

z/TPF EE V1.1

z/TPFDF V1.1

TPF Toolkit for WebSphere® Studio V3

TPF Operations Server V1.2



IBM Software Group

TPF Users Group Fall 2005

TPF Operations Server Update

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Venue: Operations and Coverage Subcommittee

AIM Enterprise Platform Software

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Agenda

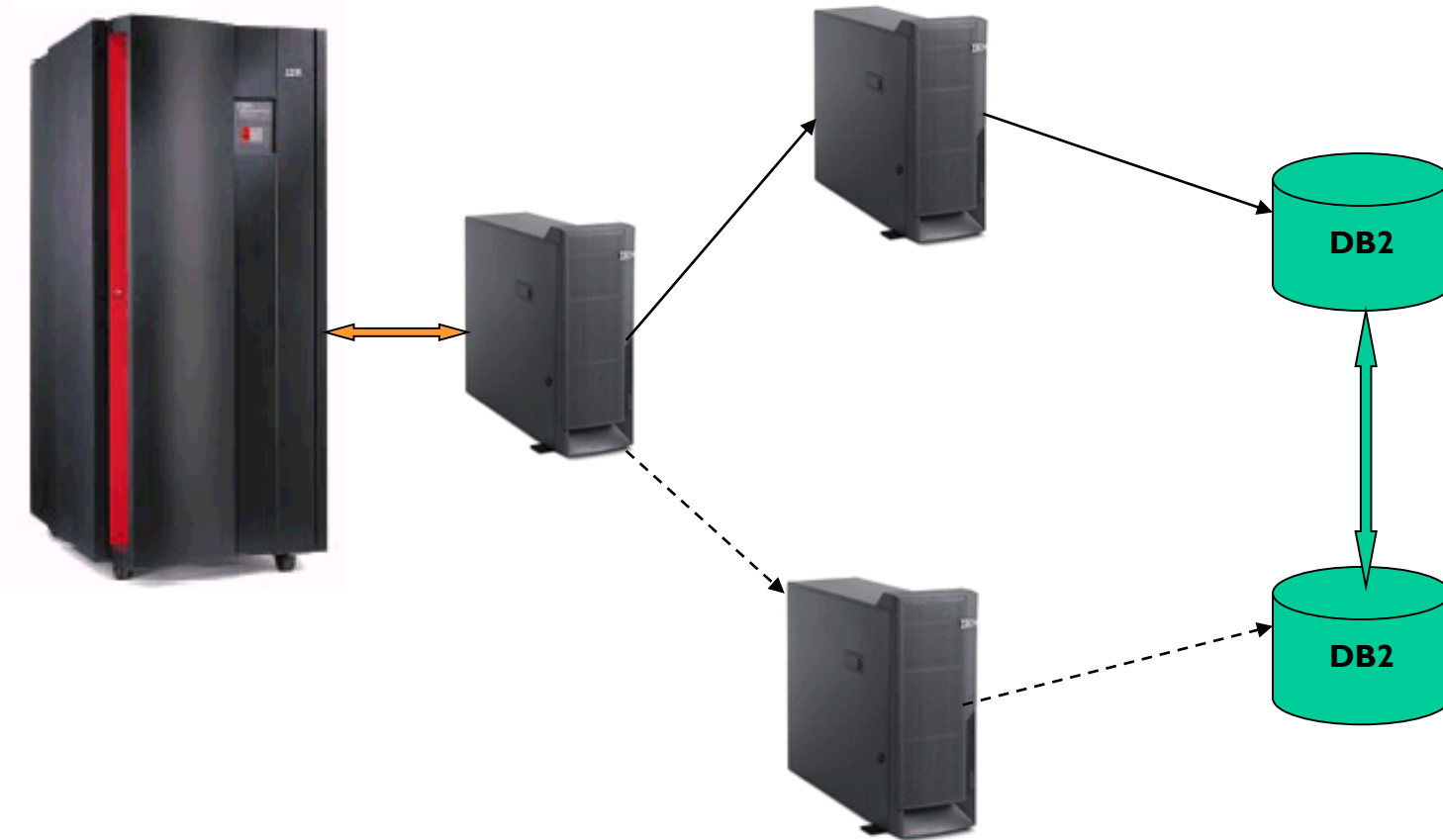
- V1.2.03 GA
- Updates and tips for security features
- APARs of interest
- Planned enhancements for next FixPak
 - January '06
- Keeping your Windows locked
- Questions

