



IBM Software Group

TPF Users Group Fall 2005

TPF and z/TPF Requirements
TPFDF and z/TPFDF Requirements

Name : Kevin Jones

Venue : Requirements Subcommittee

AIM Enterprise Platform Software

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Agenda

- Definitions
- TPF and z/TPF Requirements
 - ▶ New Requirements from Spring 2005
 - ▶ Status Changes
 - ▶ Top Requirements - Spring 2005 Voting
 - ▶ Available / Accepted Requirements
- TPFDF and z/TPFDF Requirements
 - ▶ New Requirements from Spring 2005
 - ▶ Status Changes
 - ▶ Top Requirements - Spring 2005 Voting
 - ▶ Accepted Requirements

TPF User Group Status Definitions

- **Accepted**
 - IBM intends to do this within 1 year.
- **Likely**
 - IBM intends to do this, but in a time frame greater than 1 year.
- **Not Likely**
 - While IBM believes the idea to be sound, we do not intend to do this in the foreseeable future.
- **Rejected**
 - IBM believes that the idea is unsound and does not recommend implementation by either IBM or end users and/or the idea is counter to future directions.

Note: A listing of all requirements and IBM status is available in the Requirements section of the TPFUG Web site (<http://www.tpfug.org>)

TPF and z/TPF Requirements

New Requirements from Spring 2005 Users Group

- MQ05001 - MQSeries: Communications Trace Enhancements
 - ▶ Likely.

- MQ05002 - MQSeries: Trace Postprocessor Enhancements
 - ▶ Likely.

- MQ05003 - MQSeries: Add Hostname Support for LOCALIP Field
 - ▶ Likely.

New Requirements from Spring 2005 Users Group

- MQ05004 - MQSeries: Add Port Range Support for LOCALIP Field
 - ▶ Likely.

- MQ05005 - MQSeries: Support for ZMQSC MIGRATE COMMIT by CPU
 - ▶ Accepted.

- MQ05006 - MQSeries: Support ZMQSC TRACE Time Precision to Micro Seconds
 - ▶ Likely.

New Requirements from Spring 2005 Users Group

- V05001 - Toolkit: PF5 Refresh
 - ▶ Available (TPF Toolkit V3).
- V05002 - Toolkit: Create Project from RSE Display
 - ▶ Likely.
- V05003 - Toolkit: Virtual Reader & General Data Set Deactivation
 - ▶ Likely.
- V05004 - Toolkit: Allow Slow Double Click
 - ▶ Likely.

New Requirements from Spring 2005 Users Group

- V05005 - Toolkit: Provide Full HFS Access
 - ▶ Likely.
- V05006 - Toolkit: Provide Program to Program Access
 - ▶ Likely.
- V05007 - Toolkit: Project Navigator File Sort
 - ▶ Likely.
- V05008 - Toolkit: RSE File Sort
 - ▶ Available (TPF Toolkit V3).

New Requirements from Spring 2005 Users Group

- V05009 - Toolkit: UNIX Environment Modification of Script Templates
 - ▶ Rejected (can be achieved by TPFToolkit.bat script within another script).
- V05010 - Toolkit: Sharing of User Settings & Options
 - ▶ Pending (more information requested).
- V05011 - Toolkit: Ability to Search Subfolders of Parent Folders
 - ▶ Pending (more information requested).
- V05012 - Debugger: Viewing Initialization List
 - ▶ Likely.

Status Changes

- V01014 - Standardization of messages sent to the message pane from VATPF
 - ▶ was: Likely.
 - ▶ now: Being removed from next ballot due to strike votes received.

- V01020 - Simplify VATPF CSD update process
 - ▶ was: Not Likely.
 - ▶ now: Being removed from next ballot due to strike votes received.

Status Changes

- V03003 - User Exit when starting or ending VATPF
 - ▶ was: Likely.
 - ▶ now: Being removed from next ballot due to strike votes received.

