IBM

IBM WebSphere Edge Appliance XE82

Product Positioning

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The following presentation addresses the IBM WebSphere Edge Appliance XE82 Product Positioning.

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DataPower Strategic Themes

Enhanced SOA
Governance

Converged
Security

Operational
Management

Database

RAS
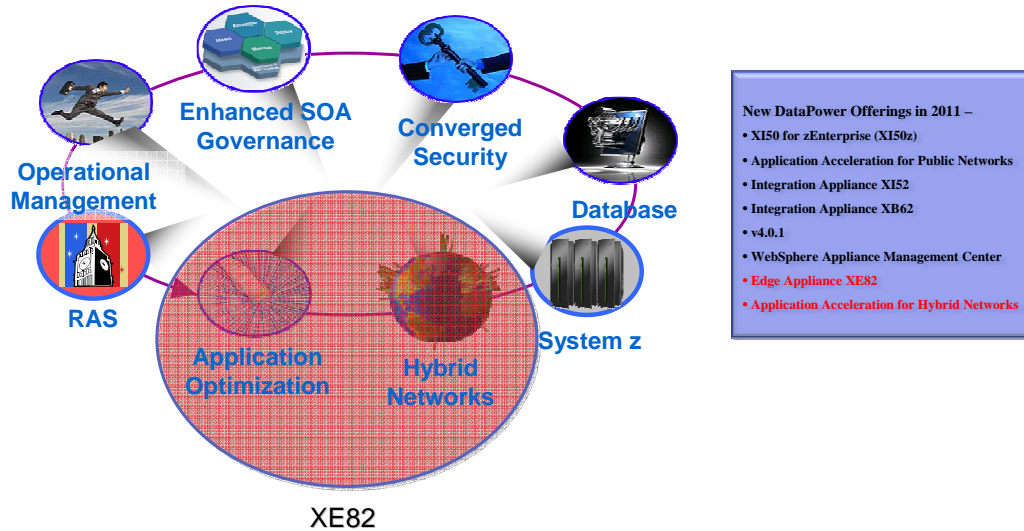
New DataPower Offerings in 2011 –
• XI50 for zEnterprise (XI50z)
• Application Acceleration for Public Networks
• Integration Appliance XI52
• Integration Appliance XB62
• v4.0.1
• WebSphere Appliance Management Center
• Edge Appliance XE82
• Application Acceleration for Hybrid Networks

Application
Optimization

Hybrid
Networks

System z

XE82

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In 2011, WebSphere DataPower is pursuing eight strategic themes that continue to advance our twelve years of innovation in purpose-built integration functionality. This presentation will focus on the two themes "Application Optimization" and "WAX" for WebSphere Application Acceleration. As you might know, Application Optimization is the name of one of the most popular add-on options to the DataPower Integration Appliance (XI) family of products. It provides self-load balancing of a DataPower cluster and intelligent back-end load balancing functions tied to the advanced WebSphere Application Server stacks and other capable application servers. We'll talk about the broadening of the Application Optimization theme to include "Edge of Network" functions in the new DataPower Edge Appliance XE82. The term "WAX" refers specifically to two new services that are part of the WebSphere portfolio: WebSphere Application Accelerator for Public Networks (WAXPN) and WebSphere Application Accelerator for Hybrid Networks (WAXHN). These two groundbreaking WebSphere offerings are services in the Internet that work in conjunction with DataPower appliances to greatly enhance the performance, availability, and security of Internet-facing applications, that is the Web applications and APIs that are driving the newest and most valuable innovations today.
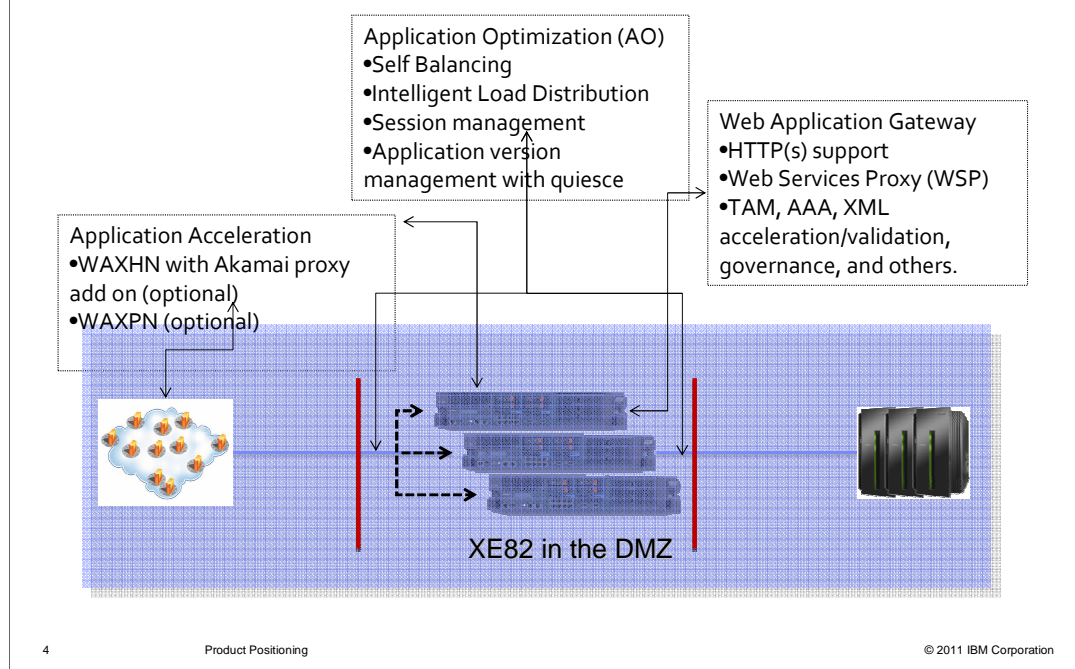
DataPower XE82

