



TPF Operations Server V1.2

TPF Users Group Fall 2008

Title: TPF Systems Management

Subtitle: TPF Operations Server Update

Name: Don Kallberg
Venue: Operations and Coverage

AIM Enterprise Platform Software
IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Agenda

- **TPF Operations Server Product Distribution**
- **Pre-req Software**
- **APARs**
- **TPF 3215 Console Support Directions**
- **Continuous Data Collection (CDC) Client Directions**

TPF Operations Server CDs

- **TPF Operations V 1.2.05**
 - Available - June 29, 2007
 - CD and softcopy/electronic delivery
 - Registration required to receive electronic delivery.
 - http://www.ibm.com/software/htp/tpf/pages/req_full.htm
- **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**
 - TOS_PATCH_Vnnnn_yyyymmdd.ZIP
 - Extract and run TOS_Patch.BAT

TPF Operations Server Pre-requisite Software

- **Windows XP Professional – SP 3**
- **Windows Server 2003 – SP2**
- **Windows Vista support for clients**
 - Requires TOS V 1.2.05
- **Luminex 3215 TPF Console Interface**
 - Version 1.08 (Sept. 2006)
 - IBM 9663-001 end of support 12/2009
- **IBM Personal Communications V 5.8**
 - Part of Host Access Client Package
- **DB2 V 9.5 tested with logging client**
- **Open Object REXX V 3.2**
 - <http://www.oorexx.org/>

TPF Operations Server APARs

- **IC54819 – DB2 Logging Service Startup problem**
 - Allows time for DB2 to initialize
- **IC54865 – Operator notification of TOS2TEC errors**
- **IC55479 – TOSLOG abend with command filter rule**
- **IC55808 – TOS Filter rule colors off by 1-3 lines**

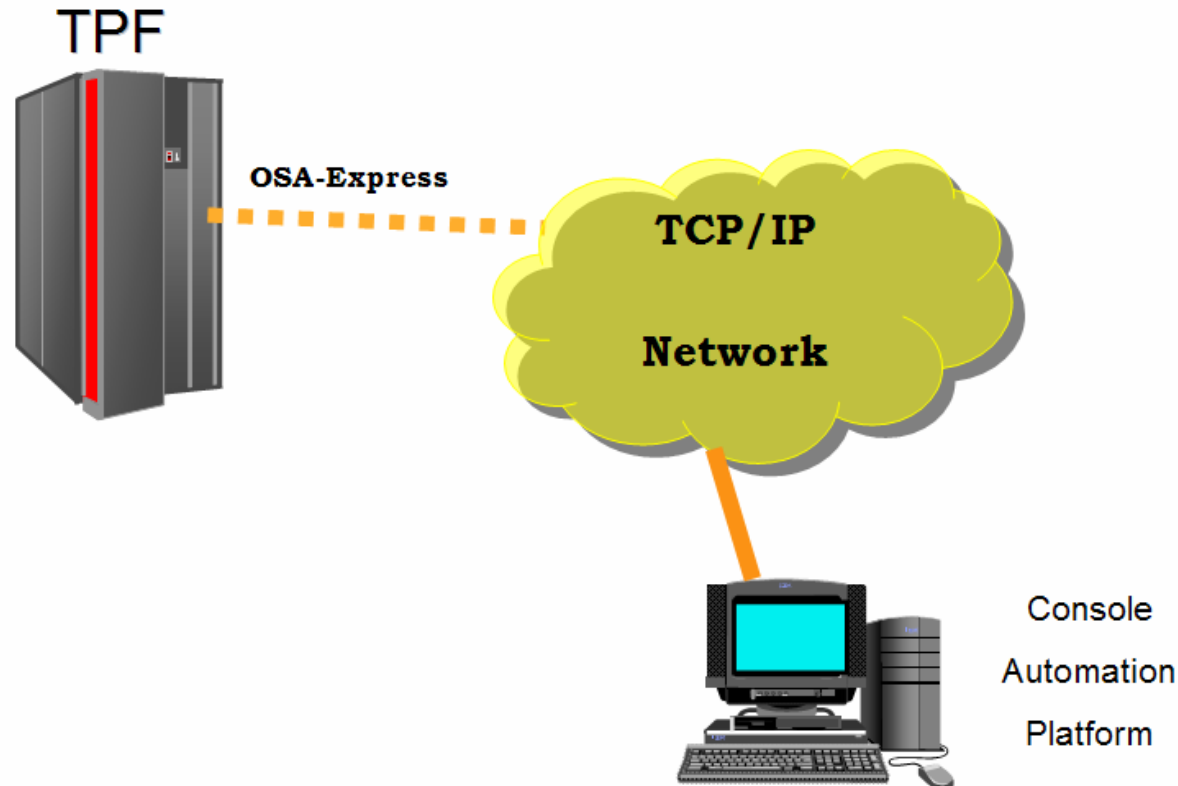
TPF Operations Server APARs (cont.)

