



WebSphere/TXSeries Integration with TPF

Highlights

- Distributed e-business applications sharing TPF data with transactional integrity
- Ability to process extraordinarily high volumes of e-business traffic and transactions
- Access to TPF applications and data from remote or distributed systems
- Provides the middleware to create decision enabling applications that can access TPF applications and data

WebSphere and TXSeries Integrate with the World's Fastest Transaction Processing System, IBM's TPF.

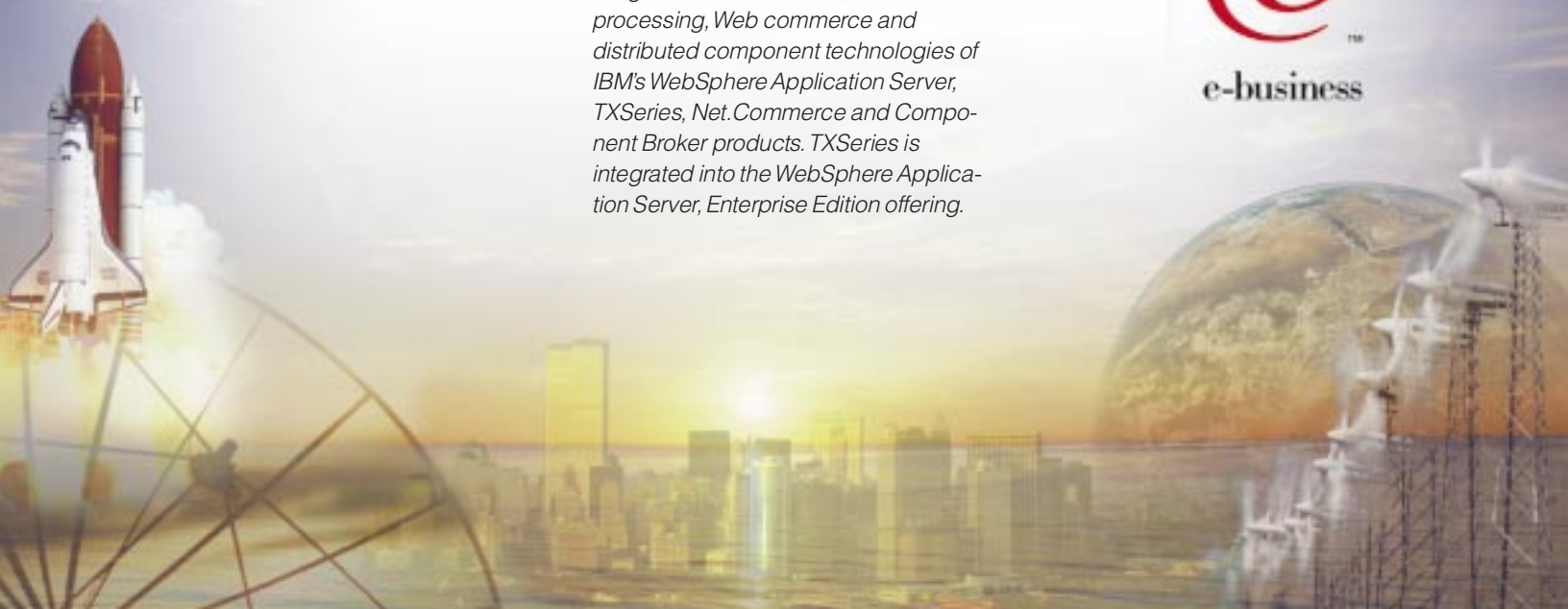
TPF (Transaction Processing Facility), the high end of IBM's Transaction Processing products, now joins IBM's Application and Integration Middleware (CICS®, IMS™, MQSeries®, TXSeries™, WebSphere™) in the world of e-business enablement.

In the distributed client/server arena, TPF's industrial strength, combined with the award-winning TXSeries (now integrated into IBM's WebSphere product family) creates an environment where transactions can flow across multiple systems, integrating mission-critical TPF applications with distributed applications. This integration allows for interchange of data with data integrity.

The expanded WebSphere family integrates the Web server, transaction processing, Web commerce and distributed component technologies of IBM's WebSphere Application Server, TXSeries, Net.Commerce and Component Broker products. TXSeries is integrated into the WebSphere Application Server, Enterprise Edition offering.

e-business Transactional Growth—Where It's Going and How To Get There

The Internet is causing explosive growth, with the majority of this growth today being read-only access to static data. The direction of Internet growth is toward a more interactive, "transactional" environment—an environment where people can do more real business (i.e. buy and sell goods) over the Internet. This dynamic e-business environment will require more critical, longer running transactions and the ability to update data with integrity.



According to Len Pelletiere, Director, IBM Global Travel Distribution Solutions, "The impact e-business will have on the industry and how services get delivered will be truly transformational. e-business already is demonstrating that it can be the catalyst in accelerating market change and global competitive advantages, and will soon account for a majority of the on-line transactions in many industries. To handle the resulting flood of electronic transactions, enterprise servers will need to handle thousands and thousands of transactions per second in a 24 x 7 mode with high performance and availability. TPF comfortably provides this level of capability and performance today, and its value proposition is now further enhanced by its integration with IBM's TXSeries and the WebSphere family of product offerings."

