An Alternative Approach to the Configuration/Upgrade of the OMEGAMON/ITM Family of Products

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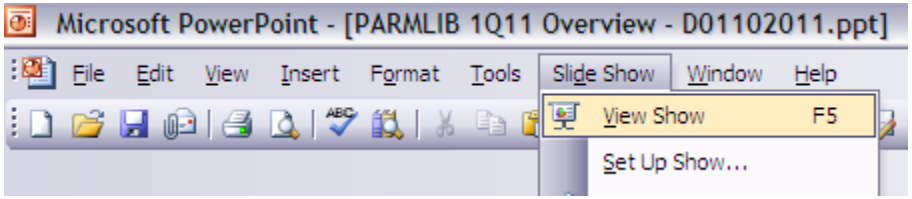
August 9, 2011 (Tuesday @ 11:00 AM-12:15 PM ET)
Session 10033

*Portions of this presentation contain animation. Please select the **Slide Show** pull-down, and Select **View Show***



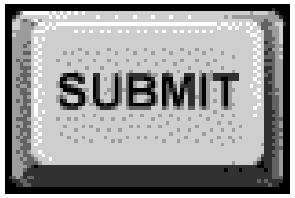
Agenda

- *Mission Statement*
- *Summary – What is "PARMLIB"?*
- *z/OS Product Families Supported by PARMLIB and ICAT Configuration Mode*
- *PARMLIB Scope and Schedule*
  - *Summary of 1H11 Deliverables* ← NEW
- *PARMLIB Workflow – Summary of Steps* ← updated
- *PARMLIB User Interface (UI) Roadmap*
  - *Parameter Generator UI ("PARMGEN")* ← NEW
- *PARMLIB Workflow – Details* ← updated
  - *Parameter On-line Help*
  - *PARMLIB CONFIG Profiles (Global and LPAR-specific {RTE})* ← NEW
  - *Parameter Validation* ← updated
  - *$PARSE* "Create runtime members and jobs" Batch Job*
  - *PARMLIB IVP*
- *PARMLIB Sample User Stories*
- *PARMLIB KCIJP* Batch Jobs*
  - *ICAT Cross-Reference & Detailed Description*

Mission Statement

- ***Reduce our total cost of ownership (TCO) in the areas of installation, configuration, deployment and maintenance.***
  - **As the installation and configuration expert of the OMEGAMON/ITM z/OS-based products, I want the configuration software to be simplified so that I can implement and deploy products to my monitoring environments, quickly and with minimal complexity.**
  - **As the installer of OMEGAMON/ITM z/OS-based products, I want configuration parameters to be simplified or eliminated so that I can install and configure product without needing to make choices unless a unique operational problem arises.**
  - **As an existing customer of OMEGAMON/ITM z/OS-based products, I want to quickly update (whether this is an upgrade or maintenance of an existing installation), without reconfiguration, so that I can minimize the time to implement and deploy upgrades.**

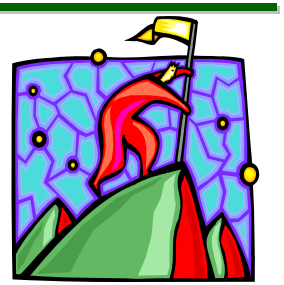
Product-centric (ICAT) vs. Function RTE-centric jobs (PARMLIB)



144 ICAT product-centric jobs to configure 37 components for 1 LPAR RTE

ICAT vs. PARMLIB

8-10 PARMLIB function-centric jobs to configure components for 1 LPAR RTE regardless how many products!



Mission Statement (continued)

- *How do we get there?*
  - *One way is to come up with an alternative to ICAT that aligns itself with other z/OS product installations.*
  - *The z/OS Road Ahead of Configuration ➔ ➔ ➔*

Summary – What is PARMLIB?

- ***PARMLIB:***
  - **New: Alternative configuration method to the ICAT (a.k.a.**

Summary – What is PARMLIB? (continued)

- ***Scope of Support:***
  - The 2010 initial PARMLIB deliverables focused on enabling all 37 components that support ICAT today, to now be configured using the alternative PARMLIB approach, in order to create a brand new RTE. Upcoming phases are planned throughout 2011+ to focus on *RTE maintenance* & *deployment best practices* and *performance improvements*, of PARMLIB-created RTEs.
  - The plan is to have the next versions of the products (post-OMEGAMON XE V420s, post-ITM6.2.2, etc.) to be fully supported for the end-to-end life cycle of an RTE (i.e., create/convert new PARMLIB RTE, customize/configure RTE, deploy RTE, maintain RTE and upgrade RTE).
  - Interoperability support extends only to setting up a new PARMLIB environment based on existing ICAT RTE values to quickly set-up the PARMLIB CONFIG user profiles. Maintenance of the new RTE will only be done via PARMLIB mode exclusively; i.e., ICAT→PARMLIB but ***not*** PARMLIB→ICAT.

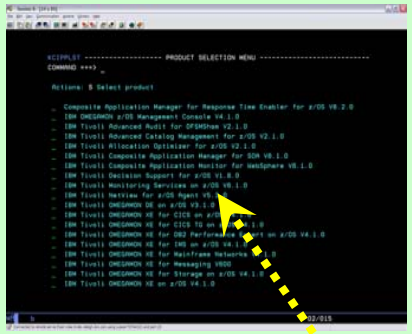
z/OS Product Families Supported by PARMLIB and ICAT Configuration Modes

z/OS Product Families that PARMLIB & ICAT Support

SHARE
Technology · Connections · Results

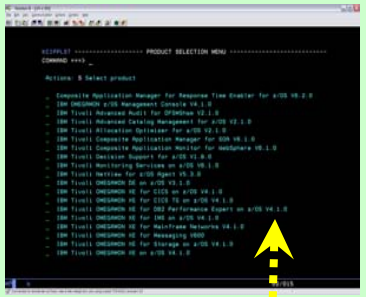
z/OS TMS family

TEMS



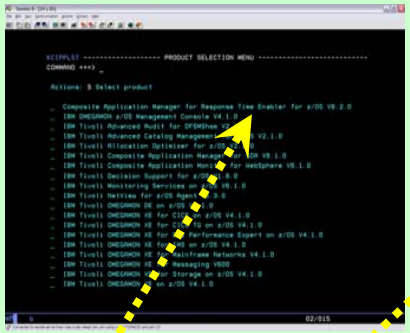
OMEGAMON family

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



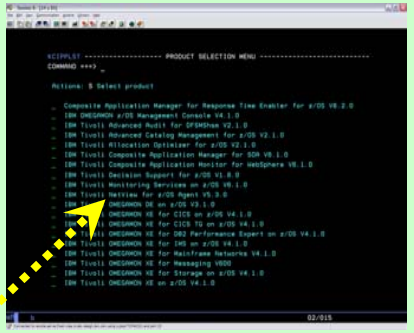
z/OS ITCAM family

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



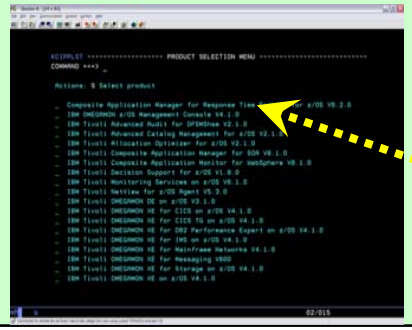
NetView family

NetView for z/OS Agent

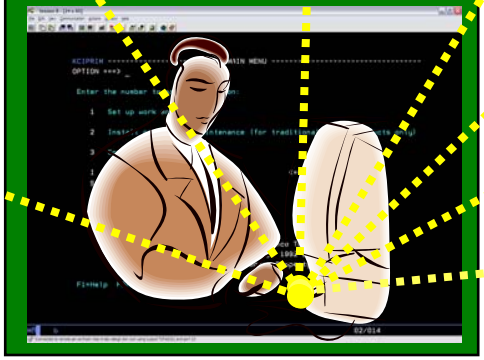


Rocket family

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

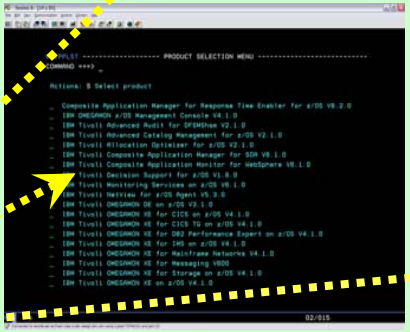


ICAT & PARMLIB Configuration Framework



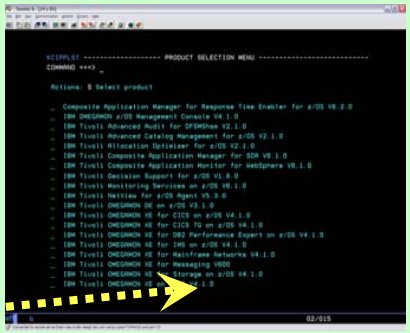
TDS family

Tivoli Decision Support Agent



System Automation family

System Automation for z/OS Agent



SHARE in Orlando 2011

2011+ z/OS Configuration Roadmap Project Scope and Schedule – Details

PARMLIB Phase 1.*n* 2010 Contents

Base Contents:

- Provide PARMLIB samples, KCIJP* batch jobs and KCIPARSE utility to support a brand new runtime environment (RTE) set-up.
- Support a PARMLIB "RTE-centric" approach to the sample KCIJP* PARMLIB jobs (jobs for allocation, load, Persistent Datastore, TEMS registration, security, system set-up, etc.)
- Provide IVP function and IVP job logger/ SUPERC report for KCIJP* PARMLIB jobs.
- Provide parameter on-line help utility and parameter validation (Iteration 1).
- For existing ICAT users, support interoperability:
  1. reuse **existing** RTE Batch Mode members to convert to PARMLIB CONFIG profiles.
  2. convert most commonly-updated parameters not externalized in the current ICAT to be supported for externalization / preserved customization in PARMLIB mode.
  3. convert a number of product-specific system library parameters into global parameters.
  4. rename parameter names to clearer, more self-describing parameter names.

Enablement Support:

❖**Common Infrastructure**:

- **Phase 1.1**: APAR#: OA30575 (CI) for PTF **HKCI310 UA52371** (February 28, 2010)
- **Phase 1.2**: APAR#: OA32122 (CI) for PTF **HKCI310 UA53118** (May 31, 2010)

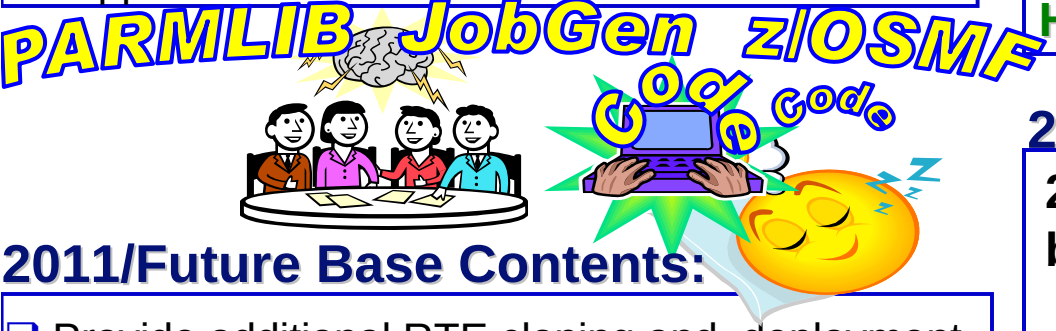
Documentation:

- Self-documenting PARMLIB members
- "***PARMLIB - Alternative Configuration Mode for Pilot OMEGAMON z/OS Products***" Newflash Technote #1417935
- New "***IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS: Parameter Reference***"
- New "***Chapter 15. Using the PARMLIB method to set parameter values***" in the Tivoli® OMEGAMON XE and Tivoli Management Services on z/OS V6.2.2 Common Planning and Configuration Guide

2011 Project Base Contents

2H10 PARMLIB Base Contents:

- ✓ Provide all previous phases' PARMLIB Base Contents for all 37 ICAT-supported components.
- ✓ Provide System Variables support – Phase 1.
- ✓ Provide parameter validation.
- ✓ Provide PARMLIB configuration support/function exploitation of any new Interim Features of PARMLIB-enabled products in the base versions supported.



2011/Future Base Contents:

- ❑ Provide additional RTE cloning and deployment improvements and time-to-value (TTV) ease-of-use enhancements.
- ❑ Integrate with Install **Job Gen**erator and future **z/OS M**anagement **F**acility (z/OSMF) Configuration Workflow UI.
- ❑ Provide PARMLIB configuration support/function exploitation of any new versions of PARMLIB-enabled products.

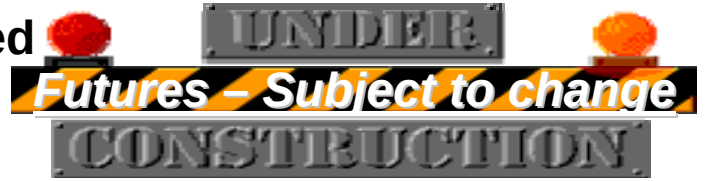
Enablement Support:

❖**Common Infrastructure**:

- **Phase 1.3**: APAR#: OA32126 (CI) for PTF **HKCI310 UA53981** (August 31, 2010)
- **4Q10**: APAR#: OA34091 (CI) for PTF **HKCI310 UA56531** (December 31, 2010)
- **Jan.'11**: APAR#: OA35009 (CI) for PTF **HKCI310 UA58103** (January 31, 2011)
- **Jul.'11**: APAR#: OA35415 (CI) for PTF **HKCI310 UA58791** (Jjuly 31, 2011)

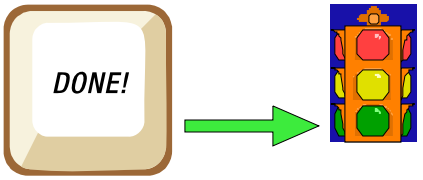
2011/Future ICAT/PARMLIB Schedule:

2011+: ETA GA: TBD – several iterations being planned



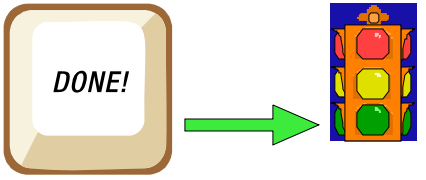
- **3Q11: APAR#: OA37159 (CI) for PTF HKCI310 UA61621**
- **4Q11**: APAR#: OA*nnnn* (CI)
- **1Q12**: APAR#: OA*nnnn* (CI)
- **2Q12**: APAR#: OA*nnnn* (CI)
- **3Q12**: APAR#: OA*nnnn* (CI)

Summary of 1H11 Deliverables



- ***A. PARMLIB Configuration Framework Enhancements:***
- ***Support Parameter Generator User Interface (PARMGEN) - Phase 1.***
- ***Integrate Install Job Generator (JOBGEN) facility with the PARMGEN PARMLIB configuration process by sharing, harvesting, auto-discovering and reusing values from a common repository and extending the data to other future install/config. processes ("SHARE" model).***
  - **"Job Generator - Product Selection" updates - the product table has been updated with the latest list of supported products.**
  - **"Job Generator - Parameters" updates - jobcard information is now available for user customization. Same jobcard is reused in PARMGEN.**
  - **"Job Generator - CALLLIBS Selections" updates - default entries for the CALLLIBS system libraries are now provided as models. Same CALLLIBS system libraries are reused in PARMGEN if certain products also require the same system libraries.**

Summary of 1H11 Deliverables (cont'd)



- ***A. PARMLIB Configuration Framework Enhancements: (cont'd)***
  - ***Provide a new KCIJPCCF standalone job to clone user-customized members (Kpp$/Kpp@** imbeds, GBLUSR profile, $JOBCARD) from an existing RTE's WCONFIG library to a new RTE (reuse the same customized members from version to version, RTE to RTE).***
  - ***Provide new GBLIBM and GBLUSR global PARMLIB CONFIG profile members in WCONFIG (ideal for copying to other WCONFIG RTEs if these global system libraries are typically the same across LPARs. These values are being made available for configuration use to harvest the same information that may have already been customized from JOBGEN.***
  - ***Provide %GBL_SYSDA_UNIT% support in the KCIJPCFG set-up job and KCIJPUP1 IEBUPDTE job.***

Summary of 1H11 Deliverables (cont'd)

- ***A. PARMLIB Configuration Framework Enhancements: (cont'd)***
  - ***Enhance WCONFIG(KCIJPUP1) populate TK*-->IK* IEBUPDTE job to back up WCONFIG library in each run based on "SET CLONE" setting in the job.***
  - ***Enhance WKANSAMU(KCIJPSUB) master auto-SUBMIT job to add a timer so jobs are submitted in priority sequence.***
  - ***Enhance WKANSAMU(KCIJV*) PARMLIB jobs to support user-defined system variables in addition to static symbols and KCIPARSE-extracted symbols.***
  - ***Enhance WCONFIG($PARSE*)-related jobs to add a //SYSVROUT DDNAME to report on all PARMLIB CONFIG parameters and variables, and their corresponding values used in the RTE configuration.***

Summary of 1H11 Deliverables (cont'd)

- ***B. PARMLIB Application Configuration Enhancements:***
- ***Provide PARMLIB application configuration support for:***
  - *OMEGAMON XE for Mainframe Networks (N3420) Interim Feature.*
  - *OMEGAMON XE for IMS V4.2.0 (I5420) Interim Features.*
  - *OMEGAMON XE for DB2 PE/PM V5.1.0 (D5510) additional upgrade configuration support.*
  - *OMEGAMON XE for Messaging: WebSphere Message Broker Monitoring V7.0.1 (QI701) Fix Pack 1(7.0.1.1-TIV-XEforMsg-FP0001) configuration support.*
  - *IBM Tivoli Advanced Catalog Management for z/OS V2.3.0 (RN230) and V2.4.0 (RN240) upgrade configuration support.*
- ***Provide full High-Availability (HA) Hub TEMS configuration support for products that require additional HA Hub support installed @ the HA Hub (beyond the normal product catalog (KppCAT) and attribute (KppATR) files). These are products like OMEGAMON XE for Messaging and OMEGAMON XE for CICS on z/OS.***

Summary of 1H11 Deliverables (cont'd)

- ***B. PARMLIB Application Configuration Enhancements: (cont'd)***
  - ***Rearchitect PARMLIB System Variables support for the Persistent Datastore (PDS) facility of products that configure short-term historical data collection @ TEMS or Agent.***

PARMLIB Worflow – Summary of Steps

Configuring products with the PARMLIB method: Steps

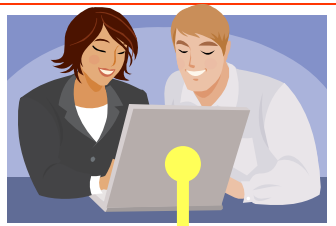
- Step 1. Apply the latest PARMLIB PTF.
- Step 2. Set up the PARMLIB work libraries for a runtime environment (RTE).
  - NEW Method 1: Supply values for global parameters in ISPF panels ("PARMGEN"). *-or-*
  - Method 2: Edit the KCIJPCFG job directly.
- Step 3. Review the PARMLIB WCONFIG($JOBINDX) job index planning purposes.
- Step 4. Submit the WCONFIG(KCIJPUP1) IEBUPDTE job to populate the IK* interim staging libraries.
- Step 5. Set up your PARMLIB configuration profiles (global and LPAR-specific).
- Step 6. Submit WCONFIG($PARSE) or WCONFIG($PARSESV) job to create runtime members and WKANSAMU jobs.
- Step 7. Submit WKANSAMU batch jobs to complete the PARMLIB setup.
  - Submit the composite KCIJcSUB master PARMLIB auto-SUBMIT job instead of submitting the following jobs individually:
  - KCIJcALO composite runtime library allocation job
  - KCIJcLOD composite TK*→RK* runtime library load job
  - KCIJcSEC composite product security job
  - KCIJcUSP composite USS preparation job
  - KCIJcLNK composite ASM/LINK job
  - KCIJcUPV composite System Variables IEBUPDTE job
  - **KCIJcSYS composite system set-up and copy job
  - **KCIJcUSS composite USS create HFS system set-up job
  - **KCIJcCPY backup PARMLIB work libs. (IK*/WK*) or runtime (RK*) user libs. job
  - **KCIJcW2R WK*->RK* deployment job
  - KCIJcIVP configuration verification job
- Step 8. Complete the configuration and start the products.

c = P or V
KCIJPSUB: non-SYSV mode
KCIJVSUB: SYSV mode

PARMLIB User Interface (UI) Roadmap

PARMLIB UI Roadmap – Current (pre-1H11)

Option #1: Set-up the PARMLIB work environment *manually*



PARMLIB Install/Config. Admin

```
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
 ------------------------------------------------------------------------
EDIT       TDITNT.PARMLIB.JCL(KCIJPCFG) - 01.99            Columns 00001 00072
Command ===> C '%RTE_VSAM_HILEV%' 'TDITNT.ONESAPM' ALL_      Scroll ===> CSR
000039 //*  5 REQUIRED parameters to change:
000040 //*   - TDITNT.ITM62242 = SMP/E Target
000041 //*                       High-Level Qualifier (HLQ) of the TKANPAR library.
000042 //*   - TDITNT.PARMLIB.JCL = User's JCL library
000043 //*                       for PARMLIB use.  Typical PARMLIB members stored
000044 //*                       in this library are applicable to all runtime
000045 //*                       environments (RTEs).  An example of a member that
000046 //*                       gets created in this library is TESTSYSG
000047 //*                       System Variable member for user-defined symbols
000048 //*                       if System Variable mode is enabled in this RTE.
000049 //*                       It is also where KCIJPCFG job gets customized
000050 //*                       initially.
000051 //*                       Tip:  It is recommended that you specify a new
000052 //*                       global library for PARMLIB common RTE usage.
000053 //*   - TDITNT.ONESAPM = Non-VSAM HLQ
000054 //*                       of the PARMLIB WCONFIG control library and
000055 //*                       the PARMLIB interim staging (IK*) and work output
000056 //*                       (WK*) libraries representing the production
000057 //*                       runtime (PK*) libraries.
000058 //*   - %RTE_VSAM_HILEV% = VSAM HLQ
```

Edit the KCIJPCFG set-up job directly.

PARMLIB Workflow – Low-level details

- Step 1. Apply the latest PARMLIB PTF.
  - **HKCI310 PTF delivers the PARMLIB samples and runtime files per product, KCIJP* batch JCL, and other elements ($PARSE* KCIPARSE jobs, $SYSIN SYSIN control card, RTE CONFIG profile).**

PARMLIB Alternative Configuration for OMEGAMON XE and Tivoli Management Services (TMS) Products on z/OS

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

Step 1 Results:

- After the PTF is applied, the TKANCMD, TKANPAR and TKANSAM SMP/E target libraries contain the new PARMLIB elements.
- The TKANCUS SMP/E target library also contains new PARMLIB configuration code to support the PARMLIB functions such as the on-line parameter help facility, validation, conversion, and others.
- The TKANMOD SMP/E target library also contains the KCIPARSE PARMLIB module to support the file-tailoring functions.

Best Practices: Back-up the current SMP/E target libraries prior to applying the PTF.

