sites that need to use versionized system library names have the option to use user symbols & define their resolution values in GBL_USER_JCL (TESTSYSA). @ STC startup, "&xxxVER." user symbol examples must be overriden in the CANSSTRT mbr.

In ICAT, a number of these GBL_DSN_* parms. are product-specific so if >1 one app. needs the same value, the DSNAME is specified >1. In PARMGEN, libraries were consolidated in the new $GBL profiles.*

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL



DONE!

DONE!

Next, select option 3 to further edit user-defined system variables and provide the resolution values to be used during the PARMGEN process and during product startup.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

```
EDIT        TDITNT.COMMON.PARMGEN.JCL(TESTSYSA)
Command ===>
000105 ** ------------------------------------------------
000106 ** Type 1 Examples: Static symbol override
000107 ** ------------------------------------------------
000108 ** ========================  ===============
000109 ** Symbolic Overrides:        Resolved value:
000110 ** (System symbols)
000111 ** ========================  ===============
000112 *$SYSNAME                      SYSA
000113 *$SYSCLONE                     SA
000114 *$SYSPLEX                      IBMPLEXA
000115 **
000116 ** ------------------------------------------------
000117 ** Type 2 Examples: PARMGEN KCIPARSE program extracted symbols:
000118 ** ------------------------------------------------
000119 ** ========================  ===============
000120 ** Symbolic Overrides:        Resolved value:
000121 ** (Extracted symbols)
000122 ** ========================  ===============
000123 *$SYSIPHOSTNAME                SYSA
000124 *$SYSVTAMNETID                IBMNETID
000125 *$SYSIPADDRESS                001.002.003.004
000126 **
```

These are review items only (commented out by default) - PARMGEN will resolve these automatically during the PARMGEN process and during product startup.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

```
EDIT       TDITNT.COMMON.PARMGEN.JCL(TESTSYSA)  (cont'd)
Command ===>
000127 ** ------------------------------------------------
000128 ** Type 3 Examples: User-defined symbols:
000129 ** ------------------------------------------------
000130 ** ========================  ===============
000131 ** User-defined symbols:      Resolved value:
000132 ** ========================  ===============
000133 RTEHLQ                      "TDITNT.OMEGAMON"
000134 RTEVHLQ                     "TDITNT.OMEGAMON"
000135 RTELEV                      1
000136 BASEHLQ                     "TDITNT.OMEGAMON"
000137 BASELEV                     1
000138 SMPHLQ                      "TDITNT.DEV.ITM63053"
000139 SMPLEV                      1
000140 RTE_USS_RTEDIR                  "/rtehome"

000141 GBL_HFS_JAVA_DIR1               "/usr/lpp/java/IBM/J6.0"

000142 KDS_HUB_TEMS_NAME_NODEID    "TESTSYSA:CMS"
000143 KDS_HUB_VTAM_APPL_GLB_BROKER CTDDSLB
000144 KDS_HUB_VTAM_NETID          IBMNETID
000145 KDS_HUB_TCP_HOST            SYSA
000146 KDEB_INTERFACELIST          "!*"
000147 STANDBY_HUB_HOST            AIXHUB1
000148 KDS_HUB_PORT                1918
000149 RTE_PORT                    1918
000150 DLOGMOD                     CANCTDCS
```

FTB Phase1:

The ones in red are examples of symbols that would need to be customized further -these are pointing to IBM-supplied resolution values.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

```
EDIT       TDITNT.COMMON.PARMGEN.JCL(TESTSYSA)  (cont'd)
Command ===>
000127 ** ------------------------------------------------
000128 ** Type 3 Examples: User-defined symbols:
000129 ** ------------------------------------------------
.
000151 HTTP_OPTIONS                  "HTTP_CONSOLE:N HTTP_SERVER:N HTTP:0"
000152 HTTPS_OPTIONS                 "HTTPS:0"
000153 POOLRANGE                     "POOL:10900-11000 POOL:15000-15100"
000154 SKIPCOUNT                     "COUNT:1 SKIP:2"
000155 EPHEMERAL                     "EPHEMERAL:Y"
000156 SSL1                          "IP.SSL.HTTPS:3661 IP6.SSL.HTTPS:3661"
000157 SSL2                          "POOL:10900-11000"
000158 KC5_WLM_BLOCKS                236
000159 XCFPLEXGROUP                  IBMPLEXA
000160 XCFPROXY                      BACKUP
000161 KM2_EDS_PRIM_SIZE             36
000162 KM2_EDS_SEC_SIZE              12
000163 SNMP_ENTRY1 "10.10.3.72                                  2161 snmpv2 public"
000164 SNMP_ENTRY2 "10.10.3.73                                   -   snmpv2    -  "
000165 SNMP_ENTRY3 "FF01::0001                                  8161 snmpv2 publicv6"
000166 SNMP_ENTRY4 "FE80:1234:5678:9ABC:DEF0:1234:5678:9ABC 65161  snmpv2 -"
000167 SNMPIPADDR                    &SYSIPADDRESS.
000168 SNMPPORT                      "-"
000169 SNMPCOMM                      "public"
000175 ** ----------- END    - USER SECTION: SYMBOLIC OVERRIDES ------------- *
```

FTU Phase1:

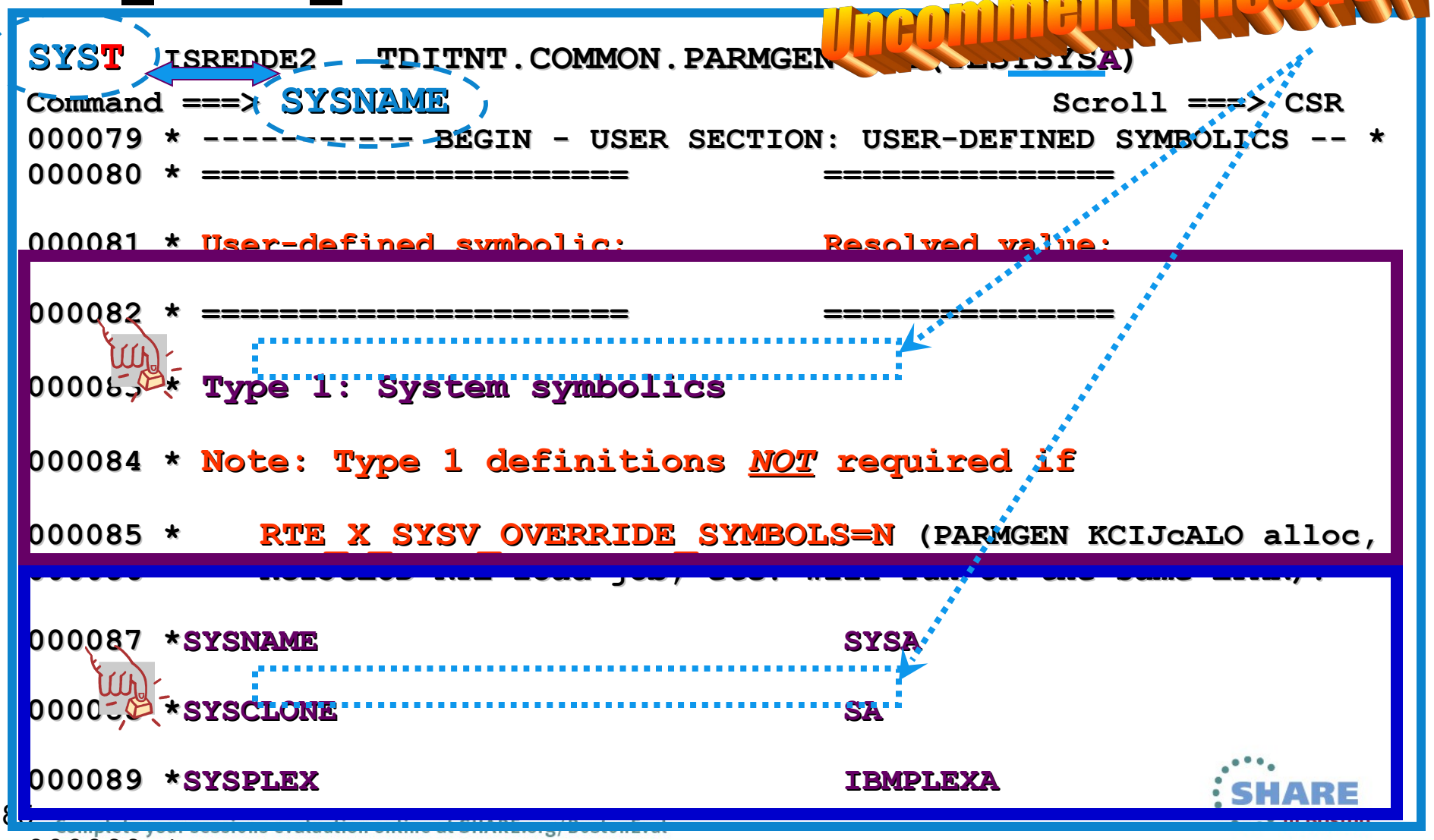
More examples to be supplied OOTBox shd. customers choose to set their profile parms. to these generic values.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

```
ISREDDE2   TDITNT.COMMON.PARMGEN.JCL(TESTSYSA)
Command ===>                                                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 AGT_TEMS_BKUP1_NAME_NODEID        TESTSYSA:CMS
000074 AGT_TEMS_BKUP1_TCP_HOST           SYSA
000075 AGT_TEMS_BKUP1_VTAM_LU62_L
000076 AGT_TEMS_BKUP1_VTAM_APPL
000077 AGT_TEMS_BKUP1_VTAM_NETID
```

Ready for use as user-defined symbolic values in Agents' Kpp_TEMS_BKUP1_* LPAR profile parms. if secondary TEMS feature is enabled.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL



Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

```
ISREDDE2    TDITNT.COMMON.PARMGEN.JCL(TESTSYSA
Command ===>                              Scroll ===> CSR
000079 * ----------- BEGIN - USER SECTION: USER-DE
000080 * ======================              ========
000081 * User-defined symbolic:              Resolve
000082 * ======================              =======
000097 * Type 3: User Defined symbolics
000098 * Remote TEMS' KDCSSITE FTO Hubs:
000099 KDS_HUB_TEMS_NAME_NODEID             AIXFTOHUB1:CMS
000100 KDS_HUB_TCP_HOST                     AIXFTO1
000101 STANDBY_HUB_TCP_HOST                 AIXFTO2
000102 * Remote TEMS' Primary Hub port number
000103 KDS_HUB_TCP_PIPE_PORT_NUM            1918
000104 KDS_HUB_TCP_UDP_PORT_NUM            1918
```

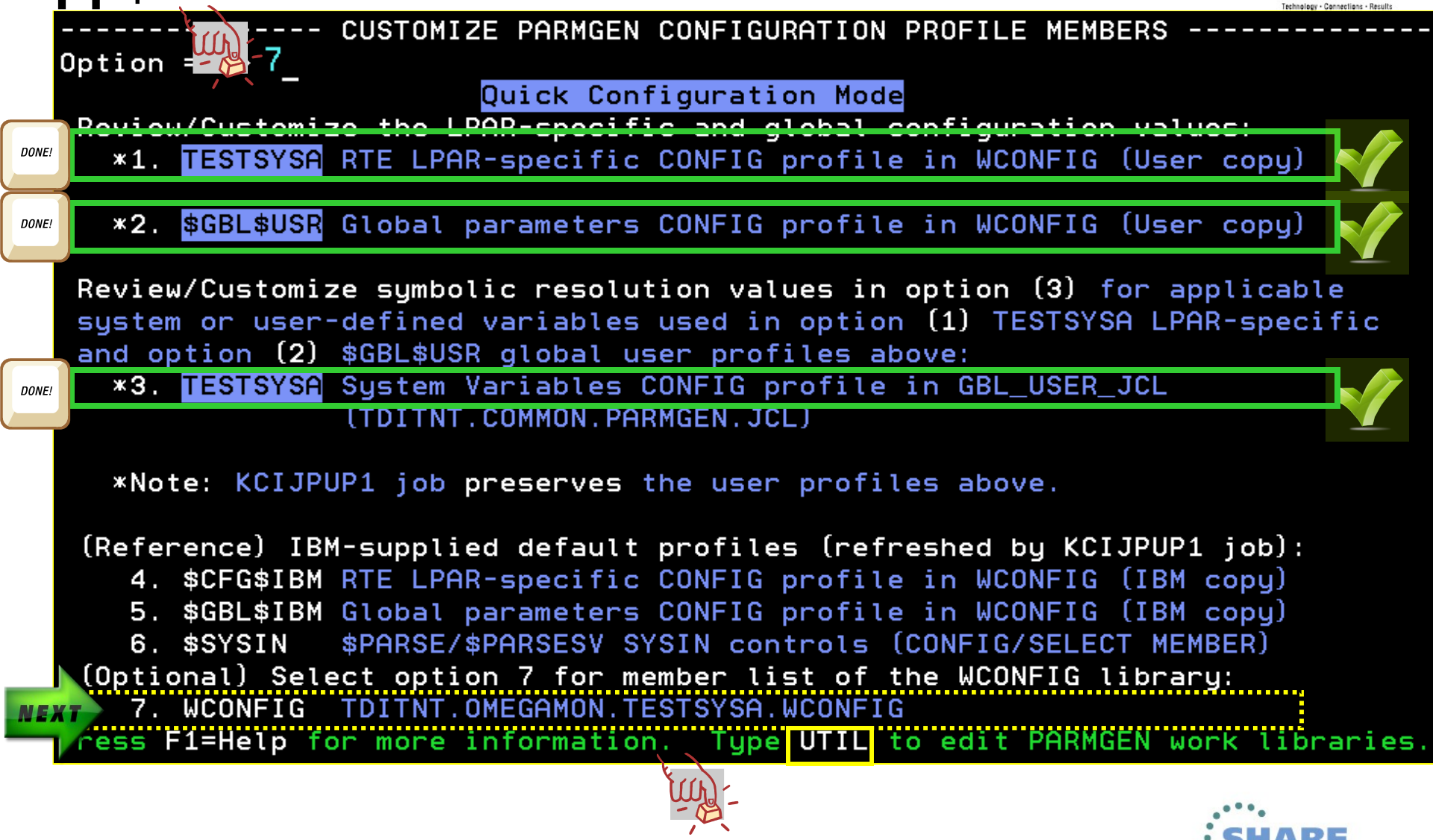
Define resolution values of the user-defined symbols specified in WCONFIG(TESTSYSA) LPAR profile values. You control one member when these values change because the LPAR profile & the runtime members have generic symbolic values! PARMGEN config. jobs & STC startup all use the SYSV profile.

Step 4. Customize PARMGEN configuration profile: System Variables LPAR profile (TESTSYSA) in GBL_USER_JCL

More examples how user defined symbols provide flexibility in deployment

```
ISREDDE2   TDITNT.COMMON.PARMGEN.JCL(TESTSYS
Command ===>                          Scroll ===> CSR
000079 * ---------- BEGIN - USER SECTION: USER-DE
000080 * ======================          ==============

000081 * User-defined symbolic:          Resolved value:

000082 * ======================          ==============

000111 * System libraries: Examples of versionized system libs.

000112 * Override their values @ STC startup:

000113 * Example invocation #1:

000114 *  SDSF JOB DATA SET DISPLAY - JOB TIVGW   (STC21972)

000115 *  COMMAND INPUT ===> /S TIVGW,CTGVER=V8R1M0
000116 *                                ==============

000117 * Example invocation #2:

000118 *  TSTEST.SYS1.PROCLIB(TIVSTRT)
```

Step 4. Customize PARMGEN configuration profile: Kpp$* WCONFIG override imbeds via "WCONFIG" ste



Step 4. Customize PARMGEN configuration profile: Kpp$* WCONFIG override imbeds via “WCONFIG” step

```
HELP--------------- CUSTOMIZE PARMGEN CONFIGURATION PROFILES ---------------HELP
COMMAND ===> _

On the PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME panel, enter
the "TESTSYSA  Customize PARMGEN configuration profiles."
task to review and edit applicable configuration profiles.

Press ENTER to read topics in sequence, or select topics by number.

    1  PARMGEN LPAR and global configuration profiles
    2  KCIRPLBS On-line help macro
    3  XF "Exclude Find" macro
    4  System Variables considerations in TESTSYSA LPAR profile
    5  Exceptions of parameters not eligible to specify symbols
    6  Kpp X * parameters in TESTSYSA LPAR profile
    7  Kpp$* WCONFIG override imbeds
```

Step 4. Customize PARMGEN configuration profile: Kpp$* WCONFIG override imbeds via "WCONFIG" step – sample WCONFIG(KDS$PENV)

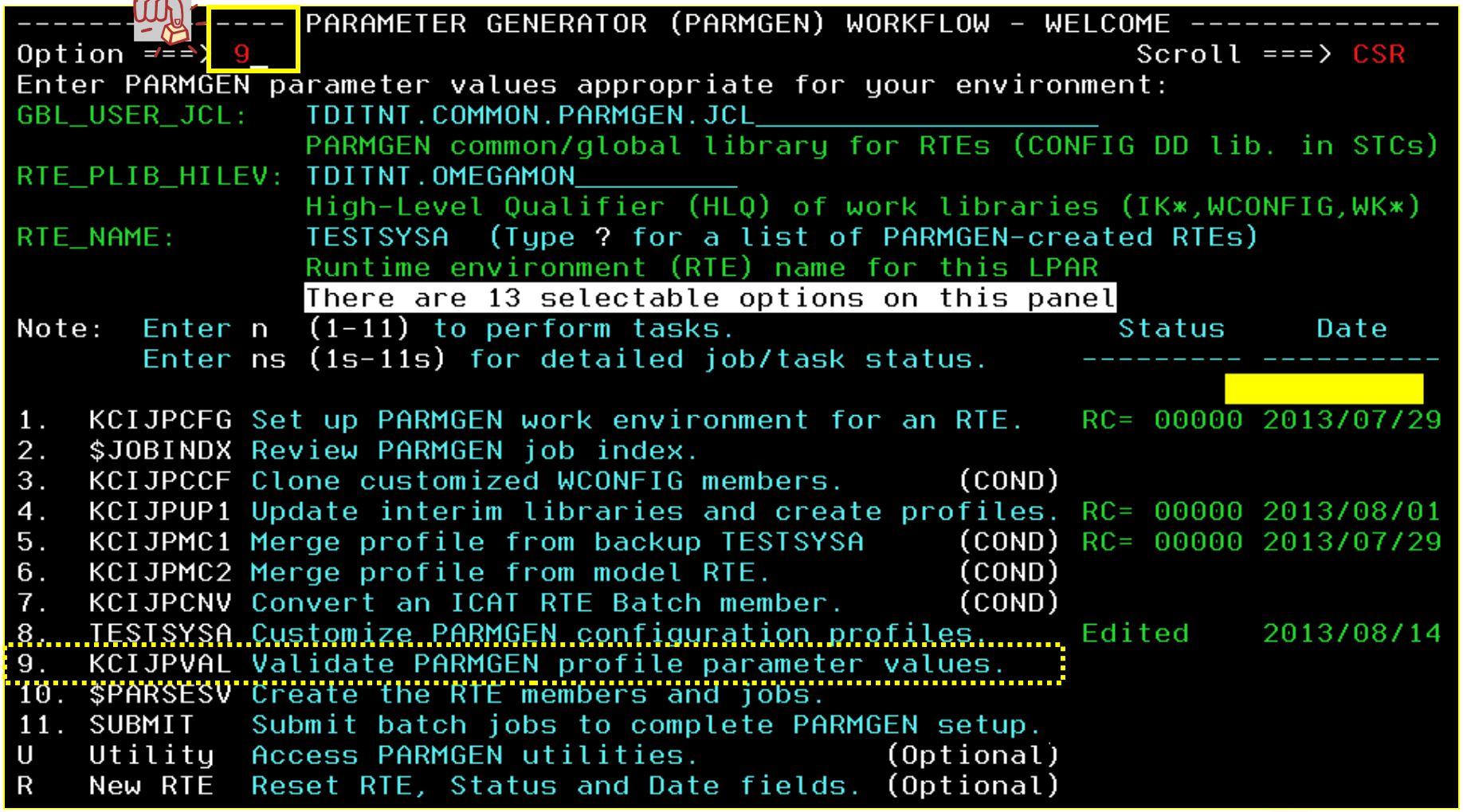
```
000024 * ---------------- BEGIN - USER SECTION: OVERRIDE --------------- *
000025 ** Sample TEMS override parameters are supplied as placeholders by
000026 ** default.
000027 ** Please refer to the IBM Tivoli Monitoring (ITM) Administrator's Guide
000028 ** and ITM Installation and Setup Guide for more information,
000029 ** if you wish to exploit these features or parameters.
000030 ** ************************************************
000031 ** Common TEMS parameters:
000032 ** ************************************************
000033 *KDS_NCSLISTEN=256
000034 *KDS_HEAP_SIZE=1024
000035 *KGL_GMMSTORE=1024
000036 ** ************************************************
000037 ** Additional common Agent parameters:
000038 ** ************************************************
000039 *CTIRA_HEARTBEAT=5
000040 *CTIRA_RECONNECT_WAIT=600
000041 *CTIRA_PRIMARY_FALLBACK_INTERVAL=1500
000042 *CTIRA_HOSTNAME="%RTE_NAME%:CMS"
000043 *TEMA_SDA_ACK_WAIT=300
```

WCONFIG(Kpp$C*) (CMDU)
WCONFIG(Kpp$P*) (PAR*)
WCONFIG(Kpp$S*) (SAMU)
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 similar support for popular runtime mbrs. In RK* user libraries that get 'tweaked' often.