TPF Operations Server V 1.2.03

- GA in June '05
 - Released on CD
- RAVEN Enhancements
- Backup client session capabilities
 - Client takes over when primary client becomes unavailable
 - Use with automation or DB2 replicated databases

Backup Sessions and DB2 Replication

DB Server 1



DB Server 2

Updates and Tips for TPF Operations Server Security Features

- Updates
 - APAR IC46896 – Fixes memory leak in sample encryption/decryption user exit
 - APAR IC46908 – Consoles and Java API client reconnects may fail after inactivity timeout
 - APAR IC46939 – Inconsistency in encryption/decryption user exit in combination with the transfer option and an automatic reconnect
- Tips
 - Implement the `UE_Authenticate()` user exit to call an external executable
 - Avoids server downtime when changing the user exit logic
 - Negligible performance loss
 - Sample to be released
 - Use `UE_ProcessCommand()`! TPF Lab uses it to restrict command access to certain user IDs, by system name and CPU ID.
 - Custom file-based command access control list (ACL) in use
 - Contact your Customer Service Representative for more information!

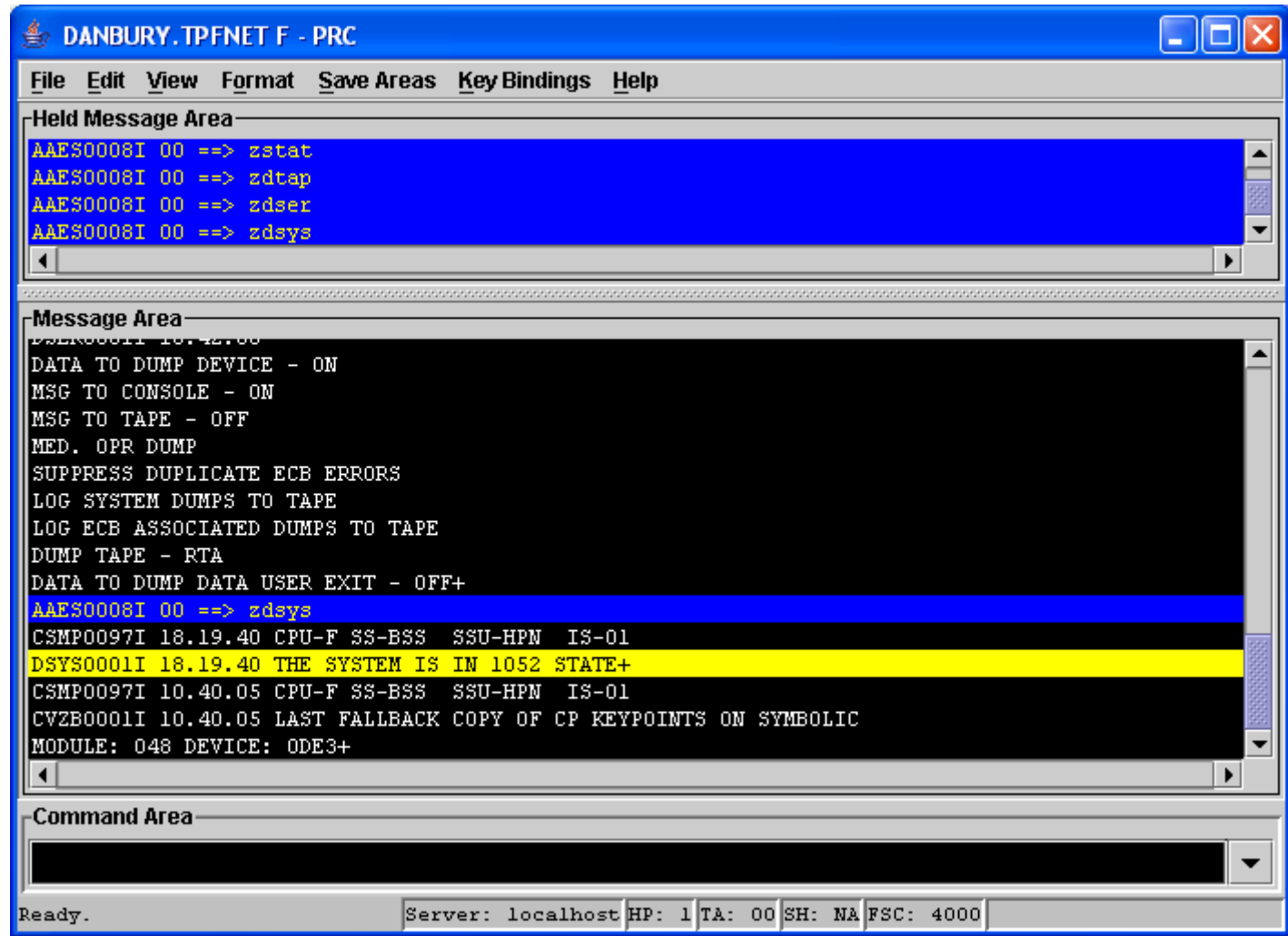
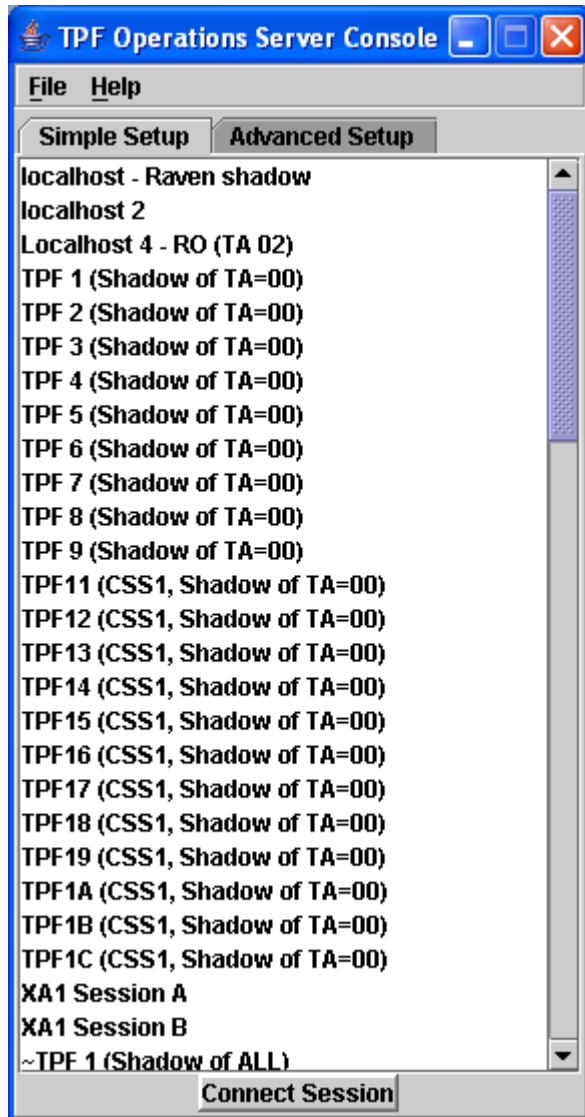
Other APARs of Interest

- IC46520 - Server stopped accepting new client connections.
- IC46811 – API opened for using the Console filter rule syntax checker from your applications
- Latest Patch 20051013
 - V1.2.03 base required for patch installation