- **IC55853 – Problem stopping TOSLOG service**
- **IC56430 – Unable to receive messages after console reconnect**
- **Above included in cumulative patch
TOS_PATCH_V1205_20080801**
- **IC56427 – Exception occurred in 3270 server**

TPF 3215 Console Support Directions

- Working on removing the requirement for an ESCON connection
- Current design direction utilizes an OSA-Express channel
- To be available first on System z9 then later on System z10
- Support for use with TPF Operations Server V 1.2.05 via APAR.

TPF 3215 Console Support Directions












CDC Client Directions

- **Future CDC Client to be an agent for IBM Tivoli Monitoring and the Tivoli Enterprise Portal.**
 - Agent planned availability 1st Quarter 2009
 - IBM Tivoli Monitoring V 6.2 required.
 - No extra cost for the TPF agent
 - Utilizes TPF Continuous Data Collection (CDC)

IBM Tivoli Monitoring

Manage Tivoli Enterprise Monitoring Services - TEMS Mode - [Local Computer]

Actions Options View Windows Help

Service/Application	Task/SubSystem	Configured	Status	Startup	Account	Desktop	HotStdy	Version	Host	Port
 Eclipse Help Server	HELPSVR	Yes	Started	Auto	LocalSystem	No	No	3.1.0		
 Tivoli Enterprise Portal	Browser	Yes		N/A	N/A	N/A	N/A	06.20.01.00	localhost	
 Tivoli Enterprise Portal	Desktop	Yes		N/A	N/A	N/A	N/A	06.20.01.00	LOCALHOST	
 Tivoli Enterprise Portal Server	KFWSRV	Yes (TEMS)	Started	Auto	LocalSystem	No	No	06.20.01.00		
 Monitoring Agent for z/TPF	TPFP3	Yes (TEMS)	Started	Manual	LocalSystem	No	No	06.20.00.00		
 Monitoring Agent for z/TPF	GSTRAIT	Yes (TEMS)	Started	Manual	LocalSystem	No	No	06.20.00.00		
 Monitoring Agent for z/TPF	Template							06.20.00.00		
 Monitoring Agent for Windows OS	Primary	Yes (TEMS)	Stopped	Auto	LocalSystem	Yes	No	06.20.01.00		
 Tivoli Enterprise Monitoring Server	TEMS1	Yes	Stopped	Auto	LocalSystem	No	No	06.20.01.00		

IBM Tivoli Monitoring – real time TPF data

The screenshot displays the DASD LOCALHOST - SYSADMIN monitoring interface. The left-hand side features a Navigator tree with a physical view of the system hierarchy, including Enterprise, Windows Systems, STRAITG, Windows OS, z/TFP, and GSTRAIT_PP. The main area is divided into several panels:

- DASD IO:** A table showing IO performance for two nodes:

Node	Timestamp	SS Name	Device	IO per Sec	Rd per Sec	Wr per Sec	Q Len
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	BSS	DEVA	12.9	8.7	4.2	0.0
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	BSS	DEVB	152.6	146.7	5.9	0.0
- DASD IO per Second:** A line graph showing IO per second over time. The Y-axis ranges from 0 to 160. Two series are plotted: IO per Sec for SS Name=BSS, Device=DEVA (yellow line) and IO per Sec for SS Name=BSS, Device=DEVB (blue line). The blue line shows a steady high level of activity around 150, while the yellow line shows a significant spike to approximately 60 around 10:20:00.
- DASD Queues:** A table with columns: Node, Timestamp, Address, Module, Min Queue, Queue, Max Queue, SS Name.
- DASD Service Time:** A table showing service time metrics:

Node	Timestamp	SSID	Lowest SDA	Service Time Min	Service Time	Service Time Max
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1030	264	0.964	1.013	1.047
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1031	3E0	0.896	1.406	2.108
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1034	263	0.078	0.228	0.586
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1035	260	0.408	0.521	0.635
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1038	262	1.040	1.381	2.451
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	1039	261	0.996	1.130	1.180
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	10...	3E2	0.681	2.395	3.253
GSTRAIT-STRAITG-PP	10/10/08 10:41:58	10...	265	1.005	1.048	1.070