- A95003 - CASE Tool Enabling for TPF
 - ▶ was: Not Likely.
 - ▶ now: Being removed from next ballot due to strike votes received.

Status Changes

- MQ04009 - MQSeries: Remote Administration
 - ▶ was: Accepted.
 - ▶ now: Likely.

- MQ04016 - MQSeries: Provide Socket Buffer Usage Display
 - ▶ was: Accepted.
 - ▶ now: Available with PJ29938 on TPF4.1 PUT20 & PJ30433 on z/TPF PUT01.

Status Changes

- V03005 - Debugger: Reject Invalid Program Type
 - ▶ was: Accepted.
 - ▶ now: Available with PJ30282 on TPF4.1 PUT20 & PJ30559 on z/TPF PUT02.

- V03006 - Debugger: Inform Users of SNAP Dumps
 - ▶ was: Accepted.
 - ▶ now: Available with PJ30282 on TPF4.1 PUT20 & PJ30559 on z/TPF PUT02.

Status Changes

- V03007 - Debugger: Inform Users of Pre-Trace Dump
 - ▶ was: Likely.
 - ▶ now: Available with PJ30282 on TPF4.1 PUT20 & PJ30559 on z/TPF PUT02.

- V03009 - Debugger: Add StepInto Registered Function
 - ▶ was: Accepted.
 - ▶ now: Available with PJ30282 on TPF4.1 PUT20 & PJ30559 on z/TPF PUT02.

Status Changes

- V04001 - Enhance the Performance Analyzer to Provide Additional Resource Utilization Data
 - ▶ was: Likely.
 - ▶ now: Available with the Software Profiler (z/TPF GA).

- S96015 - Generic Tape Write for Application
 - ▶ was: Not Likely.
 - ▶ now: Available (z/TPF GA).
TPUTC / tpf_tputc(), TGETC / tpf_tgetc()

- S98003 - Convert Software Build / Load to USS / HFS
 - ▶ was: Likely.
 - ▶ now: Accepted.

Status Changes

- S03002 - Prioritize CPU Dispatching
 - ▶ was: Likely.
 - ▶ now: Available (z/TPF GA).
High Priority TCP/IP Input Message Capability

- S03003 - Report Total & TPF LPAR CPU Utilization
 - ▶ was: Likely.
 - ▶ now: Accepted.

- S04001 - Ability to Load FCTB, RIAT & SIGT in NORM State
 - ▶ was: Likely.
 - ▶ now: Accepted.

Status Changes

- D04004 - NORM State Reallocation Processing
 - ▶ was: Likely.
 - ▶ now: Accepted.

- O00014 - Functional Entry Enhancements
 - ▶ was: Likely.
 - ▶ now: Available in part with z/TPF GA.
 - Display Core Address of a CINFC Tag
 - ZDSYS ALL Option
 - Display Level Usage with ZFECB

Status Changes

- A96001 - High Level Assembler Support for FLAG / NOCONT
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- A96006 - Stack Mechanism in TPF Assembler
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- L03001 - Enable Packaging of TPF Assembler Segments into DLMs
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- REQI517 - Resource Policeman
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S95001 - OPR Dump Processing Enhancements
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S97002 - Enhanced SMP Message Parsing
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- S98005 - 4K Global Record Support
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S99005 - Heap Storage Tape Read/Write
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S99009 - TPF DASD I/O Queuing Options
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- S99012 - SNAPC Macro Trace Display
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S00007 - CTL-4 Changes
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S00013 - LODIC Enhancements
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- S01005 - Implement Fast Link Macro Trace Facility
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S04003 - Increase Architectural Disk Limits
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- O03004 - CP Dumps with SYSDUMP=NO Need ZIDOT Override Option
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- D96004 - Increase Number of Globals Loaded in Extended Area
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- D96014 - Vendor Exits for Online Database Reorg
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- D97003 - Global Display / Alter Command
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

Status Changes

- D97004 - Keypointable & Syncable Header Stripped Records
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S01007 - Update Device Independent Reader to Read POSIX Files
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPF GA.