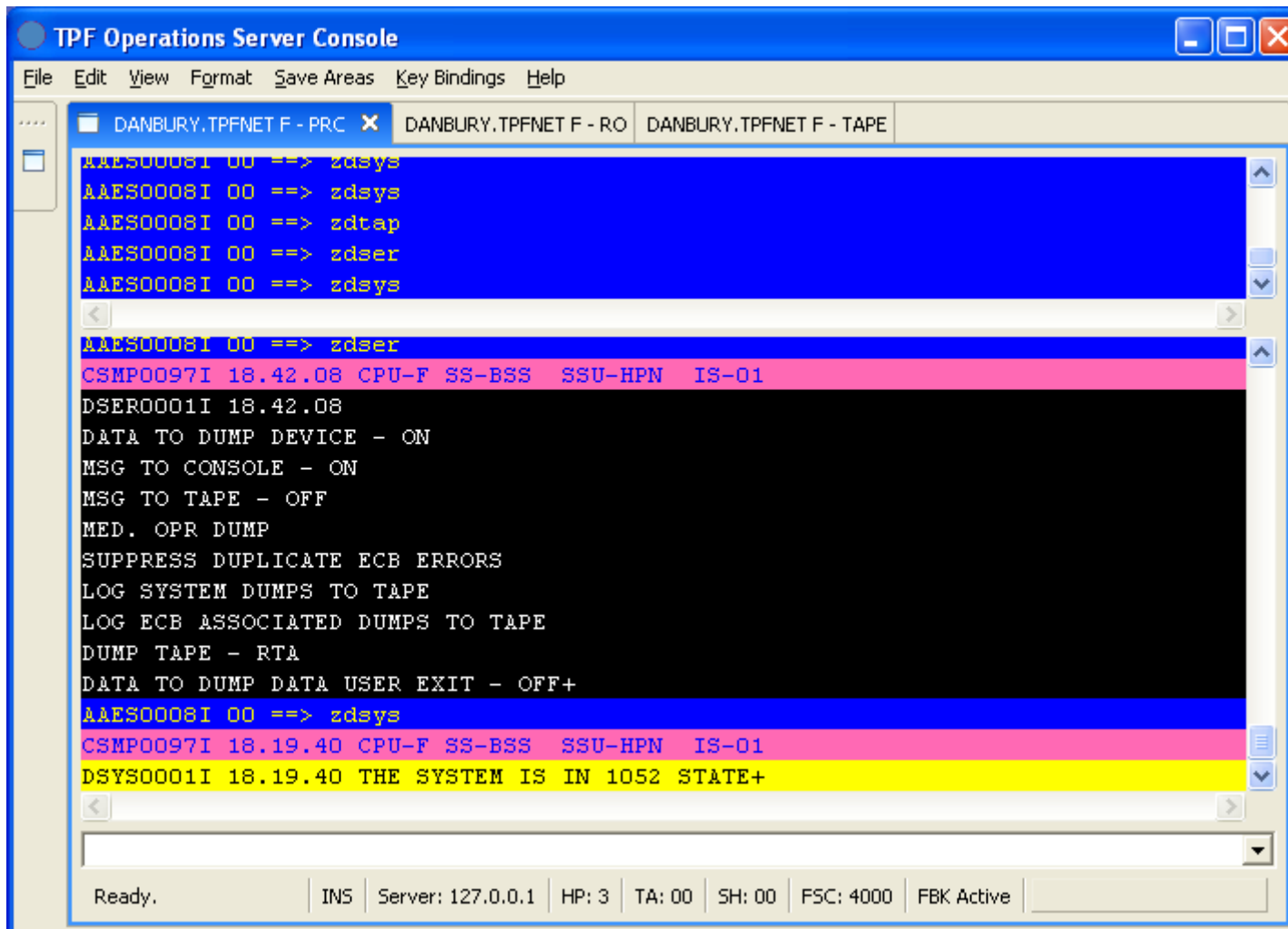
Planned Enhancements for next FixPak

- New Console User Interface
 - Based on Eclipse Rich Client Platform
 - Better Session Organization
 - Improved Accessibility Support
 - Improved Customization
- Shipping IBM Java Runtime Environment (JRE)
 - Optimized JRE
 - Easier setup

The Present



Planned



The screenshot shows the TPF Operations Server Console interface. The window title is "TPF Operations Server Console". The menu bar includes "File", "Edit", "View", "Format", "Save Areas", "Key Bindings", and "Help". The console displays several lines of text, including system status updates and configuration settings. The status bar at the bottom shows "Ready." and various system parameters.

```
TPF Operations Server Console
File Edit View Format Save Areas Key Bindings Help
DANBURY.TPFNET F - PRC DANBURY.TPFNET F - RO DANBURY.TPFNET F - TAPE
AAES0008I 00 ==> zdsys
AAES0008I 00 ==> zdsys
AAES0008I 00 ==> zdtap
AAES0008I 00 ==> zdser
AAES0008I 00 ==> zdsys
AAES0008I 00 ==> zdser
CSMP0097I 18.42.08 CPU-F SS-BSS SSU-HPN IS-01
DSER0001I 18.42.08
DATA TO DUMP DEVICE - ON
MSG TO CONSOLE - ON
MSG TO TAPE - OFF
MED. OPR DUMP
SUPPRESS DUPLICATE ECB ERRORS
LOG SYSTEM DUMPS TO TAPE
LOG ECB ASSOCIATED DUMPS TO TAPE
DUMP TAPE - RTA
DATA TO DUMP DATA USER EXIT - OFF+
AAES0008I 00 ==> zdsys
CSMP0097I 18.19.40 CPU-F SS-BSS SSU-HPN IS-01
DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+
Ready. | INS | Server: 127.0.0.1 | HP: 3 | TA: 00 | SH: 00 | FSC: 4000 | FBK Active
```

Planned (cont.)