The bottom status bar indicates the Hub Time as Fri, 10/10/2008 10:42 AM, the server is Available, and the user is DASD - LOCALHOST - SYSADMIN.

z/TPF - LOCALHOST - SYSADMIN

File Edit View Help

Navigator

- Windows System
 - STRAITG
 - z/TPF
 - GSTRAIT.PP
 - CDC Session Info
 - Channel Utilization
 - Communications
 - DASD
 - LPAR Utilization
 - Hint TPFDF
 - Hint JOBC
 - Performance Object Status
 - Prefined User Data
 - Pools
 - System
 - Trace
 - VFA
 - JOBC Historical Data
 - z/TPFDF Historical Data
 - DF Performance Object
 - DF Channel Utilization
 - DF DASD Service Time
 - DF Enhanced Channel
 - DF IStream
 - DF LDDIC Resource P
 - DF LDDIC Utilization P
 - DF LPAR Utilization
 - DF Prefined User Da
 - DF Subsystem Message
 - DF Subsystem User Me
 - DF System Blocks
 - DF System Lists
 - DF System Messages
 - DF Trace
 - DF TCP/IP
 - DF Time Slice
 - DF VFA Details
 - DF VFA Summary
 - DF WebSphere MQ Ch
 - DF WebSphere MQ Qu
 - DF WebSphere MQ Su

Machine / Session Info

Node	Timestamp	CPU Ser Nbr	CPU Mach Type	TPF Release	TPF PUT Level	TPF Cptr Name	TPF Entr Name	TPF Connection Tt
TPFP3 STRAITG-PP	10/10/08 11:09:07	0006153F	2094720	zTPF EE	01 01 04	SH0001	DANBURY	10/10/2008 11:05:42
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	FF02153F	2094720	zTPF EE	01 01 05	CO0901	DANBURY	10/10/2008 11:05:28

System Messages

Node	Timestamp	Type	Min Value	Value	Max Value	Session Min Value	Session Value	Session Max Value
TPFP3 STRAITG-PP	10/10/08 11:09:07	Messages per Sec	0.0	0.0	0.0	0.0	0.0	0.3
TPFP3 STRAITG-PP	10/10/08 11:09:07	Created ECBs per Sec	4.4	5.7	9.6	4.4	5.7	9.7
TPFP3 STRAITG-PP	10/10/08 11:09:07	CF Commits per Sec	0.7	0.9	1.5	0.4	0.8	1.5
TPFP3 STRAITG-PP	10/10/08 11:09:07	CF Requests per Sec	0.0	0.0	0.0	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	SNA Input Msgs per Sec	0.0	0.0	0.0	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	TCP/IP Input Msgs per Sec	0.7	1.4	3.5	0.7	1.2	3.9
TPFP3 STRAITG-PP	10/10/08 11:09:07	Active ECBs	13.0	13.0	14.0	13.0	15.0	20.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	Messages per Sec	0.0	0.0	0.0	0.0	0.0	0.1
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	Created ECBs per Sec	3.9	4.6	6.5	3.7	4.4	8.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	CF Commits per Sec	1.1	1.4	1.9	1.1	1.6	5.1
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	CF Requests per Sec	0.0	0.0	0.0	0.0	0.0	0.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	SNA Input Msgs per Sec	0.0	0.0	0.0	0.0	0.0	0.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	TCP/IP Input Msgs per Sec	1.5	2.4	4.3	0.7	3.0	19.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	Active ECBs	13.0	14.0	17.0	13.0	13.0	17.0

Processor Utilization

Node	Timestamp	Attribute	IStream	Min Value	Value	Max Value
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	1	1.7	1.8	1.9
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	2	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	3	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	4	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	5	0.0	0.0	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	Processor Util Percent	6	0.0	0.0	0.0

DASD IO

Node	Timestamp	SS Name	Device	IO per Sec	Rtd per Sec	Wt per Sec	Q Len
TPFP3 STRAITG-PP	10/10/08 11:09:07	BSS	DEVA	38.9	35.7	1.2	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	BSS	DEVB	197.7	191.4	6.3	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	WP	WPXX	15.9	12.7	3.2	0.0
TPFP3 STRAITG-PP	10/10/08 11:09:07	WP	DEVB	152.7	152.7	0.0	0.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	BSS	DEVA	14.0	8.7	5.3	0.0
OISTRAIT-STRAITG-PP	10/10/08 11:08:53	BSS	DEVB	156.9	152.2	4.7	0.0

Hub Time: Fri, 10/10/2008 11:09 AM

Server Available

z/TPF - LOCALHOST - SYSADMIN

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