- S04002 - Deliver TPFDF PUTs in Same Format as non-TPFDF PUTs
 - ▶ was: Accepted.
 - ▶ now: Available with z/TPFDF GA.

Top Communications / Distributed Systems Requirements

1. DS01006 - HTTP Client
 - Likely.
2. DS04001 - FTP Client
 - Likely.
3. C03001 - Remove WGTA Dependency from MATIP Core Table Allocation
 - Likely.

There are a total of **5** requirements in this category.

Top Application / Languages Requirements

1. A04001 - SOAP Client Support on TPF
 - Likely.
2. A95003 - CASE Tool Enabling for TPF
 - Being removed from next ballot due to number of strike votes received.

There are a total of **2** requirements in this category.

Top Database Requirements

1. D04004 - NORM State Reallocation Processing
 - Accepted.
2. D04005 - File System Back-up & Restore Utility
 - Likely.
3. D04002 - TPFCS Collection / Datastore Analysis
 - Likely.

There are a total of **11** requirements in this category.

Top Development Tools Requirements

1. V04001 - Enhance the Performance Analyzer to Provide Additional Resource Utilization Data
 - Available with the Software Profiler in z/TPF GA.
2. V03001 - Provide Translation Tool to Convert Headers & DSECTs to XML
 - Likely.
3. V05005 - Toolkit: Provide Full HFS Access
 - Likely.

There are a total of **21** requirements in this category.

Top Control Pgm / Operations / Coverage Requirements

1. S04001 - Ability to Load FCTB, RIAT and SIGT in NORM State
 - Accepted.
2. O03001 - Enhance I/O Measurement Capabilities
 - Likely.
3. S99003 - Collect & Report Channel Utilization Data
 - Likely.

There are a total of **22** requirements in this category.

Top MQSeries Requirements

1. MQ05003 - Add Hostname Support for LOCALIP Field
 - Likely.
2. MQ04010 - Support for MQ Ping
 - Likely.
3. MQ04008 - Add Message User Exits
 - Likely.

There are a total of **17** requirements in this category.

Newly Available Requirements

- ***There are 37 Newly Available TPF and TPFDF Requirements***
- V05001 - Toolkit: PF5 Refresh
 - ▶ Available with TPF Toolkit V3.
- V05008 - Toolkit: RSE File Sort
 - ▶ Available with TPF Toolkit V3.
- MQ4016 - MQSeries: Provide Socket Buffer Usage Display
 - ▶ Available with PJ29938 on TPF4.1 PUT20.
 - ▶ Available with PJ30433 on z/TPF PUT01.

Newly Available Requirements

- V03005 - Debugger: Reject Invalid Program Type
 - ▶ Available with PJ30282 on TPF4.1 PUT20.
 - ▶ Available with PJ30559 on z/TPF PUT02.

- V03006 - Debugger: Inform Users of SNAP Dumps
 - ▶ Available with PJ30282 on TPF4.1 PUT20.
 - ▶ Available with PJ30559 on z/TPF PUT02.

- V03007 - Debugger: Inform Users of Pre-Trace Dump
 - ▶ Available with PJ30282 on TPF4.1 PUT20.
 - ▶ Available with PJ30559 on z/TPF PUT02.

Newly Available Requirements

- V03009 - Debugger: Add StepInto Registered Function
 - ▶ Available with PJ30282 on TPF4.1 PUT20.
 - ▶ Available with PJ30559 on z/TPF PUT02.

- V04001 - Enhance the Performance Analyzer to Provide Additional Resource Utilization Data
 - ▶ Available with z/TPF GA (Software Profiler).

- S96015 - Generic Tape Write for Application
 - ▶ Available with z/TPF GA.

- S03002 - Prioritize CPU Dispatching
 - ▶ Available with z/TPF GA.