PARMLIB Workflow – Low-level details (cont'd)

- **Step 2. Set-up the PARMLIB work environment by customizing the KCIJPCFG job.**
  - **Copy the *&thilev*.TKANSAM(KCIJPCFG) job to a USER JCL library for PARMLIB use.**
  - **Customize the JCL accordingly:**

```
EDIT       TDITNT.PARMLIB.JCL(KCIJPCFG) - 01.99          Columns 00001 00072
Command ===>                                               Scroll ===> CSR
000793 * ********************************************************************
000794 * -------------------- BEGIN - USER SECTION: CONFIG --------------- *
000795 * ********************************************************************
000796 * CONFIGURE FLAGS: Set to "Y" or "N".                               *
000797 * Note: &pppVER flag are for reference only.                        *
000798 * ********************************************************************
000799 * Tivoli Enterprise Monitoring Server: KDS flag
000800   SET CONFIGURE_TEMS_KDS      = "Y"
000801 * IBM Tivoli OMEGAMON XE for CICS on z/OS: KC5 flag
000802   SET CONFIGURE_CICS_KC5      = "Y"
000803 * IBM Tivoli OMEGAMON XE for CICS TG on z/OS: KGW flag
000804   SET CONFIGURE_CICS_TG_KGW   = "Y"
000805 * IBM Tivoli OMEGAMON XE for DB2 PE/PM: KD2 and KD5 flags
000806   SET CONFIGURE_DB2_PEPM_KD2  = "Y"
000807   SET CONFIGURE_DB2_AGENT_KD5 = "Y"
000808 * IBM Tivoli OMEGAMON XE for IMS on z/OS: KI5 flag
000809   SET CONFIGURE_IMS_KI5       = "Y"
000810 * IBM Tivoli OMEGAMON XE on z/OS: KM5 flag
000811   SET CONFIGURE_ZOS_KM5       = "Y"
000812 * IBM Tivoli System Automation for z/OS: KAH flag
```

Hands-on updates to KCIJPCFG set-up job

PARMLIB UI Roadmap – Job Gen.->PARMLIB Integration

Option #2: Set-up the PARMLIB work environment via Job Generator

PARMLIB Install/Config. Admin

or ➔ TSO EX '&thilev.TKCIINST (KCIRJG00)'

```
KCIPJG00 ------------------ Job Generator - Welcome ------------------------
COMMAND ===>

Welcome to the Job Generator.  This routine will generate batch jobs
to create and update an SMP/E environment.

Processing will be done in the following steps requiring user input.
  (1) Select the products for installation into an SMP/E environment.
  (2) Enter values for data set allocation and SMP/E processing.
  (3) Enter values for HFS/zFS or CALLLIBS processing when required.

All information will be saved into an output PDS.  Restarting the
processor with this PDS will cause the values to be reinstalled on
each panel.  For this reason, a positive response will be required
to accept values and selections.

Enter the fully qualified PDS name and output location for the generated jobs.

 Output PDS Name                          Volser   STORCLAS   MGMTCLAS
 TDITNT.PARMLIB.JCL_____________________  ______   ________   ________

 Enter=Next  F1=Help  F3=Back
```

File-tailored KCIJPCFG via Job Generator – reuse the same install/ config. data repository

PARMLIB UI Roadmap – Job Gen.->PARMLIB Integration (cont'd)

Option #2: Set-up the PARMLIB work environment via Job Generator

PARMLIB Install/Config. Admin

```
KCIPJG02 ------------ Job Generator - Product Selection --- Row 9 to 16 of 26
COMMAND ===>

 Select the products to be included from the install media.  The list
 below is the list of all supported products and might have entries for
 products that are not available.  Be sure to select only products
 that exist for this install.

 You must select at least one product.
 To add additional products, type UPDATE on the command line and hit ENTER.

 Verify your selections and change this field to accept ==> Y (Y, N)

    _    Clear all product selections (X)

Sel  Product Description                                          Version
S    IBM Tivoli Advanced Reporting and Management for DFSMShsm    V2.4.0
_    IBM Tivoli Automated Tape Allocation Manager for z/OS        V3.2.0
_    IBM Tivoli Composite Application Manager for SOA             V7.1.1
_    IBM Tivoli Decision Support for z/OS                         V1.8.1
_    IBM Tivoli Management Services on z/OS                       V6.2.1
_    IBM Tivoli Management Services on z/OS                       V6.2.2
S    IBM Tivoli Management Services on z/OS                       V6.2.3
_    IBM Tivoli OMEGAMON DE on z/OS                               V4.2.0
```

Install the new versions via Install Job Generator or Tivoli Serverpac

PARMLIB UI Roadmap – Job Gen.->PARMLIB Integration (cont'd)

Option #2: Set-up the PARMLIB work environment via Job Generator

PARMLIB Install/Config. Admin

```
KCIPJG01 ----------------- Job Generator - Parameters ----------------------
COMMAND ===>
```

Provide a more integrated "***SHARE***" model:

S -ave values

H -arvest values from a common repository where user settings were previously configured once

A -utodiscover values from a common repository where user settings were previously configured once

R -euse values by any subsequent install/config. process

E -xtend common JobGen./PARMLIB repository to other installers/configurators to render similar "***SHARE***" model (i.e. future z/OS MF Config. Workflow UI, 1SAPM Set-up Center)

New jobcard that can be reused in PARMLIB config. – example of our "SHARE" model

PARMLIB UI Roadmap – Job Gen.->PARMLIB Integration (cont'd)

Option #2: Set-up the PARMLIB work environment via Job Generator

PARMLIB Install/Config. Admin

```
KCIPJG03 ------------- Job Generator - CALLLIBS Selection --- Row 1 to 6 of 11
COMMAND ===>

 Enter the CALLLIBS data set names for SMP/E target zone definitions.
 Entries beginning with an asterisk are models.  Remove the asterisk
    and use or modify the entry to enable the data set name.

 Verify your entries and change this field to accept ==> N (Y, N)

  DDname    Description
  --------  -------------------------------------------------
  CSSLIB    MVS callable services
   Data set name ==> SYS1.CSSLIB
  SCCNOBJ   XL C Compiler object library
   Data set name ==> CBC.SCCNOBJ
  SCEEBIND  LE/370 C spt - XPLINK resident routines
   Data set name ==> CEE.SCEEBIND
  SCEEBND2  LE/370 C spt - XPLINK LP64 library
   Data set name ==> CEE.SCEEBND2
  SCEELIB   LE/370 C spt - side-deck library
   Data set name ==> CEE.SCEELIB
  SCEELKED  LE/370 C spt - non-XPLINK, short names
   Data set name ==> CEE.SCEELKED
```

System libraries that can be reused in PARMLIB config. – example of "SHARE" model

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1

Option #3: Set-up the PARMLIB work environment via "PARMGEN"

PARMLIB Install/Config. Admin

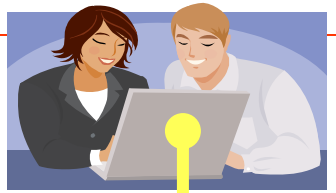
or ➔ TSO EX '&thilev.TKANCUS (KCIRPLB2)'

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

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

Specify the location of the PARMLIB global user JCL library.
GBL_USER_JCL: TDITNT.PARMLIB.JCL_____________________________

Specify the PARMLIB CONFIG profile library and member.  If this is an
ICAT-to-PARMLIB conversion, specify the ICAT RTE Batch member location.
TDOMPT.ITM623.INSTJOBS(TESTSYSG)_____________________

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

Enter Jobcard data:
   ==> //CCAPIPLB JOB (ACCT),'CECILE CAPINPIN-DAY',CLASS=A,_____________
   ==> //  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,_____________________
   ==> //  REGION=0M_____________________________________________________
   ==> //** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%_________________
Enter=Next  F1=Help  F3=End/Cancel
```

File-tailored KCIJPCFG via "PARMGEN" – reuse the same install/ config. data repository

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1 (cont'd)

Option #3: Set-up the PARMLIB work environment via "PARMGEN"



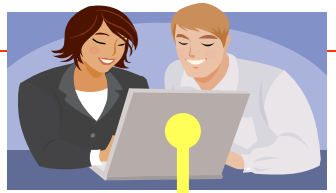
PARMLIB Install/Config. Admin

```
KCIPPLB1 ---- SET-UP PARMLIB WORK ENVIRONMENT PARAMETERS (1 OF 2) -------------
COMMAND ===>

Enter parameter values appropriate for your environment:

GBL_INST_HILEV:    TDOMPT.ITM623_____________________
                   High-Level Qualifier (HLQ) of INSTLIB/INSTJOBS datasets
GBL_TARGET_HILEV:  TDITNT.ITM62351____________________
                   HLQ of SMP/E target (TK*) libraries
GBL_SYSDA_UNIT:    SYSDA___
                   Non-VSAM disk UNIT (global work datasets)
RTE_HILEV:         TDITN.ONESAPM_____________________
                   Non-VSAM HLQ of PARMLIB work and runtime libraries
RTE_VSAM_HILEV:    TDITNT.ONESAPM____________________
                   VSAM HLQ of the runtime (RK*) libraries
RTE_NAME:          TESTSYSG
                   Runtime environment (RTE) name for this LPAR
CSI_DSN:           TDITNT.ITM62351.CSI_______________________
                   DSNAME of the SMP/E CSI for this RTE
TARGET_ZONE:       CANTZ1__
                   Name of the SMP/E target zone for this RTE

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

"SHARE" & pre-populate config. values automatically – "Ask me once"

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1 (cont'd)

Option #3: Set-up the PARMLIB work environment via "PARMGEN"



PARMLIB Install/Config. Admin

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

Enter parameter values appropriate for your environment:

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

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

RTE_SMS_UNIT:           RTEU____   (Non-VSAM disk UNIT type)
RTE_SMS_VOLUME:         RTEV__     (Non-VSAM disk VOLSER)
RTE_SMS_MGMTCLAS:       RTESMGT_   (Non-VSAM disk MGMTCLAS)
RTE_SMS_STORCLAS:       RTESTOR_   (Non-VSAM disk STORCLAS)

RTE_SMS_VSAM_VOLUME:    RTEVV_     (VSAM disk VOLSER)
RTE_SMS_VSAM_MGMTCLAS:  RTESVMGT   (VSAM disk MGMTCLAS)
RTE_SMS_VSAM_STORCLAS:  RTEVSTOR   (VSAM disk STORCLAS)


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

"SHARE" & pre-populate config. values automatically – "Ask me once"

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1 (cont'd)

Option #3: Set-up the PARMLIB work environment via "PARMGEN"

PARMLIB Install/Config. Admin

```
KCIPPLB3 ------------ DISPLAY PARMLIB ENVIRONMENT ANALYSIS - Row 1 to 17 of 17
COMMAND ===> _

Review message traffic before proceeding.
KCIRJG02 - I Starting 27 Jul 2011 00:01:29
KCIRJG02 - I Extracting information from:
KCIRJG02 - I     CSI - TDITNT.ITM62351.CSI
KCIRJG02 - I   TZONE - CANTZ1
KCIRJG02 - I End of EXEC, RC = 0

Active FMIDs installed in target zone CANTZ1: 42
HABR310 HAB0320 HAES220 HAKD230 HARH230 HCKM230 HKCF701 HKCI310 HKC5420 HKDB51X
HKDB510 HKDO181 HKDS623 HKD4711 HKET620 HKGW420 HKHL410 HKI5420 HKLV623 HKMC701
HKMQ701 HKMV310 HKM5420 HKN3420 HKOB620 HKQI701 HKRG230 HKRH230 HKRJ310 HKRK320
HKRN230 HKRS110 HKRV220 HKRW220 HKSB620 HKS3420 HKT1710 HKWO310 HKYN710 HPMZ410
HTAP220 JKWO420

Active, installed components configured in ICAT RTE batch deck TESTSYSG: 28
KC5 KDB KDO KDS KD4 KGW KHL KI5 KMC KMQ
KMV KM5 KN3 KQI KRG KRH KRJ KRK KRN KRV
KRW KS3 KWO KYN KD2 KD5 KAH KNA
Enter=Next  F1=Help  F3=Back  F7=Up  F8=Down
```

Read the installed software inventory to offer what can be configured in the LPAR RTE.

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1 (cont'd)

Option #3: Set-up the PARMLIB work environment via "PARMGEN"

PARMLIB Install/Config. Admin

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

 Select (X) products to EXCLUDE from PARMLIB customization.

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

  Kpp  Product Name/Version (Kpp* components configured in ICAT RTE Batch deck)
  ---- ------------------------------------------------------------------------
X ALL  Exclude all not configured in ICAT RTE Batch deck
_ KAH* IBM Tivoli System Automation for z/OS V330
_ KC5* IBM Tivoli OMEGAMON XE for CICS on z/OS V420
_ KDO* IBM Tivoli Decision Support for z/OS V181
_ KDS* Tivoli Enterprise Monitoring Server V623
_ KD4* IBM Tivoli Composite Application Manager for SOA V711
_ KD5* IBM Tivoli OMEGAMON XE for DB2 PE/PM V510
_ KGW* IBM Tivoli OMEGAMON XE for CICS TG on z/OS V420
_ KHL* IBM OMEGAMON z/OS Management Console V410
_ KI5* IBM Tivoli OMEGAMON XE for IMS on z/OS V420
_ KMC* IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Configuration V701
_ KMQ* IBM Tivoli OMEGAMON XE for Messaging - WebSphere MQ Monitoring V701
_ KM5* IBM Tivoli OMEGAMON XE on z/OS V420
_ KNA* IBM Tivoli NetView for z/OS Agent V610
_ KN3* IBM Tivoli OMEGAMON XE for Mainframe Networks V420
```

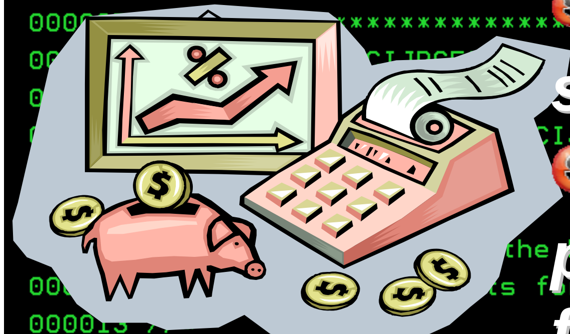
Allow "Product Add" or "Product Delete" config. options for even more TTV

PARMLIB UI Roadmap – Parameter Generator UI ("PARMGEN") – Phase 1 (cont'd)

Option #3: Set-up the PARMLIB work environment via "PARMGEN"

PARMLIB Install/Config. Admin