For the TPF customer, two key means of providing this interactive or transactional Internet access to TPF systems are available. One is TPF's integration with the Apache HTTP Web server and the second is using the WebSphere family or CICS products to create a three-tier e-business application for Internet access to TPF. Using WebSphere Application Server, Enterprise Edition allows distributed, UNIX® or Intel machines to have rapidly deployed e-business applications that are capable of accessing TPF applications and data and are capable of maintaining data integrity across the various platforms involved in a given transaction. Some transactions may need to span multiple platforms, not just one or two platforms, in order to provide the results to the Internet customer. Obviously the customer is unaware of all of the accesses and updates that WebSphere, in conjunction with TPF, is monitoring and ensuring. In a three-tier

environment with TPF, WebSphere Application Server, Enterprise Edition allows for the rapid deployment of scaleable e-business applications on industry-standard platforms and provides these applications with access to multiple "points" of data, or multiple databases.

"The powerful pairing of WebSphere—with its web-enabling capabilities—and TPF will allow users easier and quicker access from multiple platforms to real-time information," said William J. Reedy, Vice President, Business Integration and Enterprise Application Server Marketing, Application and Integration Middleware, IBM. "With WebSphere Application Server, Enterprise Edition and TPF, customers can capitalize on more e-business opportunities and become more competitive in the marketplace."

Decision Enabling—How WebSphere Can Help

TPF is a very high volume, high performance, transaction processing environment. The environment was designed specifically to meet the high volume, high performance and high reliability requirements of the TPF customers. Therefore, TPF customers often choose to create CPU-intensive applications, such as decision enabling, on other platforms around TPF. These applications collect data and then manipulate and query data for business analysis and decisions. With the ability for WebSphere Application Server, Enterprise Edition to access TPF applications and data, these decision enabling applications can be built on a variety of UNIX or Intel platforms, allowing customers to place these CPU intensive applications on a platform of their choice. The WebSphere product family will provide the tools for rapid application

development and for accessing TPF. At the same time, TPF will also be able to access WebSphere Application Server, Enterprise Edition so data and updates can flow in both directions.

This allows for the rapid deployment of scaleable applications in a three-tier, multi-platform, shared data environment. TPF serves as a peer system and WebSphere takes on the highly CPU-intensive applications, as well as managing database updates across multiple systems.

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Len Pelletiere, Director, IBM Global Travel Distribution Solutions

Connecting Businesses—How MQSeries Can Help

The MQSeries family of products, including MQSeries Integrator and MQSeries Workflow, provides the foundation for Business Integration solutions. Connectivity, between departments within enterprises or between enterprises, is provided by both the MQSeries client in TPF and the recently announced MQSeries Queue Manager for TPF. Both the MQSeries Client and the Queue Manager provide a connection between TPF and other systems, and allow applications on various systems to exchange information via asynchronous messaging. MQSeries provides the connection and assures delivery of the messages.

WebSphere and TPF Integration Rollout

Whether it's e-business, or simply the ability to share and update TPF data with other systems, WebSphere Application Server, Enterprise Edition can provide a means to do both. It allows for access to TPF systems today by providing SNA and MQSeries connectivity to TPF applications. WebSphere middleware can also be utilized in TPF and ALCS based transaction processing solutions which are built using IBM's A2CS (Advanced Application Communication System) and ACSA (Advanced Communication System Access) products.

Customers can use the MQSeries client currently available for TPF, and in the near future the MQSeries Queue Manager for TPF will be available for use. The MQSeries Queue Manager for TPF allows for queues to reside, and be managed, on TPF. It also provides a bridge into existing TPF applications, eliminating the need to make any related changes to these applications.

Additionally, over the next few years, IIOP and Java™ integration solutions will be incorporated. At the same time, appropriate transactional monitoring enhancements will be made to TPF. This will allow TPF to increase its participation in the direct monitoring and management of

transactions among various systems, and also provide various means of communications.

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WebSphere and TPF Integration—Service Offerings

IBM and its business partners offer a robust set of services to help customers get started with the integration of WebSphere Application Server, Enterprise Edition and TPF. IBM and its partners are offering a start-up package of services to assist you and to speed your integration efforts. Specialized consulting for any aspect of your integration effort is also offered, whether it be WebSphere family application development, communications skills, TPF skills, or any other skill necessary to help you succeed as rapidly as possible.

For More Information

To find out more about IBM Travel & Transportation solutions, IBM's TPF Operating Systems, IBM Application and Integration Middleware, and IBM e-business solutions, visit the following web sites:

<http://www.ibm.com/travel>,

<http://www.s390.ibm.com/products/tpf/tpfhp.html>,

<http://www.software.ibm.com/ts>,

<http://www.ibm.com/e-business>

Or for specific assistance, contact:

IBM Application and Integration Middleware

Barbara Ioris

(914) 642-6628

bioris@us.ibm.com

IBM Travel & Transportation (TPF)

Kathy Zuzeck

(301) 803-6087

zuzeck@us.ibm.com



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Marketing Communications, Servers
Route 100
Somers, NY 10589

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