PARMGEN RTE Life Cycle:

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

Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values



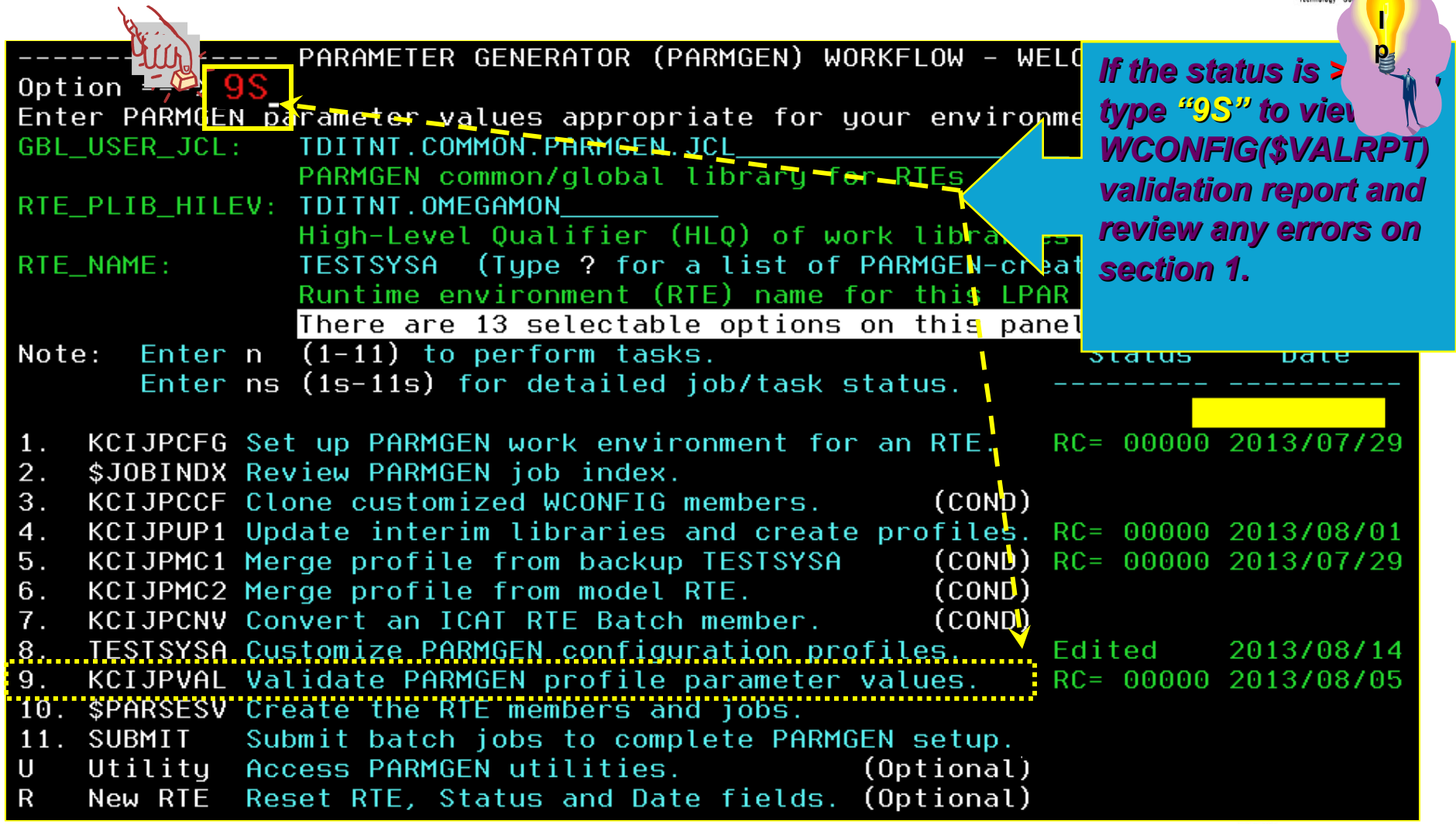
Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values

```
ISREDDE2 TDITNT.OMEGAMON.TESTSYSA.WCONFIG(KCIJPVAL) - 01 Columns 00001 00072
Command ===> SUBMIT                                          Scroll ===> CSR
****** ***************************** Top of Data ******************************
000001 //KCIJPVAL JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
000002 //   MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
000003 //**   0 0   RTE_NAME=TESTSYSA
000004 //** \_~_/  SYSJOBNAME=KCIJPUP1
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 //* - $PARSESV "Create runtime members and jobs in WK*" job (if
000017 //*             System Variables is enabled in the RTE)
000018 //*
000019 //* The VALIDATE step uses the KCIRPLBV REXX program in
000020 //* TDITNT.DEV.ITM63051.TKANCUS to validate
000021 //* any customer override CONFIG profile members.
000022 //*
000023 //* Examples of customer override CONFIG profile members are:
000024 //* - WCONFIG(TESTSYSA): Customer copy based on two categories:
000025 //*   a. PARMGEN RTE Batch member - Customer copy cloned from the
000026 //*      IBM Default copy WCONFIG($CFG$IBM).  The member is
000027 //*      created based on the TESTSYSA RTE name value that was
```

KCIJPVAL validates the parameter values in the different PARMGEN profiles.

Output: WCONFIG($VALRPT) validation report

Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values



If the status is > type "9S" to view WCONFIG($VALRPT) validation report and review any errors on section 1.

Step 5. KCIJPVAL Job: Validate PARMGEN profile parameter values

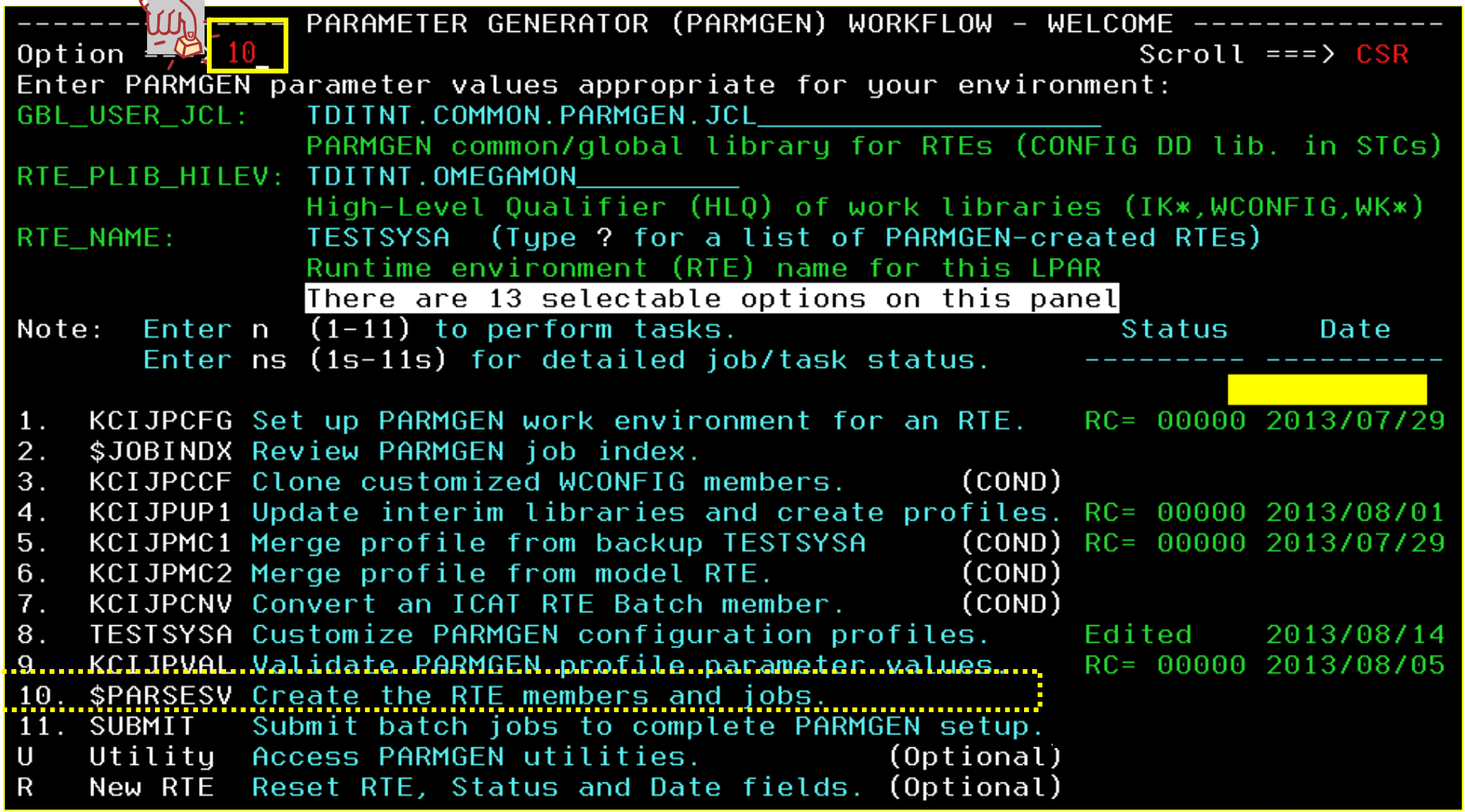
```
ISREDDE2   TDITNT.OMEGAMON.TESTSYSA.WCONFIG($VALRPT) - 01. Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
000025 +=============================================================
000026 |   Section 1: Parameter Validation Errors
000027 +---------------------------------------------------------------
000028 | Parameter Name                    Parameter Value
000029 | File#/Line#                       Error Line1
000030 |                                   Error Line2
000031 | -------------------------------- ------------------------------
000032 | **GBL_DSN_DB2_DSNEXIT             DSN.V9R1M0.DSNEXIT
000033 | 4/308                             Uncomment the GBL_DSN_DB2_DSNEXIT
000034 |                                   parameter
000035 |                                   ------------------------------
000036 | **GBL_DSN_DB2_LOADLIB_V10         DSN.VAR1M0.SDSNLOAD
000037 | 4/302                             Specify at least one
000038 |                                   GBL_DSN_DB2_LOADLIB_Vnn parameter
000039 |                                   ------------------------------
000040 | **GBL_DSN_DB2_LOADLIB_V11         DSN.VBR1M0.SDSNLOAD
000041 | 4/303                             Specify at least one
000042 |                                   GBL_DSN_DB2_LOADLIB_Vnn parameter
000043 |                                   ------------------------------
000044 | **GBL_DSN_DB2_LOADLIB_V8          DSN.V8R1M0.SDSNLOAD
000045 | 4/300                             Specify at least one
000046 |                                   GBL_DSN_DB2_LOADLIB_Vnn parameter
000047 |                                   ------------------------------
000048 | **GBL_DSN_DB2_LOADLIB_V9          DSN.V9R1M0.SDSNLOAD
000049 | 4/301                             Specify at least one
000050 |                                   GBL_DSN_DB2_LOADLIB_Vnn parameter
000051 |                                   ------------------------------
```

Correct any errors as advised by the WCONFIG($VALRPT) validation report.
In this case, File#4 (GBLUSR) needs to specify required DB2 load libraries.

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



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

```
-------  $PARSE/$PARSESV: CREATE THE RTE MEMBERS AND JOBS --------------
Option ===> 1_

Select option 1 to SUBMIT the full $PARSESV job in WCONFIG for RTE=TESTSYSA.
Alternatively, select other options to SUBMIT $PARSE jobs individually.
Press F1=Help for additional considerations when selecting options 2-5.

Note:  Enter ns (1s-5s) for detailed job/task status.        Status     Date
                                                            -------- ----------
   $PARSESV Composite $PARSESV job
    ** or **
2. $PARSECM IKANCMDU/WKANCMDU $PARSE job                    (Optiona
3. $PARSEPR IKANPARU/WKANPARU $PARSE job                    (Optiona
4. $PARSESM IKANSAMU/WKANSAMU $PARSE job                    (Optiona

5. $PARSEDV Generate listing of symbolics                   (Optiona

Note: If this is a reconfiguration of an existing PA
      System Variables-enabled RTE, then after rerun
      $PARSEPR or $PARSESM job, you must rerun the
      System Variables IEBUPDTE job next, to refre
      runtime members.  Please see help panel for m
```

NEXT

- ✓ *See related library-specific $PARSE* utility jobs's "USAGE NOTES" section if you simply need to regenerate only certain runtime members or jobs.*
- ✓ *In $PARSE* utility jobs, you can also point SYSUT2 output library directly to RK* user libraries instead of WK* work libraries!*

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

```
--------------- $PARSE/$PARSESV: CREATE THE RTE MEMBERS AND JOBS --------------
Option ===> _

Select option 1 to SUBMIT the full $PARSESV job -WCONFIG for RTE=TESTSYSA.
$PARSESV composite job creates product runtime members and jobs in  all the
PARMGEN WK* work libraries.  Alternatively, press F5 to SUBMIT the
library-specific $PARSE* jobs individually.

Enter ns (1s-2s) for detailed job/task status.                Status     Date
                                                             -------- ---------
1. Create runtime members/jobs in all WK* libs.   $PARSESV

2. Generate listing of symbolics          (Optional) $PARSEDV


                              Important
If this is a reconfiguration of an existing PARMGEN-maintained System
Variables-enabled RTE, then after rerunning the $PARSESV job job,
you must rerun the WKANSAMU(KCIJVUPV) System Variables IEBUPDTE job
next, to refresh the variable-named runtime members.
Enter UTIL to edit WKANSAMU library directly from this panel.

Press F1=Help for more information.  Type UTIL to edit PARMGEN work libraries.
```

FTU Phase1

Proposed: Present a new $PARSE sub-panel for the library-specific $PARSExx jobs based on feedback. Press F5 key.

in Boston

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

```
--------- $PARSECM/$PARSEPR/$PARSESM: CREATE THE RTE MEMBERS AND JOBS ---------
Option ===> _

Select option 1, 2 or 3 to SUBMIT individual $PARSE job for RTE=TESTSYSA.
Each $PARSE job creates product runtime members and jobs in the individual
PARMGEN WK* work library.

Enter ns (1s-3s) for detailed job/task status.
                    Description                    Job/Label   Status     Date
   ------------------------------------------- -------- --------- ----------
1. Create runtime members in WKANCMDU library.   $PARSECM

2. Create runtime members in WKANPARU* library.  $PARSEPR
     * $PARSEPR also updates WKD2PAR/WKD2PRF - see Help.

3. Create runtime members in WKANSAMU* library.  $PARSESM
     * $PARSESM also updates WKD2SAM - see Help.




Press F1=Help for more information.  Type UTIL to edit PARMGEN work libraries.
```

FTU Phase1:

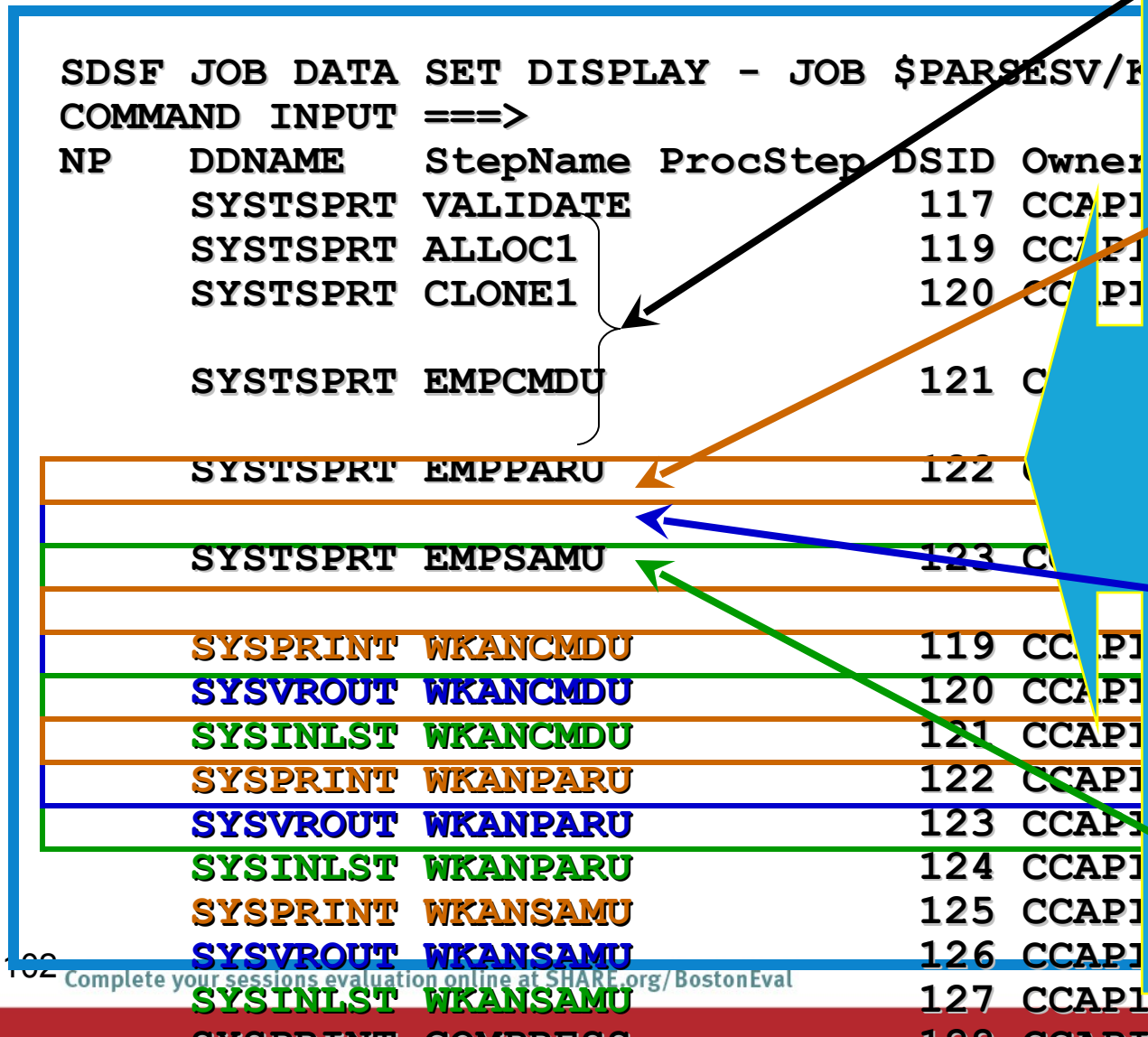
Proposed: Change job description as proposed above and add "Description", "Job/Label" tags

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

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG($PARSESV) - 01 Co
Command ===> SUB
****** ***************************** Top of Data ************
000001 //KCIJPPRV JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
000002 //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
000003 //**   0 0  RTE_NAME=TESTSYSA
000004 //** \_~_/ SYSJOBNAME=KCIJPUP1
000005 //* ****************************************
000006 //* Member: KCIJPPRV
000007 //* Master Source: TDITNT.DEV.ITM63053.TKANSAM(KCI
000008 //* KCIJPUP1 Batch Job Output:
000009 //*    IBM Default Copy:
000010 //*    TDITNT.OMEGAMON.TESTSYSA.IKANSAMU(KCIJPPRV)
000011 //*    Customer Copy:
000012 //*    TDITNT.OMEGAMON.TESTSYSA.WCONFIG($PARSESV)
000013 //* $PARSESV Batch Job Output:
000014 //*   TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(KCIJPPRV)
000015 //* ****************************************
000016 //*
000017 //* PURPOSE:   *** System Variables version of $PARSE job ***
000018 //*            *** For RTEs enabled for System Variables support ***
000019 //*
000020 //*            Process the PARMGEN samples from the interim  (IK*)
000021 //*            staging libraries into the corresponding work (WK*)
000022 //*            output libraries.  The $PARSESV job performs the string
000023 //*            substitutions and imbeds required by the user overrides
000024 //*            in the PARMGEN configuration profile member.  Part of
000025 //*            this job's function is to create runtime members and
000026 //*            file-tailored jobs in the work output libraries.  After
000027 //*            completion of the $PARSESV job, you have a complete set of
```

$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



- ✓ *ALLC*/CLON* steps empty/back-up the WK* work libraries; backup names based on KCIJPUP1 job's "SET CLONE" Dyymmdd value.*
- ✓ *SYSPRINT DD of //WK* steps in $PARSE* jobs are very helpful – shows the report which CONFIG profiles are in use, the "BEFORE&AFTER" report processing mbrs. from IK*→WK**
- ✓ *For diagnostics:*
  - *SYSVROUT DD of any PARMGEN jobs (KCIJPCFG, KCIJPUP1, $PARSE*) show CONFIG profile & system variables and their resolved values at runtime.*
  - *SYSINLST DD is the actual KCIPARSE REXX logic (think of it as our TKANCUS -- no more black box!)*

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

```
SDSF OUTPUT DISPLAY JOB $PARSESV/KCIJPPRV (JOB23168)
COMMAND INPUT ===>
EDIT       TDITNT.OMEGAMON.TESTSYSA.WCONFIG($SYSVAR1) - 01 (
Command ===> _____________________________________________________________
000001 *     81 Active variables
000002 AGT_TEMS_BKUP1_NAME_NODEID        "TESTSYSA:CMS"
000003 AGT_TEMS_BKUP1_TCP_HOST           "SYSA"
000004 AGT_TEMS_BKUP1_VTAM_APPL_LLB_BKR "KSADSLB"
000005 BASEHLQ                           "TDITNT.OMEGAMON"
000006 BASELEV                           "1"
000007 CELL16SL                          "W6114"
000008 CNMDOMN                           "NDGG1"
000009 CNMTCPN                           "TCPIPG"
000010 DLOGMOD                           "CANCTDCS"
000011 GBL_HFS_JAVA_DIR1                 "/usr/lpp/java/I
000012 KC5_WLM_BLOCKS                    "256"
000013 KDEB_INTERFACELIST                "!*"
000014 KDS_HUB_PORT                      "1918"
000015 KDS_HUB_TCP_HOST                  "WLAG"
000016 KDS_HUB_TEMS_NAME_NODEID          "TESTSYSA:CMS"
000017 KDS_HUB_VTAM_APPL_GLB_BROKER      "CTDDSLB"
000018 KDS_HUB_VTAM_NETID                "USCAC001"
000019 RTE_PORT                          "1918"
000020 RTE_USS_RTEDIR                    "/rtehome"
000021 RTEHLQ                            "TDITNT.OMEGAMON"
000022 RTELEV                            "1"
000023 RTEVHLQ                           "TDITNT.OMEGAMON"
000024 SMPHLQ                            "TDITNT.DEV.ITM63053
000025 STANDBY_HUB_HOST                  "AIXHUB1"
000026 SYSCLONE                          "SA"
000027 SYSNAME                           "SYSA"
000028 SYSDSN_CONFIG                     "TDITNT.COM        MGEN.JCL"
```

- ✓ ***For diagnostics:***
- ***Example of SYSVROUT DD contents. Col. 1 are the PARMGEN CONFIG profile parameters that customer has customized in the LPAR and GBLUSR profiles & symbolics (Type 1 – 3) and their resolved values at runtime.***
- ***When diagnosing PARMGEN PMRs, please ask for PARMGEN $PARSE* output and WCONFIG LPAR profile and GBLUSR***
- ***Or run $PARSEDV job to view WCONFIG($SYSVAR1) report***

Step 6. $PARSE or $PARSESV Job: Create the RTE members and jobs – sample WKANPARU runtime mbr