```
  File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
ISREDDE2   TDITNT.PARMLIB.JCL(KCIJPCFG) - 01.00              Columns 00001 00072
Command ===> SUBMIT_                                             Scroll ===> CSR
****** ***************************** Top of Data ******************************
000001 //CCAPIPLB JOB (ACCT),'NAME',CLASS=A,
000002 //   MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,
000003 //   REGION=0M
000004 //** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER%
...
       CIJPCFG) - IBM Default Copy
...
       the PARMLIB work library configuration
00     ts for this runtime environment (RTE).
000013 //
000014 //* BEGIN - INSTRUCTIONS:
000015 //*
000016 //* There are 2 methods to set-up the PARMLIB KCIJPCFG job:
000017 //* - Method #1: Execute Parameter Generator User Interface (PARMGEN)
000018 //* - Method #2: Edit KCIJPCFG directly
000019 //*
```



4 PARMLIB Workflow steps saved!

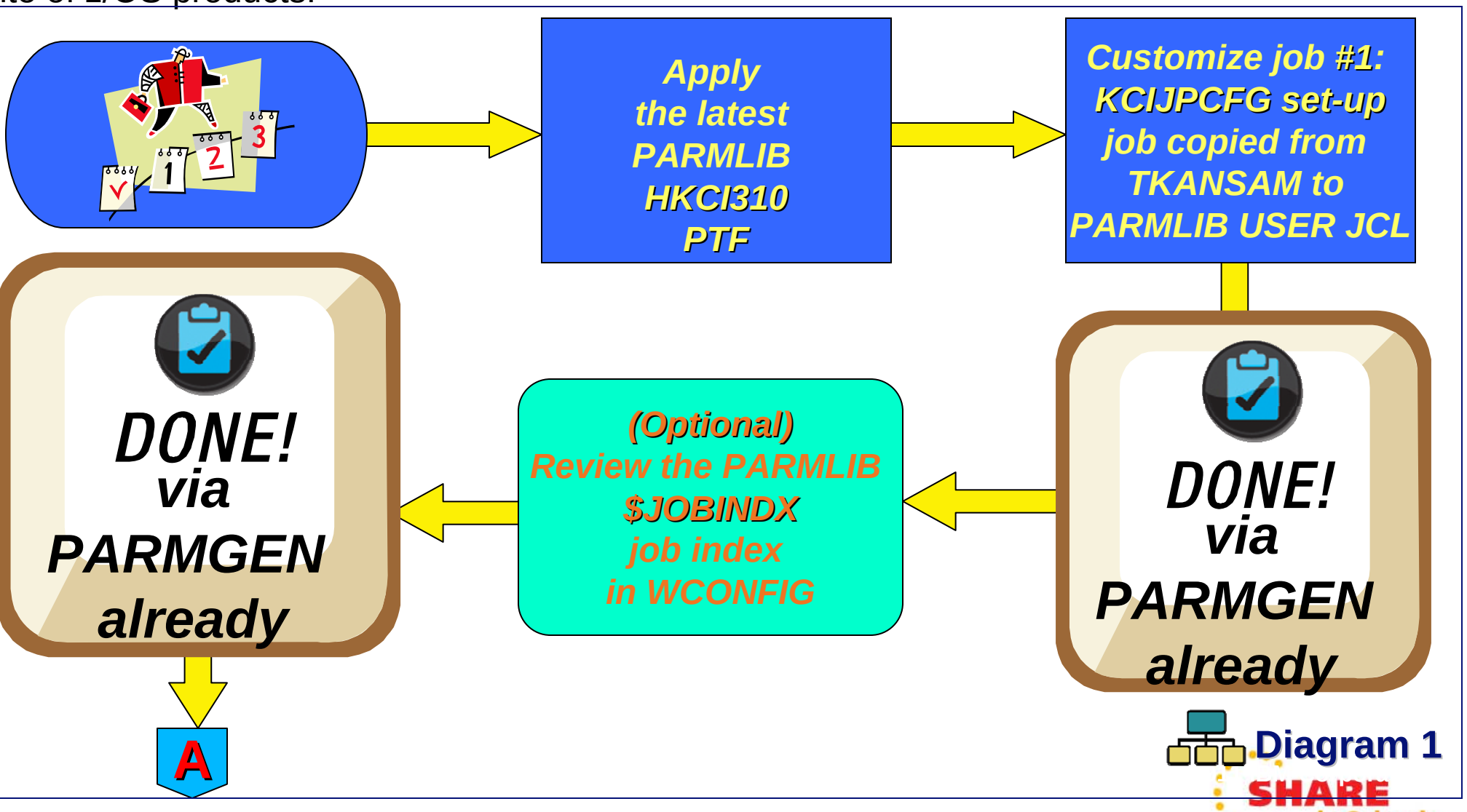
39 optional /required parms. automatically file-tailored!

File-tailored KCIJPCFG via "PARMGEN"

High-level Details of PARMLIB Workflow and Data Flow – Diagrams

PARMLIB Workflow - Diagram

The following **Diagram 1** through **Diagram 6** show a high-level overview of the steps involved in configuring the product in a new runtime environment (RTE) using the PARMLIB mode. The same RTE-centric procedure applies whether you are configuring one component or the whole suite of z/OS products.



PARMLIB Workflow – Diagram (cont'd)

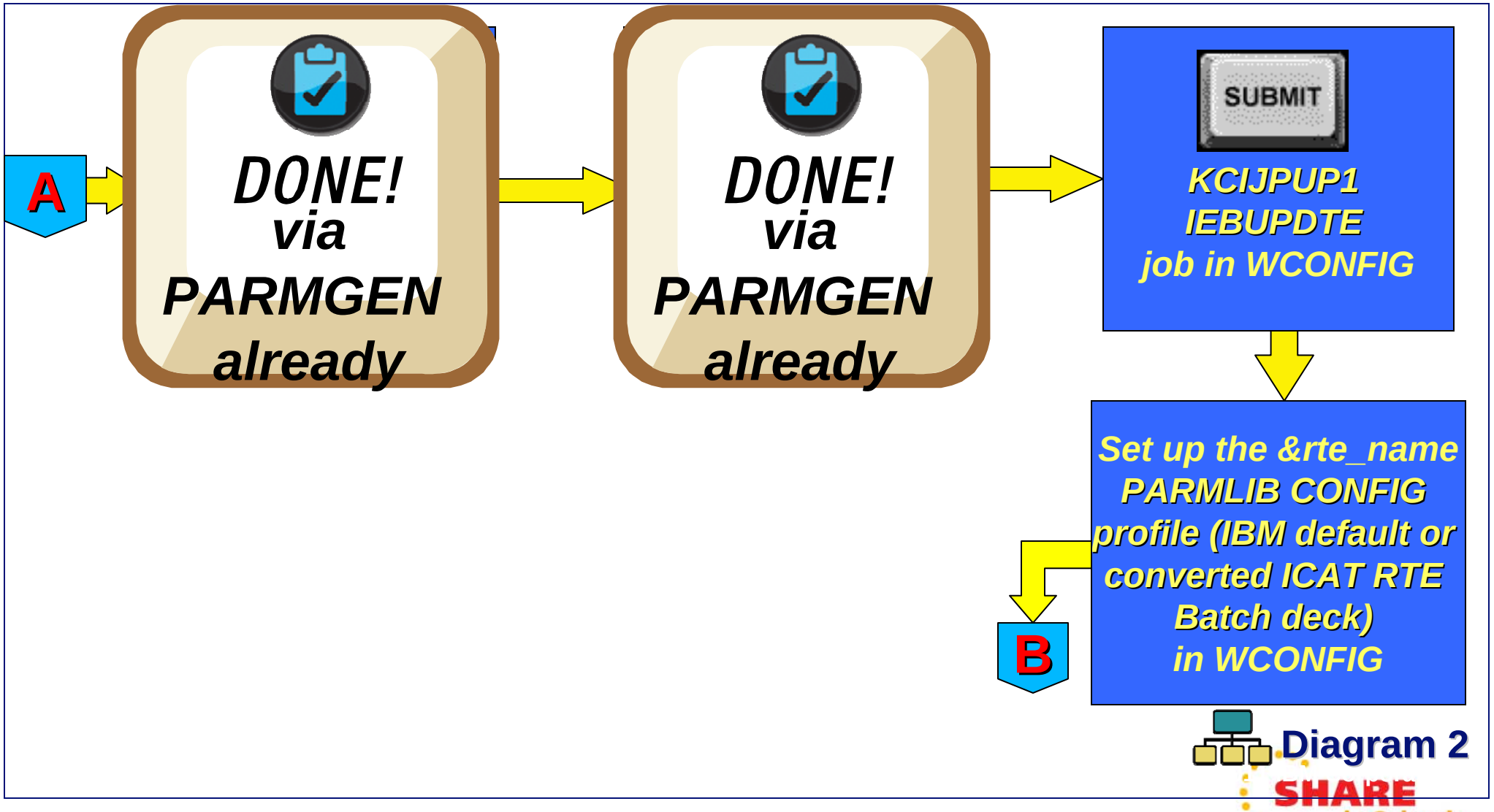


Diagram 2

PARMLIB Workflow – Diagram (cont'd)

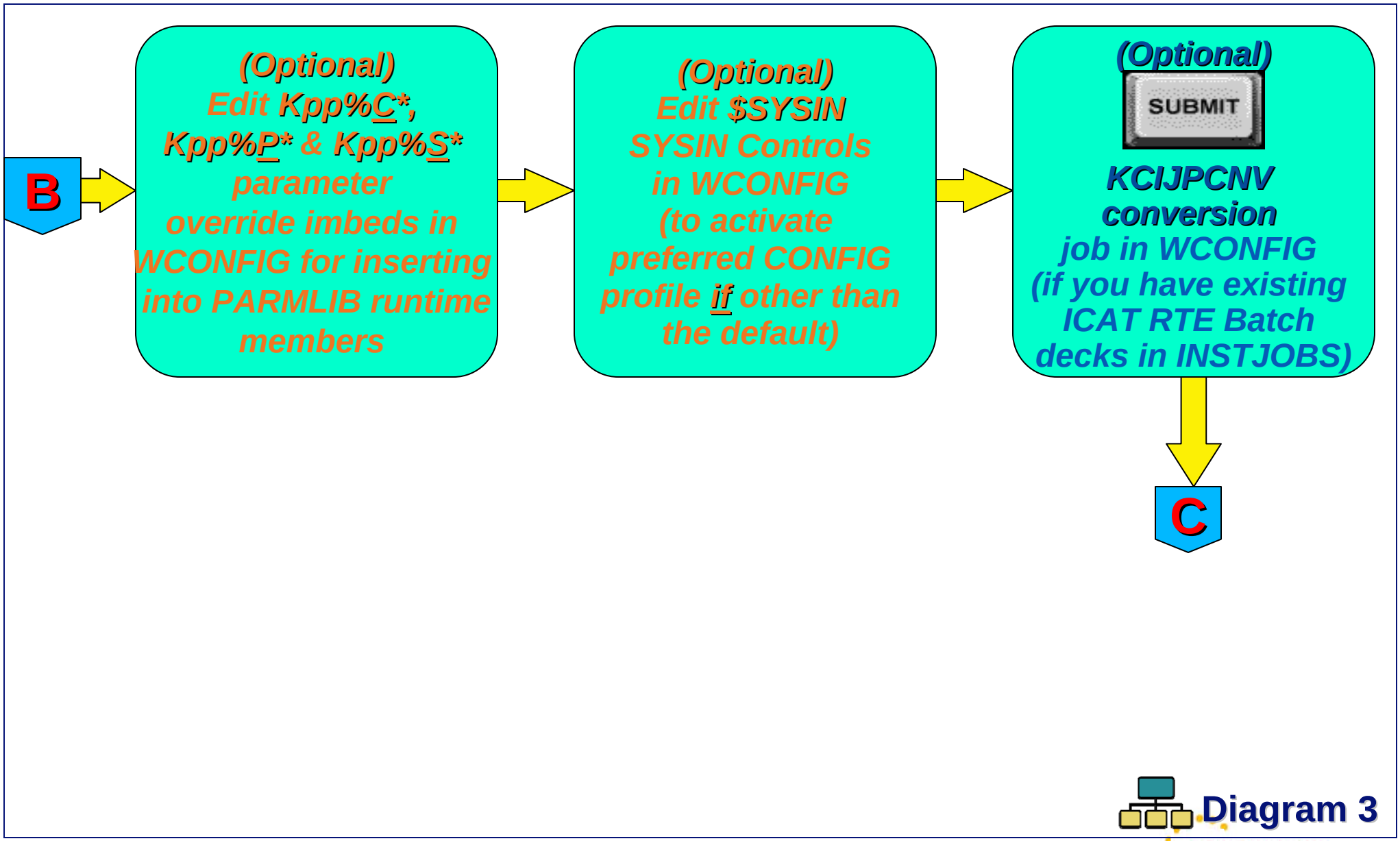


Diagram 3

PARMLIB Workflow – Diagram (cont'd)

C

(Optional)
Customize &rte_name member in PARMLIB USER JCL to define any user-defined symbolics if System Variables is enabled in the RTE

or

or

SUBMIT

$PARSE file-tailoring job in WCONFIG (if System Variables is not enabled in the RTE)

D1

SUBMIT

$PARSESV file-tailoring job in WCONFIG (if System Variables is enabled in the RTE)

D2

Diagram 4

PARMLIB Workflow – Diagram (cont'd)

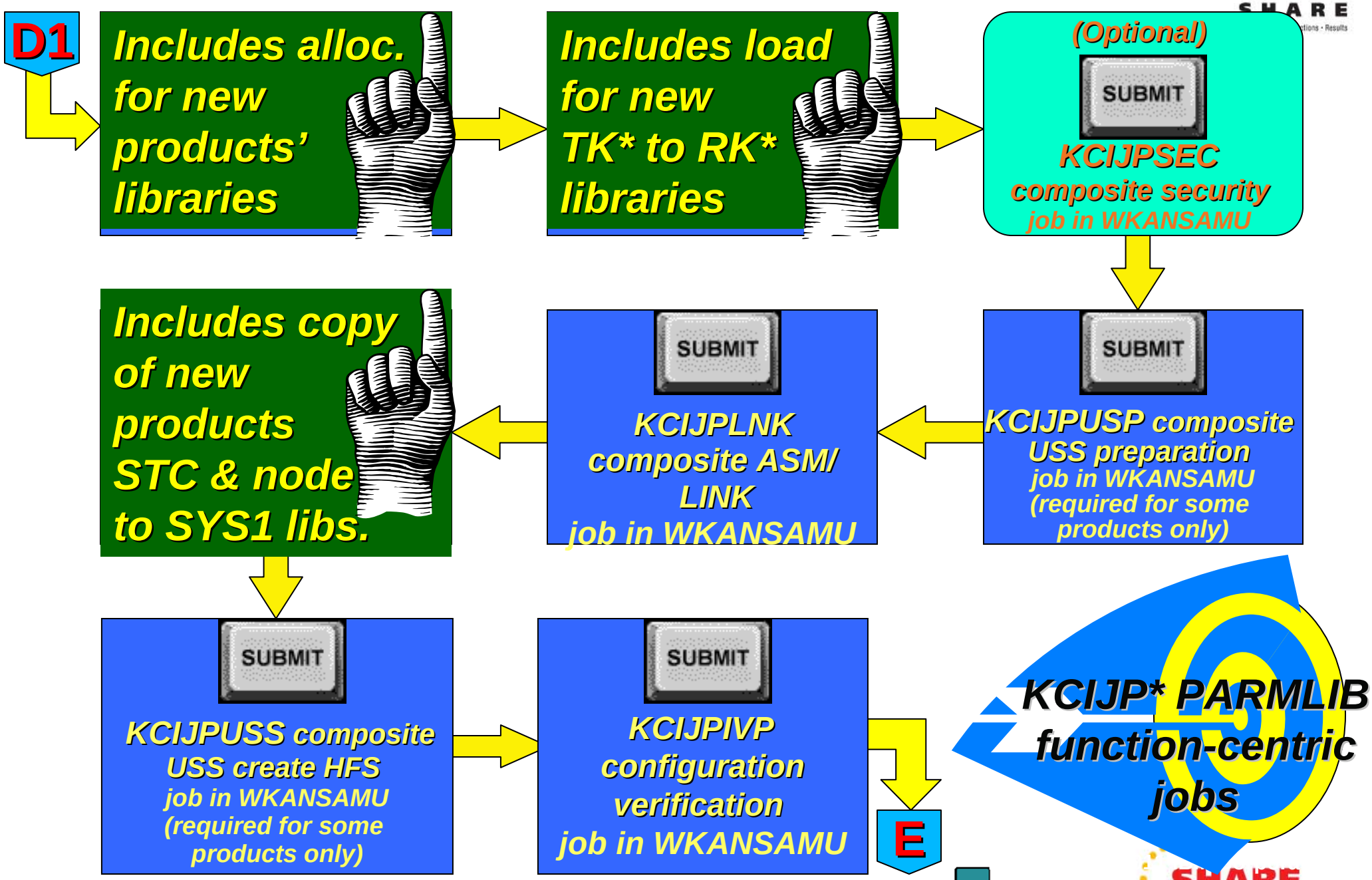


Diagram 5A

PARMLIB Workflow – Diagram (cont'd)

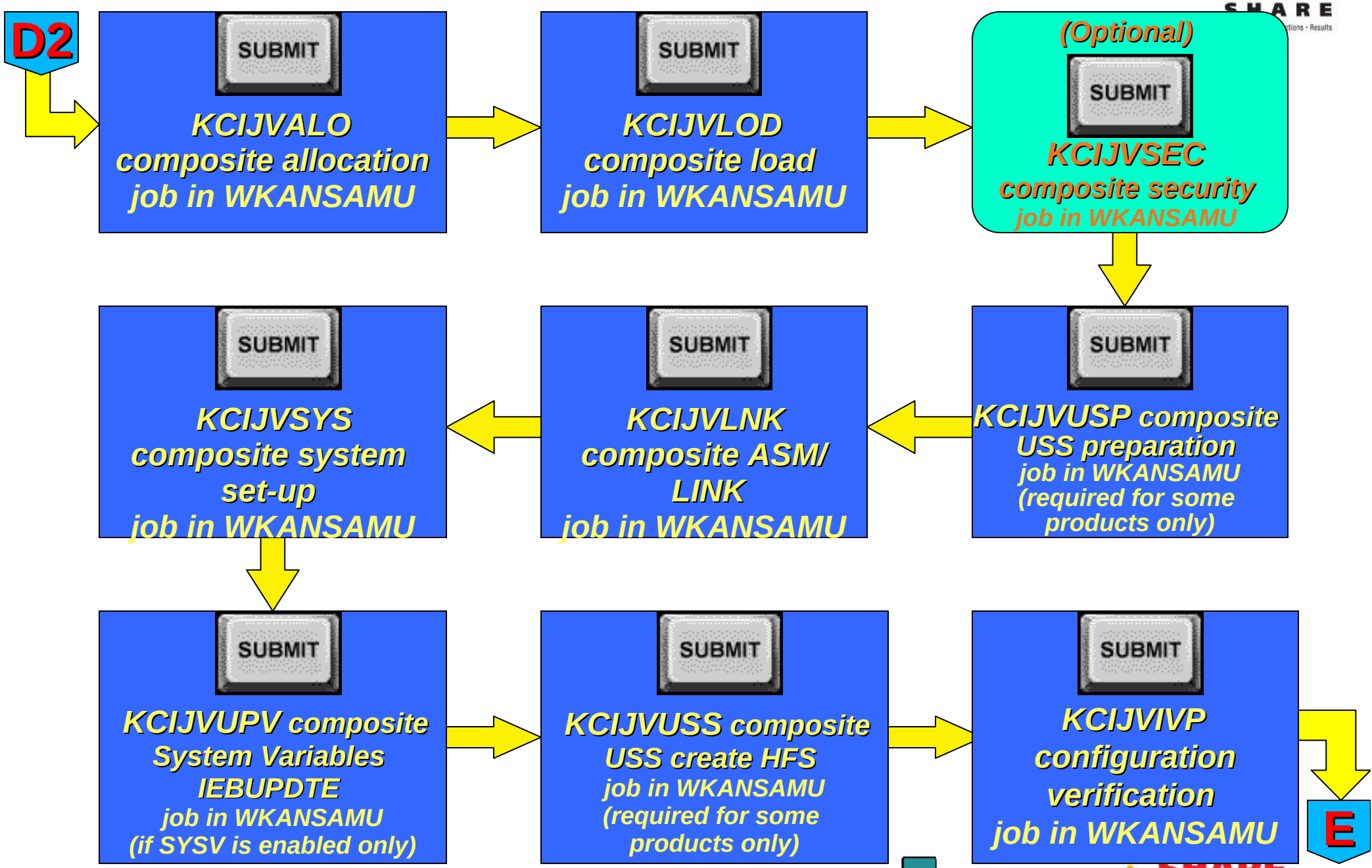
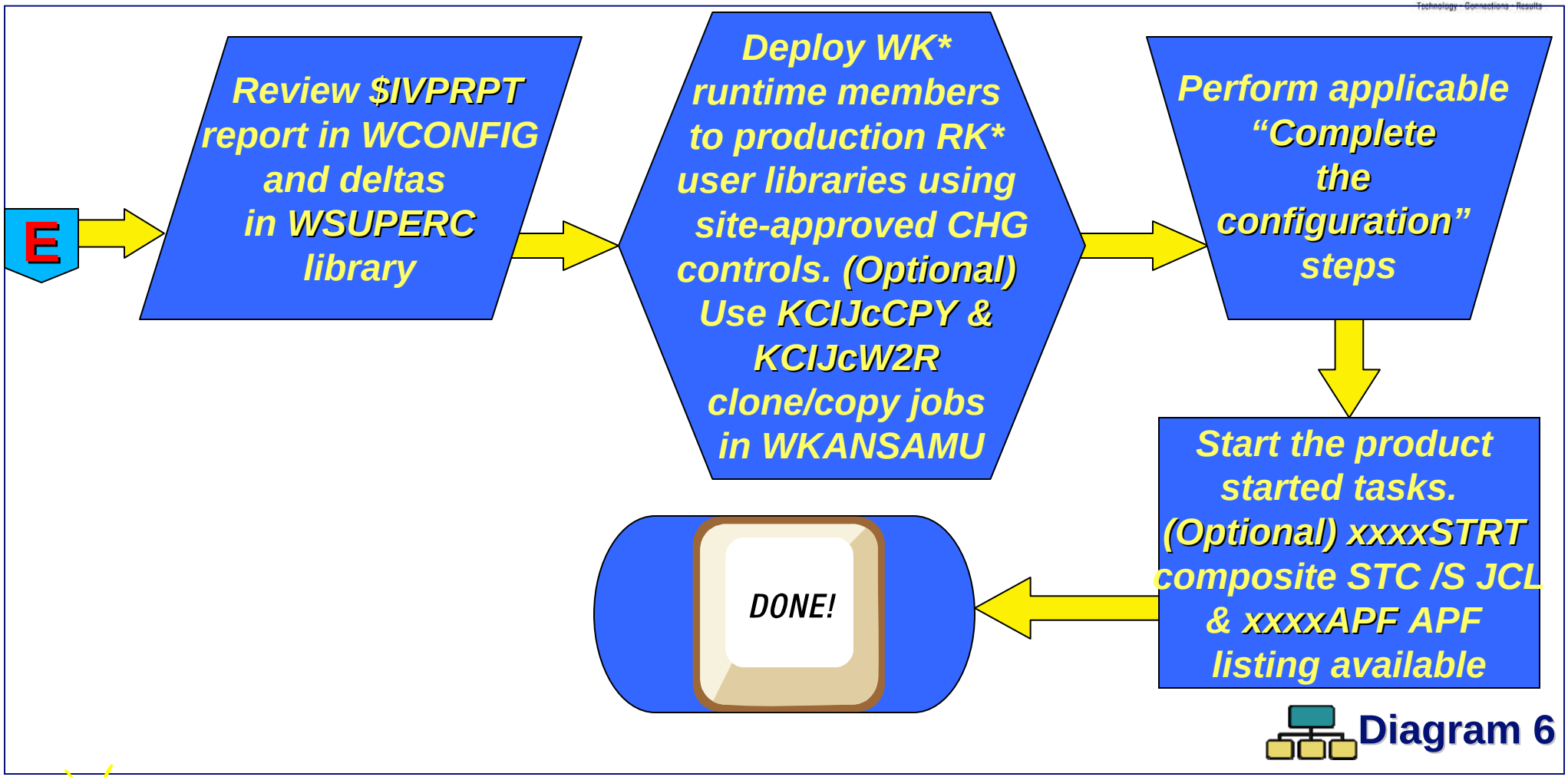


Diagram 5B

PARMLIB Workflow – Diagram (cont'd)

PARMLIB Workflow – Diagram (cont'd)



Same procedure whether you are configuring 1 component or 37 components!

Low-level Details of PARMLIB Workflow

PARMLIB Workflow – Low-level details

- Step 1. Apply the latest PARMLIB PTF. HKCI310 PTF **delivers the PARMLIB samples and runtime files per product, KCIJP* batch JCL, and other elements ($PARSE* KCIPARSE jobs, $SYSIN SYSIN control card, RTE CONFIG profile).**

PARMLIB Alternative Configuration for OMEGAMON XE and Tivoli Management Services (TMS) Products on z/OS

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

Step 1 Results:

- After the PTF is applied, the TKANCMD, TKANPAR and TKANSAM SMP/E target libraries contain the new PARMLIB elements.
- The TKANCUS SMP/E target library also contains new PARMLIB configuration code to support the PARMLIB functions such as the on-line parameter help facility, validation, conversion, and others.
- The TKANMOD SMP/E target library also contains the KCIPARSE PARMLIB module to support the file-tailoring functions.

Best Practices: Back-up the current SMP/E target libraries prior to applying the PTF.

PARMLIB Workflow – Low-level details (cont'd)

- **Step 2. Set-up the PARMLIB work environment by customizing the KCIJPCFG job.**
  - Copy the *&thilev*.TKANSAM(**KCIJPCFG**) job to a USER JCL library for PARMLIB use.
  - Customize the JCL accordingly:

```
EDIT       TDITNT.PARMLIB.JCL(KCIJPCFG) - 01.99          Columns 00001 00072
Command ===>                                               Scroll ===> CSR
000793 * ********************************************************************
000794 * ------------------- BEGIN - USER SECTION: CONFIG --------------- *
000795 * ********************************************************************
000796 * CONFIGURE FLAGS: Set to "Y" or "N".                               *
000797 * Note: &pppVER flag are for reference only.                        *
000798 * ********************************************************************
000799 * Tivoli Enterprise Monitoring Server: KDS flag
000800   SET CONFIGURE_TEMS_KDS      = "Y"
000801 * IBM Tivoli OMEGAMON XE for CICS on z/OS: KC5 flag
000802   SET CONFIGURE_CICS_KC5      = "Y"
000803 * IBM Tivoli OMEGAMON XE for CICS TG on z/OS: KGW flag
000804   SET CONFIGURE_CICS_TG_KGW   = "Y"
000805 * IBM Tivoli OMEGAMON XE for DB2 PE/PM: KD2 and KD5 flags
000806   SET CONFIGURE_DB2_PEPM_KD2  = "Y"
000807   SET CONFIGURE_DB2_AGENT_KD5 = "Y"
000808 * IBM Tivoli OMEGAMON XE for IMS on z/OS: KI5 flag
000809   SET CONFIGURE_IMS_KI5       = "Y"
000810 * IBM Tivoli OMEGAMON XE on z/OS: KM5 flag
000811   SET CONFIGURE_ZOS_KM5       = "Y"
000812 * IBM Tivoli System Automation for z/OS: KAH flag
```

(HLQs)

vork c

ime u

ifier; *&rhilev* = RTE

bers from the

Hands-on updates to KCIJPCFG set-up job

PARMLIB Workflow – Low-level details (cont'd)

- **Step 2. Set-up the PARMLIB work environment by customizing the KCIJPCFG job. *(cont'd)***
  - Copy the *&thilev*.TKANSAM(KCIJPCFG) job to a USER JCL library

PARMLIB Alternative Configuration for OMEGAMON XE and Tivoli Management Services (TMS) Products on z/OS

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

Step 2 Results:

- In WCONFIG, the following members are created by KCIJPCFG job and file-tailored based on the values you customized in the job:

Table B1. WCONFIG Contents After KCIJPCFG Jobrun.

Member	D
KCIJPCCF	W… WCONFIG override imbeds (Kpp$C*/Kpp@C*,Kpp$P*/Kpp@P*, and/or Kpp$S*/Kpp@S*), $JOBCARD, etc., and would like to save time and reuse the same customized members for creating the next RTE, use this job to clone the already-customized WCONFIG members after you run the KCIJPCFG set-up job for the next RTE.

In 1Q11, new KCIJPCCF WCONFIG cloner job saves you time From having to copy any WCONFIG user overrides.

- set-up KCIJPCCF WCONFIG cloner job. If you are rerunning KCIJPCFG set-up job for additional RTEs to set-up, and you want to clone any customized WCONFIG members from the first fully-deployed RTE, then use the WCONFIG(KCIJPCCF) WCONFIG cloner job after you run the KCIJPCFG set-up job for the next RTE.

PARMLIB Workflow – Low-level details (cont'd)

- Step 3. Review the PARMLIB $JOBINDX job index in WCONFIG for planning purposes.

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG(%JOBINDX)
================================================================
 * * *  P A R M L I B    B a t c h   J o b s   I n d e x  * * *
================================================================
A PARMLIB job index [WCONFIG($JOBINDX) or
IKANSAMU/WKANSAMU(KCIJ$NDX)] is also supplied for reference.  It
lists the required and optional jobs that should be submitted
and executed in the order presented below.  "User Copy" job
location is also included:
========  ======================================== ========
Member                                              Required
Name                        Function                  Y/N?
========  ======================================== ========
KCIJPCFG  Set up the PARMLIB work libraries and        Y
.
.
.
          User Copy: Copy from TKANSAM to a user JCL library.
                     A copy is created in WCONFIG.
.
.
.
KCIJPUP1  1. Populate the interim staging libraries    Y
```

Lists all KCIJP* PARMLIB jobs

PARMLIB Workflow – Low-level details (cont'd)

- Step 4. Set-up PARMLIB jobcard-related elements and on-line help macro.
  - **Customize the** optional JOBCARD macro **if desired, then copy the JOBCARD and the** KCIRPLBS parameter on-line help set-up macro **from the PARMLIB WCONFIG work control library, to your SYSPROC concatenation.**
  - **Customize the sample** $JOBCARD **member in PARMLIB WCONFIG.**

Via PARMGEN, these steps are already done

PARMLIB JOBCARD Members

A JOBCARD macro is supplied and user has the option to copy the macro to his/her SYSPROC concatenation. Sample JOBCARD macro is shown below:

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG(JOBCARD)
/** ************************************************************
/** MEMBER: KCIRJCRD
/** PRIMARY SOURCE: TKANCUS(KCIRJCRD)   USER COPY: WCONFIG(JOBCARD)
/** INSTRUCTIONS:
/** Copy the JOBCARD macro supplied in the
/** %RTE_HILEV%.%RTE_NAME%.WCONFIG
/** PARMLIB CONFIG control library to your SYSPROC concatenation.
/** Tip: Customize the JOBCARD macro based on user's site
/**      requirements prior to copying it to the SYSPROC library.
/**      To query what libraries are concatenated in your SYSPROC
/**      concatenation, invoke the TSO ISRDDN command.  To invoke
/**      ISRDDN, use option 6 or invoke it from any ISPF panel at any
/**      TSO command prompt, such as: COMMAND ==> TSO ISRDDN
/** ************************************************************
ISREDIT MACRO
.
.
SET JC1 = &STR('//&SYSUID.A JOB (00192,B300,&SYSUID),&SYSUID,')
SET JC2 = &STR('// CLASS=&C,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&&SYSUID,')
SET JC3 = &STR('// REGION=0M                                    ')
SET JC4 = &STR('//*ROUTE PRINT N1R1                             ')
SET JC5 = &STR('//** SYSJOBNAME=%SYSJOBNAME% SYSMEMBER=%SYSMEMBER% ')
.
.
```

PARMLIB JOBCARD Members (cont'd)

A **$JOBCARD** sample is also supplied and user has the option to execute the JOBCARD macro or hand-update the sample below:

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($JOBCARD)
****************************** Top of Data **********************
==> JOBCARD
//*&ZUSER.A  JOB (ACCT),'NAME',CLASS=A,
//*  MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=&SYSUID.,
//*  REGION=0M
```

