



IBM WebSphere DataPower XC10 Appliance firmware V2.5 delivers a comprehensive, flexible, and easy-to-use caching solution for your business-critical applications

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At a glance

DataPower® XC10 Appliance firmware V2.5 offers an innovative, pragmatic approach to harness the power of distributed caching as a complete, purpose-built, and easy-to-use solution. This updated firmware can help you take advantage of the value of your existing infrastructure investments.

DataPower XC10 Appliance firmware V2.5 offers:

- Enhancements to grid rebalancing capabilities for regular hardware maintenance or unexpected failover events
- Support for the latest versions of WebSphere® Application Server, including V8.0, V8.5, and V8.5.5, with the new Liberty profile
- Session state store provider for use with Active Server Pages (ASP) .NET applications
- Integration with WebSphere Portal and WebSphere Commerce dynamic cache service, making content available in centralized location and available on server startup to help increase efficiency
- New eXtreme Scale UI message center to aid in event notification and understanding of the current state of the grid
- Support for two phase commit transactions
- Dynamic cache use case for multi-master replication deployments
- Improvements to security administration

Overview

IBM® WebSphere DataPower XC10 Appliance is a purpose-built, easy-to-use appliance designed for simplified deployment, exceptional performance, and hardened security at the caching tier of your enterprise application infrastructure. It adds distributed caching functions to the IBM DataPower line of appliances, helping you scale your business-critical applications cost effectively with consistent performance.

DataPower XC10 Appliance firmware V2.5 offers:

- Rapid drop-in use across a broad range of application server technologies and programming languages, which can lower deployment time of an elastic data grid to realize a positive impact to your bottom line

- Enterprise-wide data grid support with the WebSphere eXtreme Scale Client for .NET applications
- New data format, eXtreme Data Format (XDF), which improves performance and enables data to be shared natively between Java™ and .NET applications
- Built-in notification infrastructure enables client-side event notification, continuous query cache and near-cache invalidation, which can increase application performance and benefits user application experience
- Configuration importing and exporting for ease of administration of appliances and collectives
- Support for FIPS security protocol for government and financial sector compliance
- New eXtremeIO transport protocol option, which enables faster transactions and removes client dependence on the Java Object Request Broker (ORB)
- Improvements to usability, serviceability, monitoring, and administration capabilities

DataPower XC10 Appliance can offer the following benefits for consistent and predictable performance of your business-critical applications:

- Common distributed caching scenarios with few or no code changes to existing applications
- Ability to quickly and easily increase cache capacity and throughput as needs grow
- Simple, flexible user management interface for monitoring and administration
- Fault tolerance for higher user satisfaction, faster task completion, and increased e-commerce conversion rates
- Data replication between grids located virtually anywhere for optimum failure recovery

Key prerequisites

None

Planned availability date

- June 14, 2013: Firmware V2.5 available on IBM WebSphere DataPower XC10 Appliance website
- July 19, 2013: Firmware V2.5 shipped with WebSphere DataPower XC10 Appliance

Description

DataPower XC10 Appliance V2.5 is designed for simple installation and use within a broad context of environments, including deep integration with WebSphere Application Server V7.0, V8.0, V8.5, and V8.5.5, as well a simple support for non-WebSphere Application Server and non-Java environments through Representational State Transfer (REST) APIs. DataPower XC10 Appliance has fault tolerance and a large 240 GB cache that can help achieve better performance and scalability than the dynamic cache service of WebSphere Application Server.

Updated DataPower XC10 Appliance firmware V2.5 offers:

- **Enterprise-wide elastic data grid solution:**
Offers serialization of Java and .NET objects to the grid in a common format that allows sharing of data across different application types.

