

## Traditional z/TPF database encryption (PJ47147)



- Automatic encryption of traditional find and file databases.
- Protect sensitive customer data at rest with no application changes and zero downtime.

## z/TPF IBM® MQ large message support (PJ48036)

64-bit IBM MQ queues now support message sizes as large as the architected IBM MQ maximum of 100 MB.

## Shared SSL enhancements for starting TLS sessions (PJ48040)



- Improved throughput when TLS sessions are started and reduction of memory resources when the system is flooded with TLS session requests.
- Benefits achieved without any application changes.

## z/TPFDF recoup and CRUISE statistics expansion (PJ48035)

Database statistics can continue to be accurately and meaningfully reported as database sizes grow.

## Bypass saving records in VFA for find processing (PJ48052)

Reduce the amount of VFA resources used by utilities that read a large number of records from DASD, which reduces the impact to transactional work that relies on VFA.

## z/TPF support for OpenTelemetry (PJ48032)

Your application performance monitoring (APM) tools now have end-to-end visibility for transactions that include processing on the z/TPF system. With this support, you can identify the cause of problems faster without impacting people resources on platforms that are not the cause of the problem.

## IBM Semeru Runtime® Certified Edition for z/TPF 21 (PJ48101)



- Support for IBM Semeru Runtime 21 features, including virtual thread support. Virtual threads can improve scalability for certain Java™ application workloads.
- Java startup time improvements.

## Custom Kafka headers support (PJ48074)



Use custom Kafka headers to easily add metadata and other information to your Kafka messages. With this support, Kafka producers and consumers can easily manage and access this extra information separately from the message data.

## z/TPF HTTP server support for HTTP/2 (PJ48022)



Reduces the number of sockets required when a large number of messages are exchanged between a remote client and the z/TPF system with no application changes.

## Runtime metrics collection (RTMC) enhancements (PJ47254, PJ48103, PJ48032, PJ47253, PJ46955, PJ48114, PJ48027)

- All continuous data collection (CDC) data types are viewable in RTMC dashboards.
- Transformation engine (TE) and general processor (GP) system level metrics are viewable in RTMC dashboards.
- Various usability improvements.

## Copy-on-write reduction for frequently entered programs (PJ48146)

Can reduce CPU overhead experienced when running C++ applications.

## Visual Studio Code and Git

Use the industry standard development tools Visual Studio Code and Git, along with IBM watsonx code assistants, a multivendor ecosystem of extensions, and your continuous integration (CI) and continuous delivery (CD) pipeline, to provide a similar development experience across platforms, including z/TPF.

## ECB heap performance improvements (PJ47265)

- Reduced overhead incurred by ECB heap routines, especially in threaded environments such as shared SSL or Java. No application changes required.
- Improved information for tuning ECB heap available list size parameters.



Transformation engines (TEs) are general processor (GP) engines that are available at a reduced cost to encourage z/TPF modernization, application extension, and integration with other IBM products.

## z/TPF support for MongoDB 8.0



- Enables distributed applications to use the latest versions of MongoDB client driver libraries, as well as new, more secure authentication mechanisms.
- Use network compression to reduce response times for large MongoDB messages.

## z/TPF enhanced HTTP client support for HTTP/2



Reduces the number of sockets required when a large number of HTTP messages are exchanged between a remote server and the z/TPF system with no application changes.

## ECB heap tuning enhancements

- Diagnostic improvements for ECB heap preallocated area.
- Separately tunable ECB heap available list sizes for shared SSL and Java.

## z/TPF anomaly detection support

- Quickly determine the cause of poor transaction response times to minimize impact on your SLAs.
- Proactively identify issues that could impact response times at higher transaction volumes.

## z/TPFDF performance and storage improvements

Read the same amount of data (or more) from a z/TPFDF subfile in a fraction of the time compared to today.

Easily accommodate database growth and reduce storage costs by storing more z/TPFDF data in significantly fewer physical records.



## Support multiple module copy and prime-duplicate comparison to run on more than one I-stream

Enable module copy and comparison utilities to run concurrently across multiple I-streams, which can reduce the total time spent recovering modules after failure or moving to newer hardware.

## z/TPF TCP/IP education

No charge online self-paced multimedia course that explains how z/TPF TCP/IP support establishes sessions, sends and receives messages, and manages TCP/IP memory structures for transactional workloads.

## Visual Studio Code extensions for z/TPF

Use z/TPF developer extensions for Visual Studio Code to build, test, and deploy z/TPF applications with simple user actions.

## Remote certificate monitoring

Alert z/TPF operators when TLS certificates for remote nodes that are needed to communicate with your z/TPF system are nearing expiration. With this support, you can make sure those certificates are renewed in a timely manner to avoid outages because of expired certificates.

## We're here to help!



Ask your client advocate how IBM can help with your modernization efforts.

## z/TPF support for IBM z17 Network Express adapters

Support higher speed networks more efficiently by using the IBM z17 Network Express adapters.



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