Sample JOBCARD macro

```
EDIT       TDITNT.ONESAPM.TESTSYSG.WCONFIG(KCIJPCNV) - 01. Columns 000
Command ===> _                                              Scroll =
****** ***************************** Top of Data ***********************
000001 //CCAPISYG JOB (00192,B300,CCAPI),'CECILE CAPINPIN-DAY',
000002 // CLASS=A,MSGCLASS=X,MSGLEVEL=(1,1),NOTIFY=CCAPI,
000003 // REGION=0M
000004 //*ROUTE PRINT N1R1
000005 //** SYSJOBNAME=CCAPISYG SYSMEMBER=KCIJPCNV
000006 //* ********************************************************
000007 //* Member: KCIJPCNV
000008 //* Master Source: TDITNT.ITM62242.TKANSAM(KCIPRMLB)
000009 //* KCIJPUP1 Batch Job Output:
000010 //*   TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPCNV) - IBM Default
000011 //*   TDITNT.ONESAPM.TESTSYSG.WCONFIG(KCIJPCNV) - Customer Copy
000012 //* $PARSE or $PARSESV Batch Job Output:
000013 //*   TDITNT.ONESAPM.TESTSYSG.WKANSAMU(KCIJPCNV)
000014 //* ********************************************************
```

Example of PARMLIB-processed SYSJOBNAME and SYSMEMBER

PARMLIB Parameter On-line Help

The KCIRPLBS on-line parameter help set-up macro copied from yourSYSPROC concatenation is issued on the command line:

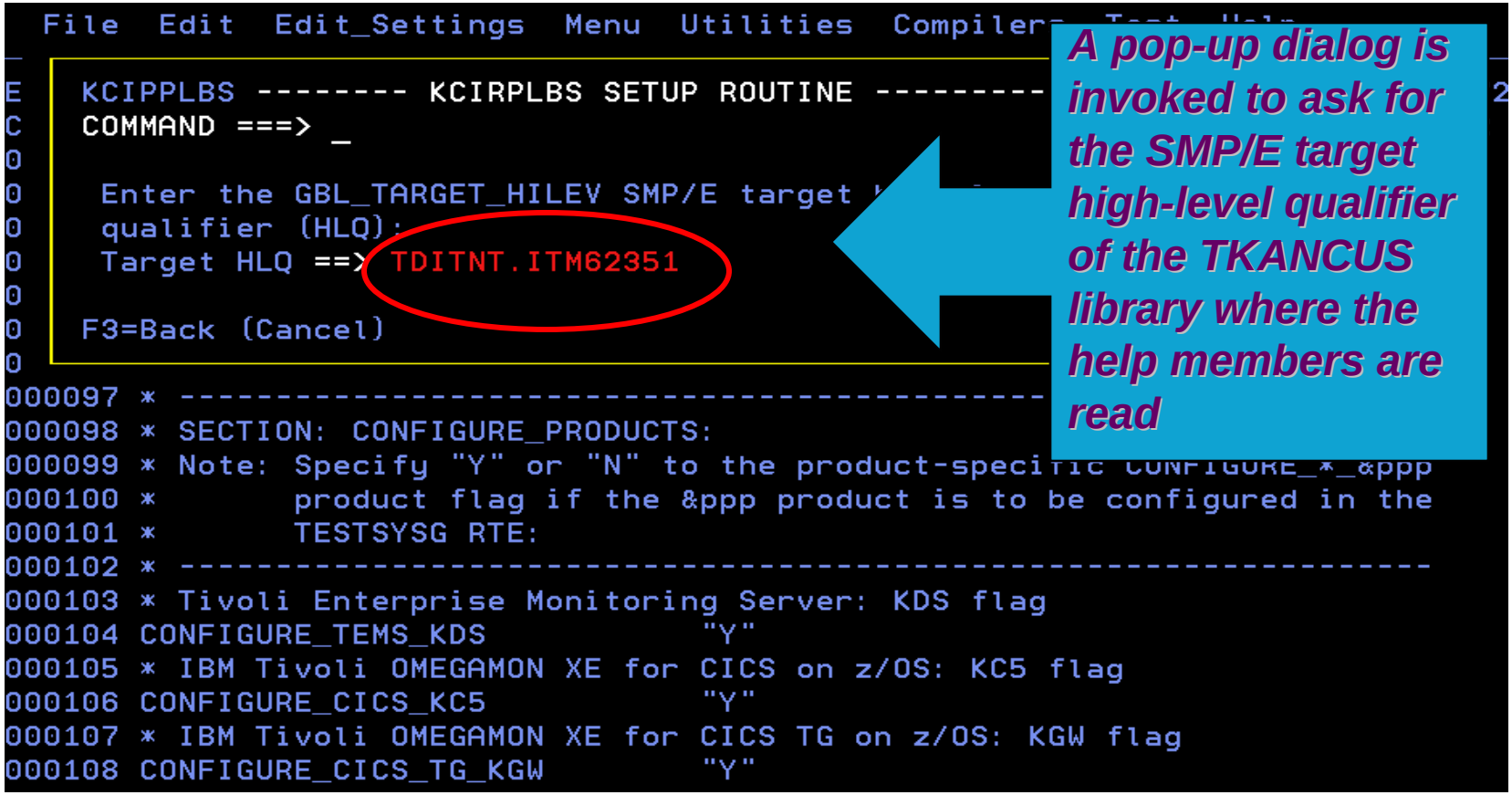
```
EDIT       TDITNT.ONESAPM.TESTSYSG.WCONFIG(TESTSYSG) - 01. Columns 00001 0
Command ===> TSO KCIRPLBS
000090 ** ========================
000091 ** PARMLIB CONFIG Parameter       PARMLIB CONFIG Value
000092 ** ============================   ================================
000093
000094 * ================================================================
000095 * Master Flags from CONFIGURE_PRODUCTS USER SECTION in KCIJPCFG job
000096 * ================================================================
000097 * ----------------------------------------------------------------
000098 * SECTION: CONFIGURE_PRODUCTS:
000099 * Note: Specify "Y" or "N" to the product-specific CONFIGURE_*_&ppp
000100 *       product flag if the &ppp product is to be configured in the
000101 *       TESTSYSG RTE:
000102 * ----------------------------------------------------------------
000103 * Tivoli Enterprise Monitoring Server: KDS flag
000104 CONFIGURE_TEMS_KDS             "Y"
000105 * IBM Tivoli OMEGAMON XE for CICS on z/OS: KC5 flag
000106 CONFIGURE_CICS_KC5             "Y"
000107 * IBM Tivoli OMEGAMON XE for CICS TG on z/OS: KGW flag
000108 CONFIGURE_CICS_TG_KGW          "Y"
000109 * IBM Tivoli OMEGAMON XE for DB2 PE/PM: KD5 flag
```

PARMLIB on-line parameter help set-up macro

or ➔ TSO EX '&thilev.TKANCUS (KCIRPLBS)'

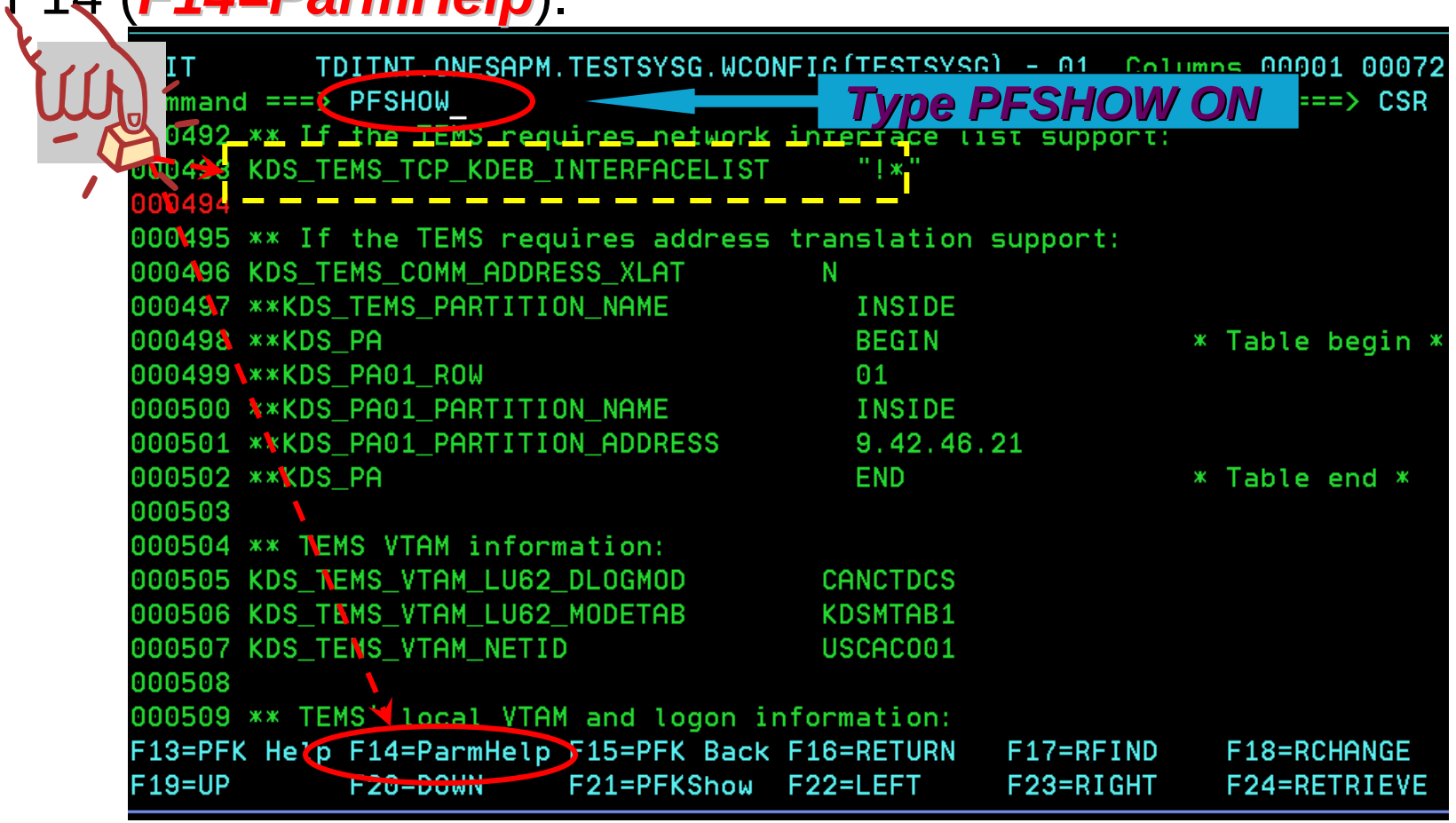
PARMLIB Parameter On-line Help (cont'd)

The **KCIRPLBS** on-line parameter help set-up macro copied from your SYSPROC concatenation is issued on the command line. A pop-up window is invoked:



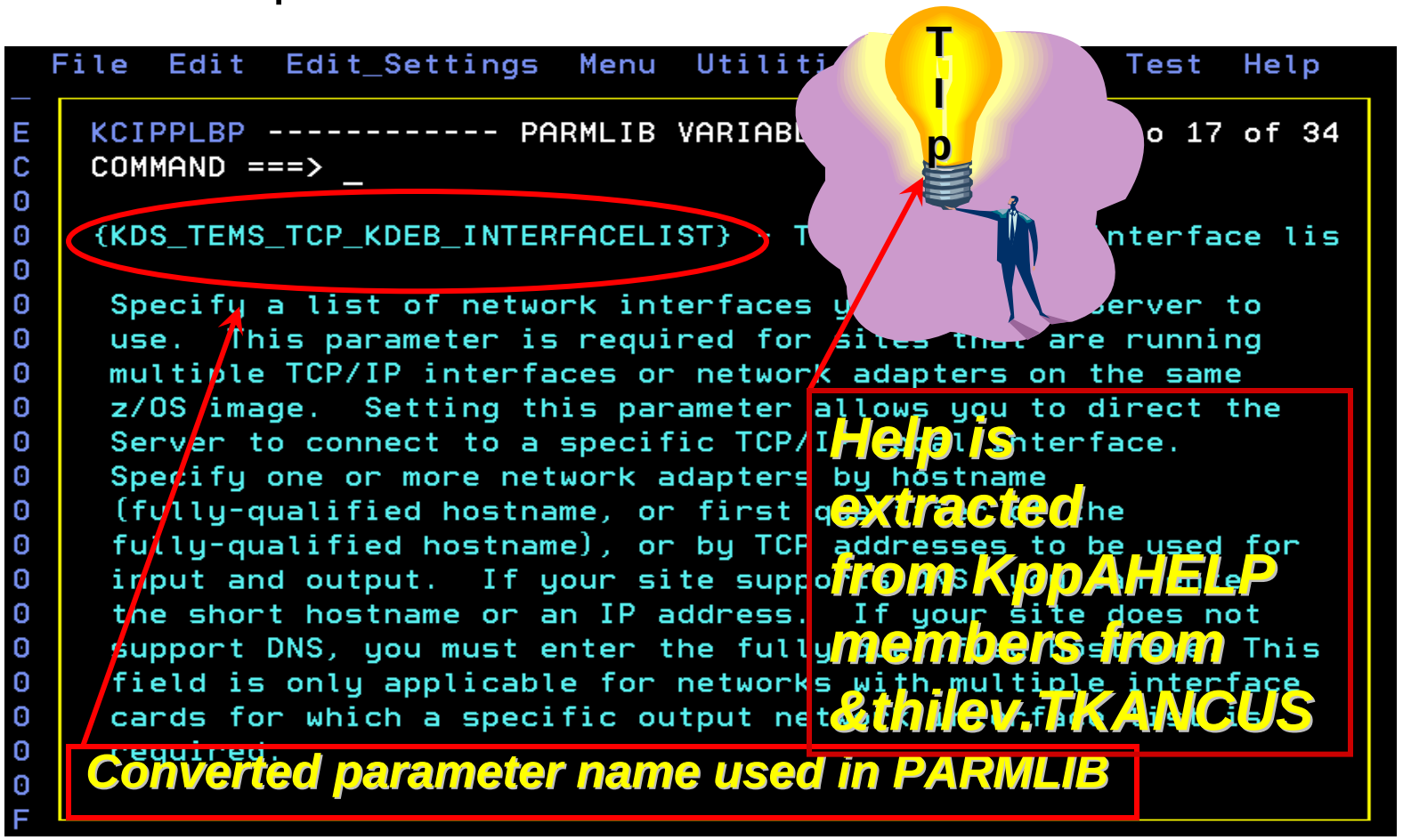
PARMLIB Parameter On-line Help (cont'd)

Once KCIRPLBS help macro is set-up, type **PFSHOW ON** to display the PF Keys. **Place the cursor** anywhere on the line containing the parameter for which help is to be displayed and hit PF14 (***F14=ParmHelp***).



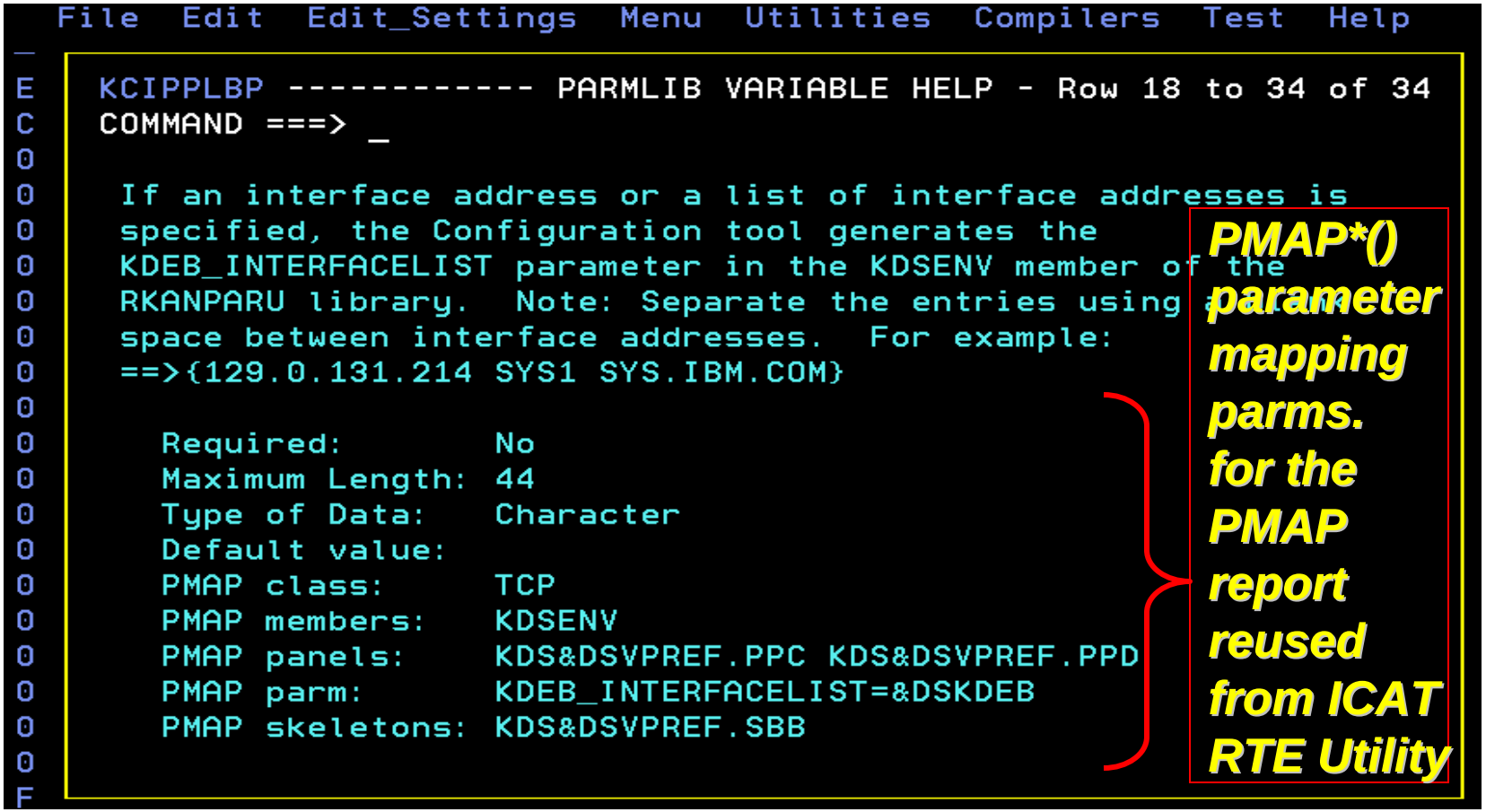
PARMLIB Parameter On-line Help (cont'd)

Help is displayed in a pop-up dialogue. The utility isolates the parameter, perform a look-up, and displays a pop-up dialogue with the detailed help information.



PARMLIB Parameter On-line Help (cont'd)

From within this pop-up, if desired, hit **PF5 to VIEW** the entire K*pp*AHELP/ K*pp*BHELP files.



PARMLIB Workflow – Low-level details (cont'd)

- Step 5. Customize the composite KCIJPUP1 IEBUPDTE job.
  - **Add the jobcard to WCONFIG(KCIJPUP1) job (either copy the $JOBCARD member you customized in prior step or execute the JOBCARD macro).**
  - **Submit the job to:**
    - **populate the IK* interim staging libraries with the product-specific PARMLIB samples and elements packaged in the composite KppCMDLB/KppPRMLB master IEBUPDTE members from the SMP/E target libraries.**
    - **prepare applicable PARMLIB elements *dynamically* (KCIJP* jobs, RTE CONFIG profile and SYSIN members) based on user-customizations from the KCIJPCFG set-up job.**

Via PARMGEN, this step is already done

PARMLIB Workflow – Low-level details (cont'd)

- Step 5. Customize the composite KCIJPUP1 IEBUPDTE job.
  - **Add the jobcard to WCONFIG(KCIJPUP1) job (either copy the $JOBCARD member you customized in prior step or execute**

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

Step 5 Results:

✔ After the KCIJPUP1 job runs, the *&rhilev.&rte.IK** interim staging libraries are populated with the PARMLIB samples (templates) and other elements for products that will be configured into the RTE. You will recognize most of the runtime members populated in the IKANCMDU, IKANPARU, and IKANSAMU libraries (including IKD2* if the OMXE for DB2 PE/PM product is being configured) as members typically created by the ICAT "Create runtime members" job. In PARMLIB mode, these members are delivered as templates for further KCIPARSE processing/file-tailoring:

:t-
e
P*
n

```
ISRUDSM VIEW          TDITNT.ONESAPM.TESTSYSG.IKANPARU          Row 00001 of 01394
Command ===>                                                      Scroll ===> CSR
           Name       Prompt          Size    Created          Changed          ID
_________ HZSPRMCI
_________ KAES256
.
_________ KDSENV
_________ KDSSYSIN
.
_________ KYNPG
_________ KYNSAENV
_________ KYNSYSIN
          **End**
```

IK* libs. populated by KCIJPUP1 IEBUPDTE job

PARMLIB Workflow – Low-level details (cont'd)

- Step 5. Submit the composite **KCIJPUP1** IEBUPDTE job.

