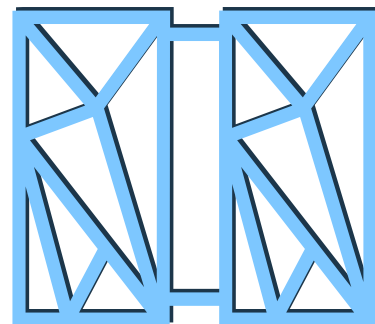


# Available Now

## Projects currently shipped and available on z/TPF



### **DF Encryption** TE Eligible

*Capability to automatically encrypt the z/TPFDF Database*

- Automatic encryption of data when at rest
- No application changes required
- No data base downtime required
- Data encryption occurs at database level to enable successful audits for compliance

### **Java Phase 1** TE Eligible

*Java™ Platform Standard Edition 8 now available on z/TPF. Develop new z/TPF service applications in Java or use existing third party Java programs.*

- Create new or extend existing z/TPF applications incrementally using Java without requiring any z/TPF knowledge
- Run any Java package, third party or open source, on z/TPF quickly
- Develop on laptop and deploy to z/TPF
- Attract new talent and enable immediate productivity in the z/TPF environment

### **High Speed Connector** TE Eligible

*Enables z/TPF application to send messages to servers in a more efficient way than heavier-weight middleware*

- Efficient communication between z/TPF and local servers
- Facilitate integration of z/TPF with hybrid-cloud environments
- Manage connections with the ability to change network topology without changing applications

### **REST Server** TE Eligible

*The defacto-standard way to expose z/TPF services to mobile and cloud applications*

- Reduces the amount of coding needed to REST-enable a service
- Standard tooling, based on OpenAPI, to quickly generate a REST service
- Use IBM API Connect to query for available REST services

### **DFDL Enhancements** TE Eligible

*Describes binary data in a standard and platform independent way to easily expose and consume data between systems*

- A standardized way of describing data
- Convert z/TPF binary data to XML/JSON on or off platform and vice versa
- A powerful translation tool that can be used in applications as well as heavily leveraged by z/TPF

### **MongoDB Enhancements** TE Eligible

*Enhancements to the standard MongoDB interface for clients to access the z/TPF DF data*

- Easy to define users and their authorizations using standard MongoDB administrator commands
- Better diagnostics for the z/TPF support of MongoDB

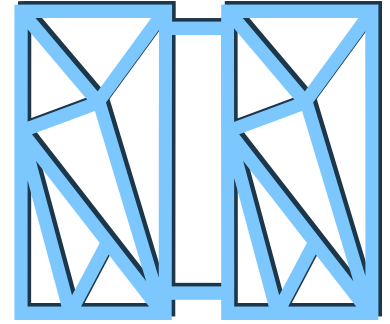
### **z/TPF Enhancements**

- Reduce the time to IPL z/TPF
- With fewer application changes necessary, instrumenting applications using ECB owner names becomes easier and therefore allows better understanding of resource consumption

For more information, visit [ibm.biz/tpfBlog](https://ibm.biz/tpfBlog)

# Moving Forward

Upcoming for z/TPF



## NVPC

*Provides insights about how z/TPF resources are being consumed*

- Identify system resource issues more quickly
- Understand the resource impact of code changes prior to deploying into production
- Track and charge based on resource use
- Predict resource impact of new workloads

## Dynamic CPU Capacity

*Allows a service provider to add CPU capacity without having an outage*

- Handle a sustained increase in workload without needing to take an outage
- Maximize CPU resources in a shared CPU environment
- Selectively run utilities even during peak volumes without impacting real-time transactions

## Java Phase 2

*Local Java™ applications can call existing business logic on z/TPF and continue to take advantage of z/TPF's scalability and response times*

- Can use Java anywhere in the z/TPF application stack
- Leverage existing z/TPF code with little z/TPF knowledge and no changes to the existing z/TPF application
- Monitor and receive alerts of abnormal conditions in the Java environment to quickly take corrective action

## IBM TPF Toolkit

*Eclipse-based IDE to develop and debug applications on z/TPF*

- Simplified installation mechanism - Unzip and go!
- Simpler to add Eclipse-based plug ins
- Improved reliability, availability, and usability
- Improved remote development via synchronized projects

For more information, visit [ibm.biz/tpfBlog](https://ibm.biz/tpfBlog)

## Do any of these projects interest you?

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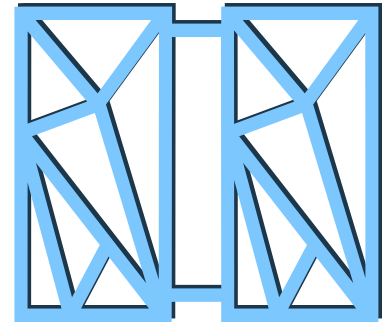
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# MongoDB

# Enhancements

Shipped



## Overview

Standard interface to access and update z/TPF data from other platforms

## Value

Easy to define users and their authorizations using standard MongoDB administrator commands. Now takes seconds when it used to take days

Logging added for an audit trail of data changes

Reduces complexity of application development

Better diagnostics for the z/TPF support of MongoDB for problem diagnosis, unit testing, etc.