The screenshot displays the TPF Operations Server Console interface. On the left, a tree view under 'Session Starter' shows a hierarchy of TPF sessions (TPF 2 through TPF 6) with sub-items for 'Shadow of ALL', 'Shadow of RAVEN', 'Shadow of RO', and 'Shadow of TA=00'. A 'Connect Session' button is at the bottom of this tree. The main terminal window, titled 'DANBURY.TPFNET F - PRC', shows the following output:

```

MSG TO CONSOLE - ON
MSG TO TAPE - OFF
MED. OPR DUMP
SUPPRESS DUPLICATE ECB ERRORS
LOG SYSTEM DUMPS TO TAPE
LOG ECB ASSOCIATED DUMPS TO TAPE
DUMP TAPE - RTA
DATA TO DUMP DATA USER EXIT - OFF+
AAES0008I 00 ==> zdsys
CSMP0097I 18.39.18 CPU-F SS-BSS SSU-HPN IS-01
DSYS0001I 18.39.18 THE SYSTEM IS IN NORM STATE+
AAES0008I 00 ==> zdsid
CSMP0097I 18.40.29 CPU-F SS-BSS SSU-HPN IS-01
DSID0001I 18.40.29 THE SYSTEM ID IS DANBURY . TPFNET
ON PROCESSOR FFO20410 MODEL 3090 LOW CPU ADDRESS 0000-
CSMP0097I 10.10.30 CPU-F SS-BSS SSU-HPN IS-01
TTCP0203I 10.10.15 IP ROUTER SDA-0947 ACTIVATED+
CSMP0097I 10.10.30 CPU-F SS-BSS SSU-HPN IS-01
TTCP0203I 10.10.15 IP ROUTER SDA-0947 ACTIVATED+

```

At the bottom of the console, a status bar displays: Ready. INS | Server: 127.0.0.1 | HP: 3 | TA: 00 | SH: 00 | FSC: 4000 | FBK Active

Planned (cont.)

TPF Operations Server Console

File Edit View Format Save Areas Key Bindings Help

DANBURY.TPFNET A - PRC DANBURY.TPFNET A - TAPE

```

CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS
COUH0015I 10.38.00 CODR POLICING OK+
CSMP0097I 10.40.05 CPU-F SS-BSS SSU-HPN IS
CVZB0001I 10.40.05 LAST FALLBACK COPY OF CP
MODULE: 048 DEVICE: ODE3+
CSMP0097I 10.40.05 CPU-F SS-BSS SSU-HPN IS
CVZB0001I 10.40.05 LAST FALLBACK COPY OF CP
MODULE: 048 DEVICE: ODE3+

```

Ready. INS Server: 127.0.0.1 HP: 3 TA: 00 SH: 00 FSC: 4000

DANBURY.TPFNET B - PRC DANBURY.TPFNET B - TAPE

```

CVZ10001I 10.25.06 LAST EXTENT COPY OF CP KE
CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS
COUH0015I 10.38.00 CODR POLICING OK+
CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS
COUH0015I 10.38.00 CODR POLICING OK+
AAES0008I 00 ==> zdsys
CSMP0097I 18.39.18 CPU-F SS-BSS SSU-HPN IS
DSYS0001I 18.39.18 THE SYSTEM IS IN NORM STA

```

Ready. INS Server: 127.0.0.1 HP: 7 TA: 00 SH: 00 FSC: 4000

DANBURY.TPFNET C - PRC DANBURY.TPFNET C - TAPE

```

DUMP TAPE - RTA
DATA TO DUMP DATA USER EXIT - OFF+
AAES0008I 01 ==> zdtap
CSMP0097I 18.19.40 CPU-F SS-BSS SSU-HPN IS
COTD0037I 18.19.40 DTAP HPN NO ENTRIES FO
AAES0008I 01 ==> zdsys
CSMP0097I 18.19.40 CPU-F SS-BSS SSU-HPN IS
DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STA