Table B2. WCONFIG Contents After KCIJPUP1 Jobrun.	
Member	**Description**
C. KCIJP* WCONFIG jobs (See WCONFIG($JOBINDX) for more information)	
KCIJPPRy/$PARSExx New in 4Q10	additional $PARSE*-related jobs. Similar to the $PARSE/$PARSESV jobs but these library-specific $PARSE jobs only perform the equivalent of "PART 3 - WK* Steps" without the "PART 1 - VALIDATE Step" & "PART 2 - CPYEMPTY Steps" of the typical $PARSE/$PARSESV jobs. ▪ KCIJPPRC/**$PARSECM** is a subset of the $PARSE job to process the PARMLIB samples from IKANCMDU into WKANCMDU work output library. ▪ KCIJPPRM/**$PARSESM** is a subset of the $PARSE job to process the PARMLIB samples from IKANSAMU into WKANSAMU work output library. ▪ KCIJPPRP/**$PARSEPR** is a subset of the $PARSE job to process the PARMLIB samples from IKANPARU into WKANPARU work output library. ▪ KCIJPPRY/**$PARSEDV** is a standalone job that can be run to get a list of resolved values for KCIPARSE-extracted symbolics. The job provides for TYPE:CE (CHAR extracted) and TYPE:IE (INTEGER extracted) KCIPARSE-extracted symbolics for System Variables use in the PARMLIB CONFIG parameter values. (where ***y*** = C,M,P,Y ***xx*** = CM, SM, PR, DV)
D. WCONFIG Customer Override Imbeds	
Kpp$C*/Kpp@C* **Kpp$P*/Kpp@P*** **Kpp$S*/Kpp@S***	PART 3 WCONFIGx Steps from KCIJPUP1 copy these PARMLIB override members from the respective IK* interim staging libraries to the WCONFIG PARMLIB control library. Please refer to "**Table C. WCONFIG Customer Override**

PARMLIB Workflow – Low-level details (cont'd)

- Step 6. **Set up the** PARMLIB CONFIG Profiles. **A PARMLIB configuration profile contains parameter values for all the global, LPAR-specific RTE and product-specific parameters. You can set up a profile from any of the following inputs:**
  - **a.** New PARMLIB global ($GBL*) and LPAR RTE ($CFG$IBM/RTE_NAME) WCONFIG profiles **- You can use the IBM-supplied CONFIG profile members in the WCONFIG library, and use the IBM-supplied default values as initial PARMLIB parameter values.**
  - **b.** Converted PARMLIB RTE Batch member **- If you have an RTE that is already configured by the Configuration Tool (ICAT) method and you want to use the batch parameter values of that RTE, you can run a conversion tool (KCIJPCNV job) and use the existing parameter values as initial PARMLIB parameter values. Note: After you convert the batch parameter member and then use the PARMLIB method to configure a new RTE, you cannot use the Configuration Tool to edit or maintain the configuration.**

PARMLIB Workflow – Low-level details (cont'd)

Time-saving tips about PARMLIB CONFIG Profiles:

- ***Submit WCONFIG(KCIJPMCF) job to merge parameter values from an old CONFIG profile member into a new one. This job can be used to merge a backup WCONFIG profile to a new one (old GBLUSR-->new GBLUSR, old &rte_name LPAR profile-->new &rte_name). This job is handy when reconfiguring an RTE – i.e., when applying maintenance to an existing RTE and you want to override the IBM-supplied configuration defaults in global GBLIBM or LPAR RTE CFGIBM for new configuration options you want to exploit.***
- ***Submit WCONFIG(KCIJPCNV) job to convert the existing parameter values as initial PARMLIB parameter values If you have an RTE that is already configured by the Configuration Tool (ICAT) method.***

PARMLIB CONFIG User Profile - $GBL* global

The PARMLIB CONFIG profile member for candidate global system-related values that can be reused for all LPARs. IBM-supplied default is shown below:

```
EDIT       TDITNT.ONESAPM.TESTSYSG.WCONFIG($GBL$IBM) - 01. Columns 00001 00072
Command ===> _                                              Scroll ===> CSR
000031 ** ============================   ================================
000032 ** PARMLIB CONFIG Parameter       PARMLIB CONFIG Value
000033 ** ============================   ================================
000034 * ------------------------------------------------------------------
000035 * SECTION: GLOBAL_SMP_RTE_ENVIRONMENT: SMP/E and CALLLIBS values:
000036 *
000037 **** SMP/E Target High-Level Qualifier (HLQ):
000038 GBL_TARGET_HILEV                "TDITNT.ITM62351"
000039
000040 ** PARMLIB User JCL:
000041 GBL_USER_JCL                   "TDITNT.PARMLIB.JCL"
000042
000043 ** Configuration Tool (ICAT) work library HLQ of the INSTJOBS library:
000044 GBL_INST_HILEV                 "TDOMPT.ITM623"
000045
000046 ** Global SYSDA unit:
000047 GBL_SYSDA_UNIT                 "SYSDA"
000048
000049 ** Sysplex name:
000050 GBL_SYSPLEX_NAME               LPARPLEX
```

Values you customized in KCIJPCFG job

Autodiscovered value

PARMLIB CONFIG User Profile - $GBL* global

A number of product-specific system library names in ICAT were converted to common, global parameters so the same value can be shared by other products that need the same configuration. These are created in the new WCONFIG(**$GBL***) profiles:

```
** Common system libraries (if applicable):
** Note: Comment out the parameter or null out the value accordi
** GBL_DSN_WMQ_* WebSphere MQ system libraries:
GBL_DSN_WMQ_SCSQANLE              "CSQ.V7R0M1.SCSQANLE"
GBL_DSN_WMQ_SCSQAUTH              "CSQ.V7R0M1.SCSQAUTH"
GBL_DSN_WMQ_SCSQLOAD              "CSQ.V7R0M1.SCSQLOAD"

** GBL_DSN_CEE_* system libraries:
GBL_DSN_CEE_SCEELKED              "CEE.SCEELKED"
GBL_DSN_CEE_SCEERUN               "CEE.SCEERUN"
GBL_DSN_CEE_SCEEBIND              "CEE.SCEEBIND"
.
.
** GBL_DSN_SYS1_* system libraries:
GBL_DSN_SYS1_PARMLIB              "SYS1.PARMLIB"
GBL_DSN_SYS1_PROCLIB              "SYS1.PROCLIB"
GBL_DSN_SYS1_SAXREXEC             "SYS1.SAXREXEC"
GBL_DSN_SYS1_VTAMLIB              "SYS1.VTAMLIB"
GBL_DSN_SYS1_VTAMLST              "SYS1.VTAMLST"
GBL_DSN_SYS1_BRODCAST             "SYS1.BRODCAST"
GBL_DSN_SYS1_CSSLIB               "SYS1.CSSLIB"
GBL_DSN_SYS1_HSMLOGY              "SYS1.HSMLOGY"
GBL_DSN_SYS1_LINKLIB              "SYS1.LINKLIB"
GBL_DSN_SYS1_MODGEN               "SYS1.MODGEN"
GBL_DSN_SYS1_SBLSCLI0             "SYS1.SBLSCLI0"
GBL_DSN_SYS1_SBPXEXEC             "SYS1.SBPXEXEC"
GBL_DSN_SYS1_SISTMAC1             "SYS1.SISTMAC1"
GBL_DSN_SYS1_MACLIB               "SYS1.MACLIB"
```

System libraries extracted from JobGen CALLLIBS repository you customized – example of "SHARE" model

PARMLIB CONFIG User Profile - $GBL* global

```
** GBL_DSN_TCP_* TCP system libraries:
GBL_DSN_TCP_SYSTCPD_TCPDATA_MFN "TCPIP.SEZAINST(TCPDATA)"
GBL_DSN_TCP_SYSTCPD_TCPDATA     "TCPIP.SEZAINST"
GBL_DSN_TCP_ETC_SERVICES        "TCPIP.ETC.SERVICES"
GBL_DSN_TCP_SEZACMTX            "EZA.SEZACMTX"
GBL_DSN_TCP_SEZARNT1            "EZA.SEZARNT1"
GBL_DSN_TCP_SEZATCP             "EZA.SEZATCP"

** GBL_DSN_CICS_* CICS system libraries:
GBL_DSN_CICS_CTG_DLL            "SYS1.SCTGDLL"
GBL_DSN_CICS_SCTGSID            "CTG.V8R0M0.SCTGSID"
GBL_DSN_CICS_SDFHC370           "DFH.V4R2M5P.SDFHC370"
GBL_DSN_CICS_SDFHLOAD           "DFH.V4R2M5P.SDFHLOAD"

** GBL_DSN_IMS_* IMS system libraries:
GBL_DSN_IMS_RESLIB              "DFS.V12R0M0.SDFSRESL"
GBL_DSN_IMS_SCEXLINK            "IMS.SCEXLINK"
GBL_DSN_IMS_SFUNLINK            "IMS.SFUNLINK"

** GBL_DSN_DB2_* DB2 system libraries:
GBL_DSN_DB2_SDSNLOAD            "DSN.V9R1M0.SDSNLOAD"
GBL_DSN_DB2_LOADLIB_V8          "DSN.V8R1M0.SDSNLOAD"
GBL_DSN_DB2_LOADLIB_V9          "DSN.V9R1M0.SDSNLOAD"
**GBL_DSN_DB2_LOADLIB_V10        "DSN.VAR1M0.SDSNLOAD"
GBL_DSN_DB2_RUNLIB_V8           "DSN.V8R1M0.RUNLIB"
GBL_DSN_DB2_RUNLIB_V9           "DSN.V9R1M0.RUNLIB"
**GBL_DSN_DB2_RUNLIB_V10         "DSN.VAR1M0.RUNLIB"
GBL_DSN_DB2_DSNEXIT             "DSN.V9R1M0.DSNEXIT"

** GBL_DSN_NETVIEW_* NetView system libraries:
**GBL_DSN_NETVIEW_CNMLINK        "NETVIEW.VNRNMN.CNMLINK"

** GBL_DSN_CSF_* ICSF system libraries:
GBL_DSN_CSF_SCSFMOD0            "CSF.SCSFMOD0"

* $GBL$IBM END  *-------------- PARMLIB CONFIGURATION ---------------*
```

After a KCIJPCNV ICAT→PARMLIB conversion, any converted GBL_DSN_* are also generated In the LPAR-specific WCONFIG(RTE_NAME) which takes precedence over the $GBL profile. This provides customers the flexibility to use the LPAR profile as the ultimate overriding CONFIG profile [as generated in WCONFIG($SYSIN)].*

PARMLIB CONFIG User Profile – LPAR-specific (RTE)

The RTE CONFIG User Profile allows the customer to override defaults as necessary. Sample *&rte_name* (modeled after CFGIBM IBM default) CONFIG member is shown below:

```
EDIT       TDITNT.ONESAPM.TESTSYSG.WCONFIG(TESTSYSG) - 01. Columns 00001 00072
Command ===>                                                  Scroll ===> CSR
000326 ** VTAM SNA values:
000327 RTE_VTAM_NETID                    SYGNETID
000328 RTE_VTAM_LU62_DLOGMOD             CANCTDCS
000329 RTE_VTAM_LU62_MODETAB             KDSMTAB1
000330 RTE_VTAM_GBL_MAJOR_NODE           KCANDLE1
000331 RTE_VTAM_APPLID_MODEL             Y
000332
000333 ** TCP/IP communications values:
000334 RTE_TCP_HOST                       "SYSGHOST"
000335 RTE_TCP_STC                        "*"
000336 RTE_TCP_PORT_NUM                   1918
000337
000338 ** (Optional) If any products to be configured in this RTE require
000339 ** Unix System Services (USS) directories created, specify the main RTE
000340 ** HFS/zFS directory (#rtedir):
000341 RTE_USS_RTEDIR                     "/tditnt"
000342
000343 ** Persistent Datastore options:
000344 RTE_PDS_KPDPROC_PREFIX             KPDPROC
000345 RTE_PDS_FILE_COUNT                 3
```

Autodiscovered value

Autodiscovered value

PARMLIB CONFIG User Profile – LPAR-specific (RTE)

If customer has an existing INST* environment, a conversion utility (KCIJPCNV job) is provided to convert the RTE Batch Parameter Member. Sample converted PARMLIB CONFIG member is shown below (TESTSYSG is the name of the RTE Batch Member):

```
****************************** Top of Data ******************************
*
* File created on 31 July 2011 at 23:38:40 by KCIRPLBC
* Input file was 'TDOMPT.ITM623.INSTJOBS(TESTSYSG)'
*
RTE$ BEGIN *------------ CONFIGURATION TOOL V310 ------------*
RTE_NAME                          TESTSYSG
.
** Tivoli Enterprise Monitoring Server (TEMS) flag and CMS_NODEID name:
RTE_TEMS_CONFIGURED_FLAG          Y
RTE_TEMS_NAME_NODEID              "TESTSYSG:CMS"

** Security options:
** Specify the security system to be used for this RTE.  Options are
** RACF, SAF, ACF2, TSS, NAM, or NONE.
RTE_SECURITY_USER_LOGON           RACF
RTE_SECURITY_FOLD_PASSWORD_FLAG   Y

** System procedure libraries:
GBL_DSN_SYS1_PROCLIB              SYS1.SYSG.PROCLIB
GBL_DSN_SYS1_VTAMLST              SYS1.SYSG.VTAMLST

** Persistent Datastore options:
RTE_PDS_HILEV                     TDITNT.ONESAPM.TESTSYSG
RTE_PDS_KPDPROC_PREFIX            KPDPROC
RTE_PDS_FILE_COUNT                3
```

Clearer parameter names

PARMLIB CONFIG User Profile – LPAR-specific (RTE)

The RTE CONFIG User Profile has an optional USER PROLOG SECTION if you wish to log your changes:

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG(TESTSYSG)
****************************** Top of Data **********
.
*  ********************************************************************
*  SECTION: USER PROLOG (OPTIONAL)
*  ********************************************************************
*+---+-----------------------------------------+--------+----+*
*|NO.| CHANGE DESCRIPTION                      |  DATE  | ID |*
*+---+-----------------------------------------+--------+----+*
*|@03| Override KC5_X_AGT_STORAGE_* LIMIT()/RESERVE()|07/31/11| CD |*
*|@02| Set GBL_DSN_TCP_SYSTCPD_TCPDATA to new library|07/31/11| CD |*
*|@01| Override K%%_X_STC_SYSTCPD_INCLUDE_FLAG=Y     |07/31/11| CD |*
*  ********************************************************************
.
** Additional OMEGAMON XE for CICS Agent settings:
KC5_X_AGT_STORAGE_LIMIT_EXTEND    23
KC5_X_AGT_STORAGE_LIMIT_PRIMARY   20
KC5_X_AGT_STORAGE_RESERVE_PRI     4096
KC5_X_AGT_STORAGE_RESERVE_EXT     4096
.
.
KAG_X_STC_SYSTCPD_INCLUDE_FLAG    Y
KAG_X_KDE_TRANSPORT_HTTP_OPTIONS  "HTTPS:0 HTTPS_CONSOLE:Y"
KAG_X_KDE_TRANSPORT_POOL_OPTIONS  "POOL:1000-1023 POOL:3000-4023"
KAG_X_KDE_TRANSPORT_OPTIONS       "EPHEMERAL:Y"
```

In ICAT, these parameters equate to hardcoded settings (not externalized on ICAT panels)

PARMLIB Workflow – Low-level details (cont'd)

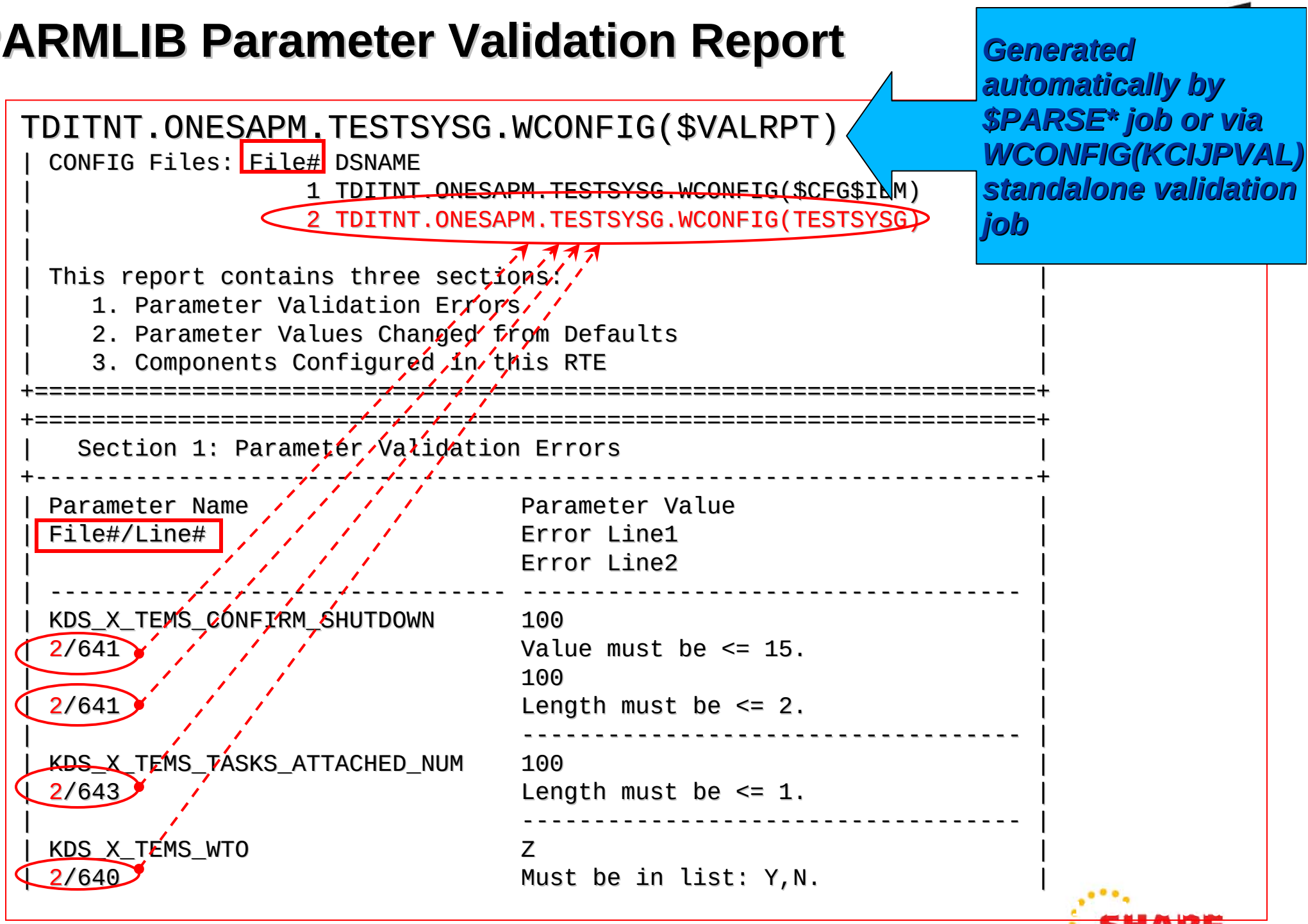
- Step 7. **Finish setting up your PARMLIB configuration profile:**
  - a.) (Optional) **In WCONFIG library, edit the** $SYSIN **SYSIN control member to activate the preferred configuration profile, if not already activated by default.**
  - b.) (Optional) **In WCONFIG library, edit the applicable** K*pp*$C* (for WKANCMDU member overrides), K*pp*$P*/K*pp*@P* (for WKANPARU member overrides), **and** K*pp*$S* (for WKANSAMU member overrides) **parameter override imbeds for the PARMLIB samples.**
  - c.) (Optional) **In WCONFIG, submit the** KCIJPVAL **job to validate the input to the configuration profile before submitting the $PARSE job.**
  - d.) (Optional) **In** PARMLIB user JCL (%GBL_USER_JCL%)**, customize the** *&rte_name* **member which houses user-defined symbolics for an RTE, if** System Variables **mode is enabled for the configured RTE. These are** user-defined **symbolics** ***in addition*** **to the typical** static system symbols **defined in SYS1.IPLPARM and** KCIPARSE system variables **(for TYPE:CE (CHAR extracted) and TYPE:IE (INTEGER extracted) KCIPARSE-extracted symbolics for System Variables use in the SYSPRINT DDNAME's GLOBAL VARIABLE TABLE SUMMARY of a KCIPARSE run).**

PARMLIB $SYSIN SYSIN Control Card

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($SYSIN)
****************************** Top of Data ********************
* Purpose: Customer copy of SYSIN control for overriding CONFIG MEMBER=
*          CONFIG profile members and SELECT MEMBER= member selection list.
* ************************************************************
* USER SECTION: CONFIG/SELECT MEMBER                          *
* ************************************************************

.
* 3: $GBL$IBM IBM-supplied PARMLIB CONFIG profile (SMP-related and
*    other global-specific parameters)
CONFIG MEMBER=(WCONFIG:$GBL$IBM)
* 4. $CFG$IBM IBM-supplied PARMLIB CONFIG profile (RTE-specific)
CONFIG MEMBER=(WCONFIG:$CFG$IBM)
* 5. $GBL$USR Customer-overridable PARMLIB CONFIG profile
*    (SMP-related and other global parameters)
*    Note: (OPTIONAL) Customize WCONFIG:$GBL$USR accordingly.  It is
*    ideal for copying to other WCONFIG RTEs if these global system
*    libraries are typically the same across LPARs.
CONFIG MEMBER=(WCONFIG:$GBL$USR)
* 6. TESTSYSG Customer-overridable PARMLIB CONFIG profile
*    (RTE-specific applicable to this LPAR)
CONFIG MEMBER=(WCONFIG:TESTSYSG)
SELECT MEMBER=(*)
```

CONFIG member based on RTE_NAME

PARMLIB Parameter Validation Report



Generated automatically by $PARSE* job or via WCONFIG(KCIJPVAL) standalone validation job

PARMLIB Workflow – Low-level details (cont'd)

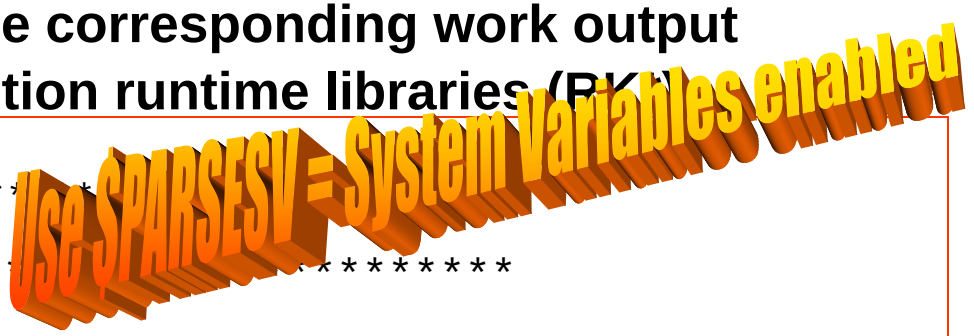
- **Step 8. Submit the $PARSE job in the PARMLIB WCONFIG library to process the PARMLIB samples from the interim (IK*) staging libraries into the corresponding work (WK*) output libraries. The $PARSE job performs the string substitutions and imbeds required by the user overrides in the PARMLIB CONFIG profile member. After completion of the $PARSE job, you have a complete set of customized runtime members in the work output libraries (WKANCMDU, WKANPARU, WKANSAMU, WKD2PAR, WKD2PRF and WKD2SAM). This job is required if the RTE is not enabled for System Variables ("RTE_SYSV_SYSVAR_FLAG=N" parameter setting in the CONFIG profile).**

  Notes:

  - **If RTE is enabled for System Variables, then submit the $PARSESV job instead. $PARSESV does not include the "*PART 5 - KCIJPUP2 IEBUPDTE Steps*" of the $PARSE job. Latter function is split into a standalone KCIJPUPV job as KCIJPUPV job must be submitted in the LPAR for which the system variables referenced in the IEBUPDTE members were configured, for proper resolution at product startup.**
  - **$PARSE job's first step validates the CONFIG profile parameter values. If you wish to run a standalone validation job prior to submitting $PARSE job, please refer to WCONFIG(KCIJPVAL) job.**

PARMLIB $PARSE Batch JCL

The $PARSE KCIPARSE Batch JCL file-tailors the PARMLIB samples from the interim staging libraries (IK*) into the corresponding work output libraries (WK*) equivalent to the production runtime libraries (RK*).




```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($PARSE)
****************************** Top of Data ****
.
//*****************************************************
//* WKANPARU Step: IKANPARU-->WKANPARU
//* Process the PARMLIB members from IKANPARU to WKANPARU based on $CFG*
//* CONFIG and/or converted PARMLIB RTE Batch deck profile settings.
//*****************************************************
//WKANPARU EXEC PGM=KCIPARSE,COND=(4,LT,VALIDATE),
// PARM='MV=32000,MAXL=32000,ML=500,MI=255,MS=20000,LV=Y,LG=10'
//STEPLIB  DD DISP=SHR,
//         DSN=%GBL_TARGET_HILEV%.IKANMOD
//INPUT1   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.IKANPARU
//INPUT2   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WKANPARU
//WCONFIG  DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WCONFIG
//SYSUT2   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WKANPARU
//SYSPRINT DD SYSOUT=*
//SYSVROUT DD SYSOUT=*
//SYSINLST DD SYSOUT=*
//SYSIN    DD DISP=SHR,
//         DSN= =%RTE_HILEV%.%RTE_NAME%.WCONFIG($SYSIN)
//         DD DISP=SHR,
//         DSN= =%RTE_HILEV%.%RTE_NAME%.WCONFIG($SYS$IBM).
```

Input DD – PARMLIB templates in IK* libraries, CONFIG profiles & Override imbeds in WCONFIG

Output DD - tailored runtime members written in WK* lib. based on CONFIG profile values

PARMLIB $PARSE Batch JCL (cont'd)

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($PARSE)
****************************** Top of Data ****************
.
//*************************************************************
//* WKANPARU Step: IKANPARU-->WKANPARU
//* Process the PARMLIB members from IKANPARU to WKANPARU based on
$CFG*
//* CONFIG and/or converted PARMLIB RTE Batch deck profile
settings.
//*************************************************************
//WKANPARU EXEC PGM=KCIPARSE,COND=(4,LT,VALIDATE),
//  PARM='MV=32000,MAXL=32000,ML=500,MI=255,MS=20000,LV=Y,LG=10'
//STEPLIB  DD DISP=SHR,
//         DSN=%GBL_TARGET_HILEV%.TKANMOD
//INPUT1   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.IKANPARU
//INPUT2   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WKANPARU
//WCONFIG  DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WCONFIG
//SYSUT2   DD DISP=SHR,
//         DSN=%RTE_HILEV%.%RTE_NAME%.WKANPARU
//SYSPRINT DD SYSOUT=*
//SYSVROUT DD SYSOUT=*
//SYSINLST DD SYSOUT=*
//SYSIN    DD DISP=SHR,
//         DSN= =%RTE_HILEV%.%RTE_NAME%.WCONFIG($SYSIN)
//         DD DISP=SHR,
//         DSN= =%RTE_HILEV%.%RTE_NAME%.WCONFIG($SYS$IBM)
```

SYSIN DD – list of CONFIG profiles ($GBL*, &rte_name) in priority sequence + list of members to be processed from input libraries

SYSVROUT DD – List of all variables and values in the $PARSE* RTE process (diagnostics)

PARMLIB $PARSE Batch JCL (cont'd)

The $PARSE KCIPARSE Batch JCL file-tailors the PARMLIB samples from the interim staging libraries (IK*) into the corresponding work output libraries (WK*) based on your PARMLIB CONFIG profile settings:

```
EDIT       TDITNT.ONESAPM.TESTSYSG.WCONFIG(TESTSYSG)
Command ===>                                          Scroll ===> CSR
** Values that describe the TEMS to which the agent will
KC5_TEMS_LOCAL_CONNECT_FLAG        Y
KC5_TEMS_NAME_NODEID               "TEST&SYSNAME.:CMS"

** Agent's Primary TEMS TCP/IP information:
** Note: KC5_TEMS_TCP_HOST and KC5_AGT_TCP_HOST must be the same value
**       if KC5_TEMS_LOCAL_CONNECT_FLAG=Y (Agent connects to local TEMS)
KC5_TEMS_TCP_HOST                  "&SYSIPHOSTNAME."