- **Improved performance:**
 - Supports an optimized transport protocol (eXtremeIO) and eXtreme Memory (XM) to take data storage outside the Java heap for more consistent performance.
 - Offers fast start for large numbers of partitions.
- **Improved monitoring:**
 - Includes a new Message Center for enhanced ability to manage product alerts.
 - Offers real-time information on the status of appliance and collective health.
- **Enhanced security:**

DataPower XC10 Appliance firmware V2.5 supports FIPS protocol for government and financial sector compliance.
- **Improved administration:**
 - Configuration export and import features for backup, restoration, and reuse of appliance and collective configuration
 - Expanded startup progress reporting gives you more detailed appliance status for configuration changes or maintenance
- **New built-in notification infrastructure:**

DataPower XC10 Appliance firmware V2.5 includes client-side event notification, a continuous query cache, and near-cache invalidation.

For additional information on DataPower XC10 Appliance, visit

<http://www.ibm.com/software/webservers/appserv/xc10>

DataPower XC10 Appliance V2.5 firmware enhancements are compatible with the DataPower XC10 Appliance V1.0 and V2.0 hardware configurations. DataPower XC10 Appliance V2.5 firmware can be downloaded after June 14, 2013, from the IBM support website at:

http://www.ibm.com/support/entry/portal/Overview/Software/WebSphere/WebSphere_DataPower_XC10_Appliance

For information on WebSphere DataPower XC10 Appliance V2.1, refer to Hardware Announcement [112-075](#), dated April 24, 2012

For information on WebSphere DataPower XC10 Appliance V2.0, refer to Hardware Announcement [111-043](#), dated April 5, 2011 .

For information on WebSphere Application Server V8.5 and WebSphere Application Server Liberty profile, refer to Software Announcement [212-109](#), dated April 24, 2012 .

For additional information on Application Infrastructure, visit

<http://www.ibm.com/software/products/us/en/category/SW600>

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

The DataPower XC10 Appliance complements the WebSphere Application Server family of products. It delivers a distributed caching platform for WebSphere business applications and can run with WebSphere Application Server V7.0, and later. The DataPower XC10 Appliance enables a simple network-attached cache supporting more sophisticated caching scenarios where logic and data are co-located as

compared to the IBM caching platform software offering, WebSphere eXtreme Scale. The DataPower XC10 Appliance and WebSphere eXtreme Scale can be used with solutions such as IBM Business Process Management and WebSphere Message Broker to support high volumes of business events flowing through your enterprise.

The DataPower XC10 Appliance firmware V2.5 offers excellent value for your business-critical web applications that:

- Need to offer automatic failover of web sessions
- Cannot tolerate session failures that result in lost revenue and user satisfaction problems
- Use the WebSphere Application Server dynamic cache service included with WebSphere Portal and WebSphere Commerce
- Require better performance and scalability of your caching investment
- Need faster task completion and increased e-commerce conversion rates

Examples include:

- E-commerce sites where the session is a shopping cart or whose performance gets worse as transaction volumes grow
- Web sites that cache catalog data, master data, or user profiles
- Enterprise applications that access multiple systems
- WebSphere V8.5 developers taking advantage of the new lightweight Liberty profile who need caching capabilities with their applications
- WebSphere Portal or WebSphere Commerce applications that require scalability beyond what embedded dynamic cache service can offer
- Cloud deployments with IBM Workload Deployer or IBM PureApplication™ System requiring additional external caching services
- WebSphere DataPower XI50 and XI52 users requiring additional near-cache capabilities

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=113-061>

Reference information

For information about WebSphere DataPower XC10 Appliance V2.1, refer to Hardware Announcement [112-075](#), dated April 24, 2012

For information about IBM WebSphere DataPower XC10 Appliance V2.0, refer to Software Announcement [111-043](#), dated April 5, 2011 .

For information about IBM WebSphere DataPower XC10 Appliance Support Registration, refer to Software Announcement [211-136](#), dated April 5, 2011 .

For information about WebSphere eXtreme Scale, refer to Software Announcement [212-370](#), dated October 2, 2012 .

For more information on IBM Workload Deployer V3.1, refer to Hardware Announcement [111-202](#), dated October 4, 2011 .