```

Ready. INS Server: 127.0.0.1 HP: 9 TA: 01 SH: 00 FSC: 4000

DANBURY.TPFNET D - PRC DANBURY.TPFNET D - TAPE

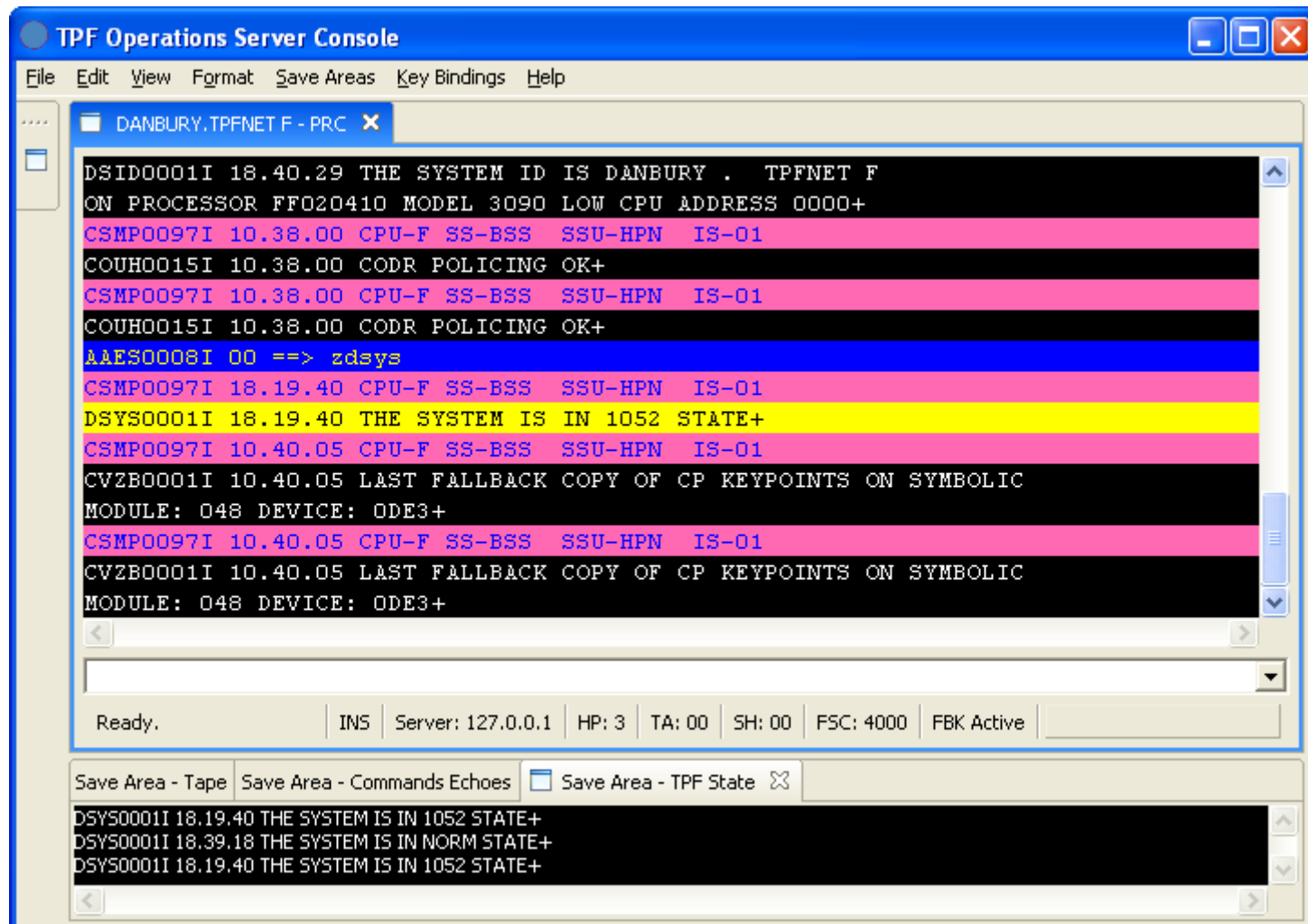
```

CSMP0097I 10.25.06 CPU-F SS-BSS SSU-HPN IS
CVZ10001I 10.25.06 LAST EXTENT COPY OF CP KE
CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS
COUH0015I 10.38.00 CODR POLICING OK+
AAES0008I 01 ==> zdsid
CSMP0097I 18.40.29 CPU-F SS-BSS SSU-HPN IS
DSID0001I 18.40.29 THE SYSTEM ID IS DANBURY
ON PROCESSOR FFO20410 MODEL 3090 LOW CPU ADD