** Agent's local TCP/IP information:
KC5_AGT_TCP_HOST                   "&SYSIPHOSTNAME."
KC5_AGT_TCP_STC                    "*"

** Agent's Primary TEMS VTAM information:
KC5_TEMS_VTAM_LU62_DLOGMOD         CANCTDCS
KC5_TEMS_VTAM_LU62_MODETAB         KDSMTAB1
KC5_TEMS_VTAM_NETID                &SYSVTAMNETID.
```

PARMLIB CONFIG Profile parameter

PARMLIB CONFIG profile value you specified for the KC5_TEMS_TCP_HOST parameter

PARMLIB $PARSE Batch JCL (cont'd)

The $PARSE KCIPARSE Batch JCL file-tailors the PARMLIB samples from the interim staging libraries (IK*) into the corresponding work output libraries (WK*) based on your PARMLIB CONFIG profile settings:

```
SDSF OUTPUT DISPLAY CCAPI$SG JOB27670  DSID  LINE 16,996
COMMAND INPUT ===>                          SCROLL
00034 BEFORE IP.PIPE:%KC5_TEMS_TCP_HOST%;
00034 AFTER  IP.PIPE:&SYSIPHOSTNAME.;\

00035 BEFORE IP.PIPE:%KC5_TEMS_BKUP1_TCP_HOST%;
00035 AFTER  IP.PIPE:&AGT_BKUP1_TEMS_TCP_HOST.;\

00039 BEFORE %KC5_TEMS_VTAM_NETID%.\
00039 AFTER  &SYSVTAMNETID..\

00040 BEFORE %KC5_TEMS_VTAM_APPL_LLB_BROKER%.\
00040 AFTER  K&SYSCLONE.DSLB.\

00041 BEFORE %KC5_TEMS_VTAM_LU62_DLOGMOD%.SNASOCKETS;
00041 AFTER  CANCTDCS.SNASOCKETS;\
.
WRITE MEMBER KC5ENV   RECORDS: 00102
```

PARMLIB CONFIG Profile parameter

PARMLIB CONFIG Profile value

PARMLIB Workflow – Low-level details (cont'd)

- Step 9A. **Submit the composite KCIJcSUB master WKANSAMU PARMLIB auto-SUBMIT job instead of submitting the following jobs individually:**
  - *KCIJcALO* ***composite runtime library allocation job***
  - *KCIJcLOD* ***composite TK*→RK* runtime library load job***
  - *KCIJcSEC* ***composite product security job***
  - *KCIJcUSP* ***composite USS preparation job***
  - *KCIJcLNK* ***composite ASM/LINK job***
  - ***KCIJcUPV* composite System Variables IEBUPDTE job**
  - ***KCIJcSYS* composite system set-up job**
  - ***KCIJcUSS* composite USS create HFS system set-up job**
  - ***KCIJcCPY* backup runtime libraries job**
  - ***KCIJcW2R* WK*->RK* deployment job**
  - *KCIJcIVP* **configuration verification job**

** *Note:* ***Review the NOTES section of KCIJcSUB to see if certain jobs should be auto-submitted or not auto-submitted by KCIJcSUB.***

c = P or V
KCIJPSUB: non-SYSV mode
KCIJVSUB: SYSV mode

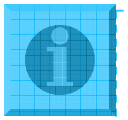
In 4Q10, RTE-SUBMIT_KCIJPSUB_FLAG in KCIJPCFG allows you to auto-submit as part of the previous step's $PARSE* job.

PARMLIB Workflow – Low-level details (cont'd)

- Step 9B1. Submit the composite KCIJcALO allocation job in the WKANSAMU library to allocate the product execution (runtime) libraries.
  - *Note: Required if KCIJcSUB job is not submitted.*
- Step 9B2. Submit the composite KCIJcLOD load job in the WKANSAMU library to copy the SMP/E target elements to the runtime libraries.
  - *Note: **Required if** KCIJcSUB **job is** not **submitted.***
- Step 9B3. (Optional) Submit the composite KCIJcSEC security job in the WKANSAMU library to create security-related members (load modules, encryption key, and other elements) based on the product security requirements.
  - *Notes:*

  - Required if the product-specific IBM-supplied security exit or input needs to be customized.

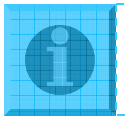
  - Required if KCIJcSUB job is not submitted.



***c* = P or V**

PARMLIB Workflow – Low-level details (cont'd)

- Step 9B4. (Optional) Submit the composite KCIJcUSP USS preparation job in the WKANSAMU library to create the USS-related members in the RKANDATV RTE library for use in the composite KCIJcUSS job. See companion KCIJcUSS job.
  - *Notes:*
  - *Required if configuring products with USS req. (WebSphere Message Broker, ITCAM for SOA, and ITCAM for Application Diagnostics).*
  - *Required if KCIJcSUB job is not submitted.*
- Step 9B5. (Optional) Submit the composite KCIJcLNK assembly/link job in the WKANSAMU library to assemble/link elements into the SYSLMOD RKANMODU user load library.
  - *Notes:*
  - *Required if configuring certain products only (OMEGAMON XE for Mainframe Networks)*
  - *Required if the common KOBVTPL OBVTM1 exit for OMNIMON Base needs to be customized.*
  - *Required if KCIJcSUB job is not submitted.*



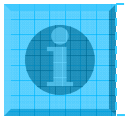
c = P or V

PARMLIB Workflow – Low-level details (cont'd)

- Step 9B6. (Optional) Submit the composite KCIJ*c*UPV System Variables IEBUPDTE job. This job populates variable-named members contained in the application-specific K*pp*JPUPB composite IEBUPDTE members in the WK* work output libraries.
  - *Notes:*
  - ***Required if RTE is enabled for System Variables support. ("RTE_SYSV_SYSVAR_FLAG=Y" parameter setting in the CONFIG profile).***
  - ***KCIJPSUV (job submitted by KCIJVSUB auto-SUBMIT job) SUBMITs the KCIJcUPV job by default. Edit the KCIJPSUV job accordingly.***
  - ***Required for submission in the target LPAR where the symbolics are resolved.***
- Step 9B7. Submit the composite KCIJ*c*SYS system-related set-up job in the WKANSAMU library to copy the product started tasks, VTAM major node members, and health check elements for the products and components into system libraries, and to assemble and link product module(s) into system libraries.
  - *Notes:*
  - ***Requires write access to system libraries.***
  - ***KCIJPSUB/KCIJPSUV auto-SUBMIT jobs comment out the SUBMIT command for KCIJcSYS by default. Edit the KCIJPSUB/KCIJPSUV jobs accordingly.***

PARMLIB Workflow – Low-level details (cont'd)

- **Step 9B8. (Optional) Submit KCIJcUSS job to create the HFS directories and sub-directories and to copy files to HFS.**
  - ***Notes:***
  - ***- Required if configuring products with USS config. requirements (WebSphere Message Broker, ITCAM for SOA, and ITCAM for Application Diagnostics).***
  - ***- KCIJPSUB/KCIJPSUV auto-SUBMIT jobs comment out the SUBMIT command for KCIJcUSS by default. Edit the KCIJPSUB/KCIJPSUV jobs accordingly.***
- **Step 9B9. Submit the KCIJcIVP configuration verification job in the WKANSAMU library to verify that that all the required runtime datasets members, and configuration jobs for this RTE were created, and that the jobs were executed successfully. Review the resulting output in WCONFIG($IVPRPT) report and WSUPERC output.**
  - ***Note: Required if KCIJcSUB job is not submitted.***



***c* = P or V**

PARMLIB IVP

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Generated by KCIJPIVP job

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($IVPRPT)
.
* THE REPORT CONTAINS THE FOLLOWING SECTIONS:
*     1. REQUIRED CONFIGURATION BATCH JOBS
*     2. REQUIRED SEQUENTIAL DATASETS
*     3. REQUIRED PARTITIONED DATASETS AND MEMBERS.
*     4. REQUIRED VSAM DATASETS
*************************************************************************
*    SECTION 1: REQUIRED CONFIGURATION BATCH JOBS
*************************************************************************
JOB      STATUS  JOBNAME  JOB#   DATE   TIME     HI-CC
-------- ------- -------- ------ ------ -------- -----
KCIJPCFG OK      CCAPICFG J04711 10.147 11:58:58 00000
KCIJPUP1 OK      CCAPI$SA J08747 10.148 15:26:58 00000
KCIJPCNV OK      CCAPI$SA J04746 10.147 12:08:01 00000
KCIJPMCF OPTION
KCIJPVAL OK      CCAPI$SA J12895 10.147 12:10:39 00000
$PARSE   OK      CCAPI$SA J19382 10.148 15:47:07 00000
KCIJPALO WARNING CCAPI$JP J06230 10.061 09:29:21 00002
KCIJPLOD ERROR   CCAPI$SA J19402 10.148 16:43:27 SE37
KCIJPSYS WARNING CCAPI$SY J06331 10.061 09:38:36 00004
KCIJPUSP OK      CCAPI$SA J19410 10.148 16:47:36 00000
KCIJPUSS OK      CCAPI$SA J19412 10.148 16:47:44 00000
KCIJPSEC OK      CCAPI$SC J06376 10.061 09:42:59 00000
KCIJPLNK ERROR   CCAPILNK J02126 10.139 08:50:03 00012
KCIJPCPY OK      CCAPI$JP J15302 10.063 12:00:05 00000
KCIJPW2R OK      CCAPIW2R J02160 10.139 09:25:07 00000
```

Review any STATUS=ERROR in the IVP report

PARMLIB IVP (cont'd)

```
TDITNT.ONESAPM.TESTSYSG.WCONFIG($IVPRPT)

*************************************************************************
*    SECTION 2: REQUIRED SEQUENTIAL DATASETS
*************************************************************************
DSNAME                                              STATUS   JOBNAME
--------------------------------------------------  -------
.
.
TDITNT.ONESAPM.TESTSYSG.RKM5LPR3
TDITNT.ONESAPM.TESTSYSG.RKM5LPR2
TDITNT.ONESAPM.TESTSYSG.RKM5LPR1
TDITNT.ONESAPM.LPARPLEX.RKM5PLX3                    OK       KCIJPALO
TDITNT.ONESAPM.LPARPLEX.RKM5PLX2                    OK       KCIJPALO
TDITNT.ONESAPM.LPARPLEX.RKM5PLX1                    OK       KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RNASGRP3                    MISSING  KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RNASGRP2                    MISSING  KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RNASGRP1                    MISSING  KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RKNAHIS3                    MISSING  KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RKNAHIS2                    MISSING  KCIJPALO
TDITNT.ONESAPM.TESTSYSG.RKNAHIS1                    MISSING  KCIJPALO
```

Check the offending job (KCIJPALO in this example) as to why the datasets are missing.

PARMLIB Workflow – Low-level details (cont'd)

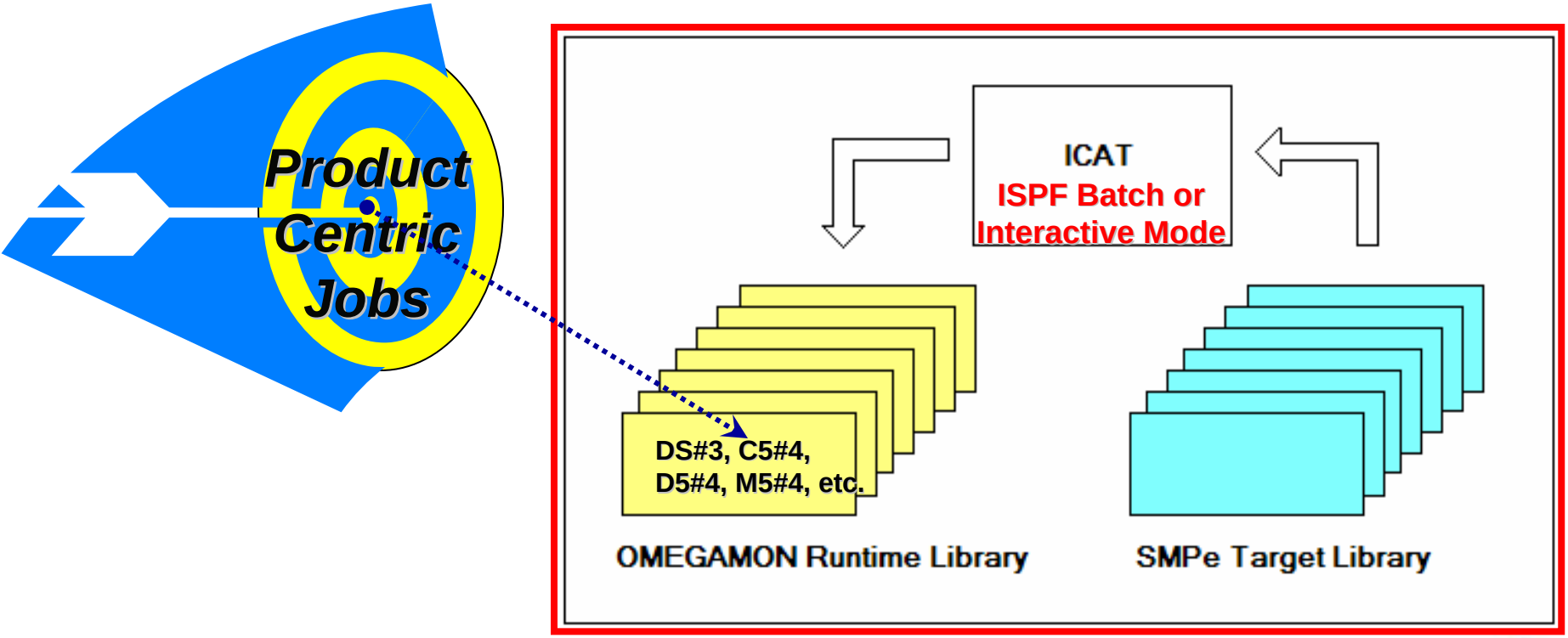
- Step 10. **Deploy the runtime members created in the WK* libraries into the production RK* runtime libraries. An** optional KCIJcCPY **backup job in the WKANSAMU library is provided to help backup the production execution (RK*) runtime user libraries and WK* work output libraries. Copy the WK* work output libraries to the respective production RK* runtime user libraries using your site-approved change process to update the RK* production libraries. An** optional KCIJcW2R **copy job may be used.**
- Step 11**. Perform the applicable "***Complete the configuration***" steps as outlined in the product configuration guides then start the product started tasks. In addition, the following WKANSAMU jobs have been provided for certain requirements:**
  - ***Submit the composite xxxxSTRT STC startup member that has the /START &stc_name commands for all configured products as well as the composite APF authorization list of libraries (xxxxAPF) (where xxxx = RTE_STC_PREFIX; "CANS" by default)***
  - ***If you have configured the OMEGAMON XE on z/OS product, review the WKANPARU(KM5PARM) parameter insert to SYS1.PARMLIB(CSFPRMxx) member if you intend to collect Integrated Cryptographic Service Facility (ICSF) data.***

c = P or V

Sample PARMLIB User Stories

Configuration of OMEGAMON via "ICAT" (Product-centric)

1. ICAT solicits the end-user for configuration information.
2. Customer-supplied values are verified for correctness.
3. ICAT reads in SMP/e-controlled PDS members.
4. ICAT substitutes the values supplied by the user while applying local knowledge, such as knitting together various application dependencies (i.e., runtime parameters for Hub TEMS).
5. ICAT generates customized runtime PDS members.



Sample PARMLIB User Stories

- 1. Create a new RTE of any type (base, full, sharing-with-base, sharing with-SMP, sharing-with-full).
- 2. Clone a second RTE.
- 3. Add a product into an existing RTE.
- 4. Delete a product into an existing RTE.
- 5. Upgrade a product in an existing RTE.
- 6. Apply maintenance to an existing RTE but no new configuration changes.
- 7. Apply maintenance to an existing RTE but with new configuration changes (use configuration defaults).
- 8. Apply maintenance to an existing RTE but with new configuration changes (customer wants to override).
- 9. Use COPY jobs that will clone $JOBCARD, Kpp$* into cloned RTE's WCONFIG.

Sample PARMLIB User Stories (cont'd)

- ✓ Story#1: As a brand new OMEGAMON/ITM customer, I want to create a brand new RTE. This RTE needs to:
  - ✓ Configure a High-Availability Hub TEMS (Shell Hub) that can be started on any LPARs.
  - ✓ Support all z/OS-based products, including products with special Hub-type requirements beyond the normal K*pp*CAT catalog and K*pp*ATR attribute requirements.

Sample PARMLIB User Stories (cont'd)

- ✓ Showcase TKANSAM(KCIJPCFG)-> USER_JCL(KCIJPCFG) set-up job customization with no auto-submit.
- ✓ Showcase WCONFIG($JOBCARD/JOBCARD).
- ✓ Showcase WCONFIG(KCIJPUP1) IEBUPDTE job.
- ✓ Showcase WCONFIG($HAHUB) PARMLIB profile customization.
- ✓ Showcase WCONFIG($PARSE) job output.
- ✓ Showcase WKANSAMU(KCIJPSUB) auto-submit job with uncommented KCIJPSYS job.
- ✓ Showcase WKANSAMU(KCIJPALO) RTE Build job.
- ✓ Showcase WKANSAMU(KCIJPLOD) RTE Load job.
- ✓ Showcase WKANSAMU(KCIJPSYS) SYS1 processing job.
- ✓ Showcase WCONFIG($IVPRPT) error.
- ✓ Showcase WCONFIG($HAHUB) GBL_DSN_HZSPROC_LOADLIB correction and $PARSESM job.