Newly Available Requirements

- O00014 - Functional Entry Enhancements
 - ▶ Available in part with z/TPF GA.

- A96001 - High Level Assembler Support for FLAG / NOCONT
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Newly Available Requirements

- REQI517 - Resource Policeman
 - ▶ Available with z/TPF GA.

- S95001 - OPR Dump Processing Enhancements
 - ▶ Available with z/TPF GA.

- S97002 - Enhanced SMP Message Parsing
 - ▶ Available with z/TPF GA.

- S98005 - 4K Global Record Support
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Newly Available Requirements

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 - ▶ Available with z/TPF GA.

Newly Available Requirements

- S00013 - LODIC Enhancements
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- S01005 - Implement Fast Link Macro Trace Facility
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Newly Available Requirements

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- D97004 - Keypointable & Syncable Header Stripped Records
 - ▶ Available with z/TPF GA.

Newly Available Requirements

- S01007 - Update Device Independent Reader to Read POSIX Files
 - ▶ Available with z/TPF GA.

- S04002 - Deliver TPFDF PUTs in Same Format as non-TPFDF PUTs
 - ▶ Available with z/TPFDF GA.

Current Accepted Requirements - Accepted Spring 2005

- MQ4001 - MQSeries: Support for MQ Heartbeat
- MQ4002 - MQSeries: Shared Channel Support
- MQ4003 - MQSeries: Document Differences between TPF MQSeries & Other Platforms
- MQ4006 - MQSeries: Add Support for MQ SSL
- MQ4007 - MQSeries: Add Support for AdoptNewMCA for MQ Receiver Channels

Current Accepted Requirements - Accepted Fall 2005

- S98003 - Convert Software Build / Load to USS / HFS
- S03003 - Report Total & TPF LPAR CPU Utilization
- S04001 - Ability to Load FCTB, RIAT & SIGT in NORM State
- D04004 - NORM State Reallocation Processing
- MQ05005 - ZMQSC MIGRATE COMMIT by CPU

TPFDF and z/TPFDF Requirements

New Requirements from Spring 2005 Users Group

- No new requirements were submitted during the Spring 2005 conference.

Status Changes

- DF00172 - ZUDFM should provide a summary of DBDEF option bit settings
 - ▶ was: Accepted (z/TPFDF)
 - ▶ now: Available (z/TPFDF GA and TPFDF 1.1.3)
 - TPFDF 1.1.3 APAR is PK10080, planned for PUT 21

- DF00175 - status display for TPFDF Data Collection
 - ▶ was: Accepted (z/TPFDF)
 - ▶ now: Available (z/TPFDF GA and TPFDF 1.1.3)
 - TPFDF 1.1.3 APAR is PK10079, planned for PUT 21

Status Changes

- DF00159 - use keyblock only if more than 6 keys are defined
 - ▶ was: Accepted (z/TPFDF)
 - ▶ now: Available (z/TPFDF GA and TPFDF 1.1.3)
 - TPFDF 1.1.3 APAR is PK06268, planned for PUT 21
 - TPFDF 1.1.3 implementation uses a keyblock if more than 5 keys are defined

Status Changes

- DF00169 - allow user defined equates
 - ▶ was: Accepted (z/TPFDF)
 - ▶ now: Available (z/TPFDF GA)

- DF00171 - improve response from ZUDFM OAA
 - ▶ was: Accepted (z/TPFDF)
 - ▶ now: Available (z/TPFDF GA)

Top Requirements - Spring 2005 Voting

- DF00153 - TPFDF C++ API
 - ▶ Likely.
- DF00152 - TPFDF C API Improvements
 - ▶ Likely.
- DF00098 - TPFDF should support GDS
 - ▶ Not Likely.

Total of 51 TPFDF requirements (9 of the top 10 are *likely*)

Accepted Requirements

- DF00020 - TPFDF should provide improved error handling capabilities
 - ▶ Accepted Spring 2002

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