```
ISREDDE2    TDITNT.OMEGAMON.TESTSYSA.WKANPARU(KDSENV)
Command ===>                                        Scroll ===> CSR
000042 KDEB_INTERFACELIST=\
000043 &KDEB_INTERFACELIST.
000065 KDS_XCFPLEXGROUP=&XCFPLEXGROUP.
000070 ** Global SAF class name:
000071 RTE_SECURITY_CLASS=&OMEGSAF.
000077 CT_CMSLIST=\
000078 IP.PIPE:&SYSIPHOSTNAME.;\
000079 IP.UDP:&SYSIPHOSTNAME.;\
000080 SNA:\
000081 &SYSVTAMNETID..\
000082 K&SYSCLONE.DSLB.\
000083 CANCTDCS.SNASOCKETS;
000086 CMS_NODEID=TEST&SYSNAME.:CM
000108 KMS_SDA=Y
000109 TEMA_SDA=Y
000110 TEMS_MANIFEST_PATH=\
000111 &RTE_USS_RTEDIR./TEST&SYSNAME./kds/support/TEMS
```

Portable runtime members! Example of user-defined symbol

Portable runtime members! Example of user-defined symbol

Example of KCIPARSE-extracted symbol

Example of KCIPARSE-extracted symbol

Example of static system symbol

Example of static system symbol

Example of user-defined symbol

Step 6. $PARSE or $PARSESV Job: Create the RTE members and jobs – sample TEMS started task

```
ISREDDE2    TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(TIVDS)
Command ===>                                          Scroll ===> CSR
000019 //*************************************************************
000020 //TIVDS  PROC RGN=0M,TIM=1440,
000021 //            SYS=TEST&SYSNAME.,
000022 //            RHILEV=&RTEHLQ.,
000023 //            BASEHLEV=&SMPHLQ..T,
000024 //     USERCMDU=&RTEHLQ..TEST&SYSNAME..RKANCMDU,
000025 //     USERPARU=&RTEHLQ..TEST&SYSNAME..RKANPARU,
000026 //     USERSAMU=&RTEHLQ..TEST&SYSNAME..RKANSAMU,
000027 //            SOUT=X,        LOG OUTPUT CLASS
000028 //            DOUT=X,        DEBUGGING OUTPUT CLASS
000029 //            RVHILEV=&RTEVHLQ.,
000030 //            STARTUP=KDSSYSIN
000031 //*************************************************************
000032 //* Specify "Y" to the RTE X STC INAPF INCLUDE FLAG parameter in
```

Sharable STC PROCs!
Example of static system symbol

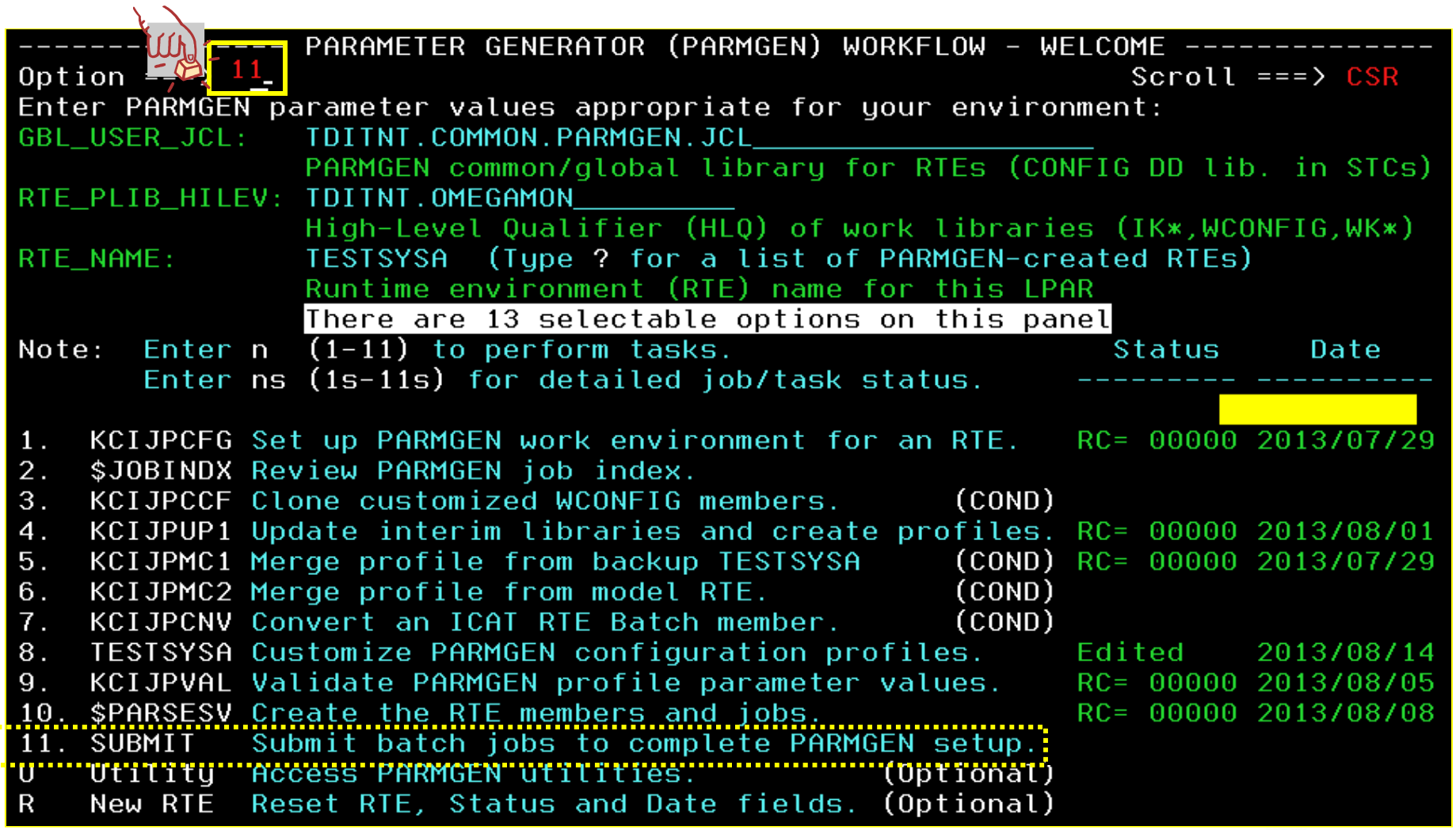
New USERxxxx PROC – point to WK for quick testing*

KSAAPF has all the SETPROGs, VARY, etc. tailored to the RTE

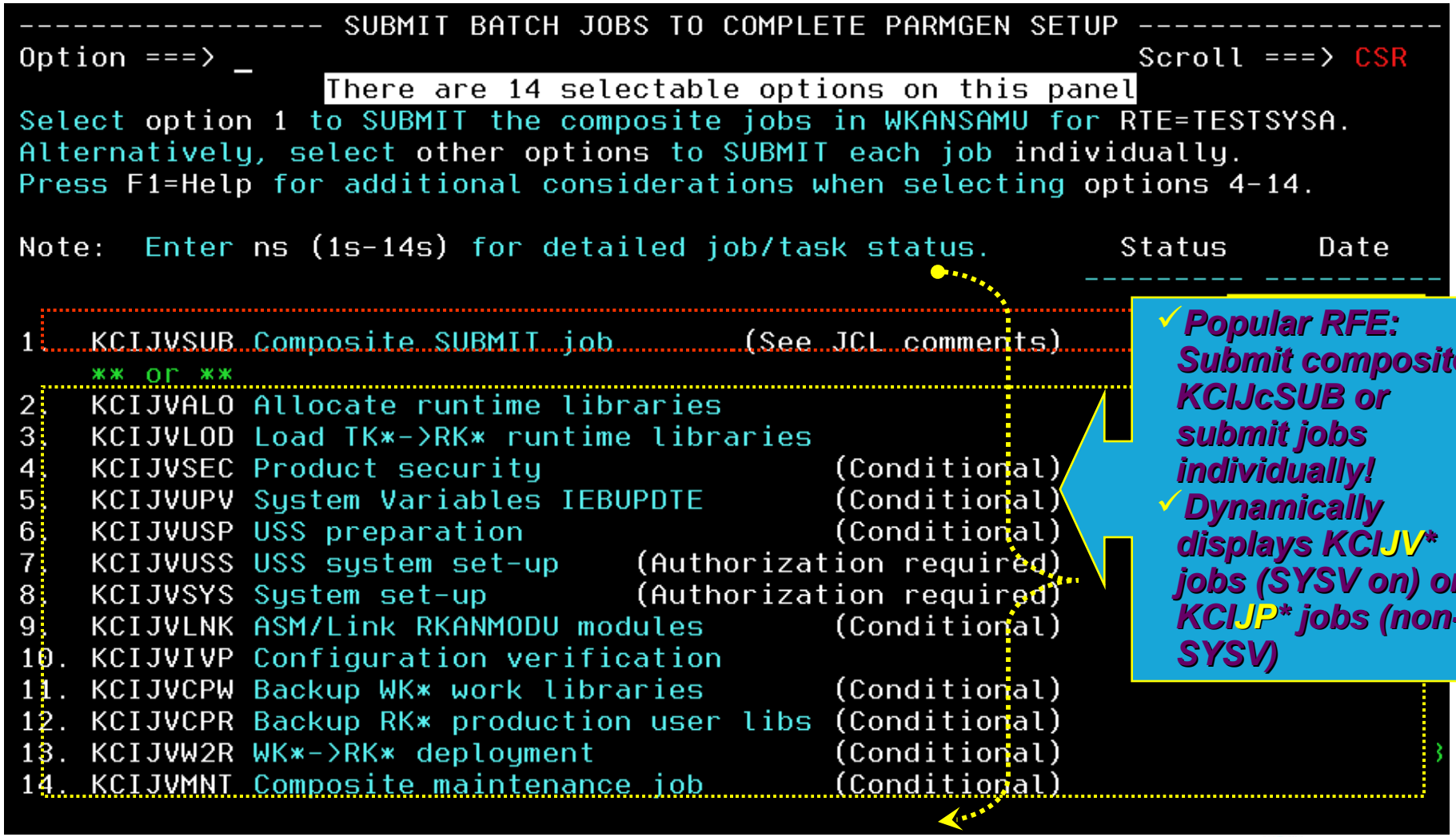
PARMGEN RTE Life Cycle:

Step 7. Submit batch jobs to complete the PARMGEN setup.

Step 7. Submit batch jobs to complete the PARMGEN set-up

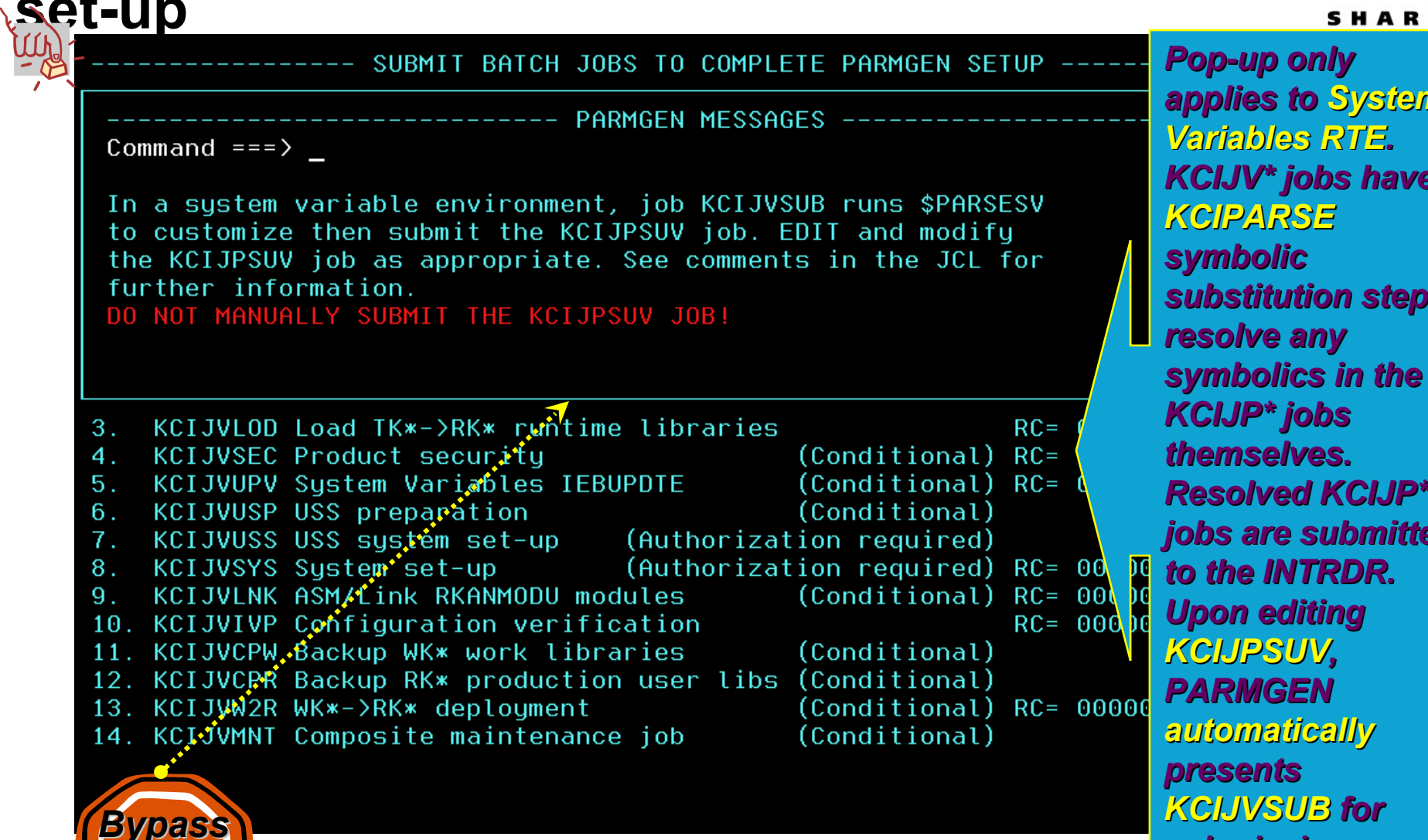


Step 7. Submit batch jobs to complete the PARMGEN set-up



- ✓ ***Popular RFE: Submit composite KCIJcSUB or submit jobs individually!***
- ✓ ***Dynamically displays KCIJV* jobs (SYSV on) or KCIJP* jobs (non-SYSV)***

Step 7. Submit batch jobs to complete the PARMGEN set-up



Pop-up only applies to System Variables RTE. KCIJV* jobs have a KCIPARSE symbolic substitution step to resolve any symbolics in the KCIJP* jobs themselves. Resolved KCIJP* jobs are submitted to the INTRDR. Upon editing KCIJPSUV, PARMGEN automatically presents KCIJVSUB for submission.

Bypass Warning ? *and submit KCIJP* directly?* **Yes**, *if your RTE_NAME, RTE_HILEV do not contain user-defined symbolics*

Step 7. Submit batch jobs to complete the PARMGEN set-up

KCIJPALO job: (Required)

This required job allocates the RK* runtime libraries for all the products and components in the runtime environment.

If you converted from ICAT to PARMGEN mode, the allocated datasets in KCIJPALO equate to the datasets allocated by the following product-centric ICAT jobs below. In PARMGEN, the allocations are done in one RTE-centric (or function-centric, task-oriented) composite job:

```
pp#1xxxx RTE Build job

pp#4xxxx "Register with local TEMS" job's alloc. steps

pp#Ixxxx "Install Agent into local TEMS" job's alloc. steps
pp#5xxxx "Allocate additional libraries" job

pp#Hxxxx "Allocate task history datasets" job

pp#Qxxxx "Allocate/initialize Persistent Datastore files" job
```

(where pp = product code; ***1 pp#nxxxx job per product X no. of products*** being configured in the ICAT RTE; xxxx = ICAT RTE JCL suffix)

Some of these jobs have **standalone PARMGEN equivalent** of these function jobs in WKANSAMU (for example, the KPDJPALQ step in WKANSAMU(KCIJPALO)

Step 7. Submit batch jobs to complete the PARMGEN set-up

KCIJPSEC job: (Conditional)

This job is required if the product-specific IBM-supplied security exit or input must be customized ***other than the supplied default***. The job creates security-related members (load modules, encryption key, and other elements) based on the product security requirements.

If you converted from ICAT to PARMGEN mode, the security-related steps in KCIJPSEC equate to the following product-centric ICAT jobs below. In PARMGEN, the security steps are done in one RTE-centric (or function-centric) composite job:

==========

- **DS#3xxxx TEMS "Create runtime members" job's KAES256 step**
- ***pp*#3xxxx job's KLV@ASM step**
- ***pp*#0xxxx "Modify Classic command table" security job (applicable to OMEGAMON XE for CICS, DB2, IMS and z/OS only)**

==========

In some cases, there are **standalone version** of these security steps per product. For example, the "*Modify Classic command table*" security steps for each OMEGAMON have equivalent standalone jobs per product. Look for

Step 7. Submit batch jobs to complete the PARMGEN set-up

- KCIJPSEC job: (continued)

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(KCIJPSEC        CHARS 'KAES' found
Command ===> _                                               Scroll ===> CSR
000294 //* ********************************************************************
000295 //* Member: KDSJPSC3
000296 //* Master Source: TDITNT.DEV.ITM63053.TKANSAM(KDSPRMLB)
000297 //* KCIJPUP1 Batch Job Output:
000298 //*    TDITNT.OMEGAMON.TEST&SYSNAME..IKANSAMU(KDSJPSC3)
000299 //* $PARSE Batch Job Output:
000300 //*    TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KDSJPSC3)
000301 //* ********************************************************************
000302 //* ********************************************************************
000303 //* Name: KDSJPSC3 input to the WKANSAMU(KCIJPSEC) security job to
000304 //*       refresh the KAES256 Tivoli Management Services (TMS) password
000305 //*       encryption member in
000306 //*       &RTEHLQ..TEST&SYSNAME..RKANPARU
000307 //* Standalone Job Version: WKANSAMU(KDSDKAES)
000308 //* ********************************************************************
000309 //KAES256  EXEC PGM=KGLCRYUT,REGION=0M
000310 //STEPLIB  DD DISP=SHR,
000311 //         DSN=TDITNT.DEV.ITM63053.TKANMOD
000312 //         DD DISP=SHR,
000313 //         DSN=CSF.SCSFMOD0
000314 //SYSPRINT DD SYSOUT=*
000315 //SYSTERM  DD SYSOUT=*
000316 //KBBENV   DD DUMMY
000317 //RKANPAR  DD DISP=SHR,
000318 // DSN=TDITNT.OMEGAMON.TEST&SYSNAME..WKANPARU(KAES256)
000319 //SYSIN    DD *
000320   "IBMTivoliMonitoringEncryptionKey"
000321 /*
```

- *If you are taking IBM-supplied defaults for Classic command tables and you only need to run the TMS password encryption step of KCIJPSEC, simply run the **WKANSAMU(KDSDKAES)** standalone job.*
- *KDSDKAES standalone job is ideal for when you change the password later on.*

Step 7. Submit batch jobs to complete the PARMGEN set-up -PARMGEN Global Security Exit Library Enhancements

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

Select option 1 to SUBMIT the composite jobs in WKANSAMU for RTE=ESYSMVS.
Alternatively, select other options to SUBMIT each job individually.
Press F1=Help for additional considerations when selecting options 4-14.

Note:  Enter ns (1s-14s) for detailed job/task status.


