

Traffix and IBM BladeCenter – NGN Gateway for Telecom Service Providers



Highlights

- ***Traffix enables service providers deploying NGN services to lower costs and accelerate their time to market***
- ***The Traffix Rosetta Gateway offers unified service layer to both legacy and NGN subscribers***
- ***IBM BladeCenter family provides a scalable, open standards based platform for next generation network applications***

Telecommunications service providers find that they are navigating a challenging landscape as they seek new ways to deliver revenue producing services. Many are deploying new advanced next generation multimedia services, such as Mobile Video Messaging, Location Based Services, Mobile TV and a variety of dynamic SIP and VoIP services. These new services require service providers to deploy a new, advanced, IP-based, Next Generation Network (NGN) infrastructure. This migration to NGN has many service providers seeking a solution to help them bridge their legacy PSTN networks with their new NGN infrastructure.

As the NGN infrastructure continues to evolve, new protocols are being introduced to address emerging NGN requirements. One such protocol, the Diameter protocol, is a networking protocol for AAA (Authentication,

Authorization and Accounting) and is the successor to RADIUS. The Diameter protocol has become the NGN Control Plane protocol of choice and been adopted by nine standard bodies including 3GPP, 3GPP2, ETSI-TISPAN, CableLabs, MSF and WiMax Forum. However Diameter is not backward compatible with legacy networks control signaling protocols such as RADIUS, LDAP, XML and HTTP creating a need by service providers to bridge functionality and services across their new NGN and their existing legacy network.

In addition, the implementation and use of the Diameter protocol varies by provider, network and application. As service providers migrate to a converged network (e.g. wireless and wireline together), many struggle with different versions or variant of the Diameter implementations. This can compound the challenges of implementing a converged network while increasing their time to market and associated implementation costs.

The Traffix Rosetta Control Plane Gateway

The Traffix Rosetta Gateway is an NGN Control Plane connectivity solution that can help address many of these issues. The Rosetta Gateway enables service providers to lower costs and decrease time-to-revenue. The Rosetta Gateway enables service providers also to cap

“The Traffix Rosetta Gateway is well matched to the IBM WebSphere environment and SOA lifecycle in its ability to offer control plane connectivity solution that can close track operator requirements, both now and in the future.”

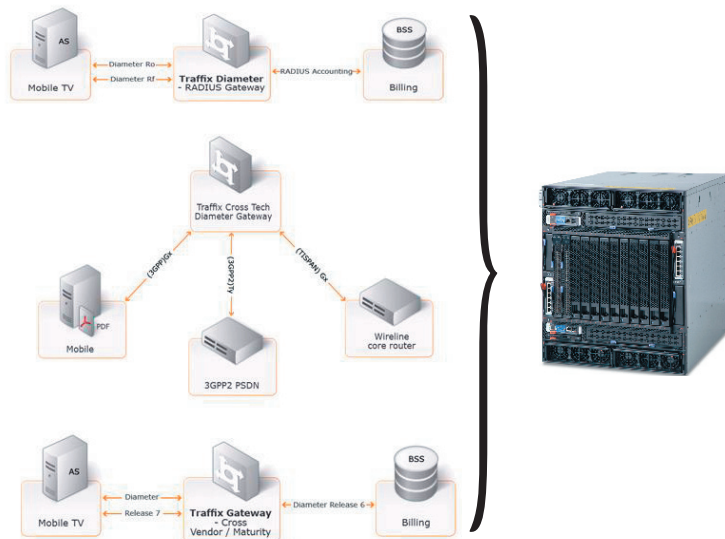
— Lenny Ridel
 Chief Technology Officer
 Traffix

their investments in legacy technology, providing a method to use both Legacy services and new services simultaneously. The Rosetta Gateway allows service providers to launch NGN services cutting launch time by up to 75%.

By using IBM WebSphere Application Server, the Traffix Rosetta Gateway is able to take full advantage of J2EE capabilities and IBM SOA model, assemble and deploy approach. This allows delivering highly efficient and reliable carrier-grade solution that enables service providers address their NGN migration challenges and significantly reduce the service time to market.

Traffix Rosetta Gateway is integrated and tuned for the IBM WebSphere environment and SOA lifecycle which offers flexibility and high performance that can meet the demanding requirements of service providers. This is achieved through extensive use of various business processes and transformation mechanisms available in WebSphere that enable Traffix Rosetta Gateway to connect and map the signaling between existing legacy and newly deployed NGN based services or to maintain a unified converged cross technology network.

Rosetta Diameter Gateway running on the IBM BladeCenter HT



Source: Traffix

“Running on the IBM BladeCenter, the Traffix Rosetta Gateway provides the ideal solution for deployments that demand the highest performance as they grow.”

*— Lenny Ridel
Chief Technology Officer
Traffix*

**IBM BladeCenter family —
the IT and network convergence platform**

The IBM BladeCenter T chassis provides hardware redundancy (power supply, I/O modules, management modules, L2 switching, mid-plane, etc.) thereby reducing potential points of failure in the solution.

The IBM BladeCenter is an advanced blade system which integrates servers, storage and networking into a single chassis — yielding significant simplification, improved density and potential TCO savings. A single family of common server blades, storage, I/O, switches and networking modules are fully supported and interchangeable across the family of BladeCenter chassis. The IBM BladeCenter chassis is designed as the ideal solution for data center deployments. The IBM BladeCenter H is for high performance computing platform, while the IBM BladeCenter T chassis is specifically designed for telecom central office deployments.

The new, IBM BladeCenter HT — a new, telecom optimized version of the BladeCenter H — opens new market opportunities with a new and powerful NGN platform ideally suited for telecom equipment and service providers.

The IBM BladeCenter T and BladeCenter HT deliver rich telecommunications features and functionality, including fault-tolerant capabilities, hot-swappable redundant DC or AC power supplies and cooling, and built-in systems management resources. The rigorous Network Equipment Building System (NEBS) Level 3 and European Telecommunications Standard Institute (ETSI) outline requirements typical of telecom central office environments in the areas of electromagnetic compatibility, thermal robustness, fire resistance, earthquake and office vibration resistance, transportation and handling durability, acoustics and illumination, and airborne contaminant resistance. The IBM BladeCenter T and BladeCenter HT chassis meet the NEBS Level 3 / ETSI requirements¹.



Traffix and IBM:

a powerful combination

The combination of Traffix and the IBM BladeCenter family delivers the performance, reliability and affordability demanded by mission critical telecommunications applications. The IBM BladeCenter is the ideal platform for the deployment of these services providing a single platform to help reduce operating costs and complexity.

For more information

Learn how IBM Systems can help your company achieve more revenue and reduce your costs, while helping you keep your profitable customers.

Have questions? Contact the IBM Telecommunications team today on how we can help you take advantage of our extensive industry expertise. Please visit us on the web at:

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For more information about Traffix, visit:

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[1] For additional details, please refer to Underwriter's Laboratory (UL) certified NEBS Level 3 / ETSI test report.

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