## Learn More

Check out these posts about MongoDB on our z/TPF Blog

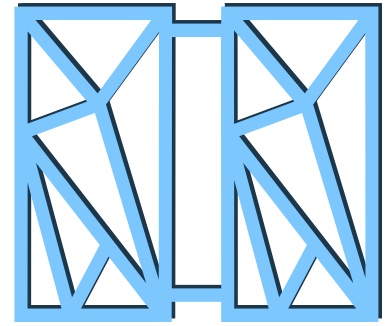


[Using MongoDB in your Java Applications on z/TPF](#)

[How to Use Logging for z/TPF Support for MongoDB](#)

# High Speed Connector

Shipped



## Overview

Highly optimized and simplified communication between z/TPF and local servers without need for heavy-weight and complex middleware

## Value

Efficient communication between z/TPF and local servers

Facilitates integration of z/TPF with hybrid cloud environments

Simplifies application development: Because z/TPF manages network topology details, the developer no longer requires this knowledge to send messages

Enables load balancing and dynamically adding capacity to servers without changing applications

Optimized for Linux OS on z Systems™

## Learn More

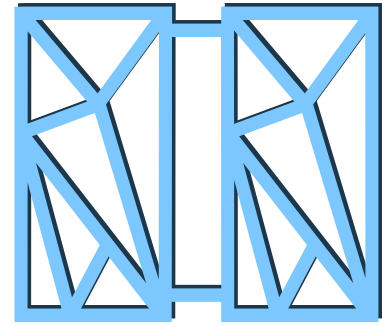
Read more about High Speed Connector in IBM's Knowledge Center



[High Speed Connector](#)

# Java Phase 1

## Shipped



## Overview

Java™ Platform Standard Edition 8 (Java SE 8) now available on z/TPF. Develop new z/TPF service applications in Java or use existing third party Java programs.

## Value

Create new or extend existing z/TPF applications using Java without requiring any z/TPF knowledge

Run any Java package, third party or open source, on z/TPF quickly

Integration with existing z/TPF programs to enable incremental modernization to be done in place; No need to re-write an entire application in Java

Leverage z/TPF strengths such as database and networking

Portability enables code to be developed and tested in any preferred Java development environment; Develop on laptop and deploy to z/TPF!

Attract new talent and enable immediate productivity in the z/TPF environment

## Learn More

Check out these posts about Java Phase 1 on our z/TPF Blog



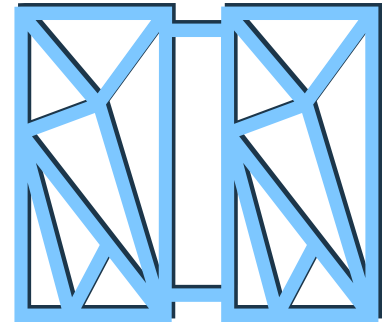
[z/TPF Support for Java is now available](#)

[Using MongoDB in your Java Applications on z/TPF](#)

[Sample Applications and Starter Kits for Java](#)

# DF Encryption

Shipped



## Overview

Capability to automatically encrypt the z/TPFDF Database

## Value

Automatic encryption of data when at rest; Includes data on disk and data cached in memory on z/TPF

No application changes required to enable support

No database downtime to set up or change encryption support

Data encryption occurs at database level to enable successful audits for compliance

Optional data integrity checking to detect accidental or malicious data corruption

Leverages highly efficient cryptography hardware

## Learn More

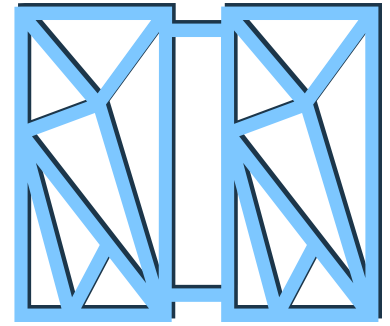
Check out this post about DF Encryption on our z/TPF Blog



[z/TPFDF Encryption Support](#)

# REST Server

Shipped



## Overview

Expose z/TPF services as REST APIs quickly using standard tooling which can then be easily consumed by mobile and cloud applications

## Value

Expose existing z/TPF services via REST as well as new services written in Java

Quickly generate a REST service using tooling based on Swagger / OpenAPI

Reduces the amount of coding needed to REST-enable a service by eliminating the need for user code to process HTTP, JSON, or XML

Easily generate REST client code needed to invoke services in any language that supports REST (C++, Java, Python, Perl, etc)

A developer can use IBM API Connect to query what REST services are available on a given z/TPF system for a given user

Attract new talent and enable immediate productivity in the z/TPF environment

## Learn More

Check out these additional links about REST server



[REST Support on Knowledge Center](#)