1.  KCIJVSUB Composite SUBMIT job          (See JCL comments)
    ** or **
2.  KCIJVALO Allocate runtime libraries
3.  KCIJVLOD Load TK*->RK* runtime libraries
4.  KCIJVSEC Product security                (Conditiona
5.  KCIJVUPV System Variables IEBUPDTE       (Condition
6.  KCIJVUSP USS preparation                 (Condition
7.  KCIJVUSS USS system set-up    (Authorization requir
8.  KCIJVSYS System set-up        (Authorization require
9.  KCIJVLNK ASM/Link RKANMODU modules        (Conditiona )
10. KCIJVIVP Configuration verification
11. KCIJVCPW Backup WK* work libraries       (Conditional)
12. KCIJVCPR Backup RK* production user libs (Conditional)
13. KCIJVW2R WK*->RK* deployment             (Conditional)
14. KCIJVMNT Composite maintenance job       (Conditional)
```

Save time!

New in 4Q12

All security exits are now initially stored in the global security exit library

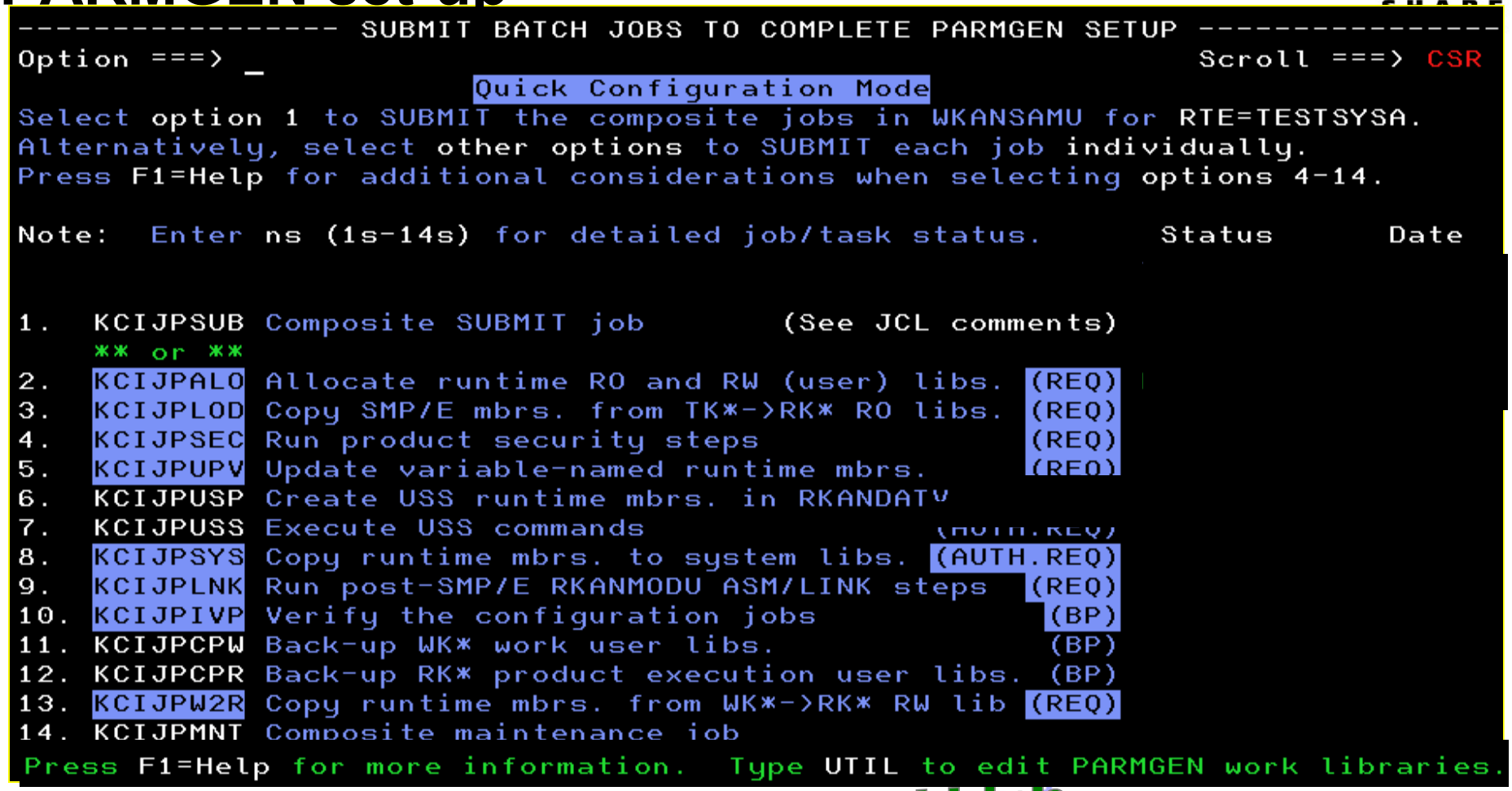
New in 1Q13

and automatically presented for customizing, prior to submitting the KCIJcSEC composite security job.

Long-standing requests - not in ICAT but now in PARMGEN!

Step 7. Submit batch jobs to complete the PARMGEN set-up -PARMGEN Global Security Exit Library Enhancements

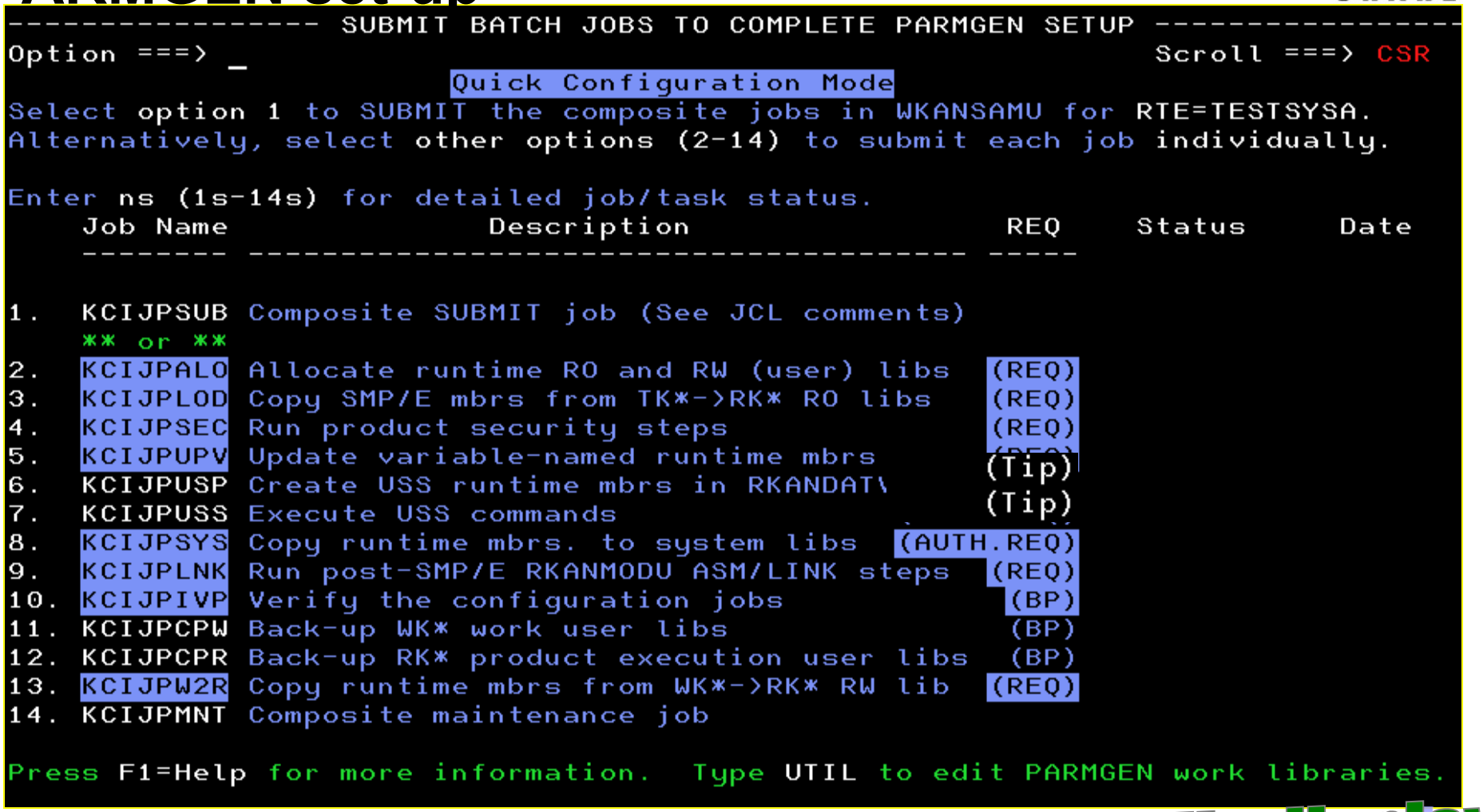
Step 7. Submit batch jobs to complete the PARMGEN set-up



Proposed job labels:

Do not flag "KCIJPUS*" as required if TEMS did not enable SDA or ITCAM for AD, SOA and OMXE Messaging QI Broker are not configured.

Step 7. Submit batch jobs to complete the PARMGEN set-up



Proposed job labels: Dynamically display labels only for required jobs

Step 7. Submit batch jobs to complete the PARMGEN set-up

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(KCIJPSUV) - 0 Columns 00001 00072
Command ===> _____________________________________________ Scroll ===> CSR
****** ***************************** Top of Data ********************************
000001 //KCIJPSUV JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
000002 //   MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
000003 //**   0 0   RTE_NAME=TEST&SYSNAME.
000004 //** \_~_/  SYSJOBNAME=KCIJPPRV
000005 //* ************************************************************
000006 //*
000007 //* NAME:      KCIJPSUV
000008 //*
000009 //* PURPOSE:   Submit the composite KCIJVSUB master WKANSAMU PARMGEN
000010 //*            auto-SUBMIT job to create the runtime environment
000011 //*            (TEST&SYSNAME.), instead of submitting the following jobs
000012 //*            individually:
000013 //*            ** Note: Jobs marked with "**" are not automatically
000014 //*               submitted.  See INSTRUCTIONS and NOTES section of
000015 //*               the KCIJPSUV job.  Also, KCIJVSUB submits KCIJPSUV.
000016 //*               KCIJPSUV has the actual SUBMIT commands that require
000017 //*               further review.
000018 //*            1. KCIJVALO composite runtime library allocation job
000019 //*            2. KCIJVLOD composite TK*->RK* runtime library load job
000020 //*            3. KCIJVUPV composite System Variables IEBUPDTE job
000021 //*            4. KCIJVUSP composite USS preparation job
000022 //*            5. KCIJVLNK composite ASM/LINK job
000023 //*            6. **KCIJVSEC composite product security job
000024 //*            7. **KCIJVUSS composite USS system set-up job
000025 //*            8. **KCIJVSYS composite system set-up job
000026 //*            9. **KCIJVIVP configuration verification job
```

If customer selects the composite KCIJPSUB job, current code provides the note that "(Conditional)" jobs or "(Auth. Required)" jobs (we used to) are not submitted automatically, by default.

Step 7. Submit batch jobs to complete the PARMGEN set-up

```
EDIT       TDITNT.OMEGAMON.TESTSYSA.WKANSAMU(KCIJPSUV) - 0 Columns 0
Command ===> ____________________________________________ Scroll
000086 //SUBMITC EXEC PGM=IEBUPDTE,PARM=NEW
000087 //SYSPRINT DD DUMMY
000088 //SYSUT2    DD DSN=&&TEMPPC,DISP=(,PASS),
000089 //             UNIT=SYSDA,SPACE=(TRK,(10,10,10)),
000090 //             DCB=(RECFM=FB,LRECL=80,BLKSIZE=8880)
000091 //SYSIN     DD  DATA,DLM=$$
000092 ./ ADD NAME=SUBMITC
000093 PROC 0
000094 CONTROL NOMSG NOFLUSH ASIS
000095 SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVALO)')
000096 SYSCALL DELAY_SUBMIT PLBJOB(KCIJVALO)
000097 SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVLOD)')
000098 SYSCALL DELAY_SUBMIT PLBJOB(KCIJVLOD)
000099 SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVUPV)')
000100 SYSCALL DELAY_SUBMIT PLBJOB(KCIJVUPV)
000101 SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVUSP)')
000102 SYSCALL DELAY_SUBMIT PLBJOB(KCIJVUSP)
000103 SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVLNK)')
000104 SYSCALL DELAY_SUBMIT PLBJOB(KCIJVLNK)
000105 /*SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVSEC)')
000106 /*SYSCALL DELAY_SUBMIT PLBJOB(KCIJVSEC)
000107 /*SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVUSS)')
000108 /*SYSCALL DELAY_SUBMIT PLBJOB(KCIJVUSS)
000109 /*SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVSYS)')
000110 /*SYSCALL DELAY_SUBMIT PLBJOB(KCIJVSYS)
000111 /*SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVIVP)')
000112 /*SYSCALL DELAY_SUBMIT PLBJOB(KCIJVIVP)
000113 /*SUBMIT ('TDITNT.OMEGAMON.TEST&SYSNAME..WKANSAMU(KCIJVCPR)')
```

FTU Phase2:

Proposed KCIJPSUB composite SUBMIT job change - tailor the commented-out-by-default jobs also (even the "dangerous" jobs that require "AUTH.REQ.")

Step 7. Submit batch jobs to complete the PARMGEN set-up

```
------------------- SUBMIT BATCH JOBS TO COMPLETE PARMGEN SETUP -----------------
Option ===> 10S                                                  Scroll ===> CSR
                         Quick Configuration Mode
Select option 1 to SUBMIT the composite jobs in WKANSAMU for RTE=TESTSYSA.
Alternatively, select other options (2-14) to submit each job individually.

Enter ns (1s-14s) for detailed job/task status.
    Job Name              Description                   REQ     Status     Date
    -------- ------------------------------------- ----- ---------- ----------

1.  KCIJPSUB Composite SUBMIT job (See JCL comments)
    ** or **
2.  KCIJPALO Allocate runtime RO and RW (user) libs   (REQ) RC= 00000 2013/08/08
3.  KCIJPLOD Copy SMP/E mbrs from TK*->RK* RO libs    (REQ) RC= 00000 2013/08/08
4.  KCIJPSEC Run product security steps               (REQ) RC= 00000 2013/08/08
5.  KCIJPUPV Update variable-named runtime mbrs       (REQ) RC= 00000 2013/08/08
6.  KCIJPUSP Create USS runtime mbrs in RKANDATV      (Tip)
7.  KCIJPUSS Execute USS commands                     (Tip)
8.  KCIJPSYS Copy runtime mbrs. to system libs   (AUTH.REQ) RC= 00000 2013/08/08
9.  KCIJPLNK Run post-SMP/E RKANMODU ASM/LINK steps   (REQ) RC= 00000 2013/08/08
10. KCIJPIVP Verify the configuration jobs            (REQ) RC= 00000 2013/08/08
11. KCIJPCPW Back-up WK* work user libs                (BP)
12. KCIJPCPR Back-up RK* product execution user libs   (BP)
13. KCIJPW2R Copy runtime mbrs from WK*->RK* RW lib   (REQ) RC= 00000 2013/08/08
14. KCIJPMNT Composite maintenance job

Press F1=Help for more information.  Type UTIL to edit PARMGEN work libraries.
```

When customer selects the KCIJPIVP job, the job produces a config. IVP report (select 10S to view the WCONFIG($IVPRPT))

Step 7. Submit batch jobs to complete the PARMGEN set-up

```
TDITNT.OMEGAMON.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       KCIJPCFG  J25401  13.210  09:54:32  00000
KCIJPUP1  OK       KCIJPUP1  J29893  13.213  18:53:09  00000
KCIJPCNV  OPTION
$PARSESV  OK       KCIJPPRV  J00829  13.217  09:50:01  00000
$PARSEPR  OPTION
$PARSESM  OPTION
KCIJPALO  OK       KCIJPALO  J02186  13.217  21:23:22  00000
KCIJPLOD  ERROR    KCIJPLOD  J02187  13.217  21:31:06  SE37
KCIJPUSP  EXISTS
KCIJPUSS  EXISTS
KCIJPSYS  EXISTS
KCIJPLNK  ERROR    KCIJPLNK  J02190  13.217  22:34:08  00012
```

Review any STATUS=ERROR in the IVP report

Step 7. Submit batch jobs to complete the PARMGEN set-up


```
HELP------------- SUBMIT BATCH JOBS TO COMPLETE PARMGEN SETUP -
COMMAND ===> _

On the PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME panel,
the "SUBMIT Submit batch jobs to complete PARMGEN setup" task
to submit batch jobs to complete PARMGEN setup for this RTE.

Press ENTER to read topics in sequence, or select topics by number.

    1  Overview - PARMGEN jobs in WKANSAMU
    2  KCIJPSUB/KCIJVSUB:   (Conditional)
    3  KCIJPALO/KCIJVALO:   (Required)
    4  KCIJPLOD/KCIJVLOD:   (Required)
    5  KCIJPUPV/KCIJVUPV:   (Required if RTE System Variables is enabled)
    6  KCIJPSEC/KCIJVSEC:   (Conditional)
    7  KCIJPUSP/KCIJVUSP:   (Conditional)
    8  KCIJPUSS/KCIJVUSS:   (Authorization required)
    9  KCIJPSYS/KCIJVSYS:   (Authorization required)
   10  KCIJPLNK/KCIJVLNK:   (Conditional)
   11  KCIJPIVP/KCIJVIVP
   12  KCIJcCPR/KCIJcCPW:   (Conditional)
   13  KCIJPW2R/KCIJVW2R:   (Conditional)
   14  KCIJPMNT/KCIJVMNT:   (Conditional)
   15  Complete the configuration and start t
```

Required to create STCs, VTAM node, etc. (symbolics) in their resolved names

Required if SDA is enabled (creates the USS dirs., copies mbrs. to USS, etc.)

Required to copy STCs, VTAM node, etc to system libraries

Required to deploy runtime mbrs. from WK* to RK* production execution libs.

Step 7. Submit batch jobs to complete PARMGEN setup – System Variables Considerations when submitting the jobs

If RTE is enabled for System Variables you are using symbolics in dataset names (RTE_NAME, RTE_HILEV,etc.):

- If you are **on SYSA LPAR** (example: TESTSYSA RTE), **submit the jobs as normal**.
- If you are **not on SYSA LPAR**:

Option#1: Use the **RTE_X_SYSV_OVERRIDE_SYMBOLS** parameter as we used in our TESTSYSA RTE example (we submitted the jobs while on SYST LPAR).
We set the **RTE_X_SYSV_OVERRIDE_SYMBOLS** to "Y" to override the symbol values by defining the symbols and their resolved values in the GBL_USER_JCL(TESTSYSA) SYSV profile (similar process when defining user-defined symbols)

Step 7. Submit batch jobs to complete PARMGEN setup – System Variables Considerations when submitting the jobs

Option#2: If you are not using the **RTE_X_SYSV_OVERRIDE_SYMBOLS** parameter:

- If you want to submit the SYS**A**-specific WKANSAMU jobs while on a different LPAR (SYS**T** for example), an alternative is to use *"/*JOBPARM SYSAFF=xxxx*" card in your WKANSAMU(KCIJV*) jobcard (where *xxxx* = LPAR system name where to execute the submitted jobs).
- Tip: Add this in your **WCONFIG($JOBCARD)** prior to submitting the WCONFIG($PARSESV) job -- in such a manner, the WKANSAMU(KCIJV*) SYS**A** jobs that $PARSESV 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. Submit batch jobs to complete the PARMGEN set-up *but you forgot to…..*

```
TDITNT.OMEGAMON.TESTSYSA.WCONFIG($IVPRPT)
** ------------------------------------------------------------------
** (Required) KAES256 encryption key:
** This is required if you are enabling the ITM Password Encryption
** (KAES256) across the ITM enterprise:  The
** "RTE_SECURITY_KAES256_KEY" value is encrypted and
** xKANPARU(KAES256) member is created as part of the
** xKANSAMU(KCIJPSEC) composite security or standalone KDSDKAES job.
.
** 2. Starting in ITM6.3.0, specification of the ICSF load library and
**    enabling the KAES256 key is required.
** 3. For an existing RTE, ensure that you rerun the
**    WKANSAMU(KCIJPSYS) job to refresh the TMS:Engine started tasks
**    in the system procedure library (GBL_DSN_SYS1_PROCLIB value).
** 4. Related PARMGEN CONFIG profile parameters:
**       - GBL_DSN_CSF_SCSFMOD0 (DSN value is concatenated in the
**         TEMS and Agent STCs' RKANMODL DD)
**       - KDS_TEMS_SECURITY_KAES256_ENCKEY (renamed to RTE_* nam
**       - KDS_KMS_SECURITY_COMPATMD (applicable to ITM6.3.0+ only
** ------------------------------------------------------------------
*RTE_SECURITY_KAES256_KEY    "IBMTivoliMonitoringEn
```

Uncomment

It takes minutes to rerun the $PARSE job again. Scratch-rebuild / Error
POC trial&error is easy. As one early adopter quoted:
"Once set up it is quite easy to re-run or modify settings."

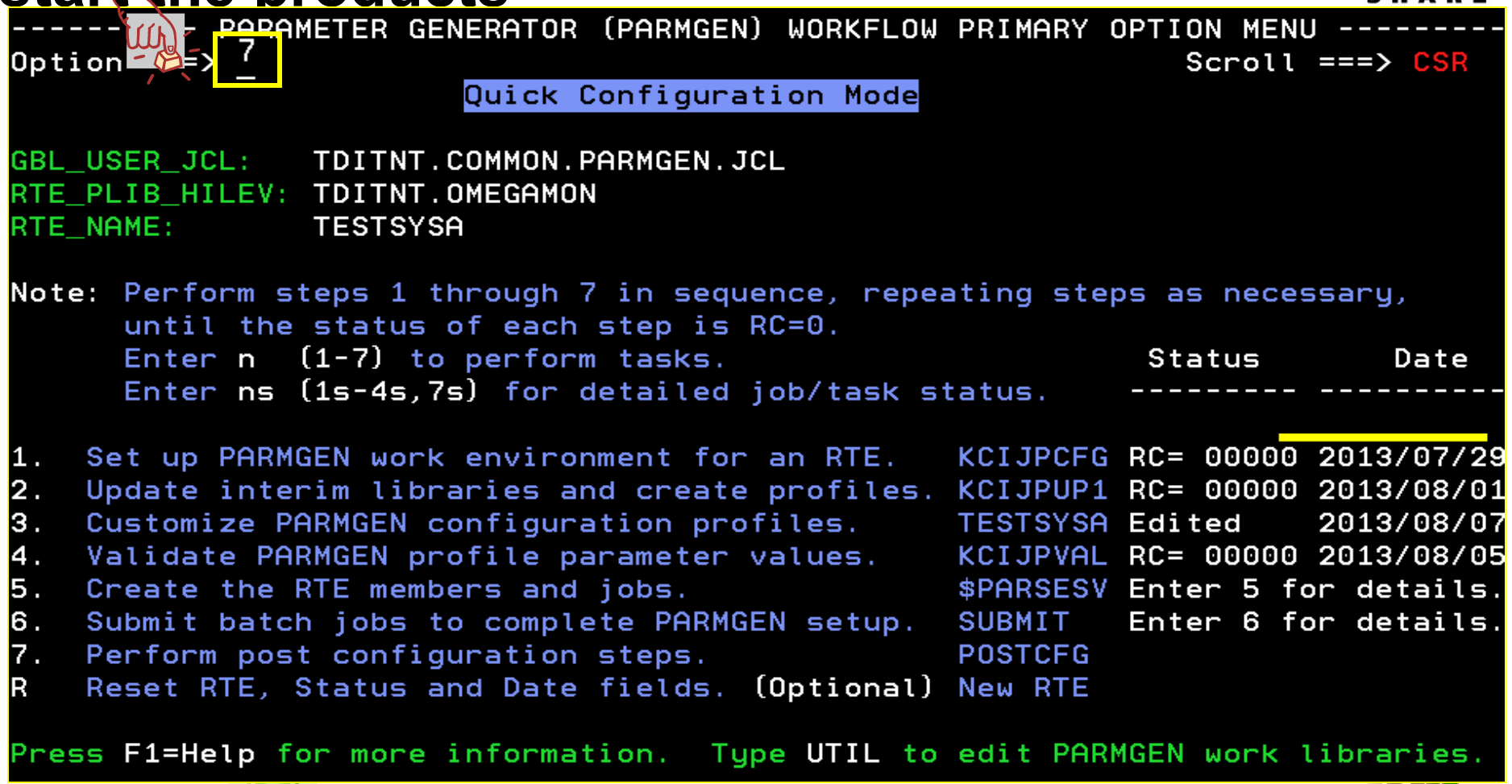
PARMGEN RTE Life Cycle:

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

Step 8. Complete the post-configuration steps


```
HELP------------- SUBMIT BATCH JOBS TO COMPLETE PARMGEN SETUP -
COMMAND ===> _

On the PARAMETER GENERATOR (PARMGEN) WORKFLOW - WELCOME panel,
the "SUBMIT Submit batch jobs to complete PARMGEN setup" task
to submit batch jobs to complete PARMGEN setup for this RTE.

Press ENTER to read topics in sequence, or select topics by number.

    1  Overview - PARMGEN jobs in WKANSAMU
    2  KCIJPSUB/KCIJVSUB:  (Conditional)
    3  KCIJPALO/KCIJVALO:  (Required)
    4  KCIJPLOD/KCIJVLOD:  (Required)
    5  KCIJPUPV/KCIJVUPV:  (Required if RTE System Variables is enabled)
    6  KCIJPSEC/KCIJVSEC:  (Conditional)
    7  KCIJPUSP/KCIJVUSP:  (Conditional)
    8  KCIJPUSS/KCIJVUSS:  (Authorization required)
    9  KCIJPSYS/KCIJVSYS:  (Authorization required)
   10  KCIJPLNK/KCIJVLNK:  (Conditional)
   11  KCIJPIVP/KCIJVIVP
   12  KCIJcCPR/KCIJcCPW:  (Conditional)
   13  KCIJPW2R/KCIJVW2R:  (Conditional)
   14  KCIJPMNT/KCIJVMNT:  (Conditional)
   15  Complete the configuration and start the products:  (Required reading)
```

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



Be green - save paper! Future on-line post-configuration README's

Proposed option '7' for on-line post-configuration README's

ETU phase2:

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

```
------------------POST-CONFIGURATION INSTRUCTIONS DISPLAY----- Row 1 to 3 of 3
Command ===> _

Select a Post-configuration instructions file to display

  KEY  Post-configuration instructions
  ---  ------------------------------------------------------------
_ REQ  Action Required: Post-configuration steps needing review
_ ALL  Consolidated list of all Post-configuration instructions files
_ KAG  Common Tivoli Enterprise Monitoring Agent (TEMA)
_ KDS  Tivoli Enterprise Monitoring Server V630
End of data
```

Proposed on-line post-configuration READMEs to be supplied by each product (PARMGEN-centric) to supplement the ICAT-centric post-config. READMEs available today.