```

Ready. INS Server: 127.0.0.1 HP: 5 TA: 01 SH: 00 FSC: 4000

Planned (cont.)



The screenshot displays the TPF Operations Server Console interface. The main window shows a log of system events for the DANBURY.TPFNET F - PRC environment. The logs include messages from DSID0001I, CSMP0097I, COUH0015I, and AAES0008I, detailing system ID, processor information, CPU-F SS-BSS SSU-HPN IS-01 status, and CODR POLICING OK+ messages. A yellow highlight is present on the message: DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+. Below the log, a status bar shows 'Ready.' and various system parameters: INS, Server: 127.0.0.1, HP: 3, TA: 00, SH: 00, FSC: 4000, FBK Active. At the bottom, there are tabs for 'Save Area - Tape', 'Save Area - Commands Echoes', and 'Save Area - TPF State'. The 'Save Area - TPF State' tab is active, showing a log of DSYS0001I messages: DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+, DSYS0001I 18.39.18 THE SYSTEM IS IN NORM STATE+, and DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+.

```
TPF Operations Server Console
File Edit View Format Save Areas Key Bindings Help
DANBURY.TPFNET F - PRC
DSID0001I 18.40.29 THE SYSTEM ID IS DANBURY . TPFNET F
ON PROCESSOR FFO20410 MODEL 3090 LOW CPU ADDRESS 0000+
CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS-01
COUH0015I 10.38.00 CODR POLICING OK+
CSMP0097I 10.38.00 CPU-F SS-BSS SSU-HPN IS-01
COUH0015I 10.38.00 CODR POLICING OK+
AAES0008I 00 ==> zdsys
CSMP0097I 18.19.40 CPU-F SS-BSS SSU-HPN IS-01
DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+
CSMP0097I 10.40.05 CPU-F SS-BSS SSU-HPN IS-01
CVZB0001I 10.40.05 LAST FALLBACK COPY OF CP KEYPOINTS ON SYMBOLIC
MODULE: 048 DEVICE: ODE3+
CSMP0097I 10.40.05 CPU-F SS-BSS SSU-HPN IS-01
CVZB0001I 10.40.05 LAST FALLBACK COPY OF CP KEYPOINTS ON SYMBOLIC
MODULE: 048 DEVICE: ODE3+
Ready. INS Server: 127.0.0.1 HP: 3 TA: 00 SH: 00 FSC: 4000 FBK Active
Save Area - Tape Save Area - Commands Echoes Save Area - TPF State
DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+
DSYS0001I 18.39.18 THE SYSTEM IS IN NORM STATE+
DSYS0001I 18.19.40 THE SYSTEM IS IN 1052 STATE+
```

Locking down Windows

- Similar functionality to the EOCF/2 Shell
- Use of multiple logons from Windows XP Professional or Server editions
- Windows functions can be locked down
- Contact your Windows Administrator

TPF Operations Server Service Deliveries

- Yearly CD-ROM refreshes planned
 - January FixPak delivered as APAR on the Web
- Individual APARs available on the Web
 - TPF -> SUPPORT -> MAINTENANCE
(<http://www.ibm.com/tpf/pages/maint.htm>)
 - APARs listed in the order closed
 - Unzip package and run TOSAPAR.BAT to apply.
- Patch file containing all the latest closed APARs to be available
 - TOS_PATCHyyyymmdd.ZIP
 - Extract and run TOS_Patch.BAT
 - Contains newly enhanced error checking and reporting
 - Use with code delivery applications.
- EOCF/2 end of service (September 2004)
 - Contact CSR for migration information.
- TPF Test team releasing several pieces of TOS automation, plans to release more

Questions



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