Sample PARMLIB User Stories (cont'd)

- **Story#2: As an existing OMEGAMON/ITM customer, I want to convert my ICAT-created Remote TEMS RTE to PARMLIB, without re-customizing all my previous ICAT settings. This ICAT RTE has configured all 37 components running on SYSG LPAR. PARMLIB Requirements: This converted PARMLIB RTE:**
  - **Needs to preserve my ICAT manual overrides for RKANPARU(KC2 CUA storage settings for LIMIT n ICAT, I have manually update le ICAT.**
  - **Needs to preserv overrides for RKANPARU(KOC S Classic LROWS= and USER= (updated CAT control).**
  - **Needs to preserve m anual overrides for RKANPARU(KOSDE E on z/OS DASD Data Collection settings (u utside ICAT control).**
  - **Exploit many types o variables.**

Sample PARMLIB User Stories (cont'd)

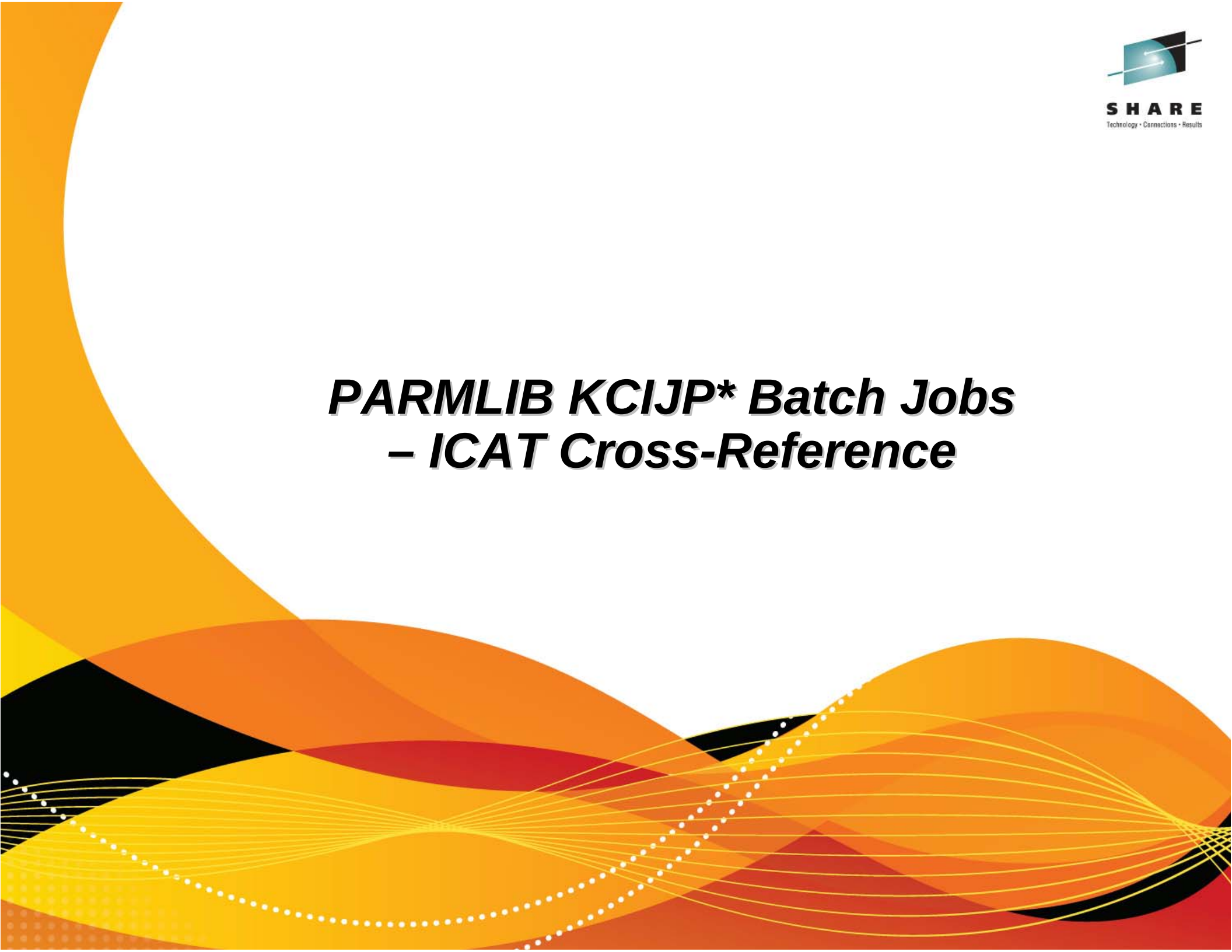
- Q: How do I add delete a PARMLIB-created RTE?
- A: See WKANSAMU(KCIJPDEL) job.
- Q: How do I apply maintenance to an existing RTE but no new configuration changes.
- A: See WKANSAMU(KCIJPLOD) job.
- Q: How do I apply maintenance to an existing RTE but with new configuration changes (use IBM-supplied configuration defaults).
- A: See WKANSAMU(KCIJPMNT) job.
- Q: How do I apply maintenance to an existing RTE but with new configuration changes (I want to override the IBM-supplied configuration defaults).
- A: See WCONFIG(KCIJPUP1) job and WCONFIG(KCIJPMCF) job.
- Q: How do I clone my WCONFIG RTE overrides and $JOBCARD to a 2nd RTE?
- A: See WCONFIG(KCIJPCCF) job.

Sample PARMLIB User Stories (cont'd)

- Q: How do I add my override KDS_NCSLISTEN=512 parameter in KDSENV?
- A: See WCONFIG(KDS$PENV) to add KDS_NCSLISTEN=512
- Q: How do I turn off Autonomous Agent mode for all Agents?
- A: See WCONFIG(KAG$PENV) to add IRA_AUTONOMOUS_MODE=N parameter
- Q: How do I turn off Autonomous Agent mode for CICS Agent only?
- A. See WCONFIG(KC5$PENV) to add IRA_AUTONOMOUS_MODE=N parameter
- Q: How do I override KC2SYS* CICS CUA storage settings to MINIMUM(131072,X)?
- A. See WCONFIG(&rte_name) PARMLIB CONFIG profile's new KC2_X_CICS_STORAGE_MIN_EXTEND parameter
- Q: How do I override KOCVTM* CICS Classic to LROWS=999?
- A. See WCONFIG(&rte_name) PARMLIB CONFIG profile's new KC2_X_CLASSIC_LROWS parameter
- Q: How do I override KOSDEVIN DASD Data Collection settings for OMXE on z/OS Agent?
- A. See WCONFIG(&rte_name) PARMLIB CONFIG profile's new KM5_X_KOSDEVIN_* parameters

Sample PARMLIB User Stories (cont'd)

- Q: How do I override KC5SYSIN's OMXE for CICS Agent storage settings to higher LIMIT() and RESERVE() and preserve those changes?
- A. See WCONFIG(&rte_name) PARMLIB CONFIG profile's new KC5_X_AGT_STORAGE_* parameters
- Q: How do I preserve my SYSTCPD DD overrides in the TEMS and Agent started tasks?
- A: See WCONFIG(&rte_name) PARMLIB CONFIG profile's new Kpp_X_STC_SYSTCPD_INCLUDE_FLAG parameters
- Q: How do I enable "Forward Take Action to NetView" for all the TEMS and Agent started tasks including CNMLINK RKANMODL DD support?
- A: See WCONFIG(&rte_name) PARMLIB CONFIG profile's global GBL_DSN_NETVIEW_CNMLINK and *_PPI_RECEIVER parameters.
- Q: How do I override the Agent failover ITM default of switching back to the original primary TEMS?
- A: See WCONFIG(KAG$PENV) to add CTIRA_PRIMARY_FALLBACK_INTERVAL=0
- Q: If you refresh CFGIBM IBM Default CONFIG profile via maintenance, how do I sync-up my copy?
- A: See WCONFIG(KCIJPMCF) merge CONFIG profile job



PARMLIB KCIJP Batch Jobs – ICAT Cross-Reference*

KCIJPCFG job – ICAT Cross-reference

```
TDITNT.PARMLIB.JCL(KCIJPCFG)
.
* ************************************************************
* USER SECTION: CONFIGURE_PRODUCTS                           *
* -------------- BEGIN - USER SECTION: CONFIG ---------- *
* ************************************************************
* CONFIGURE FLAGS: Set to "Y" or "N".
* ************************************
* Tivoli Enterprise Monitoring Server: KDS
  SET CONFIGURE_TEMS_KDS       = "Y"
* IBM Tivoli OMEGAMON XE for CICS on z/OS:
  SET CONFIGURE_CICS_KC5       = "Y"
* IBM Tivoli OMEGAMON XE for CICS TG on z/O
  SET CONFIGURE_CICS_TG_KGW    = "Y"
* IBM Tivoli OMEGAMON XE for DB2 PE/PM: KD2
  SET CONFIGURE_DB2_AGENT_KD5 = "Y"
* IBM Tivoli OMEGAMON XE for IMS on z/OS: K
  SET CONFIGURE_IMS_KI5        = "Y"
* IBM Tivoli OMEGAMON XE on z/OS: KM5 flag
  SET CONFIGURE_ZOS_KM5        = "Y"
* IBM Tivoli OMEGAMON XE for Messaging - We
  SET CONFIGURE_MESSAGING_KMC = "Y"
* IBM Tivoli OMEGAMON XE for Messaging - We
  SET CONFIGURE_MESSAGING_KMQ = "Y"
.
```

Think of KCIJPCFG's "CONFIGURE PRODUCTS" section as the alternative to ICAT's product-centric approach. In ICAT, you select one product at a time on the "Product Selection Menu" then configure that product, then select another product, etc.

In PARMLIB, select all products upfront then configure.

KCIJPCFG job – ICAT Cross-reference (cont'd)

TDITNT.PARMLIB.JCL(KCIJPCFG)- continued

```
* ************************************************************
* USER SECTION: CONFIGURE_PRODUCTS
* ------------------- BEGIN - USER SECTION: CONFIG ----------
.
* IBM Tivoli Decision Support for z/OS: KDO flag
  SET CONFIGURE_TDS_KDO        = "Y"
* IBM Tivoli Composite Application Manager for SOA: KD4 flag
  SET CONFIGURE_SOA_KD4        = "Y"
* IBM Tivoli Advanced Audit for DFSMShsm: KRG flag
  SET CONFIGURE_AAD_KRG        = "Y"
* IBM Tivoli Advanced Reporting for DFSMShsm: KRH flag
  SET CONFIGURE_ARD_KRH        = "Y"
* IBM Tivoli Advanced Allocation Management for z/OS: KRJ flag
  SET CONFIGURE_AAM_KRJ        = "Y"
* IBM Tivoli Automated Tape Allocation Manager for z/OS: KRK
  SET CONFIGURE_ATAM_KRK       = "Y"
* IBM Tivoli Advanced Catalog Management for z/OS: KRN flag
  SET CONFIGURE_ACM_KRN        = "Y"
* IBM Tivoli Advanced Backup and Recovery for z/OS: KRV flag
  SET CONFIGURE_ABR_KRV        = "Y"
* IBM Tivoli Tape Optimizer for z/OS: KRW flag
  SET CONFIGURE_TOZ_KRW        = "Y"
* ITCAM for Application Diagnostics on z/OS: KYN flag
  SET CONFIGURE_ITCAMAD_KYN    = "Y"
```

25 product configuration flags total (1 for each suite)

KCIJPPR*/$PARSE* job – ICAT Cross-reference

TDITNT.ONESAPM.TESTSYSG.WCONFIG($PARSE)

CCAPI.PARMLIB.INSTJOBS(CB#RSYSG) ← ***Sample ICAT Batch CICATB job report***

```
*********************************************************************
*     SECTION 3: JOBS SORTED BY GENERATION SEQUENCE                 *
*********************************************************************
GEN   MEMBER   JOB                                  JOB
SEQ   NAME     DESCRIPTION                          NOTES
---   -------- ---------------------------------- ------------------------
3     DS#3TESTSYSG CREATE RUNTIME MBRS
10    C2#3TESTSYSG CREATE RUNTIME MBRS
16    C5#3TESTSYSG CREATE RUNTIME MBRS, AGT ADRSP
19    DF#3TESTSYSG CREATE RUNTIME MBRS
.
69    MV#3TESTSYSG CREATE RUNTIME MBRS
71    M2#3TESTSYSG CREATE RUNTIME MBRS
.
7     AH#4TESTSYSG REGISTER PRODUCT TO THE TEMS
.
35    D5#4TESTSYSG REGISTER PRODUCT TO THE TEMS
42    GW#4TESTSYSG REGISTER PRODUCT TO THE TEMS
46    HL#4TESTSYSG REGISTER PRODUCT TO THE TEMS
54    I5#4TESTSYSG REGISTER PRODUCT TO THE TEMS
75    M5#ITESTSYSG CREATE RUNTIME MBRS, AGT TEMS
126   S3#ITESTSYSG CREATE RUNTIME MBRS, AGT TEMS
26    D2#XTESTSYSG CREATE PROFILE MEMBERS
27    D2#6TESTSYSG INSTALL DB2 SSID RELATED MBRS
4     PD#PTESTSYSG CREATE PDS MBRS
.
67    MQ#PTESTSYSG CREATE PDS MBRS
127   S3#PTESTSYSG CREATE PDS MBRS
```

Think of $PARSE as 1 job that performs the equivalent of running ICAT's pp#3 jobs, pp#4 jobs, pp#I jobs, pp#X jobs, pp#P jobs, pp#G jobs, etc.

KCIJPALO job – ICAT Cross-reference

```
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPALO)
=============================================================
%IMBED% DDNAME:MEMBER       *ICAT CROSS-REFERENCE/COMMENTS
=============================================================
%IMBED%=INPUT1:???JPAL1          *pp#1 RTE Build job
%$IMBED_KDS_KDSJPAL3_INPUT1%     *DS#1 RTE Build job
%$IMBED_KCI_KCIJPAL2_INPUT1%     *pp#1 RTE Build job
%$IMBED_KCI_KCIJPAL3_INPUT1%     *pp#1 RTE Build job
%$IMBED_KC5_KC5JPAL2_INPUT1%     *C5#1 RTE Build job
%$IMBED_KD5_KD5JPAL2_INPUT1%     *D5#1 RTE Build job
%$IMBED_KI5_KI5JPAL2_INPUT1%     *I5#1 RTE Build job
%$IMBED_KM5_KM5JPAL2_INPUT1%     *M5#1 RTE Build job
%$IMBED_KOB_KOBJPAL2_INPUT1%     *pp#1 RTE Build job
%IMBED%=INPUT1:???JPAL4          *pp#4 TEMS registra
                                  for RKCP*/RKCF* VS
%IMBED%=INPUT1:???JPAL5          *pp#5 Allocate add'
                                  Epilog VSAM
%IMBED%=INPUT1:???JPALX          *D2#X ALLOCDS
%IMBED%=INPUT2:KC2JPA*           *C2#5 Allocate add'
                                  KC2##JPA template
%IMBED%=INPUT2:KC2JPH*           *C2#H RKC2HIST hist
                                  using KC2##JPH
%IMBED%=INPUT2:KI2JPA*           *I2#5 Allocate add'l using
                                  KI2##JPA template
%IMBED%=INPUT1:???JPALQ          *pp#Q Persistent Datastore
                                  KppAL* jobs
```

Think of KCIJPALO as 1 job that performs the equivalent of running ICAT's pp#1 jobs, pp#5 job, pp#4 job's REPRO steps, pp#H jobs, pp#Q jobs, etc.

KCIJPLOD job – ICAT Cross-reference

```
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPLOD)
=============================================================
%IMBED% DDNAME:MEMBER      *ICAT CROSS-REFERENCE/COMMENTS
=============================================================
%IMBED%=INPUT1:???JPLDA          *pp#2 RTE Load job
%$IMBED_KDS_KDSJPLDB_INPUT1%     *DS#2 RTE Load job
%$IMBED_KCI_KCIJPLD2_INPUT1%     *pp#2 RTE Load job
%$IMBED_KCI_KCIJPLD3_INPUT1%     *pp#2 RTE Load job
%$IMBED_KC5_KC5JPLD2_INPUT1%     *C5#2 RTE Load job
%$IMBED_KGW_KGWJPLD2_INPUT1%     *GW#2 RTE Load job
%$IMBED_KD5_KD5JPLD2_INPUT1%     *D5#2 RTE Load job
%$IMBED_KI5_KI5JPLD2_INPUT1%     *I5#2 RTE Load job
%$IMBED_KM5_KM5JPLD2_INPUT1%     *M5#2 RTE Load job
%$IMBED_KOB_KOBJPLD2_INPUT1%     *pp#2 RTE Load job
%$IMBED_KET_KETJPLD2_INPUT1%     *pp#2 RTE Load job
%$IMBED_KN3_KN3JPLD2_INPUT1%     *pp#2 RTE Load job
%$IMBED_KS3_KS3JPLD2_INPUT1%     *S3#2 RTE Load job
%$IMBED_KWO_KWOJPLD2_INPUT1%     *WO#2 RTE Load job
%$IMBED_KMQ_KMQJPLD2_INPUT1%     *QI#2 RTE Load job
.
.
%IMBED%=INPUT1:???JPLDX          *Special exceptions steps
```

Think of KCIJPLOD as 1 job that performs the equivalent of running ICAT's pp#2 jobs, etc.

KCIJPSEC job – ICAT Cross-reference

```
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPSEC)
==========================================================
%IMBED% DDNAME:MEMBER          *ICAT CROSS-REFERENCE/COMMENTS
==========================================================
%IMBED%=INPUT1:???JPSCO        *pp#O xKANSAMU(KppSUPD) -
                                Classic command table
%$IMBED_KDS_KDSJPSC3_INPUT1%  *xKANSAMU(KDSDKAES)-
                                xKANPARU(KAES256) key
%$IMBED_KDS_KLVJPSC3_INPUT1%  *xKANSAMU(KLV@ASM) – KLVxxNEV
%$IMBED_KC5_KOCJPSC3_INPUT1%  *xKANSAMU(KOCJxxxx) - KOCAxxxx
%$IMBED_KD5_KO2JPSC3_INPUT1%  *xKANSAMU(KO2xxxxA) - KO2xxxxX
%$IMBED_KI5_KOIJPSC3_INPUT1%  *xKANSAMU(KOIxxxxA) - KOIUxxHK
%$IMBED_KM5_KOMJPSC3_INPUT1%  *xKANSAMU(KOMxxxxA) - KOMxxxxX
```

Think of KCIJPSEC as 1 job that performs the equivalent of running ICAT's DS#3 job's KAES256 step, pp#3 job's KLV@ASM step, pp#O jobs, etc.

KCIJPSYS job – ICAT Cross-reference


```
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPSYS)
=============================================================
%IMBED% DDNAME:MEMBER       *ICAT CROSS-REFERENCE/COMMENTS
=============================================================
%IMBED%=INPUT1:KCIJPSYN     *CB#N Copy nodes to VTAMLST;
                             xKANSAMU(KCISYNJB)
%IMBED%=INPUT1:KCIJPSYP     *CB#P Copy STCs to PROCLIB;
                             xKANSAMU(KCISYPJB)
%IMBED%=INPUT1:KCIJPSYH     *CB#K APF/STC Health Checks;
                             xKANSAMU(KCIHCKJB)
%IMBED%=INPUT1:KDSJPSYL     *DS#L KDSMTAB1 to VTAMLIB;
                             xKANSAMU(KDSLNKJB)
```

Think of KCIJPSYS as 1 job that performs the equivalent of running ICAT's CB#N job, CB#P job, CB#K job, DS#L job, then running the sample jobs generated by these jobs, etc.

KCIJPLNK job – ICAT Cross-reference

```
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPLNK)
=============================================================
%IMBED% DDNAME:MEMBER       *ICAT CROSS-REFERENCE/COMMENTS
=============================================================
%IMBED%=INPUT1:KOBJPLK3     *xKANSAMU(KOBVTPLX) job for
                             KOBVTPL module
%IMBED%=INPUT1:KONJPLK3     *xKANSAMU(KONLINK) job for
                             KONACTCS module
%IMBED%=INPUT1:KN3JPLK3     *xKANSAMU(KN3LINK) job for
                             KN3ACTCS/KN3ANMON
```

Think of KCIJPLNK as 1 job that performs the equivalent of running ICAT's pp#3 jobs that generate sample ASM/LINK jobs, etc.

KCIJPUS% job – ICAT Cross-reference

TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPUSP)

```
==========================================================
%IMBED% DDNAME:MEMBER       *ICAT CROSS-REFERENCE/COMMENTS
==========================================================
%IMBED%=INPUT2:???JPUS6     *pp#6 job to create RKANDATV
                             members for USS
```

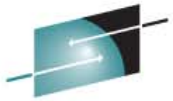
TDITNT.ONESAPM.TESTSYSG.IKANSAMU(KCIJPUSS)

```
==========================================================
%IMBED% DDNAME:MEMBER       *ICAT CROSS-REFERENCE/COMMENTS
==========================================================
%IMBED%=INPUT2:???JPUSU     *pp#U SBPXEXEC job for USS
```

Think of KCIJPUSP/KCIJPUSS as 1 job that performs the equivalent of running ICAT's pp#6/pp#U jobs for products that have USS requirements

PARMLIB KCIJP* Batch Jobs – Detailed Description

PARMLIB KCIJP* Batch Jobs



```
================================================================================
 * * *  P A R M L I B   B a t c h  J o b s  I n d e x  * * *
================================================================================
========  ========================================== ========
Member                                                Required
Name                          Function                 Y/N?
========  ========================================== ========
KCIJPCFG   Set up the PARMLIB work libraries and configuration   Y
          elements for the RTE.  Its function is to:
          - allocate the &rhilev.&rte.WCONFIG PARMLIB work
            control library (for the PARMLIB control members).
          - allocate the PARMLIB interim staging libraries
            (IKAN*, IKD2*) and work output libraries (WKAN*,
            WKD2*) representing the equivalent of RKANCMDU,
            RKANPARU, RKANSAMU, RKD2PAR, RKD2PRF and RKD2SAM
            production runtime user libraries.
          - copy/rename applicable PARMLIB control members
            from the SMP/E targets to PARMLIB WCONFIG.
          - prepare the following members and jobs for
            subsequent PARMLIB processing:
            $JOBINDX: PARMLIB Job Index README
            $HELPPLB: PARMLIB Parameter Help README
            $JOBCARD: Sample jobcard for user customization
            JOBCARD:  Sample jobcard macro for user customization
            $VERSION: Sample version file for reference
          .
          .
```

Updated

New in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

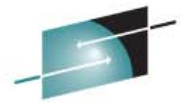
```
================================================================
 * * *  P A R M L I B   B a t c h   J o b s   I n d e x  * * *
================================================================
========  ============================================  ========
Member                                                Required
Name                     Function                       Y/N?
========  ============================================  ========
KCIJPCFG  .                                                Y
          - prepare the following members and jobs for
            subsequent PARMLIB processing:
            KCIJPCFG: RTE-specific KCIJPCFG set-up job (copied
                      from CCAPI.PARMLIB.BETA.JCL)
            KCIJPLOG: Job logger imbed for PARMLIB internal use
            KCIJPUP1: IEBUPDTE job for user customization
                      (See $JOBINDX for more information).
            KCIJPUP2: PRPKCIJP step refresh job
                      (See $JOBINDX for more information).
            KCIJPCCF: Clone job to copy customized user
                      override members from an existing
                      WCONFIG library to a new one (for
                      cloning another RTE).
            KCIRPLBS: PARMLIB Parameter on-line help macro
          .
--------  --------------------------------------------  --------
```

Updated

New in 4Q10

New in 1Q11

PARMLIB KCIJP* Batch Jobs (cont'd)




```
=============================================================
 * * *  P A R M L I B    B a t c h   J o b s   I n d e x  * * *
=============================================================
========  ========================================  ========
Member                                               Required
Name                          Function                Y/N?
========  ========================================  ========
KCIJPCFG  .                                            Y
          - set-up KCIJPCCF WCONFIG cloner job.  If you are
            rerunning KCIJPCFG set-up job for additional RTEs
            to set-up, and you want to clone any customized
            WCONFIG members from the first fully-deployed
            RTE, then use the WCONFIG(KCIJPCCF) WCONFIG
            cloner job after you run the KCIJPCFG set-up job
            for the next RTE.
          - set-up KCIJPUP1 IEBUPDTE job and other PARMLIB
            elements dynamically created based on products
            or components selected for configuration on the
            "CONFIGURE_PRODUCTS" product selection list
            section of the job.
        User Copy: Copy from TKANSAM to a user JCL library.
                   A copy is created in WCONFIG.
--------  ---------------------------------------- --------
```

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPCCF	Clone the WCONFIG customized members. If you are rerunning KCIJPCFG set-up job for additional RTEs to set-up, and you want to clone any customized WCONFIG members from the first fully-deployed RTE, then use the WCONFIG(KCIJPCCF) WCONFIG cloner job after you run the KCIJPCFG set-up job for the next RTE. User Copy: WCONFIG(KCIJPCCF)	N

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPUP1	1. Populate the IK* interim staging libraries with the product-specific PARMLIB samples and elements packaged in the composite KppCMDLB/KppPRMLB master IEBUPDTE members from the SMP/E target libraries. 2. Prepare applicable KCIJP* PARMLIB sample jobs for KCIPARSE processing. Examples of KCIJP* jobs prepared by KCIJPUP1 job are KCIJPCNV, KCIJPMCF, KCIJPVAL, KCIJPPRS ($PARSE) and KCIJPPRV ($PARSESV). User Copy: WCONFIG(KCIJPUP1)	Y
KCIJPUP2	Standalone job to refresh the members created by the PRPKCIJP step of the KCIJPUP1 job. User Copy: WCONFIG(KCIJPUP2)	N