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

```
VIEW       SYS1.PARMLIB(IEFSSN00) - 01.20                  Columns 00001 00072
Command ===> XF_RTN(K                                            Scroll ===> CSR
000125 SUBSYS SUBNAME(CNVW) INITRTN(KCNDLINT)
000126 SUBSYS SUBNAME(CNVX) INITRTN(KCNDLINT)
000127 SUBSYS SUBNAME(CNVY) INITRTN(KCNDLINT)
000128 SUBSYS SUBNAME(CNVZ) INITRTN(KCNDLINT)
- - -  - - - - - - - - - - - - - - - - 26 Line(s) not Displayed
000155 SUBSYS SUBNAME(EWSS) INITRTN(KCNDLINT)               /* E WICKER -CAM */
- - -  - - - - - - - - - - - - - - - - 74 Line(s) not Displayed
000230 SUBSYS SUBNAME(KLS1) INITRTN(KCNDLINT) INITPARM('SSPROC=S4KSCNDL')
000231 SUBSYS SUBNAME(KMQD) INITRTN(KMQASSIN)
000232 SUBSYS SUBNAME(KMQ1) INITRTN(KMQASSIN)
- - -  - - - - - - - - - - - - - - - - 4 Line(s) not Displayed
000237 SUBSYS SUBNAME(M5GB) INITRTN(KCNDLINT) INITPARM('SSPROC=M5GBCNDL')
000238 SUBSYS SUBNAME(M542) INITRTN(KCNDLINT) INITPARM('SSPROC=KCNDL')
000239 SUBSYS SUBNAME(M5VS) INITRTN(KCNDLINT)
- - -  - - - - - - - - - - - - - - - - 5 Line(s) not Displayed
000245 SUBSYS SUBNAME(PSSS) INITRTN(KCNDLINT)               /* E WICKER -CAM */
- - -  - - - - - - - - - - - - - - - - 18 Line(s) not Displayed
000264 SUBSYS SUBNAME(SYSG) INITRTN(KCNDLINT) INITPARM('SSPROC=OHGCN')
000265 SUBSYS SUBNAME(S2SS) INITRTN(KCNDLINT)               /* E WICKER -CAM */
- - -  - - - - - - - - - - - - - - - - 5 Line(s) not Displayed
000271 SUBSYS SUBNAME(VS51) INITRTN(KCNDLINT)
000272 SUBSYS SUBNAME(VSCN) INITRTN(KCNDLINT)
- - -  - - - - - - - - - - - - - - - - 2 Line(s) not Displayed
****** ***************************** Bottom of Data ******************
```

"Preinstallation Requirements and Instructions": URL: http://www.ibm.com/support/docview.wss?uid=swg21318692

SYSPREP Technote referenced in shared pubs.

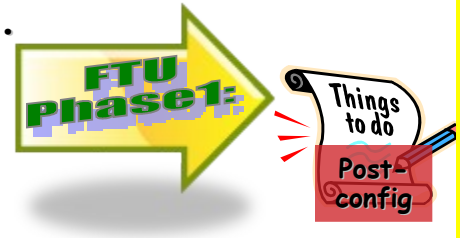
Step 8. Complete the post-configuration steps and start the products

```
//*********************************************************************
//* NAME: TIVDS TEMS ADDRESS SPACE
//* PURPOSE: STARTED TASK PROCEDURE TO RUN A HUB
//*          Tivoli Enterprise Monitoring Server (TEMS)
//*********************************************************************
//* PARMGEN Maintenance Level: FMID HKCI310 PTF UAXXXXX APAR OA42733
//* Work Environment:
//*    - WCONFIG: TDITNT.OMEGAMON.TEST&SYSNAME..WCONFIG
//*    - GBL_USER_JCL: TDITNT.COMMON.PARMGEN.JCL
//*    - GBL_DSN_SYS1_PROCLIB: SYS1.PROCLIB
//* ******************************************************************
//* Last updated by:
//*KDSJPUPB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,
//* MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,REGION=0M
//***  0 0  RTE_NAME=TEST&SYSNAME.
//*** \_~_/ SYSJOBNAME=KCIJPPRV
//* SYSDATE: 2013/08/01
.
//TIVDS PROC RGN=0M,TIM=1440,
//          SYS=TEST&SYSNAME.,
//          RHILEV=&RTEHLQ.,
//          BASEHLEV=&SMPHLQ..T,
//          USERCMDU=&RTEHLQ..TEST&SYSNAME..RKANCMDU,
//          USERPARU=&RTEHLQ..TEST&SYSNAME..RKANPARU,
//          USERSAMU=&RTEHLQ..TEST&SYSNAME..RKANSAMU,
//          RVHILEV=&RTEVHLQ,
```

✓*Sharable PROCs generated; user-defined symbols can be overriden @ startup or via the composite PARMGEN-supplied xxxxSTRT (TIVSTRT) already copied in PROCLIB.*

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

```
SYS1.PROCLIB(TIVSTRT)
//* ************************************************************
//* NAME:          TIVSTRT
//*
//* PURPOSE:       Sample composite STC JCL to START the product
//*                started tasks configured in this runtime environment
//*                (TESTSYSA).
//*
//* USAGE:
//*      /S TIVSTRT,AR=
.
//*************************************************
//* Tivoli Enterprise Management Server (TEMS)
//* TEMS type = HUB TEMS
//*************************************************
//*  TIVDS - Tivoli Enterprise Monitoring Server
// START TIVDS&AR,MSGCLASS=X,SMPHLQ=TDITNT.DEV.ITM63053,
//*START TIVDS&AR,MSGCLASS=X,SMPHLQ=TDITNT.PROD.ITM62351,
//*START TIVDS&AR,MSGCLASS=X,BASEHLEV=TDITNT.DEV.ITM63053.T,
//*START TIVDS&AR,MSGCLASS=X,BASEHLEV=TDITNT.PROD.ITM62351.T,
//*START TIVDS&AR,MSGCLASS=X,BASEHLEV=TDITNT.OMEGAMON.BASE1.R,
//*START TIVDS&AR,MSGCLASS=X,BASEHLEV=TDITNT.OMEGAMON.BASE2.R,
//  RTEHLQ=TDITNT.OMEGAMON,RTEVHLQ=TDITNT.OMEGAMON
```



✓*TIVSTRT can be set-up to define the startup user-defined symbols; samples can be provided how to flip the base (SMPHLQ TK* or read-only base (TK*/RK*) libs. by tweaking with the SMPHLQ value or BASEHLEV PROC symbols)*

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

Review the PARMGEN-supplied ***xxxx*STRT, *xxxx*STOP** and ***xxxx*APF** members. These members have already been copied from the RTE's WKANSAMU library to the GBL_DSN_SYS1_PROCLIB library as part of the KCIJ*c*SYS job run (if submitted).

```
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ===> /S TIVSTRT
```

Enhanced 3270UI

JOBNAME	JobID	Owner	Prty	Queue
TIVTOM	STC26629	TSUSER	15	EXECUTION
TIVCN	STC26631	TSUSER	15	EXECUTION
TIVDS	STC26632	TSUSER	15	EXECUTION
TIVM2RC	STC26633	TSUSER	15	EXECUTION
TIVM2HI	STC26634	TSUSER	15	EXECUTION
TIVM2EZ	STC26635	TSUSER	15	EXECUTION
TIVOC0	STC26636	TSUSER	15	EXECUTION
TIVOI0	STC26637	TSUSER	15	EXECUTION
TIVO2	STC26640	TSUSER	15	EXECUTION
TIVC5	STC26638	TSUSER	15	EXECUTION
TIVI5	STC26639	TSUSER	15	EXECUTION
TIVD5	STC26641	TSUSER	15	EXECUTION
TIVMQ	STC26642	TSUSER	15	EXECUTION
TIVN3	STC26644	TSUSER	15	EXECUTION

- ✓ *Composite xxxxSTRT, xxxxSTOP, xxxxAPF – big time saver!*
- ✓ *Long standing ICAT request*

Log-on to TOM and as long as at least one Hub TEMS (any platform) is on-line…

IBM/Tivoli

OMEGAMON

User ID : ccapi___
Password : _

Group : _____
New Password :

Note: Security class not specified. Authentication only.

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Data!

File Edit View Tools Navigate Help 08/04/2013 10:44:57
Auto Update : Off
Command ==> _ Plex ID :
KOBSTART Enterprise Summary Sys ID :

All Active Sysplexes

Columns 2 to 6 of 9 ← → ↑ ↓ Rows 1 to 1 of 1

◇Sysplex Name	ΔAverage ∇CPU Percent	Highest LPAR Name	ΔHighest ∇LPAR CPU%	ΔPercent LPAR ∇MSU Capacity	+LPAR Grou Name
_ LPAR400J	1	CANSP11	2	1.6	N/A

All Active DB2 Subsystems

Columns 3 to 7 of 29 ← → ↑ ↓ Rows 1 to 2 of 2

ΔDB2 ID ∇	ΔMVS ∇System ID	Lock Conflict	Lock Escalation	Lock Escalation	Lock Escalation	+DDF Rate
_ D91J	SYS	0	0	0	0.00	
_ D81D	SYS	0	0	0	0.00	

Monitored IMS Subsystems

Columns 2 to 7 of 12 ← → ↑ ↓ Rows 1 to 3 of 3

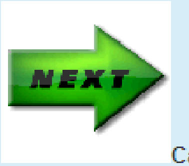
ΔIMS ∇ID	ΔIMSplex ∇Name	ΔMVS ∇ID	ΔSysplex ∇Name	Monitor Status	ΔDS ∇Group	ΔSQ ∇Group
_ I91A		SYS	LPAR400J	Online	IRLM91	NONE

Sunday August 04 2013 » HUB RTE NAV ΔMOREV

Open Q&A calls with R&D – please join us!

- *Discuss OMEGAMON XE V510 Installation and Configuration Live with PARMGEN R&D team*

Broadcast Invitation:	Discuss OMEGAMON XE V510 Installation and Configuration Live with PARMGEN R&D/OMEGAMON R&D team Purpose: Everyone is welcome to attend this open Q&A forum on PARMGEN and OMEGAMON/ITM-related topics.
Schedule:	see below



Planned Calls:

- Optionally Attend Either Session#1 *OR* Session#2 on 8/21/2013 and 8/28/2013:

- *8/21/2013 Featured topic: OMEGAMON Enhanced 3270 User Interface (enhanced 3270UI) and its Components*
  1. Session#1: 8/21/2013 (Wednesday) @ 02:00 p.m. ET (US)
  2. **Session#2: 8/21/2013 (Wednesday) @ 10:00 a.m. ET (US) ** *Session #2 is being scheduled for Wednesday for this month only (typically on a Thursday) ***

- *8/28/2013 Featured topic: What's New in PARMGEN 2Q13 and 3Q13 IFs?*
  1. Session#1: 8/28/2013 (Wednesday) @ 02:00 p.m. ET (US)
  2. **Session#2: 8/28/2013 (Wednesday) @ 10:00 a.m. ET (US) ** *Session #2 is being scheduled for Wednesday for this month only (typically on a Thursday) ***

- Previous Calls:

- Optionally Attend Either Session#1 *OR* Session#2: [*Featured topic: OMEGAMON Enhanced 3270 User Interface (enhanced 3270UI) Interim Feature 1 - Tivoli OMEGAMON Manager*]
  1. Session#1: 7/24/2013 (Wednesday) @ 02:00 p.m. ET (US)
  2. Session#2: 7/25/2013 (Thursday) @ 10:00 a.m. ET (US)

Open Q&A OMEGAMON enhanced 3270UI Chat with Dev (7th Meeting) - July 24 and 25 2013.zip

- Optionally Attend Either Session#1 *OR* Session#2: [Featured topic: PARMGEN System Variables Sup... and Tricks]
  1. Session#1: 6/12/2013 (Wednesday) @ 02:00 p.m. ET (US)
  2. Session#2: 6/13/2013 (Thursday) @ 10:00 a.m. ET (US)

URL: http://www.ibm.com/support/docview.wss?uid=swg21417935

Master PARMGEN Technote

SHARE
Technology · Connections · Results

Trugarez
Breton

Merci
French

நன்றி
Tamil

Gracias
Spanish

Salamat po
Tagalog
Philippine
s

شكراً
Arabic

감사합니다
Korean

תודה רבה
Hebrew

धन्यवाद
Hindi

多謝
Traditional
Chinese

Tack så mycket
Swedish

Teşekkürler
Turkish

Obrigado
Brazilian
Portuguese

go raibh maith agat
Gaelic

Ευχαριστώ
Greek

Tak
Danish

Grazie
Italian

Dankon
Esperanto

多谢
Simplified
Chinese

Hvala
Croatian

Danke
German

ありがとうございました
Japanese

ขอบคุณ
Thai

Terima Kasih
Malaysian

Thank You
English

Dank u
Dutch

Diakuju
Ukraine

Dekujeme Vam
Czech

Xie xie
Mandarin

Questions and/or Feedback:

Cecile Day (dayce@us.ibm.com)

Reference / Backup Materials

Our Most Important Validation – Our Customer Experience

Most Important Validation – Our Customer Experience

Recent quotes in 3Q13 (to-date):

- *"I walked him thru the PARMGEN process - he was wowed by the dynamics… 1-RTE generation can be achieved under 15-minutes. "*

- "*can't say enough good things on only have to run thru the PARMGEN sequence of jobs ONCE! The fact that I can include a product upgrade AND maintenance, I marvel at this."*

- "*Parmgen benefits:*
- *It is MUCH easier than ICAT to standardize your Omegamon installation procedures across RTE (either by your own standards or procedures provided by parmgen). A new colleague who gave up on ICAT is now doing the last parmgen migrations without any problems!*
- *In our case, we went from 3 post-ICAT modifications and 12 post-ICAT jobs to 2 post-parmgen modifications and 2 post-parmgen jobs!*
- *I'm actually looking FORWARD to the next upgrade cycle with parmgen, it will be much easier & faster than before!*
- *PARMGEN is a gem: if you still need to migrate to V510, do it with PARMGEN instead if ICAT now "*

Most Important Validation – Our Customer Experience

Recent quotes in 2Q13:

- *"this is my first time using the merge from backup, KCIJPMC1, for an existing RTE. This is awesome - great time saving!!!“*
- *“We are very pleased with the new (PARMGEN) installation method which helped them to save a lot of time. Great job!"*
- *"That’s really cool. That makes going between maintenance very quick without having to do a load on game day. I can instead do a load ahead of time."*
- *"1. What was the most helpful feature of Parmgen as you executed these scenarios? All the parameters are in one place although voluminous Like the ability to configure everything in one place. The biggest improvement is seeing all the parms. In one PARMGEN profile member and the composite PARMGEN jobs as I do all the install and configuration of the products. PARMGEN is a quantum leap over ICAT...Found the PARMGEN documentation useful to understand how the process works” "*

Most Important Validation – Our Customer Experience

Recent quotes in 2Q13: (continued)

- *"1. What was the most helpful feature of Parmgen as you executed these scenarios? "The way it was laid out .. logical order; Composite jobs; User defined variable a great help; Love the product (parmgen) compared to ICAT / Likes "Master PARMGEN profile – all parms. In one WCONFIG RTE member, Likes use of user-defined symbols", Likes composite PARMGEN jobs on few panels; in ICAT, it was scary as I never know what my jobs will do to my runtime members, Likes the WK* libraries to stage the changes).. Parmgen Reference Guide carried him through it; PGN05 scenario Redbook was excellent"*

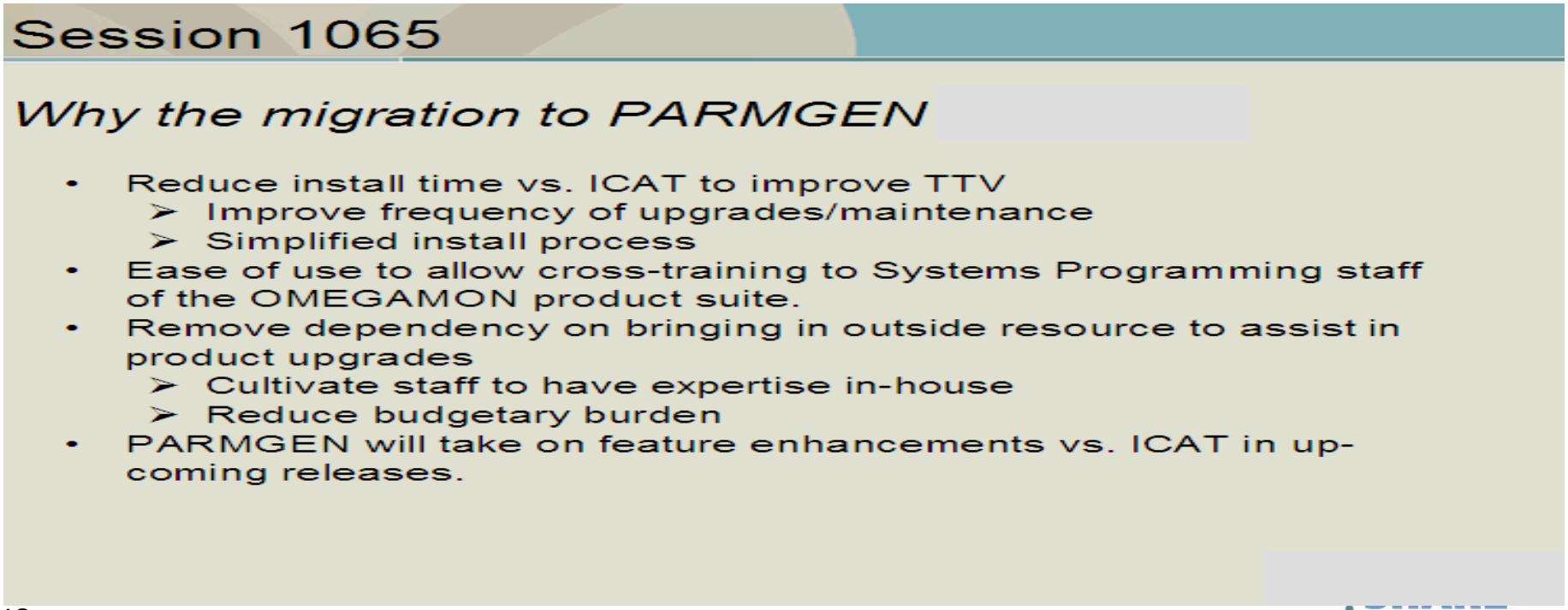
- *"With the changes you described and those I suggested above plus the fact the next time we upgrade we should be able to let PARMGEN migrate all our parameter settings in V5 to the next version, the next upgrade should be much easier"*

- *"We all fully migrated now to OMEGAMON V5.1 Thought you'd like to know start to end – 20 minutes. Also, my z/OS SysProg is extremely pleased to see the SYSPLEX views in the TOM ; he has not had this info before now. "*

Most Important Validation – Our Customer Experience

Recent quotes in 1Q13: (continued)

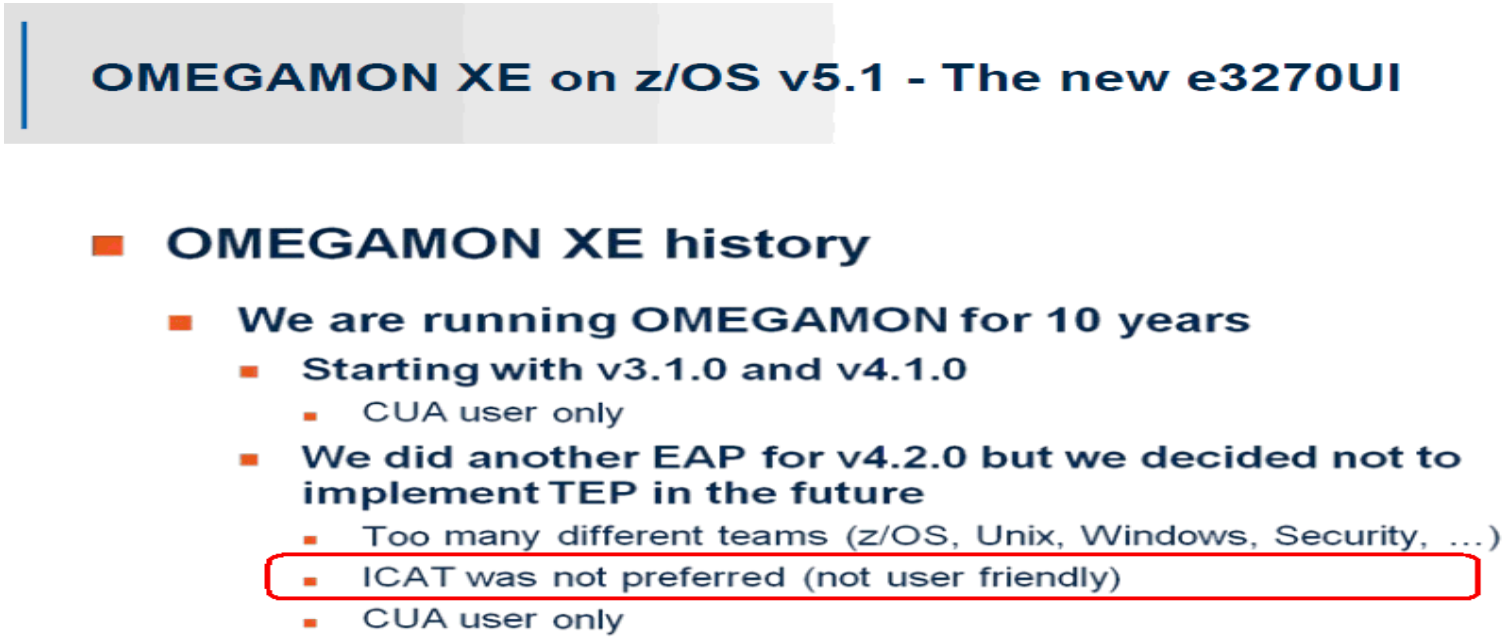
- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#1: Session AOZ-1065:**
- "***Time To Value was realized by reducing upgrade/product(s) validation time per LPAR by +60% (wall clock time)!***"



