

Prolifics' XMLink Universal Gateway™: Providing agile e-business for Tuxedo enterprises



Valuable legacy systems exist in practically all enterprises and are vital in a company's business and IT planning processes. How can enterprises capture a return on existing Oracle Tuxedo® (formerly BEA Tuxedo) investments while improving business applications and successfully managing risk?

Prolifics' XMLink™ and the XMLink Universal Gateway together provide the most practical approach to integrating vital business services, enabling organizations to transform and extend core applications.

Prolifics' XMLink Universal Gateway is designed to allow Tuxedo applications access to business services made available from IBM WebSphere® & IBM WebSphere MQ. Best of

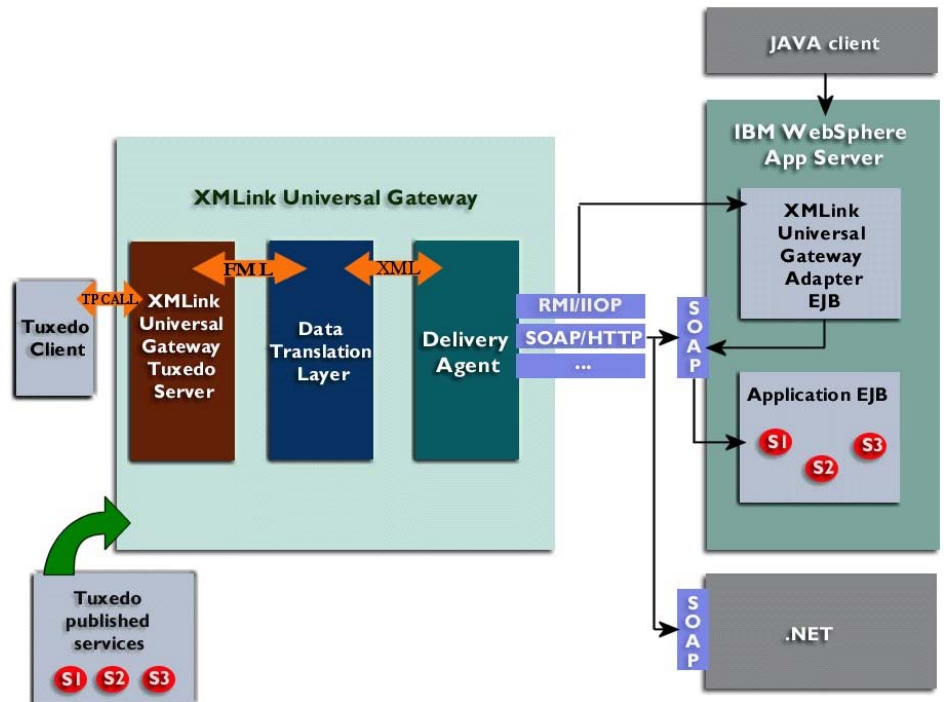
all the technology accomplishes this without having to change the Tuxedo programming paradigm or constrain WebSphere architects.

With the XMLink Universal Gateway enterprise systems can:

- ◆ Map Tuxedo services to J2EE-based services and provide bi-directional support within the two technologies
- ◆ Maintain the existing Tuxedo programming paradigm
- ◆ Support open, standards-based integration for accessing enterprise services from Tuxedo applications
- ◆ Benefit from a fully native Tuxedo server for a scalable architecture

"XMLink Universal Gateway presents our customers with quantifiable benefits. Companies may utilize XMLink Universal Gateway's bi-directional support to provide any time, anywhere access to event driven transactions. Companies can protect, extend and transform their existing investments with minimal risk." - Nicolas Jabbour, CEO Prolifics

SOLUTION TECHNOLOGY	XMLink Universal Gateway
BUSINESS BENEFITS	<p>Preserve existing investments</p> <p>Integrate disparate systems</p> <p>Respond to open standard requirements</p> <p>Expand market reach and build new partnerships</p>



XMLINK UNIVERSAL GATEWAY PROVIDES NATIVE ACCESS TO IBM WEBSHERE BUSINESS SERVICES FROM ORACLE TUXEDO APPLICATIONS.