Updated in 4Q10

New in 4Q10

In 4Q10, customize new RTE_SUBMIT_KCIJPSUB_FLAG in KCIJPCFG job to build a $PARSE that automatically submits KCIJPSUB job.*

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPCNV	Convert an ICAT RTE Batch Parameter Member created via the Configuration Tool Batch Mode Process into PARMLIB configuration profile member to serve as input to the $PARSE (if RTE is not enabled for System Variables) or $PARSESV (if RTE is enable for System Variables) file-tailoring job. User Copy: WCONFIG(KCIJPCNV)	N
KCIJPMCF	Merge an old version of a customer override CONFIG profile member (CFGUSR, converted RTE Batch mode member, or a new member named after the RTE name, and cloned from CFGUSR) into a refreshed copy. User Copy: WCONFIG(KCIJPMCF)	N
KCIJPVAL	Validate parameter value settings in customer override CONFIG profile members. This is a standalone job version. Same function is already performed in the $PARSE or $PARSESV VALIDATE step. User Copy: WCONFIG(KCIJPVAL)	N

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPPRS/ $PARSE	Process the PARMLIB samples from the interim (IK*) staging libraries into the corresponding work (WK*) output libraries. The $PARSE job performs the string substitutions and imbeds required by the user overrides in the PARMLIB configuration profile member. After completion of the $PARSE job, you have a complete set of customized runtime members in the work output libraries (WKANCMDU, WKANPARU, WKANSAMU, WKD2PAR, WKD2PRF and WKD2SAM). Note: Required if RTE is not enabled for System Variables ("RTE_SYSV_SYSVAR_FLAG" parameter in the CONFIG profile is set to "N"). If RTE_SYSV_SYSVAR_FLAG parameter is set to "Y", then use the WCONFIG($PARSESV) job instead. User Copy: WCONFIG($PARSE)	Y

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPPRV/ $PARSESV	Similar to KCIJPPRS/$PARSE job. If the RTE is enabled for System Variables, submit this job instead of $PARSE. $PARSESV does not include the "PART 6 - KCIJPUP2 IEBUPDTE Steps" of the $PARSE job. Latter function is split into a standalone KCIJPUPV job as KCIJPUPV job must be submitted in the LPAR for which the system variables referenced in the IEBUPDTE members were configured, for proper resolution at product startup. User Copy: WCONFIG($PARSESV)	Y

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPPR*y*/ $PARSE*xx*	Similar to the $PARSE/$PARSESV jobs but these library-specific $PARSE jobs only perform the equivalent of "PART 3 - WK* Steps" without the "PART 1 - VALIDATE Step" & "PART 2 - CPYEMPTY Steps" of the typical $PARSE/$PARSESV jobs. - KCIJPPRC/$PARSECM is a subset of the $PARSE job to process the PARMLIB samples from IKANCMDU into WKANCMDU work output library. - KCIJPPRM/$PARSESM is a subset of the $PARSE job to process the PARMLIB samples from IKANSAMU into WKANSAMU work output library. - KCIJPPRP/$PARSEPR is a subset of the $PARSE job to process the PARMLIB samples from IKANPARU into WKANPARU work output library.	N

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJPPR*y*/ $PARSE*xx*	Similar to the $PARSE/$PARSESV jobs but these library-specific $PARSE jobs only perform the equivalent of "PART 3 - WK* Steps" without the "PART 1 - VALIDATE Step" & "PART 2 - CPYEMPTY Steps" of the typical $PARSE/$PARSESV jobs. . . - KCIJPPRY/$PARSEDV is a standalone job that can be run to get a list of resolved values for KCIPARSE-extracted symbolics. The job provides for TYPE:CE (CHAR extracted) and TYPE:IE (INTEGER extracted) KCIPARSE-extracted symbolics for System Variables use in the PARMLIB CONFIG parameter values. User Copy: WCONFIG($PARSE*xx*) (where y = C,M,P,Y *xx* = CM, SM, PR. DV)	Y

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
* * * P A R M L I B B a t c h J o b s (WKANSAMU) * * *		
KCIJPSUB	Submit the composite KCIJPSUB master WKANSAMU PARMLIB auto-SUBMIT job instead of submitting the following jobs individually: 1. KCIJPALO composite runtime library allocation job 2. KCIJPLOD composite TK*->RK* runtime library load job 3. KCIJPSEC composite product security job 4. KCIJPUSP composite USS preparation job 5. KCIJPLNK composite ASM/LINK job 6. **KCIJPSYS composite system set-up job 7. **KCIJPUSS composite USS create HFS system set-up job 8. **KCIJPCPY backup runtime libraries job 9. **KCIJPW2R WK*->RK* deployment job 10. KCIJPIVP configuration verification job Notes: - **Review the NOTES section of KCIJPSUB to see if certain jobs should be auto-submitted or not auto-submitted by KCIJPSUB. - If RTE is enabled for System Variables support ("RTE_SYSV_SYSVAR_FLAG" parameter in the CONFIG profile is set to "Y"), submit the WKANSAMU(KCIJVSUB) instead. User Copy: WKANSAMU(KCIJPSUB)	Y

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJVSUB	Submit the composite KCIJPSUV master WKANSAMU PARMLIB auto-SUBMIT job instead of submitting the following jobs individually: 1. KCIJVALO composite runtime library allocation job 2. KCIJVLOD composite TK*->RK* runtime library load job 3. KCIJVSEC composite product security job 4. KCIJVUSP composite USS preparation job 5. KCIJVLNK composite ASM/LINK job 6. **KCIJVUPV composite System Variables IEBUPDTE job 7. **KCIJVSYS composite system set-up job 8. **KCIJVUSS composite USS create HFS system set-up job 9. **KCIJVCPY backup runtime libraries job 10. **KCIJVW2R WK*->RK* deployment job 11. KCIJVIVP configuration verification job Notes: - **Review the NOTES section of KCIJVSUB to see if certain jobs should be auto-submitted or not auto-submitted by KCIJVSUB. - If RTE is not enabled for System Variables support ("RTE_SYSV_SYSVAR_FLAG" parameter in the CONFIG profile is set to "N"), submit the WKANSAMU(KCIJPSUB) instead. User Copy: WKANSAMU(KCIJVSUB)	Y

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcALO	Allocate the RK* execution runtime libraries for all the products and components in the RTE. Notes: - Required if KCIJcSUB job is not submitted. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcALO)	N
KCIJcLOD	Copy members of the products' SMP/E target libraries to the read-only RK* libraries. Notes: - Required if KCIJcSUB job is not submitted. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcLOD)	N
KCIJcSEC	Create security-related members (load modules, encryption key, and other elements) based on the product security requirements. Notes: - Required if the product-specific IBM-supplied security exit or input needs to be customized. - Required if KCIJcSUB job is not submitted. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_F User Copy: WKANSAMU(KCIJcSEC)	N

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcUSP	Create the USS-related members in the RKANDTVU RTE library for use in the composite KCIJPUSS job. See companion KCIJPUSS job. Notes: - Required if configuring certain products only (WebSphere Message Broker, ITCAM for SOA, and ITCAM for Application Diagnostics). - Required if KCIJcSUB job is not submitted. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcUSP)	N
KCIJcLNK	Assemble/link elements into the SYSLMOD RKANMOD* load library. Notes: - Required if configuring certain products only (OMEGAMON XE for Mainframe Networks) - Required if the common KOBVTPL OBVTM1 exit for OMNIMON Base needs to be customized. - Required if KCIJcSUB job is not submitted. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FL User Copy: WKANSAMU(KCIJcLNK)	N

KCIJV* jobs new in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcUPV	Submit the composite KCIJPUPV System Variables IEBUPDTE job. This job populates variable-named members contained in the application-specific KppJPUPB composite IEBUPDTE members in the WK* work output libraries. This job is equivalent to "PART 5 - KCIJPUP2 IEBUPDTE Steps" of the WCONFIG($PARSE) job. The function of the KCIJPUPV job is split out from "PART 5 - KCIJPUP2 IEBUPDTE Steps" of the $PARSE job as KCIJPUPV job must be submitted in the LPAR for which the system variables referenced in the IEBUPDTE members were configured, for proper resolution at product startup. Notes: - Required if RTE is enabled for System Variables support ("RTE_SYSV_SYSVAR_FLAG" parameter in the CONFIG profile is set to "Y"). - KCIJPSUV (job submitted by KCIJVSUB auto-SUBMIT job) SUBMITs the KCIJcUPV job by default. Edit the KCIJPSUV job accordingly. - Required for submission in the target where the symbolics are resolved. User Copy: WKANSAMU(KCIJcUPV)	N

KCIJV* jobs new in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcSYS	Complete system-related set-up functions: - copy the started tasks, VTAM major node members, and health check elements for the products and components into system libraries. - assemble/link product modules into system libraries. Notes: - Requires write access to system libraries. - KCIJPSUB/KCIJPSUV auto-SUBMIT jobs comment out the SUBMIT command for KCIJcSYS by default. Edit the KCIJPSUB/KCIJPSUV jobs accordingly. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcSYS)	N

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcUSS	Create the HFS directories and sub-directories to copy files to HFS. KCIJPUSP pre-processor job is required prior to submitting KCIJPUSS. KCIJPUSP job is split out from this composite KCIJPUSS job as KCIJPUSS job must be submitted on a machine that has access to the USS directories and the TSO userid that submits it must have write access to the HFS directories. Notes: - Required if configuring certain products only (WebSphere Message Broker, ITCAM for SOA, and ITCAM for Application Diagnostics). - KCIJPSUB/KCIJPSUV auto-SUBMIT jobs comment out the SUBMIT command for KCIJcUSS by default. Edit the KCIJPSUB/KCIJPSUV jobs accordingly. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcUSS)	N

KCIJV* jobs new in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

Member Name	Function	Required Y/N?
KCIJcIVP	Verify that that all the required runtime datasets members, and configuration jobs for this RTE were created, and that the jobs were executed successfully. Note: Required if KCIJcSUB job is not submitted. User Copy: WKANSAMU(KCIJcIVP)	Y

KCIJV* jobs new in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

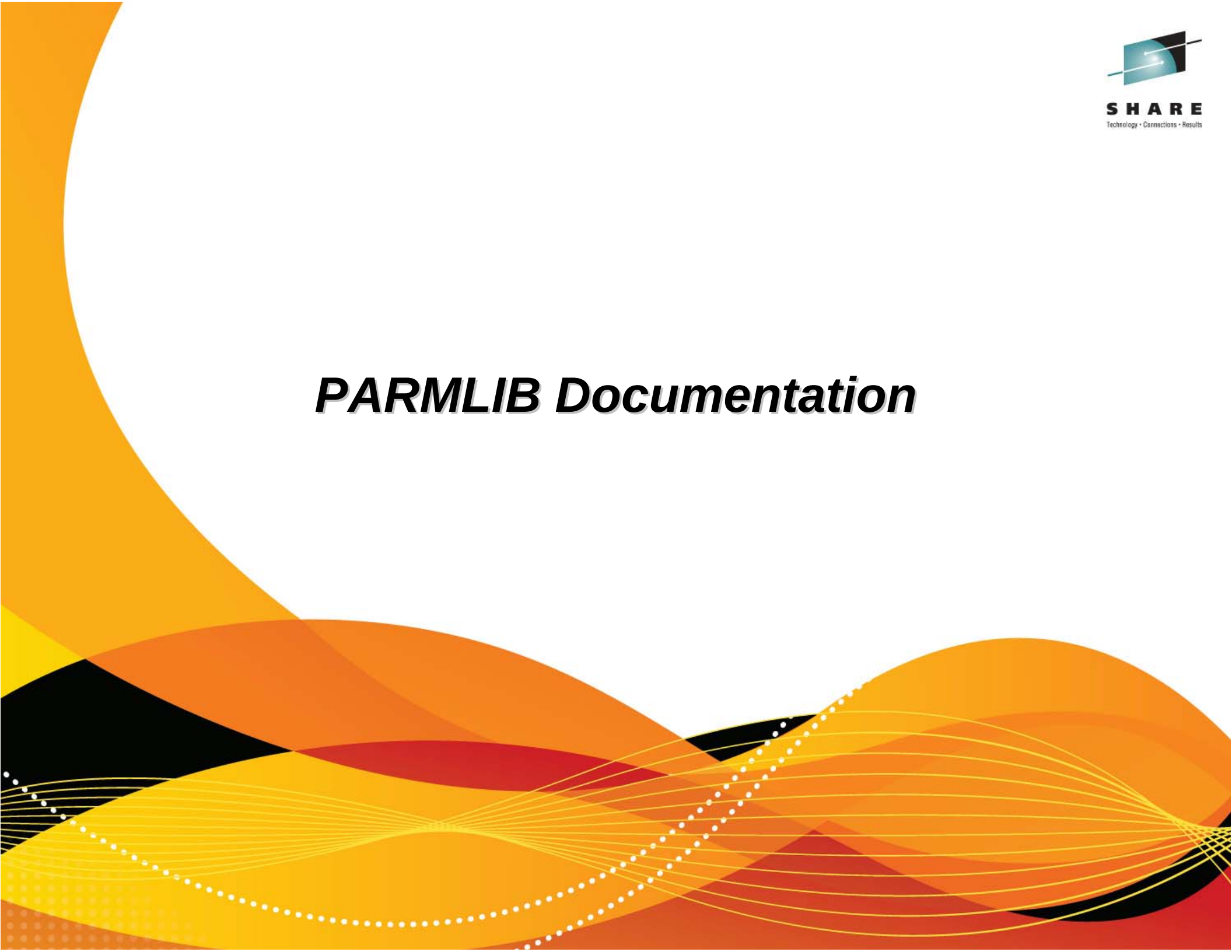
Member Name	Function	Required Y/N?
KCIJcCPY	Backup the existing production RK* runtime libraries and the PARMLIB work libraries (IK* interim staging libraries and WK* work output libraries). Notes: - See companion KCIJcW2R job. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcCPY)	N
KCIJcW2R	Empty the current RK* production runtime user libraries and copy the runtime members created by $PARSE in the WK* work output libraries, into the RK* production runtime user libraries. Note: Following your normal change control process, copy the WK* work output libraries to the respective production RK* runtime libraries. If you elect to run this job, first run the KCIJPCPY job to backup the RK* libraries. Verify that all RK* libraries were backed up successfully before running this job. Notes: - See companion KCIJcCPY job. - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcW2R)	N

KCIJV* jobs new in 4Q10

PARMLIB KCIJP* Batch Jobs (cont'd)

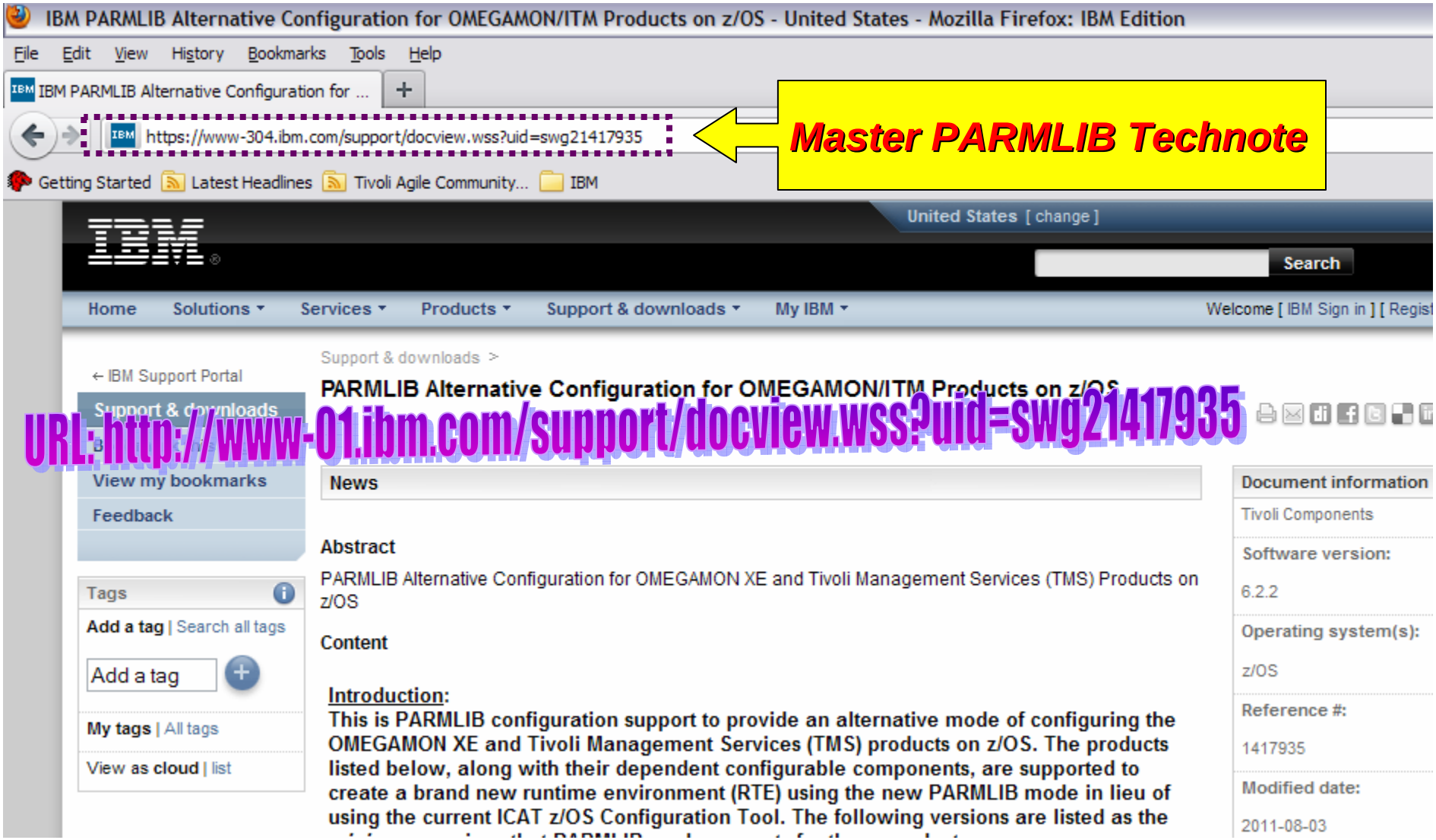
Member Name	Function	Required Y/N?
KCIJcDEL	Delete the RK* execution runtime libraries for all the products and components in the RTE. Notes: - Where "%" = P (if RTE_SYSV_SYSVAR_FLAG=N) or V (if RTE_SYSV_SYSVAR_FLAG=Y) User Copy: WKANSAMU(KCIJcDEL)	N
xxxxSTRT	Composite list of /S (START) Started Tasks (where xxxx = %RTE_STC_PREFIX%) User Copy: WKANSAMU(xxxxSTRT)	N
xxxxSTOP	Composite list of /P (STOP) Started Tasks (where xxxx = %RTE_STC_PREFIX%) User Copy: WKANSAMU(xxxxSTOP)	N
xxxxAPF	Composite list of APF-authorized libraries (where xxxx = %RTE_STC_PREFIX%) User Copy: WKANSAMU(xxxxAPF)	N

********** Bottom of Data **********

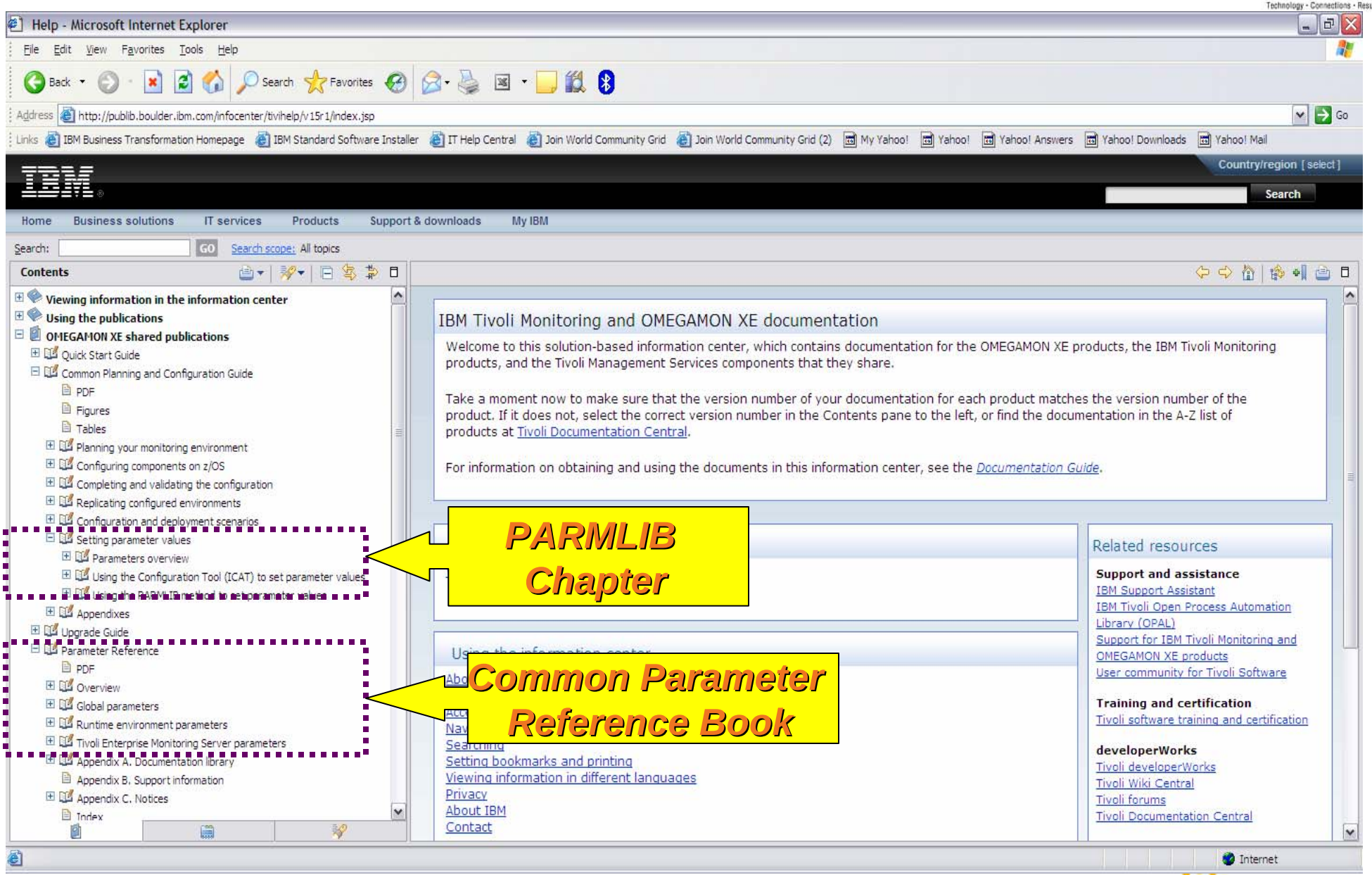


PARMLIB Documentation

PARMLIB Documentation



PARMLIB Documentation (cont'd)



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Questions and/or Feedback

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