Most Important Validation – Our Customer Experience

Recent quotes in 1Q13: (continued)

- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#2: Session AOZ-1984:**



Most Important Validation – Our Customer Experience

Recent quotes in 1Q13: (continued)

- **Pulse 2013 Customer Presentations on PARMGEN and OMEGAMON Enhanced 3270 User Interface:**
- **#2: Session AOZ-1984:**

OMEGAMON XE on z/OS v5.1 - The new e3270UI

- **Benefits**
  - **PARMGEN installation tool**
    - Much faster installation – fewer steps than ICAT
    - Very smooth, more intuitive – more user-friendly

Most Important Validation – Our Customer Experience

Recent quotes in 1Q13: (continued)

- *"This is good news and might save me an extra change notice for the weekend "*
- *"I use PARMGEN, and my experience with PARMGEN is of complete satisfaction, I can create a brand new RTE in one day, this is a huge improvement compared with the ICAT, you did a great job with this tool"*
- *"Parmgen makes it all go faster than originally planned so I had some extra time (I know you love to hear this, but it's just true…)"*
- *"...3 golden stars for RTE_X_SECURITY_EXIT_LIB enhancement..the usefulness of RTE_X_SECURITY_EXIT_LIB is enormous to us, thanks for that enhancement. One of the bigger timesavers for us. "*

PARMGEN TTV Enhancements in 4Q12 (Highlights)

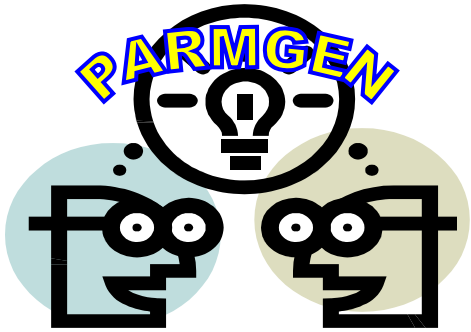
PARMGEN 4Q12 Base Contents (Highlights)

** **Base Contents:**

- Rearchitect the KCIJPW2R WK*->RK* Deployment job by providing support for non-PARMGEN controlled members to be preserved in the RK* user libraries as well as provide a user-controlled list of EXCLUDE members.
- Implement KOBSUPDT OMEGAMON security standardization of where the KppSUPDI (KOCSUPDI, KO2SUPDI, KOISUPDI, and KOMSUPDI) Classic command table exits can be maintained for user customizations so the composite KCIJPSEC security job can take advantage of using the common RTE_X_SECURITY_EXIT_LIB.
- Provide several APPCONFIG enhancements for the TEMS, e3270UI, and a number of OMEGAMON products.
- Provide several APPCONFIG enhancements for the 2013 versions (March 2013 EAP schedule).

Enablement Support:

- **Common Infrastructure**:
  - **4Q12A** APAR#: OA40035 for **HKCI310**
  PTF UA67172 (GA 12/27/2012)



See PARMGEN Technote for the full list of 4Q12 Interim Feature enhancements

PARMGEN TTV Enhancements in 1Q13 (Highlights)

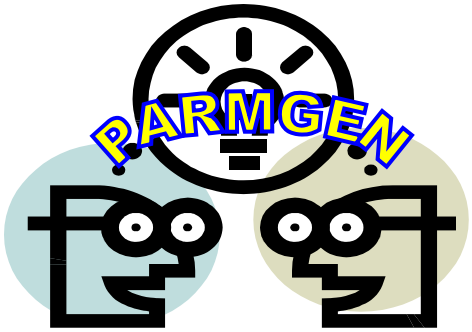
PARMGEN 1Q13 Base Contents (Highlights)

** Base Contents:

- Provide additional global RTE options on the KCIJPCFG panels to create a more-tailored, out-of-the box PARMGEN RTE CONFIG profile.
- Support a more automated PARMGEN RTE CONFIG profile refresh mechanism when common and/or global RTE configuration values are modified. Provide the option to refresh the PARMGEN user profiles (RTE and GBLUSR) automatically when any global RTE values, configured product mix, etc. on the KCIJPCFG panels, are changed.
- Provide several APPCONFIG enhancements for the 2013 versions of 38 components (March 2013 EAP schedule).

Enablement Support:

- **Common Infrastructure**:
  - **1Q13A** APAR#: OA40649 for **HKCI310**
    PTF UA67787 (GA 02/28/2013)



See PARMGEN Technote for the full list of 1Q13 Interim Feature enhancements

PARMGEN 1Q13 Base Contents (Highlights)

Highlights of GA'd changes in PARMGEN since OMEGAMON XE V510 was released:

Change	Benefit
Implement OMEGAMON security standardization.	Instead of many different application implementations, give customers one place to lock-down OMEGAMON security exits.
Added two global parameters for quicker out-of-the box configuration.	First-time installers now have 490 fewer parameters to customize to get to proof-of-concept.
Automatically refresh PARMGEN profiles whenever configuration changes are made after initial RTE deploy.	75% reduction in steps for this refresh activity.
Automatically incorporate local variables (if defined) into the PARSE job.	50% reduction in the number of jobs needed to incorporate local overrides to system variables.
Automatically incorporate changes to program storage values.	Use changed (larger) storage values for programs to ensure they run properly.

PARMGEN 1Q13 Base Contents (Highlights)

Highlights of GA'd changes in PARMGEN since OMEGAMON XE V510 was released:

Change	Benefit
Provide a System Variables job to resolve symbolics in any PARMGEN jobs.	This can be used for any of the standalone jobs that copy globals or allocate product-specific datasets for verification purposes.
Provide a report detailing system variable usage.	Variables and values are displayed which can tell you where you might need to provide local overrides for some variables.
Provide support for including/removing Health-Check.	Jobs are automatically streamlined when HC is not used.
Provide back-up restore for a system-variable enabled RTE.	If customers don't like the results, they can restore the previous.
Use user-supplied SMS values for dataset allocation.	Prevents inaccuracies when just inheriting SMS values.
Display PARMGEN IVP results when "status" is selected.	Puts the information in front of the user for debug purposes.

PARMGEN TTV Enhancements in 2Q13 (Highlights)

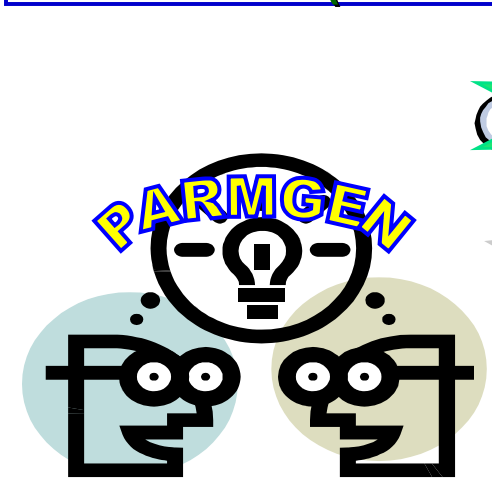
PARMGEN 2Q13 Base Contents (Highlights)

** **Base Contents:**

- Provide configuration exploitation support for:
  - ITM6.3.0 FP1 (Identity Manager / OMEGAMON Agent command request / ICSF support, etc.)
  - OMEGAMON XE on z/OS V5.1.1 IF1 (zAware ICSF support, etc.)
  - OMEGAMON XE for Mainframe Networks V5.1.1 FP1 (SDA storage requirements)
  - OMEGAMON enhanced 3270UI V7.0.0 IF1
- Provide various ease-of-use PARMGEN Workflow UI configuration framework enhancements.

Enablement Support:

- Common Infrastructure: 2Q13A
  - APAR#: OA41710 for **HKCI310 PTF UA69076 (GA 06/30/2013)**
  - APAR#: OA42423 for **HKDS630 PTF UA69363 (GA 06/30/2013)**



**

**See PARMGEN Technote for the full list of 2Q13A Interim Feature enhancements

PARMGEN 2Q13 Base Contents (Highlights)

Highlights of PARMGEN changes in PTF UA69076:

Change	Benefit
OMEGAMON XE V511 IF1 & ITM630 FP1 application configuration enhancements	Incorporates support for changes and additions in v511 applications.
Added two global parameters for quicker out-of-the box configuration.	First-time installers now have 49 fewer parameters to customize to get to proof-of-concept.
Added parameters and coding to support security-related improvements around ITM Take Action commands.	Take Action commands from TEMS to Agents can now be more granularly secured.
Added a parameter to support directory permissions on USS.	When creating UNIX directories (such as those used for support of SDA), do so with the customers desired permissions for directories.

PARMGEN 2Q13 Base Contents (Highlights)

Highlights of PARMGEN changes in PTF UA69076:

Change	Benefit
Provide a separate job to clear out production libraries before replacing them with newly desired content.	Removing older content ensures that no undesired items remain in production data sets; doing so in a separate job means started tasks no longer need to be recycled.
Provide a job to compare test and production libraries.	Enables customers to quickly visualize differences before moving test into production.
Enhance the System Variable report job to include user-defined variables and their current values.	The report now includes the full range (all types) of variables PARMGEN supports and their current values (for debugging purposes). This report can also be reused as input back into the PARMGEN process
Expose PARMGEN PARSE-related default parameters in the PARSE job.	Customers can changes these exposed parameters to suit their desired outcomes, such as eliminating detailed reports from the PARSE process.

Planned PARMGEN TTV Enhancements in 3Q13 (Highlights)

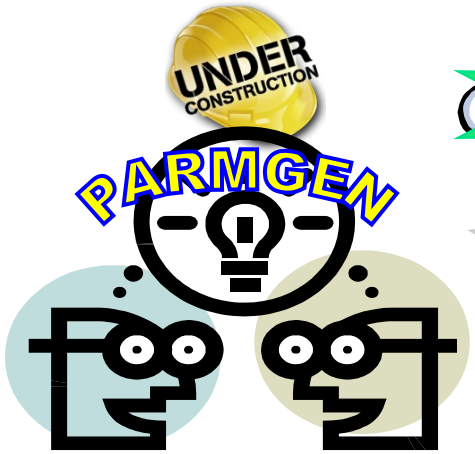
PARMGEN 3Q13 Base Contents (Highlights)

Planned Base Contents:

- Provide various ease-of-use PARMGEN Workflow UI configuration framework enhancements catered to first-time and advanced users.
- Provide additional JES3 support in a number of PARMGEN jobs to accommodate special JES3 set-up.
- Standardize remaining product started task names (for Persistent Datastore, TEMS & OMXE Storage) and global VTAM major node name to use the standard RTE VTAM pfx.
- Provide various Persistent Datastore TEMS and common Agent configuration enhancements.
- Provide configuration support:
  - OMEGAMON enhanced 3270UI High Availability (HA) Hub KOBAGENT startup
  - OMEGAMON XE for CICS KOCBRACF security exit/ module processing

Enablement Support:

- **Common Infrastructure: 3Q13A**
  - APAR#: OA42733 for **HKCI310 PTF UAnnnnn (ETA GA 09/30/2013)**



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**See PARMGEN Technote for the full list of 3Q13A Interim Feature enhancements

PARMGEN Documentation and Shared Publication

Shared Publications - *PARMGEN Reference (Scenarios-based) / enhanced 3270UI Users Guide:*

IBM

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Country/regi

Search: Go Scope: All topics

Contents

IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS shared publications

The information in these publications applies to version 6.3.0 FP1 of Tivoli Management Services and the z/OS configuration software that su APAR OA41710 applied), and to the OMEGAMON enhanced 3270 user interface V7.0.0 IF1.

This information applies to the following OMEGAMON XE products:

- OMEGAMON XE for DB2 Performance Expert on z/OS V5.1.1
- OMEGAMON XE for DB2 Performance Monitor on z/OS V5.1.1
- OMEGAMON XE for IMS on z/OS V5.1.0
- OMEGAMON XE for Mainframe Networks V5.1.0 and V5.1.1
- OMEGAMON XE for Messaging V7.1.0,
- OMEGAMON XE for Storage on z/OS V5.1.0
- OMEGAMON XE on z/OS V5.1.0 and V5.1.1
- OMEGAMON DE on z/OS V5.1.0

Learning	Tasks	Community and support

Get started doing basic and advanced tasks. For a list of tasks you can perform, even before you receive your software package, to make installation and setup go more smoothly and quickly, see the Preinstallation Requirements and Instructions Technote at http://www.ibm.com/support/docview.wss?uid=swg21318692.

Getting started

use the latest version (under "Version 6.3.0" July 2013) -- they are downward
compatible (i.e., use the shared pubs. under "Version 630"
link although you may still have ITM V623 configured)Always

PARMGEN Documentation (Shared Publications)

SHARE Technology · Connections · Results

- ***Publications updated to introduce PARMGEN:***
  - Tivoli® OMEGAMON XE Monitoring Agents on z/OS ***Quick Start Guide***
  - Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS ***Preinstallation Requirements and Instructions***
  - Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS ***PARMGEN Reference*** ← Scenarios includes enhanced 3270UI and PARMGEN config.
  - Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS ***Common Parameter Reference*** ← Includes enhanced 3270UI KOB* parms.
  - Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS ***Upgrade Guide***
  - Tivoli® Management Services on z/OS ***Configuring the Tivoli Enterprise Monitoring Server on z/OS***
  - Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS ***Common Planning and Configuration Guide***
  - Product-specific ***Parameter Reference*** guides and planning and configuration guides

Refreshed in July 2013

Planned Refresh in February 2014

PARMGEN Documentation (Shared Publications)

- **Additional handy OMEGAMON Enhanced 3270 User Interface Technotes and Links:**

"Troubleshooting no data conditions on the OMEGAMON Enhanced 3270 User Interface": **URL**: http://www.ibm.com/support/docview.wss?uid=swg21610269

- ***"Configuring OMEGAMON Enhanced 3270 User interface security"***: **URL**: http://www.ibm.com/support/docview.wss?uid=swg21606218
- ***"Customizing the initial workspace and related log-on profile for the OMEGAMON enhanced 3270 user interface"***: **URL**: http://www.ibm.com/support/docview.wss?uid=swg21607391
- "***OMEGAMON Enhanced 3270 User Interface and support for OMEGAMON Agent versions prior to 5.1.0 "***: **URL**: http://www.ibm.com/support/docview.wss?uid=swg21610594

- **OMEGAMON Enhanced 3270UI Security configuration**: **URL**: http://pic.dhe.ibm.com/infocenter/tivihelp/v15r1/topic/com.ibm.omegamon_share.doc_6.3/zcommonconfig/complete_e3270_cpcg.htm

- **OMEGAMON Enhanced 3270 User Interface Guide**: **URL**: http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/index.jsp?topic=%2Fcom.ibm.itm.doc_6.3%2Fwelcome.htm
- **OMEGAMON Enhanced 3270UI Messages**: **URL**: http://pic.dhe.ibm.com/infocenter/tivihelp/v61r1/topic/com.ibm.itm.doc_6.3/messages/kob_messages.htm

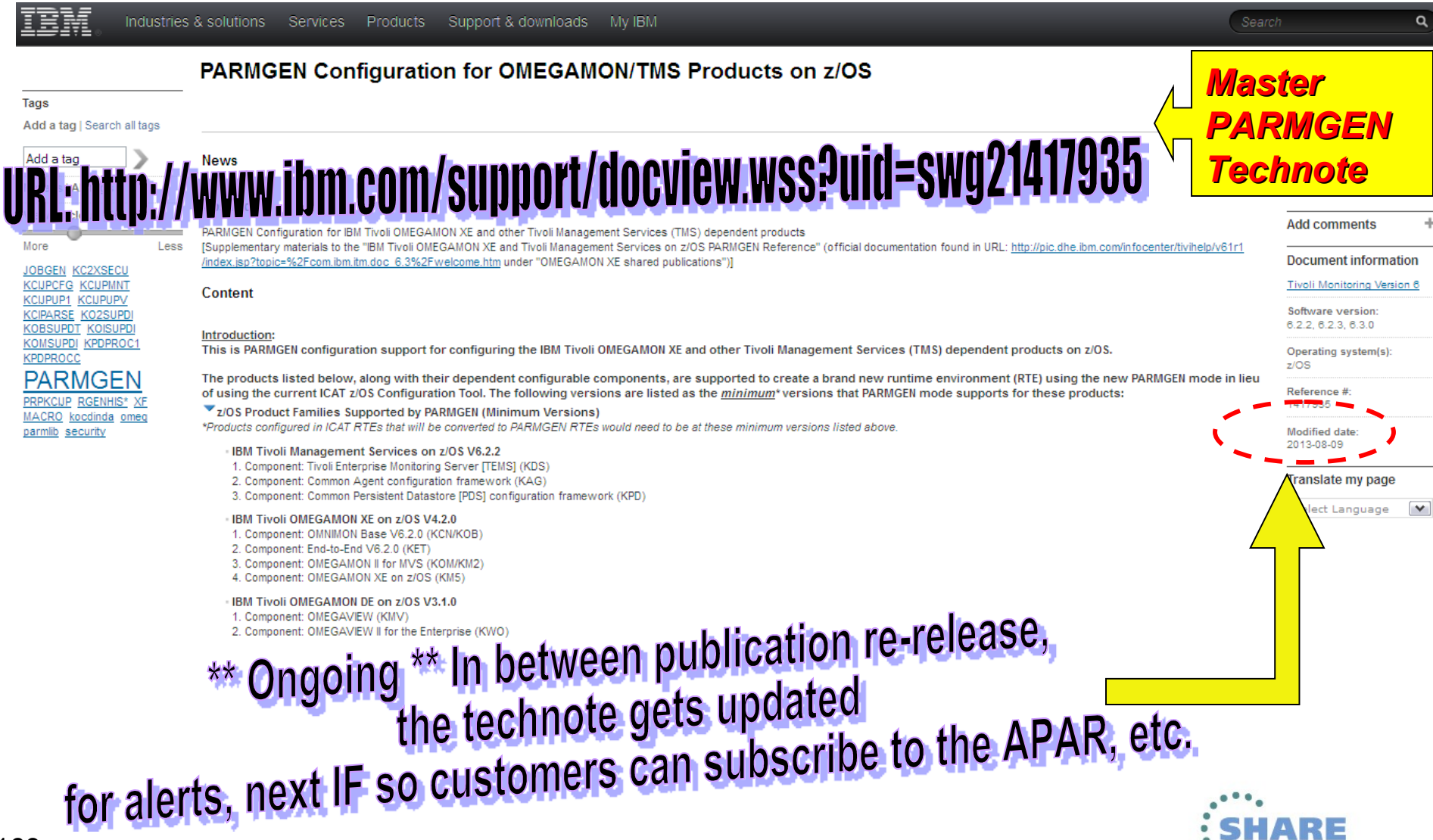
Refreshed in July 2013

PARMGEN Documentation (Shared Publications)

- Additional handy planning, ordering, installation/maintenance and configuration-related technotes:
  - Planning and Ordering: "*Locating ITM Workspace Application Support Files for z/OS Agents* ": URL: http://www.ibm.com/support/docview.wss?uid=swg21255545
  - Planning and Ordering: "*Preinstallation Requirements and Instructions* ": URL: http://www.ibm.com/support/docview.wss?uid=swg21318692
  - Installation: "*Recommended Maintenance Service Levels for OMEGAMON XE products on ITM V6.x* ": URL: http://www.ibm.com/support/docview.wss?uid=swg21290883
  - Installation: "*ITM Platform Maintenance Tables* ": URL: http://www.ibm.com/support/docview.wss?rs=203&uid=swg27008514
  - Configuration: *Master PARMGEN technote "PARMGEN Configuration for OMEGAMON/ITM Products on z/OS* ": URL: http://www.ibm.com/support/docview.wss?uid=swg21417935
  - Upgrading: *Feature documents: OMEGAMON V510 ITM V623 on z/OS*": URL: http://www.ibm.com/support/docview.wss?uid=swg21626495

Refreshed in August 2013

PARMGEN Documentation (Master Technote)



** Ongoing ** In between publication re-release,
the technote gets updated
for alerts, next IF so customers can subscribe to the APAR, etc.

PARMGEN Documentation (Master Technote) (cont'd)

Enablement Support: updated *Date Last Updated: 20130704)*

Download the latest GA PARMGEN PTFs and let ' s get started!

APAR#	FMID / PTF#	Interim Feature (IF) Release Date
OA37250 OA37631	HKCI310/UA61757 HKDS623/UA62353	January 26, 2012 (1Q12A)
OA38375 OA38366	HKCI310/UA63670 HKDS623/UA63672 HKDS622/UA63671	February 26, 2012 (1Q12B)
OA39386 OA38938	HKCI310/UA65042 HKDS623/UA64408	April 26, 2012 (2Q12A)
OA38937	HKCI310/UA64407	June 15, 2012 (2Q12B)
OA39626 OA40072 OA40196 OA39630 OA40162	HKCI310/UA66338 HKDS623/UA66248	August 31, 2012 (3Q12A)
OA39890	HKCI310/UA66332	September 22, 2012 (3Q12B)
OA40035	HKCI310/UA67172	December 27, 2012 (4Q12A)
OA40649 OA41145	HKCI310/UA67787 HKDS623/UA67687	February 28, 2013 (1Q13A)
OA41710 NEW! OA42423 NEW!	HKCI310/UA69076 HKDS630/UA69363	*GA* June 30, 2013 (2Q13A) NEW!
OA42733 NEW!	HKCI310/UAXXXXX	*ETA GA TBD* (3Q13A) NEW!