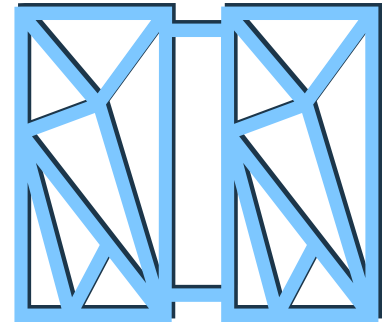
[Creating Native REST artifacts for z/TPF](#)

# DFDL

# Enhancements

Data Format

Description Language



## Overview

Describes binary data in a standard and platform independent way to easily expose and consume data between systems

## Value

A standardized way of describing data

Convert z/TPF binary data to XML/JSON on or off platform and vice versa

Integrated with new technologies on z/TPF such as Data Events, MongoDB, REST, and Java

A powerful translation tool that can be used in applications as well as heavily leveraged by z/TPF

## Learn More

Check out our z/TPF blog or read more about DFDL on our Knowledge Center

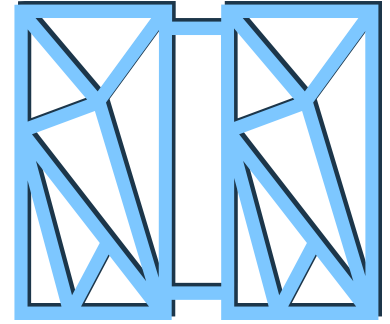


[DFDL on Knowledge Center](#)



# NVPC

## Name Value Pair Collection Futures



### Overview

Provides insights about how z/TPF resources are being consumed by application package, message type, and end user

### Value

A coverage programmer can quickly identify the cause of system resource issues

An application developer can understand the resource consumption impact of code changes prior to deploying into production

An IT provider can track and charge based on resource use

A capacity planner can better predict resource impact of new workloads or changes in usage of existing workloads

Not only are the possibilities endless, this can also be used in production with minimal impact

### Pre-requisite

Requires IBM Application Discovery Intelligence

**For more information, visit [ibm.biz/tpfBlog](https://ibm.biz/tpfBlog)**

### Do any of these projects interest you?

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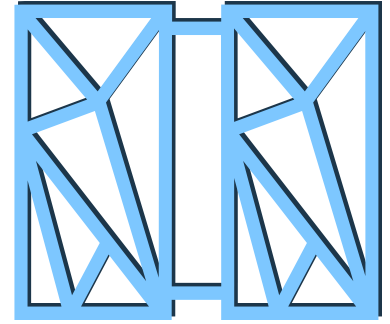
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# Java Phase 2

## Futures



### Overview

Local Java™ applications can call existing business logic on z/TPF and continue to take advantage of z/TPF's scalability and response times

### Value

Can use Java anywhere in the z/TPF application stack

Enables developers to leverage existing z/TPF code with little z/TPF knowledge and no changes to the existing z/TPF application

Java can read and make complex database updates locally

Monitor and receive alerts of abnormal conditions in the Java environment in order to take corrective action within five minutes

For more information, visit [ibm.biz/tpfBlog](https://ibm.biz/tpfBlog)

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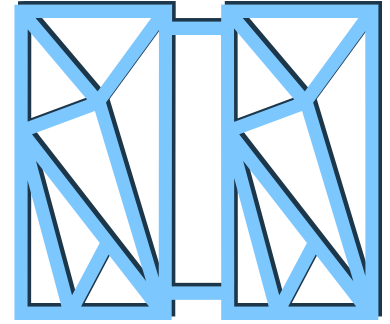
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# Dynamic CPU

## Futures



### Overview

Allows a service provider to add CPU capacity without having an outage

### Value

The IT provider can handle a sustained increase in workload without needing to take an outage

The IT provider can maximize CPU resources in a shared CPU environment

The IT provider can selectively run utilities even during peak volumes without impacting real-time transactions

For more information, visit [ibm.biz/tpfBlog](https://ibm.biz/tpfBlog)

### Do any of these projects interest you?

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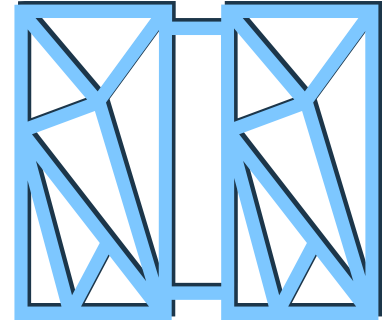
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# IBM TPF Toolkit

Futures



## Overview

Eclipse-based IDE to develop and debug applications on z/TPF

## Value

Simplified installation mechanism - Unzip and go!

Simpler to add Eclipse-based plug-ins

Improved remote development via synchronized projects

Can now use Eclipse C/C++ Development tools

Improved reliability, availability, and usability

For more information, visit [our Youtube channel](#)

## Want to get involved?

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