- Core value proposition:
  - Consolidates application delivery and security function into a purposed, network-resident, application-fluent appliance
    - Provides new Web Application Gateway (WAG) service and
    - Web Services Proxy (WSP),
      - HTTP and HTTPs protocol support
      - Includes Application Optimization (AO), Tivoli Access Management (TAM), AAA, and other features.
  - Designed as Edge appliance for DMZ deployment
- 2U Form factor
- Provides the foundation for WAXHN/WAXPN managed services for Internet acceleration and security

Enterprise Web Presence

DMZ

XE82

DMZ

Cloud Services

rnet/Mobile users
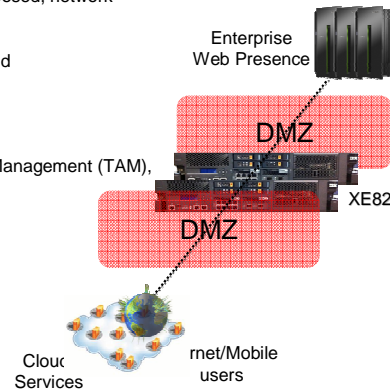
The newly introduced IBM WebSphere DataPower XE82 appliance consolidates application delivery and security function into a purposed, network resident, application fluent appliance. The XE82 provides a new Web Application Gateway (WAG) service for web applications. It also includes the Web Service Proxy service that is available in other DataPower Appliances. Together, these two services provide significant functionality to validate, verify, authenticate, authorize, accelerate, secure and balance web application and web services traffic.

The XE82 supports HTTP and HTTPs protocols and comes with Application Optimization (AO) as a standard feature. The appliance is a 2U form factor and provides the foundation for WAXHN/WAXPN add-on services.
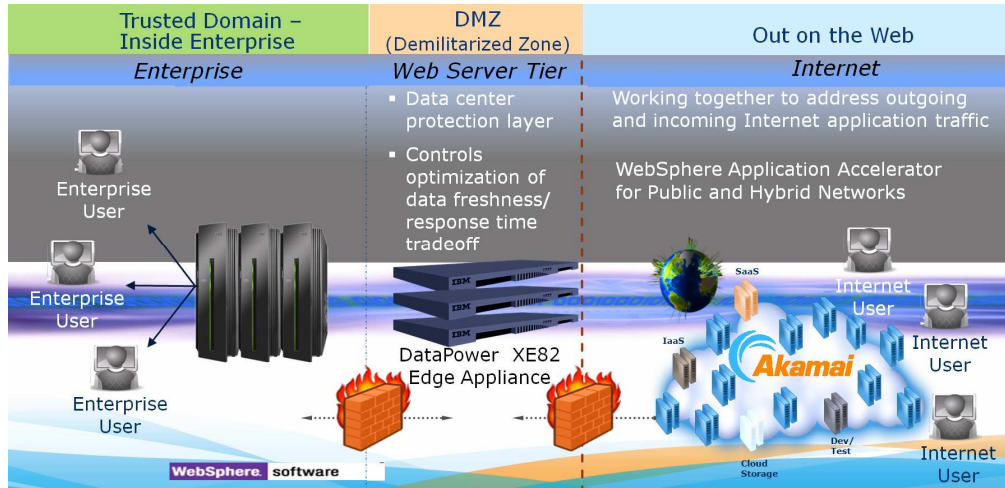
DataPower XE82 key features/capabilities :

Application Optimization (AO)
•Self Balancing
•Intelligent Load Distribution
•Session management
•Application version management with quiesce

Web Application Gateway
•HTTP(s) support
•Web Services Proxy (WSP)
•TAM, AAA, XML acceleration/validation, governance, and others.

Application Acceleration
•WAXHN with Akamai proxy add on (optional)
•WAXPN (optional)

XE82 in the DMZ

The DataPower XE82 appliance is generally deployed in the DMZ to accelerate and improve security for web applications and cloud services. Two or more XE82 appliances can be deployed for high availability and scalability. The standard Application Optimization functions provide self balancing to distribute incoming loads across the group of appliances with fail over. Other features include:

-Intelligent load distribution

-session management

-application version management with quiesce

-authentication, authorization, auditing (AAA)

-WAXPN (optional add on service)

-And WAXHN (optional add on service)

Comparing the DataPower XE82 edge appliance to the XS40 and XI50, the XE82:

-Leverages the 2U 7199 form factor

-supports HTTP and HTTPs protocols

-provides XML/Web Services acceleration and validation

-provides TAM and Application Optimization as standard features

-supports both WAXPN and WAXHN (XE82 only) optional services

The graphic displays the full end-to-end use cases for the DataPower XE82 Edge appliance. The XE82 is deployed in the DMZ acting as a gateway for Web applications and Web services. The XE82 provides self balancing with failover, intelligent load distribution to backend application servers, acceleration, offload, authentication/authorization, governance and many other key features.

With the optional WAXHN and WAXPN add-on services, this can be extended to accelerate and secure cloud services and web applications through the Internet.

See WAXHN and WAXPN presentations for further details.

Additional Information

- IBM Application Acceleration Solutions
  http://www.ibm.com/software/websphere/products/application-infrastructure/application-acceleration/index.html

- WebSphere Application Accelerator for Public Networks:
  http://www.ibm.com/software/products/lk/en/waxpn/

- IBM DataPower XE82
  http://www.ibm.com/common/ssi/rep_ca/7/897/ENUS111-097/ENUS111-097.PDF

- WebSphere Application Accelerator for Hybrid Networks
  http://www.ibm.com/common/ssi/rep_ca/7/897/ENUS211-167/ENUS211-167.PDF

See the provided links for additional information.

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