2Q13
3Q13
NEXT

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Details:
In the "**Attachments**:" section of this technote is a detailed discussion of the following PARMGEN topics:
TIP: : As you navigate through the larger sections of this document, do a FIND on "***Date Last Updated:***" to quickly see if the frequently-subscribed Section(s) such as "***Section: What's New in nQyyA/nQyyB IF?***", "***Section: What will be in nQyyA/nQyyB IF?***" or "***Section: FAQs***" have been updated recently. Each applicable Section will have a " (updated *Date Last Updated: yyyymmdd)*" label for readability and ease-of-use.

NEW

- *Section: What's new? (GA) Sub-section: What's New in 2Q13A?: *GA*<--- *** Required reading ** (updated Date Last Updated: 20130628)*
- *Section: What will be in 3Q13A IF? (updated Date Last Updated: 20130809)*
- *Section: FAQs (updated Date Last Updated: 20130803)*
- *Section: (Reference Only) Previous nQyyA/nQyyB Interim Features (IFs (updated Date Last Updated: 20130803)*

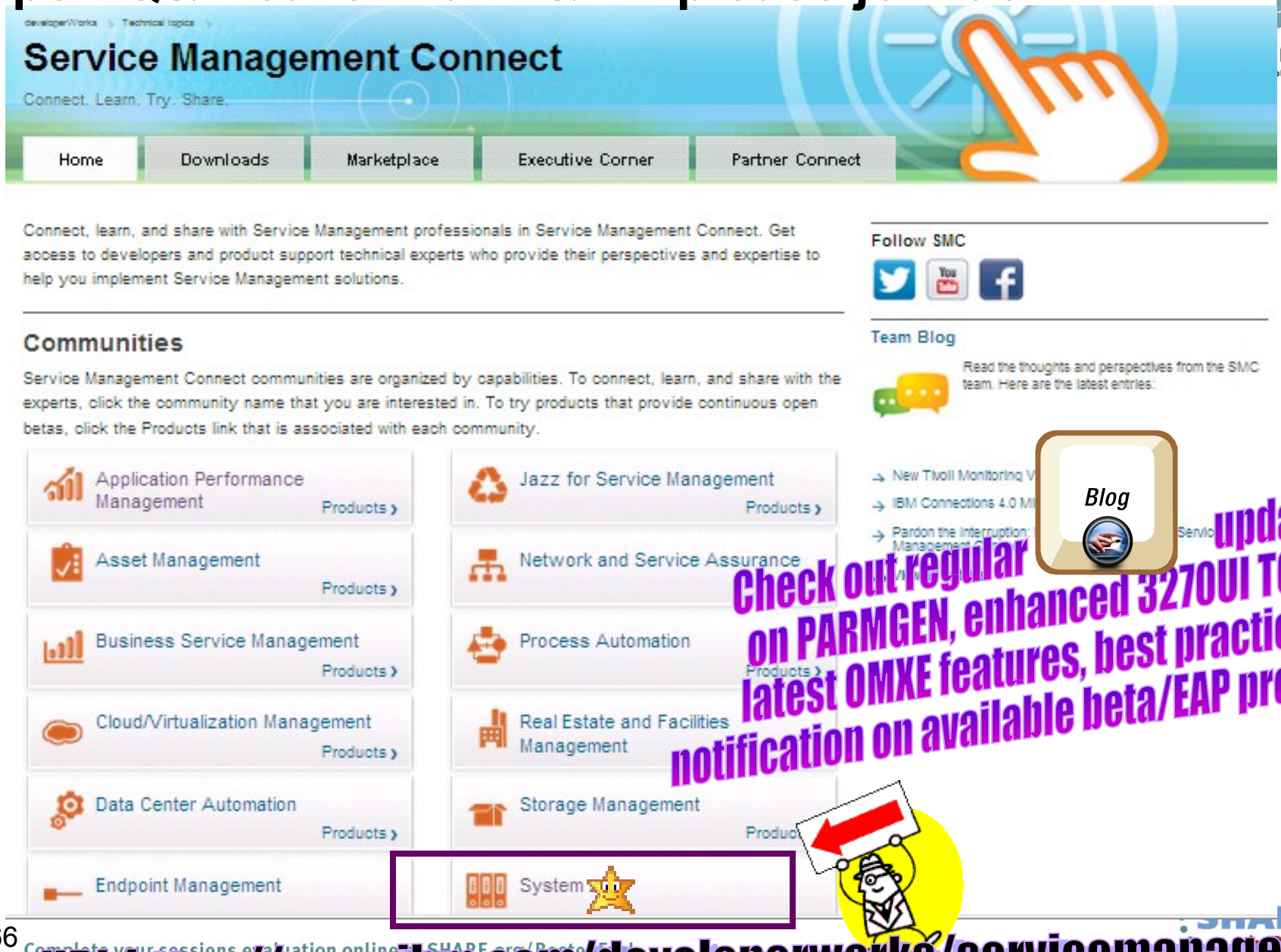
Ongoing updates to the "What's New", "FAQs" (framework or APPCONFIG updates across 38 components]

Open Q&A calls with R&D – please join us!

- *Discuss OMEGAMON XE V510 Installation and Configuration Live with PARMGEN R&D team*

Broadcast Invitation:	Discuss OMEGAMON XE V510 Installation and Configuration Live with PARMGEN R&D/OMEGAMON R&D team Purpose: Everyone is welcome to attend this open Q&A forum on PARMGEN and OMEGAMON/ITM-related topics.
Schedule:	 Planned Calls: Optionally Attend Either Session#1 *OR* Session#2 on 8/21/2013 and 8/28/2013: *8/21/2013 Featured topic: OMEGAMON Enhanced 3270 User Interface (enhanced 3270UI) and its Components* 1. Session#1: 8/21/2013 (Wednesday) @ 02:00 p.m. ET (US) 2. **Session#2: 8/21/2013 (Wednesday) @ 10:00 a.m. ET (US) ** *Session #2 is being scheduled for Wednesday for this month only (typically on a Thursday) *** *8/28/2013 Featured topic: What's New in PARMGEN 2Q13 and 3Q13 IFs?* 1. Session#1: 8/28/2013 (Wednesday) @ 02:00 p.m. ET (US) 2. **Session#2: 8/28/2013 (Wednesday) @ 10:00 a.m. ET (US) ** *Session #2 is being scheduled for Wednesday for this month only (typically on a Thursday) *** Previous Calls: Optionally Attend Either Session#1 *OR* Session#2: [*Featured topic: OMEGAMON Enhanced 3270 User Interface (enhanced 3270UI) Interim Feature 1 - Tivoli OMEGAMON Manager*] 1. Session#1: 7/24/2013 (Wednesday) @ 02:00 p.m. ET (US) 2. Session#2: 7/25/2013 (Thursday) @ 10:00 a.m. ET (US)  Open Q&A OMEGAMON enhanced 3270UI Chat with Dev (7th Meeting) - July 24 and 25 2013.zip Optionally Attend Either Session#1 *OR* Session#2: [Featured topic: PARMGEN System Variables Support: Tips and Tricks] 1. Session#1: 6/12/2013 (Wednesday) @ 02:00 p.m. ET (US) 2. Session#2: 6/13/2013 (Thursday) @ 10:00 a.m. ET (US)

Open Q&A calls with R&D – please join us!



URL:https://www.ibm.com/developerworks/servicemanagement/

Open Q&A calls with R&D – please join us!

System z Management

Connect, learn, and share with the experts

Save the date!

Broadcast notifications will be sent out

Discuss OMEGAMON V510 Installation and Configuration Live with PARMGEN R&D team on Wednesday, March 27th and April 17th [10 a.m. Eastern (US)]

Cecile_Day | Mar 26 | Comments (2) | Visits (1190)

This blog has the web/audio conference details

Aug. 21st, Aug. 28th

NEXT

Open Q&A calls with R&D – log-on details

- ***Thank you for your attendance and participation so far!***

1. Client/Site names derived from the e-mail logon or company name provided when you logged on to the Lotus Live web conference.
2. For better tracking purposes, kindly supply your e-mail address and company name. Thank you!

URL: https://www.webdialogs.com/join?schedid=3493973

PARMGEN Toolkit

- *Reference: Pulse 2013 PARMGEN Hands-on Lab Guide*
- *Reference: Recorded Training:*

1. *IBM Software for System z Events: February 21, 2013 teleconference: "Enhanced OMEGAMON V5.1 Installation and configuration saves time and money – The JOBGEN/PARMGEN Approach"*
2. *Support Technical Exchange (STE): *Part 2** Good news for maintenance windows - install, configure and upgrade OMEGAMON/ITM suite faster using JOBGEN/PARMGEN*

- *Reference: FAQs and Best Practices*
- *Reference: PARMGEN Sample Scenarios*
- *Reference: PARMGEN Documentation (Master PARMGEN Technote and OMEGAMON Enhanced 3270 User Interface Technotes/Links)*
- *Reference: Recommended Maintenance, Wikis and Links*

Full version of this presentations are attached in the PARMGEN technote:

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

Pulse 2013 PARMGEN Lab Guide Posted

- ***Source: Master PARMGEN technote***
- ***Presentations and Upcoming Training Sessions:***
- ***Pulse 2013 PARMGEN Session E02 Hands-on Lab Guide Pulse 2013 Session E02 PARMGEN Hands on Lab Guide (D20130326).zip (Date Last Updated: 20130326)***
- ***At the IBM Pulse 2013 Conference in Las Vegas, Nevada held in March 2013, PARMGEN hosted a hands-on lab training. For your reference, Session E02 PARMGEN Hands-on Lab. Guide is also now available for downloading.***
- ***Two scenarios are supplied to get you acquainted with the PARMGEN method of configuration.***
- ***.Scenario PGN01: Create an SMP-sharing runtime environment (RTE) with a z/OS Hub TEMS and OMEGAMON Agents. This first scenario simulates a brand new deployment such as a new install or a deployment for a Proof of Concept (PoC) to cater to our first time users.***
- ***.Scenario PGN02: Convert an existing Configuration Tool (ICAT) RTE to PARMGEN and upgrade the products to the current release. This second scenario simulates a real-world upgrade for an existing customer who has a mix of products. In the real world, perhaps not all of your products would be upgraded, but all in the RTE are converted to use PARMGEN where existing configuration values established in ICAT may be harvested and re-used in PARMGEN.***

Support Technical Exchange Playback Links

- *These Support Technical Exchange (STE) sessions covered the following topics:*
  - *** Part 2 focused on the live demonstration of creating 2 PARMGEN RTE Scenarios ****
  - *** Part 1 covered up to slide #50 of the PDF*
- *These sessions are recorded. See the following information for the Centra Playback Links:*
  - **Playback Centra URL:**
  - **Centra Password: tiv0li (0 is a zero)**
  - **Part 2 URL:** https://de202.sabameeting.com:443/GP/main/00000183cb250000013b0d4e155b8283
  - **Part 1 URL:** https://de202.sabameeting.com:443/GP/main/00000016bb63e0000013a98f7643f8da0

Reference / Backup Materials

- *Reference: FAQs and Best Practices*
- *Reference: PARMGEN Sample Scenarios*
- *Reference: PARMGEN Documentation (Master PARMGEN Technote and OMEGAMON Enhanced 3270UI Technotes/Links)*
- *Reference: Recommended Maintenance, Wikis and Links*

Full version of this presentation is attached in the PARMGEN technote:

URL: http://www.ibm.com/support/docview.wss?uid=swg21417935

PARMGEN Scenarios

*** Scenarios Covered from Live Demonstration ***

Centra Playback Links: (Password: tivOli (O is a zero)) Part 2
URL: https://de202.sabameeting.com:443/GP/main/00000183cb250000013b0d4

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PARMGEN Workflow User Interface – Sample Scenarios

Centra Playback Links: (Password: tivOli (O is a zero)) Part 2
URL: https://de202.sabameeting.com:443/GP/main/00000183cb250000013b0d4

SHARE in Boston

PARMGEN Scenarios Previously Covered

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 PARMGEN TESTSYSA RTE (runs on SYSA LPAR) to run on another LPAR (new PARMGEN TESTSYSB RTE to run on SYSB LPAR).

PARMGEN Scenario #3: Convert/Upgrade (RTE=TESTSYSC): Convert an ICAT RTE to PARMGEN. Upgrade the z/OS Remote TEMS (from pre-V623 to V623) and OMEGAMON XE on z/OS and OMEGAMON XE for CICS on z/OS monitoring agents (from V420 to V510) via an ICAT-to-PARMGEN RTE conversion upgrade path. TESTSYSC RTE shares with SMP/E target libraries.

Detailed presentation attached in PARMGEN technote

PARMGEN Scenarios Previously Covered (continued)

Presentations and Upcoming Training Sessions:

1. *Support Technical Exchange (STE):*

Title	Good news for maintenance windows - install, configure and upgrade OMEGAMON/ITM suite faster using JOBGEN/PARMGEN
Course number	**20121001102132516**
Instructor	Cecile Day
Date	**11/16/2012 @ 10:00 a.m. - 1:00 p.m. ET (US)** *** *Reserve the date* ***
Description	This Support Technical Exchange (STE) session plans to cover the following topics: ***1. What is new with PARMGEN and OMEGAMON XE V510s in 2012*** ***2. What will be in PARMGEN 4Q12 Interim Feature (IF)?*** ***3. What will be in PARMGEN 1Q13 Interim Feature (IF)?*** ***4. Demonstrate key RTE implementation scenarios covered in the 4Q12 refresh of the PARMGEN Reference Guide*** ***Note: This 3-hour recorded STE will be a live mainframe demonstration for the majority of the time to allow for a more interactive session with the audience.***
Course link	**Enrollment URL:** **http://www.ibm.com/support/docview.wss?uid=swg27036544&myns=swgtiv&mynp=OCSSZJDU&mync=E**

2. *IBM Software for System z Events: February 23, 2012 PARMGEN Phase 2 teleconference: "Good news for maintenance windows - Install and configure OMEGAMON faster"*
   >> *Broadcast Date: February 23, 2012 at 11:00 a.m. - 12:00 p.m. ET (US)*
   >> To obtain playback recording and materials ==> http://www-01.ibm.com/software/os/systemz/webcast/sysmgmt/series/
   >> Full version of the presentation materials ***(2/23/2012 webcast presentation covered a portion of the full version)*** ==>

IBM® System z® Software Teleconference - February 23 2012 PARMGEN Phase 2.ppt ***<-- based on 1Q12 PARMGEN design***

Detailed presentation attached in PARMGEN technote

PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #1: Basic conversion/upgrade in place (RTE=DEMOMVS): Convert an ICAT RTE to PARMGEN. Upgrade a number of the OMEGAMON XE monitoring agents to the 2012 versions that GA'd in 3Q12/4Q12 (I5510, MC710, MQ710, QI710, S3510, and N3510).

- The z/OS Hub TEMS is already @ ITM623.
- OMXE for CICS (C5510), CICS TG (GW510), z/OS (M5510), and DB2 (DB511) are already upgraded @ 1Q12.
- OMEGAMON Enhanced 3270 User Interface (e3270UI) is already configured as part of the 1Q12 upgrade.
- Other products such as System Automation (KAH), NetView EMA (KNA), TDS (KDO), ITCAM for SOA (KD4)/Application Diagnostics (KYN), Rocket (KR*) TEP-enabled Agents are also configured in the DEMOMVS RTE @ their current versions.
- DEMOMVS RTE is a Full RTE; same RTE runtime libraries will be upgraded in place (no change in HLQ of "

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions.

- The z/OS Hub TEMS is already @ ITM623 but Self Describing Agent is not yet enabled. **Tip**: See **RTE_USS_RTEDIR** and other _SDA parms.
- New component OMEGAMON Enhanced 3270 User Interface (e3270UI) is not yet configured. **Tip**: Do not exclude **_KOB** component on KCIP@PG5 panel.
- Use a jobcard with a jobname tailored to the KCIJP* PARMGEN job being submitted **Tip**: See **%SYSMEMBER%** in $JOBCARD
- Other non-OMEGAMON family of products are also configured in the ESYSMVS RTE @ their current versions.
- ESYSMVS RTE is a Full RTE; new set of RTE Non-VSAM and VSAM runtime libraries will be used (not upgrade in place). GA-1 HLQ of "***CCAPI.CANDLET.XEGA.ESYSMVS***" will be changed to "***TDITNT.CANDLET.XEGA.ESYSMVS***").
- System Variables will be enabled. **Tip**: See **RTE_NAMESV, RTE_NAME RTE_SYSV_SYSVAR_FLAG** and **RTE_X_SYSV_OVERRIDE_SYMBOLS**
- Use global SECURITY EXIT library **Tip**: See **RTE_X_SECURITY_EXIT_LIB**

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (***continued***)

- Several manual parameters and members added outside ICAT needs to be preserved.
- SYSTPCD DD needs to be enabled in all TEMS and Agent STCs. **Tip**:See **WCONFIG(GBLUSR) GBL_DSN_TCP_SYSTCPD_TCPDATA** parameter and **WCONFIG(ESYSMVS) KAG_X_STC_SYSTCPD_INCLUDE_FLAG, KDS_X_STC_SYSTCPD_INCLUDE_FLAG** parameters.
- All LIMIT() and RESERVE() manual customizations for Classic/Agents must be preserved in RKANPARU. **Tip**: See **WCONFIG(ESYSMVS) Kpp_X_* LIMIT/RESERVE** parameters.
- Exploit KDE_TRANSPORT POOL and EPHEMERAL options in TEMS and all Agents. **Tip**: See **WCONFIG(ESYSMVS) KAG_X_KDE_TRANSPORT_* and KDS_X_KDE_TRANSPORT_*** parameters.

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (*continued*)

- Several manual parameters and members added outside ICAT needs to be preserved.
- KGL_COMMAND_AUTHOR_SECURITY_REQUIRED=Y, CTIRA_* manual customizations must be preserved in all TEMS and Agent RKANPARU(KppENV). **Tip**: See **WCONFIG(KAG$PENV)** override imbed.
- KDS_NCSLISTEN=256 and KGL_GMMSTORE=100 “Specify Nonstandard Parameters” ICAT customizations must be preserved in the TEMS RKANPARU(KDSENV). **Tip**: See **WCONFIG(KDS$PENV)** override imbed.
- Exploit the KOB_* security parameters for OMEGAMON e3270UI Tivoli OMEGAMON Manager. **Tip**: See **WCONFIG(KOB$PENV)** override imbed.
- Preserve special non-config. members (KLEINPRO and CUASITE). **Tip**: See **WCONFIG(KOB$PENV)** override imbed.

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (*continued*)

- Several manual parameters and members added outside ICAT needs to be preserved.
- OMXE for CICS Classic USER, LROWS, TIPS manual customizations must be preserved in RKANPARU(KOCVTM*) and KC2IPA* members. **Tip**: See **WCONFIG(ESYSMV) KC2_X_* USER/LROWS/TIPS** parameters.
- OMXE for Mainframe Networks CTIRA_* overrides over WCONFIG(KAG$PENV) common Agent settings for RKANPARU(KN3ENV). **Tip**: See **WCONFIG(KN3$ENV)** override imbed.
- OMXE for Mainframe Networks OSNMPD, port and community name manual customizations must be preserved in RKANSAMU(KONSNMP/KN3SNMP). **Tip**: See **WCONFIG(KN3$SNMP)** override imbed.
- OMXE for Mainframe Networks KN3UAUTH RDEFINE/PERMIT manual customizations must be preserved in RKANSAMU(KN3UAUTH). **Tip**: See

PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (*continued*)

- OMXE on z/OS STCINT(ON), INTERVAL(60) manual customizations must be preserved in RKANPARU(KEPOPTN) Epilog and RKANPARU(KOSDEVIN). **Tip**: See **WCONFIG(KEP$POPT)** and **WCONFIG(ESYSMVS) KM5_X_KOSDEVIN_*** parameters.
- OMXE for IMS Journal Logging Facility MAXCSODS:16, VSAMPRIA:100 and VSAMSHRO:(2,3) manual customizations must be preserved in RKANPARU(KOIJLF00). **Tip**: See **WCONFIG(KOI$PJLF)** override imbed.
- OMXE for Messaging manual customizations for SET SUBSYSTEM NAME(KMQD) and BUFFERSIZE(250) must be preserved in RKANCMDU(KMQUSER). **Tip**: See **WCONFIG(KMQ$CUSR)** override imbed.

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (*continued*)

- OMXE for DB2 XCFMODE=INACTIVE, DB2RTCPU=NO, DB2REMIO=NO, ASCBCHAP=INACTIVE, MGSUBSYS=INACTIVE, and CICSCORR=NO manual customizations must be preserved in RKD2PAR(OMPEOPTS). **Tip**: See **WCONFIG(KD2$POP1)** override imbed.
- OMXE for DB2 and OMXE for Storage special jobcard customizations must be preserved in RKD2SAM(ALLOCDS), RKD2SAM(CANSPWH), RKD2SAM(KD2JBCRD), RKD2SAM(KO2PARM), and RKANPARU(KS3JCARD). **Tip**: See **WCONFIG(GBLUSR) GBL_JOBCARD_LINE*n*_*** parameters.

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PARMGEN Scenarios For Previous Support Tech. Exchange

PARMGEN Scenario #2: More advanced conversion/upgrade (RTE=ESYSMVS): Convert an ICAT RTE to PARMGEN. Upgrade the OMEGAMON Agents from the GA-1 versions (V420) to the 2012 GA versions. (*continued*)

- OMXE for DB2 XCFMODE=INACTIVE, DB2RTCPU=NO, DB2REMIO=NO, ASCBCHAP=INACTIVE, MGSUBSYS=INACTIVE, and CICSCORR=NO manual customizations must be preserved in RKD2PAR(OMPEOPTS). **Tip**: See **WCONFIG(KD2$POP1)** override imbed.
- OMXE for DB2 and OMXE for Storage special jobcard customizations must be preserved in RKD2SAM(ALLOCDS), RKD2SAM(CANSPWH), RKD2SAM(KD2JBCRD), RKD2SAM(KO2PARM), and RKANPARU(KS3JCARD). **Tip**: See **WCONFIG(GBLUSR) GBL_JOBCARD_LINE*n*_*** parameters.

