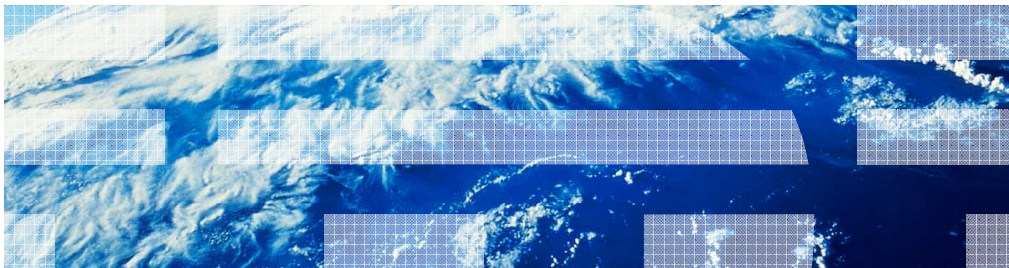




WebSphere DataPower Edge Release 1.0.0 Product Differences: XE82 versus XS40



WebSphere software

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This presentation reviews the differences between the XS40 and the new DataPower Edge product XE82.

Agenda

Overview of Changes

Removed Features

New Features

Supported Software

This presentation provides an overview of the differences between the XS40 and the XE82. The presentation covers the features present in the XS40 that are not in the XE82, the features in the XE82 that are not available in the XS40, and the software supported.

Agenda

Overview of Changes

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The first section provides an overview of the changes.

Overview

- The Edge Appliance (XE82) is designed to allow the acceleration of web applications while the appliance is located at the edge of the network.
- XE82 includes many of the same features of the XS40
- Overview of changes:
 - XML Firewall and XSLProxy are not present in the XE82
 - Addition of new managed service for application acceleration
 - New status providers for new service
 - New actions associated with new service

The Edge XE82 product is built from the same DNA as the other DataPower appliances including the XS40 and XI50. Services not necessary for managing the acceleration of web applications on the hybrid networks are not included in the XE82. New services, status providers, and actions were created for the XE82 to improve application acceleration and DMZ presence.

Agenda

Overview of Changes

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Next, we will discuss features that are in the XS40 that are not in the XE82.

Removed Features

- XML Firewall
- Web Application Firewall
- XSL Accelerator
- MultiProtocol Gateway
- Web Service Monitor
- Stateless Raw XML Handler
- Count and Duration Message Monitor
- FTP File Poller
- NFS File Poller
- HTTP Server
- FTP Server
- TCP Proxy
- SSL Proxy
- XTC Protocol Handler
- Power Sensors Status

This is the list of features that are present in the XS40, but are not included in the XE82 appliance.

Agenda

Overview of Changes

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Next, we will discuss the Features that have been added specifically to the XE82 to improve its capabilities in application acceleration.

New Features

- Web Application Gateway (WAG)
- WebSphere Application Accelerator for Hybrid Networks (WAXHN)
 - WAXHN Application Proxy
 - WAXHN Application List
 - WAXHN Administrative Actions
 - Cache Management
 - Application Metadata Updates
 - WAXHN Status Providers

Here is a list of the new features developed for the XE82. The features include a new service, Web Application Gateway, and new WAXHN objects, actions, and status providers.

We will take a closer look at each of these new features.

Web Application Gateway (WAG)

- Similar to the MultiProtocol Gateway service except:
 - Transactional traffic is limited to HTTP and HTTPS protocols
 - Enables users to set the backend server to be the virtual hostname in a WAXHN (WebSphere Application Accelerator for Hybrid Networks).
- New icon in control panel for WAG:



The new service, the Web Application Gateway, is similar to the MultiProtocol Gateway except that its transactional traffic is limited to HTTP and HTTPS. The Web Application Gateway enables users to set the backend server to be the virtual hostname in a WAXHN. A new icon for this service has been added to the control panel.

WAXHN Application Proxy

- Configuration object used to:
 - Download the WAXHN software onto the appliance's RAID volume
 - Activate the WAXHN software
 - Specify properties associated with the WAXHN cache:
 - RAID array used to store the cache
 - Maximum cache size

The WAXHN Application Proxy is used to download and activate the WAXHN firmware.

WAXHN Application List

- Specifies the applications accelerated as part of the WAXHN
- Lists these properties for the accelerated applications:
 - Virtual Host Name
 - Application Type
 - Entitlement Code
 - Certificate of Authority (for third-party applications)
- New icon in control panel for the WAXHN Application List:



The WAXHN Application List is configured by the user to specify the applications that are to be accelerated as part of the WAXHN. A new icon for accessing this list has been added to the control panel.

WAXHN Administrative Actions

- Cache
 - Cache Search (CLI: waxhn-cache-search)
 - Cancel Cache Search (CLI: no waxhn-cache-search)
 - Cache Purge (CLI: waxhn-cache-purge)
 - Cancel Cache Purge (CLI: no waxhn-cache-purge)
 - Clear Cache and Restart (CLI: waxhn-reset-cache)
- Reset Statistics Counters (CLI: waxhn-reset-app-stats)
- Update Application (CLI: waxhn-update-metadata)

Administrative actions for managing the cache used by the WAXHN firmware as part of the acceleration process have been included in the XE82 product. These actions allow users to search the cache, purge items from the cache and clear the cache. Actions for resetting statistics counters and for updating the application metadata have also been included.

WAXHN Status Providers

- WAXHN Application Status:
 - Lists the WAXHN accelerated applications and their status.
 - Status information includes:
 - Amount of data from origin to proxy
 - Amount of data from proxy to client
 - Amount of data obtained from cache
 - # of transactions
 - # of transactions served from the cache
- WAXHN Cache Items
 - Displays the cache items retrieved by the current cache search
- WAXHN Purge Status
 - Displays the status of the running cache purge and all the queued purge requests

New status providers are included in XE82 that enable users to view the status of accelerated applications, the status and results of a cache search, and the status of purge actions.

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The next topic is “Supported Software”.

Software Supported in XE82

- Standard software features enabled by default:
 - Application Optimization (AO)
 - Tivoli Access Manager (TAM) 6.1
- No other licensed features are currently available

Application Optimization and Tivoli Access Manager 6.1 appliance features come standard with the XE82. No other licensed features are currently available.



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