Integrate Your Enterprise
Integrate Your Business
Integrate Your World

Prolifics
 A SEMANTICSPACE COMPANY



XMLink Universal Gateway Features:

- ◆ Open, standards based integration for accessing enterprise services from Tuxedo applications
- ◆ Fully native Tuxedo server for a scalable architecture
- ◆ Mapping of Tuxedo services to J2EE-based services enables current programming model to remain intact
- ◆ Data translation to open-standards XML format
- ◆ Delivery agent plug-ins allow for multiple transport protocols

Architecture:

The XMLink Universal Gateway is comprised of 4 major components. On the Oracle Tuxedo (formerly BEA Tuxedo) Server machine, the XMLink Universal Gateway is comprised of the XMLink Universal Gateway Tuxedo Server, the Data Translation layer, and the Delivery Agent. On the IBM WebSphere Server resides an XMLink Universal Gateway Adapter EJB. Together these components act as the interface for integration between enterprise information systems. Designed as plug-ins they can be adapted to support future systems and data formats.

XMLINK UNIVERSAL GATEWAY

Tuxedo clients make standard Tuxedo calls (eg – TP_CALL) to access the enterprise services in any component or language format such as Enterprise Java Beans (EJBs), Java classes and JCA Adapters to legacy systems. With XMLink Universal Gateway, the calls are represented in an XML-based definition language, Web Service Definition Language (WSDL) in which the enterprise service can be deployed as a Web service or any other artifact.

The XMLink Universal Gateway then publishes these Tuxedo services to a fully native Tuxedo Server, the XMLink Universal Gateway Tuxedo Server.

XMLINK UNIVERSAL GATEWAY TUXEDO SERVER

XMLink Universal Gateway includes a fully native Tuxedo server for a scalable architecture. The J2EE-based

services, presented by an XML-based configuration file, are now available to the client using the standard Tuxedo calling mechanism. The Universal Gateway then handles the marshaling and unmarshaling of data between native Tuxedo buffer types and native J2EE data types.

DATA TRANSLATION

The Data Translation plug-in transforms the Tuxedo buffer construct (eg – FML) to a self-describing XML-based output. The XML-based service information can be transported to WebSphere using a variety of industry standard transport protocols, such as RMI/IIOP or SOAP/HTTP. Other protocols to be supported include JMS/WebSphere MQ and JNI.

DELIVERY AGENT

The Delivery Agent plug-in provided with the XMLink Universal Gateway controls how the data is transported and invokes the appropriate enterprise services listener. For example, the Delivery Agent transporting SOAP over HTTP would invoke the corresponding business service by the SOAP listener.

XMLINK UNIVERSAL GATEWAY ADAPTER EJB

When transporting RMI over IIOP, the Delivery Agent invokes the XMLink Universal Gateway Adapter EJB. The XMLink Universal Gateway Adapter EJB then captures the request and forwards it via the SOAP invocation framework—an XML configuration file that maps Tuxedo services to the enterprise services.

For more information, contact:

Prolifics Customer Relationship Management Department:

(800) 458-3313 or (212) 267-7722
Email: crm@prolifics.com

London office: 44-208-296-1946
Hamburg office: 49-40-890 66770

Visit us at: www.prolifics.com

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About Prolifics™

Prolifics, a JYACC company, provides e-business solutions to companies around the globe. As 1 of 3 worldwide WebSphere Service Providers retained by IBM, Prolifics leverages knowledge experts to deliver high performing enterprise systems for leading customers in finance, telecommunications, healthcare, government, and manufacturing industries. We architect and implement winning technology solutions that enhance your current investments and ensure your project success.

Prolifics has offices throughout America and Europe and possesses over twenty years experience in solving business problems with technology solutions for a diverse list of well-known solutions. Prolifics has an industry-high 96% success rate of delivering systems on-time and on-budget.

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