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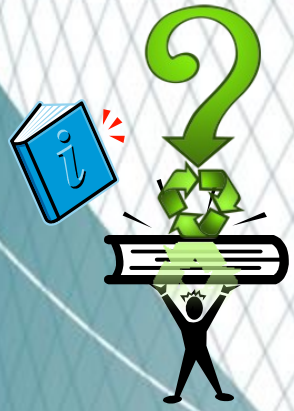
URL: https://de202.sabameeting.com:443/GP/main/00000183cb250000013b0d4



FAQs and Best Practices

FAQs and Best Practices

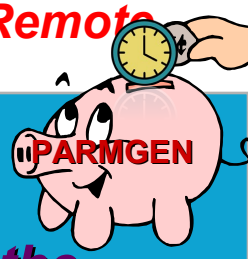
- Some of the best-practice candidates for making a user-defined symbol in the LPAR profile parameter values when an RTE is enabled for System Variables:

%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(%RTE_NAME%) LPAR profile:

```
KDS_HUB_TEMS_NAME_NODEID          "&KDS_HUB_TEMS_NAME_NODEID."
KDS_HUB_VTAM_APPL_GLB_BROKER      "&KDS_HUB_VTAM_APPL_GLB_BROKER."
KDS_HUB_VTAM_NETID                "&KDS_HUB_VTAM_NETID."
KDS_HUB_TCP_HOST                  "&KDS_HUB_TCP_HOST."
KDS_HUB_TCP_PIPE_PORT_NUM         "&KDS_HUB_TCP_PIPE_PORT_NUM."
KDS_HUB_TCP_UDP_PORT_NUM          "&KDS_HUB_TCP_UDP_PORT_NUM."
KDS_X_HUB_BKUP1_TCP_HOST           &STANDBY_HUB_HOST.
KDS_TEMS_TCP_KDEB_INTERFACELIST  &KDEB_INTERFACELIST. *Remote TEMS
Kpp_AGT_TCP_KDEB_INTERFACELIST   &KDEB_INTERFACELIST. *Each Agent
```

%GBL_USER%JCL%(%RTE_NAME%) SYSV profile: ***Define the user-defined symbols so you change one place when the Hub switches for this Remote TEMS/Agent RTE:***

```
* Type 3: User defined symbols
KDS_HUB_TEMS_NAME_NODEID          "HAHUB:CMS"
KDS_HUB_VTAM_APPL_GLB_BROKER      HAHUBGLB
KDS_HUB_VTAM_NETID                IBMNETID
KDS_HUB_TCP_HOST                  HADVIPA1
KDS_HUB_TCP_PIPE_PORT_NUM         1918
KDS_HUB_TCP_UDP_PORT_NUM          1918
KDEB_INTERFACELIST                "!*"
STANDBY_HUB_HOST                  HADVIPA2
```



Save time! No need to reconfigure the Remote TEMS RTE if the Hub connection switches!

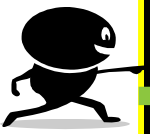
FAQs and Best Practices (continued)

- "*Silo*" CONFIG support - When you have function-centric product teams:
  - *consider exploiting WCONFIG($SYSIN) capabilities to specify user-overrides for the CONFIG MEMBER= profiles per product if necessary (*Note: Best practice is a composite LPAR profile*).*

```
KCIP@PG6 ------ CUSTOMIZE PARMGEN CONFIGURATION PROFILE MEMBERS --------
Option ===> _
 (Required)* Select option 1 to customize the ESYSMVS RTE LPAR profile:
    1. ESYSMVS  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
                 or if this is a product upgrade - see F1=Help)
    3. ESYSMVS  System Variables CONFIG profile in GBL_USER_JCL
                (TDITNT.CANDLET.SYSPLEX1.PARMGEN)
                (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 or KCIJPUP2 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

 (Optional) Select option 7 for member list of the WCONFIG library:
    7. WCONFIG  TDITNT.CANDLET.XEGA.ESYSMVS.WCONFIG
```



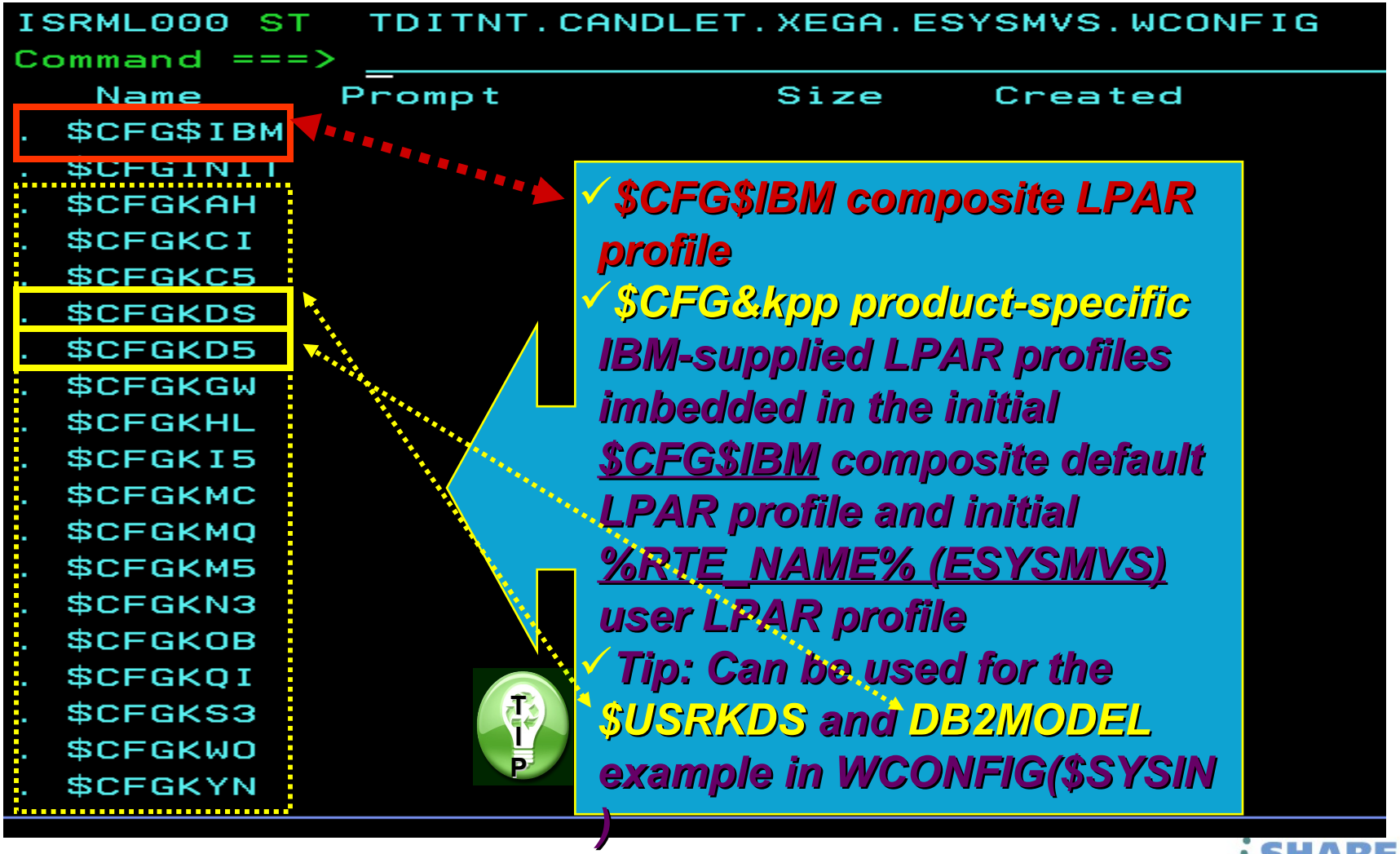
FAQs and Best Practices (continued)

- "*Silo*" CONFIG support - When you have function-centric product teams:

```
TDITNT.CANDLET.XEGA.ESYSMVS.WCONFIG($SYSIN)
Command ===>                                                Scroll ===> CSR
** Note: By default, the LPAR profile is listed as the LAST line
**       "CONFIG MEMBER=(WCONFIG:ESYSMVS)" which
**       indicates $PARSE* job uses its parameter values as the last
**       overriding values over the IBM-supplied default values in
**       $CFG$IBM.  It is the LPAR profile ESYSMVS that you
**       mainly edit but if you want to use your user-created
**       WCONFIG LPAR profiles (for example, for testing purposes
**       before updating the main LPAR ESYSMVS profile), then
**       create the member(s) in WCONFIG and edit $SYSIN to add your
**       own "CONFIG MEMBER=(WCONFIG:&user_profile)" line(s)
**       **AFTER** "CONFIG MEMBER=(WCONFIG:ESYSMVS)" line to
**       activate your test user-created profiles, as shown on sample
**       lines #59/#60, to add a user-version $USRKDS (user copy of
**       IBM-supplied WCONFIG($CFGKDS) for the TEMS-only parameters),
**       and to add a user-version DB2MODEL (user copy of
**       IBM-supplied WCONFIG($CFGKD5) but only extracting the
**       KD2_DBnn* and KD2_PFnn* DB2 subsystem and profile parameters
**       only).  $SYSIN updates are applicable to all //WK* steps in
**       the composite $PARSE or $PARSESV job.
**       Ex.: Line 000058 CONFIG MEMBER=(WCONFIG:ESYSMVS)
**            Line 000059 CONFIG MEMBER=(WCONFIG:$USRKDS)   <-- add
**            Line 000060 CONFIG MEMBER=(WCONFIG:DB2MODEL)  <-- add
CONFIG MEMBER=(WCONFIG:ESYSMVS)
* CONFIG MEMBER=(WCONFIG:&user_config_profile_placeholder)
* ---- END    - USER SECTION: CONFIG MEMBER=(WCONFIG:&profile) ----- *
```

FAQs and Best Practices (continued)

- "*Silo*" CONFIG support - When you have function-centric product teams:



FAQs and Best Practices (continued)

- When RTE_TYPE=SHARING, designate an RTE that will load the read-only base libraries if you have multiple RTEs sharing the read-only datasets (RKANMOD, RKANMODL, etc.). This flag is ideal for setting to "N" if you have multiple RTEs sharing the same base libraries (IBM.ITM62351.BASEA.RK* for example) and you have already designated one RTE to be the master RTE that will set this flag to ***'RTE_LOAD_SHARED_LIBS = Y'*** so it owns the loading of its own set of unique LPAR libraries (for example, IBM.ITM62351.LPAR1.RKANDATV, etc.) during the WKANSAMU(KCIJPLOD) RTE Load job, as well as the loading the common shared base libraries IBM.ITM62351.BASEA.RK*, both sets as part of the LPAR1 RTE's KCIJPLOD function. Otherwise, if this flag set to "Y" (default) for all the different RTEs' WCONFIG(LPARn) profiles that share the common IBM.ITM62351.BASEA.RK* base libraries, then the KCIJPLOD job for each RTE will load the base libraries multiple times each time you run the KCIJPLOD job -- although it does not hurt the configuration to do so, it will do multi-IEBCOPYs to the IBM.ITM62351.BASEA.RK.

FAQs and Best Practices (continued)

- Set ISPF CUAATTR “Scroll Information” for 24X80 MOD screens so scrollable help indicator is more visible. See PARMGEN on-line help for more information. Also, turn PFSHOW OFF when you are in PARMGEN mode.
- When editing CONFIG profiles, issue the HILITE ASM command for readability.
- When performing a more complex conversion/upgrade (RTE=ESYSMVS) from an ICAT RTE to PARMGEN, modify the RTE HLQs in the ICAT Batch INSTJOBS(&rte) prior to starting the PARMGEN conversion.
- Use a common GBL_USER_JCL for the multiple RTEs in a given Sysplex so you have an inventory of all your RTEs.

FAQs and Best Practices (continued)

- In an ICAT->PARMGEN conversion, PARMGEN carries forward comments from the original ICAT Batch INSTJOBS(&rte) member. To get the more up-to-date "*Related CONFIG parameters*" for any applicable WCONFIG RTE and/or $GBL* global profiles, always reference the CFGIBM and GBLIBM IBM-supplied profiles.
- In an ICAT✳PARMGEN upgrade and conversion, although you have installed the new versions of the products into a brand new CSI and SMP/E target libraries, PARMGEN can still be used to extract the original ICAT RTE values so you would not need to re-specify the same configuration values for the brand new PARMGEN RTE. PARMGEN KCIJPCNV conversion job provides this capability.
- Use the library-specific $PARSE* jobs when regenerating only a subset of the runtime members.
- Remember to rerun the KCIJVUPV job after a $PARSESV, or $PARSEPR, or $PARSESM rerun when reconfiguring a subset of the runtime members. In 1Q13, this was automated.

FAQs and Best Practices (continued)

For OMEGAMON XE on z/OS:

- *When cloning an RTE that has OMXE on z/OS configured and the first RTE cloned from is already the KM5_SYSPLEX_PROXY_POSITION=PRIMARY (Primary Sysplex Proxy TEMS), ensure that the cloned RTE's KM5_SYSPLEX_PROXY_POSITION is set to "**BACKUP**" so the PARMGEN KCIJPALO allocation job does not try to allocate the Sysplex-related Persistent Datastore files for the Backup Proxy TEMS (or all the RKM5* PDS history datasets are left allocated but not initialized).*

```
%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(%RTE_NAME%) LPAR:
** Important:
** Specify "BACKUP" if the Sysplex Persistent Datastore
** %KM5_PDS_RKM5PLX_PLEXDATA_HILEV%.RKM5PLXn
** datasets are already allocated and in use by the first RTE's
** Primary Sysplex Proxy TEMS so if the TEMS in this %RTE_NAME%
** RTE is
** a Backup Sysplex Proxy TEMS, then you only need to allocate the
** LPAR-specific RKM5LPRn datasets.  Therefore, specify "BACKUP"
** so the xKANSAMU(KCIJPALO) job's KM5JPALQ step generates the
** KM5ALPLX Sysplex PDS dataset allocation mbr. as commented out.
** Note: Related PARMGEN CONFIG profile parameter:
**       - KM5_PDS_RKM5PLX_PLEXDATA_HILEV
**       - KM5_PDS_RKM5PLX_PLEX_UNIT
**       - KM5_PDS_RKM5PLX_PLEX_VOLUME
KM5_SYSPLEX_PROXY_POSITION PRIMARY *PRIMARY,BACKUP,EXCLUDE
```

FAQs and Best Practices (continued)

For OMEGAMON XE on z/OS (continued):

- *In the case where multiple instances of ITM configurations are running in a common Sysplex, the ITM configurations must be configured with unique names; i.e. at least one of the configurations must provide an override Sysplex name (pseudo name) so that both configurations are able to start a Sysplex proxy (and agent). In PARMGEN, this translates to setting these parameters in the RTE LPAR profile:*

```
%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(%RTE_NAME%) LPAR profile:
** Sysplex grouping value for the following parameters in the
** RTE's xKANPARU(KDSENV) TEMS runtime member:
** - KDS_XCFPLEXGROUP=SYSPLEX
** - KDS_KOS_PLEXNAME=SYSPLEX
** Note: If KM5_SYSPLEX_KDS_KOSPLEXNAME_FLAG = "Y", then
**       KDS_KOS_PLEXNAME=SYSPLEX value is
**       generated as uncommented out when $PARSE* job writes
**       out xKANPARU(KDSENV).
GBL_SYSPLEX_NAME_XCFPLEXGROUP      SYSPLEX

** Use SYSPLEX name in Managed Systems list:
KM5_SYSPLEX_KDS_KOSPLEXNAME_FLAG   N
```

FAQs and Best Practices (continued)

- **For OMEGAMON XE on z/OS (continued):**
  - ***If you want to perform a staged upgrade, Primary Sysplex proxy TEMS, and any TEMS (hub or remote) eligible to serve as backups to the acting Sysplex proxy must be at V5.1.0. In the case where the configuration is running multiple versions of the OMEGAMON XE on z/OS agent; e.g.V420 and V510, only TEMS address spaces that have been upgraded to the latest version may be configured as Sysplex-proxy-eligible (KM5_SYSPLEX_PROXY_POSITION=PRIMARY or BACKUP). To exclude a TEMS from becoming a Sysplex Proxy, ensure that the RTE's KM5_SYSPLEX_PROXY_POSITION is set to "EXCLUDE" so the PARMGEN KCIJPALO allocation job does not try to allocate the Sysplex-related Persistent Datastore files for the TEMS (or all the RKM5* PDS history datasets are left allocated but not initialized). $PARSE job will also generate the TEMS xKANPARU(KDSENV) member with a commented out KFAXCF command, which excludes the TEMS from becoming a Sysplex Proxy:***

RTE_HILEV%.%RTE_NAME%.RKANPARU(KDSENV) TEMS env. file:

```
000182 KDS_RUN=\
000183      KRANDREG;\
000184      KSHCMS.WEBSQL;\
000185      KFAXCF.FAXCMON;\
000186 *     KFAXCF.FAXCSRV EXCLUDE,PLEX;\
000187      KOSSTART;\
000188      KDFCINIT;\
000189      KSMOMS;\
000190      KT1CTL00.TRANSFER
```

FAQs and Best Practices (continued)

- For OMEGAMON XE on z/OS (continued):
  - *Helpful internal commands:*

```
** One has the option to dynamically start and stop the
** TMS:Engine KFAXCF program that determines the TEMS Sysplex
** Proxy position.
** You can issue the following z/OS Modify command to the TEMS

** started task to control proxy eligibility:

** Sample START and STOP commands (respectively) are as follows:

**   => /F %KDS_TEMS_STC%,CTDS START KFAXCF.FAXCSRV
   &proxy_position,PLEX
**      (where &proxy_position = PRIMARY, BACKUP)

**   => /F %KDS_TEMS_STC%,CTDS START KFAXCF.FAXCSRV STOP
```

FAQs and Best Practices (continued)

- **For OMEGAMON XE for DB2:**
  - ***consider using a user CONFIG profile WCONFIG(DB2MODEL) for imbedding into the WCONFIG($SYSIN) and share across multiple RTEs. WCONFIG(DB2MODEL) will contain your KD2_DB* DB2 subsystem and KD2_PF* DB2 profile definitions.***
  - ***consider using the PARMGEN LPAR profile parameters KD2_OMPE_USE_MODEL and KD2_OMPE_SHARED_PROFILE_LIB for cloned RTEs pointing back to the RTE that maintains the DB2MODEL profile or the RTE LPAR profile that has the KD2_DB* DB2 subsystem and KD2_PF* DB2 profile definitions. Tip to set "KD2_OMPE_RUNALLOC" to "N" for the RTE that used the model DB2 RTE definitions.***

FAQs and Best Practices (continued)

- Usage of PARMGEN LPAR (Kpp_*) or global (GBL_*) parameters – when to "comment out" a parameter versus "null out" (or "clear out") a parameter:
  - *Comment out ('*' or '**' starting on col. 1) – means you are taking the IBM-supplied defaults (if any). If you want to override, uncomment and supply your values accordingly:*
    - *%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(GBLUSR)*

```
**** Health Check configuration values for HZSPRMCI and
**** HCK1%RTE_JCL_SUFFIX% xKANPARU members:
**** Notes:
**** 1. GBL_DSN_HZSPROC_LOADLIB is used as the RTEHLOAD DD in the
****    COPYHCKM step of the WKANSAMU(KCIJ%SYS) system set-up job.
****    COPYHCKM step copies Health Check message table modules into
****    this library.
**** 2. Uncomment out the GBL_DSN_HZSPROC_LOADLIB parameter and null out
****    (clear out) its value, if you do not wish to include the COPYH*
****    Health Check steps in the WKANSAMU(KCIJPSYS) job.
**GBL_DSN_HZSPROC_LOADLIB      "USER.LOADLIB"
```

  - *Otherwise, PARMGEN $PARSE* job will use the IBM-supplied value:*
    - *%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(GBLIBM)*

```
GBL_DSN_HZSPROC_LOADLIB       "USER.LOADLIB"   *default*
```

FAQs and Best Practices (continued)

- Usage of PARMGEN LPAR (Kpp_*) or global (GBL_*) parameters when to “comment out” a parameter versus “null out” (or “clear out”) a parameter:
  - *Null out (uncommented out parameter without a value “”) – means you are overriding the IBM-supplied defaults (if any), as nulls*

❑ **%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(GBLUSR)**

```
** GBL_DSN_TCP_* TCP system libraries:
** Note: This is required if you want the TCPDATA override
**       in the z/OS TEMS and Agent STCs' SYSTCPD DD:
**       Related PARMGEN CONFIG profile parameters:
**       - KAG_X_STC_SYSTCPD_INCLUDE_FLAG
**       - KDS_X_STC_SYSTCPD_INCLUDE_FLAG
**       - KDS_TEMS_TCP_STC
**       - Kpp_AGT_TCP_STC
GBL_DSN_TCP_SYSTCPD_TCPDATA ""
```

❑ **%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(GBLIBM)**

```
GBL_DSN_TCP_SYSTCPD_TCPDATA "TCPIP.SEZAINST(TCPDATA)" *default*
```

FAQs and Best Practices (continued)

- **Usage of PARMGEN LPAR (Kpp_*) or global (GBL_*) parameters – when to "comment out" a parameter versus "null out" (or "clear out") a parameter:**
  - *Null out (uncommented out parameter without a value "") – means you are overriding the IBM-supplied defaults (if any), as nulls*

❑ ***%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(%RTE_NAME%)***

```
KDS_TEMS_COMM_PROTOCOL1          IPPIPE
KDS_TEMS_COMM_PROTOCOL2          ""
KDS_TEMS_COMM_PROTOCOL3          ""
```

❑ ***%RTE_PLIB_HILEV%.%RTE_NAME%.WCONFIG(CFGIBM)***

```
KDS_TEMS_COMM_PROTOCOL1          IPPIPE
KDS_TEMS_COMM_PROTOCOL2          IP
KDS_TEMS_COMM_PROTOCOL3          SNA
```

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Hebrew

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Hindi

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Traditional
Chinese

Tack så mycket
Swedish

Teşekkürler
Turkish

Obrigado
Brazilian
Portuguese

go raibh maith agat
Gaelic

Ευχαριστώ
Greek

Tak
Danish

Grazie
Italian

Dankon
Esperanto

多谢
Simplified
Chinese

Hvala
Croatian

Danke
German

ありがとうございました
Japanese

ขอบคุณ
Thai

Terima Kasih
Malaysian

Thank You
English

Dank u
Dutch

Diakuju
Ukraine

Dekujeme Vam
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