For more information about IBM PureApplication System W1500, refer to Software Announcement [212-117](#), dated April 11, 2012 .

For more information about IBM PureApplication System W1700, refer to Software Announcement [213-091](#), dated February 5, 2013

Product number

There are no product or feature changes to IBM WebSphere DataPower XC10 Appliance as previously announced in Hardware Announcement [111-043](#), dated April 5, 2011 .

Description	Machine type	Model	Feature	Part
IBM WebSphere DataPower XC10 Appliance V2.5	7199	92X		

Specify features

Description	Machine	Model	Feature
Line cord - 2.8m, 10A/250V, C13 to GB 2099.1 (China)	7199	92X	6210
Line cord - 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	7199	92X	6211
Line cord - 2.8m, 10A/250V, C13 to IEC 309 Type 2P + Gnd (Europe)	7199	92X	6212
Line cord - 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	7199	92X	6213
Line cord - 2.8m, 10A/250V, C13 to SABS 164 (S Africa)	7199	92X	6214
Line cord - 2.8m, 10A/250V, C13 to BS 1363/A (UK)	7199	92X	6215
Line cord - 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	7199	92X	6216
Line cord - 2.8m, 220-240V, C13 to IMQ CEI 23-16 (Italy/Chile)	7199	92X	6217
Line cord - 2.8m, 10A/250V, C13 to SI 32 (Israel)	7199	92X	6218
Line cord - 2.8m, 12A/100V, C13 to KETI (Korea)	7199	92X	6219
Line cord - 2.8m, 10A/250V, C13 to IRAM 2073 (Argentina)	7199	92X	6222
Line cord - 2.8m, 10A/125V, C13 to IEC320 (Brazil)	7199	92X	6223
Line cord - 2.8M 10A/250V, C13(2P+Gnd) (India)	7199	92X	6269
Line cord - 2.8m, 10A/125V, C13 to NEMA 5-15P (US)	7199	92X	6313
Line cord - 2.8m, 12A/100V, C13 to JIS C-8303(Japan)	7199	92X	6314
Line cord - 2.8m, 10A/125V, C13 to CNS 10917-3 (Taiwan)	7199	92X	6386
Rail kit	7199	92X	6799

The IBM WebSphere DataPower XC10 Appliance License plus maintenance for 12 months, program number 5765-H42, has been updated to V2.5. For additional information on the various options for IBM WebSphere DataPower XC10 Appliance Subscription & Support, refer to Software Announcement [211-136](#), dated April 5, 2011 .

Model conversions

Not applicable

Publications

The IBM WebSphere DataPower XC10 Appliance Quick Start Guide is included with the appliance.

Additional information and documentation is available from the IBM WebSphere DataPower XC10 Appliance Information Center at

<http://www.ibm.com/software/webservers/appserv/xc10/library/>

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

For more Technical Information of IBM WebSphere DataPower XC10 Appliance, refer to the information in Hardware Announcement [111-043](#), dated April 5, 2011 .

Specified operating environment

Standards

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1-03
- NOM-019

Operating environment

- Temperature
 - 10.0 to 35.0 degrees C (50 to 95 degrees F) at 0 to 914 m (0 to 3,000 ft)
 - 10.0 to 32.0 degrees C (50 to 90 degrees F) at 914 to 2,133 m (3,000 to 7,000 ft)

- Powered off: 10 to 43 degrees C (50 to 109.4 degrees F), maximum altitude: 2133.6 m (7,000 ft.)
- Relative humidity: 8% to 80%

Shipping environment

- Temperature: -40 to 60 degrees C (-40 to 140 degrees F)
- Relative humidity: 8% to 80%

Electrical power

100 to 127 or 200 to 240 vac at 50 Hz or 60 Hz

Power usage:

10 A for 120 vac

5 A for 220 vac

The 7199 appliance contains two 720-watt power modules that operate at 100 to 127 Vac or 200 to 240 Vac at 50 or 60 Hz.

Both power supply modules must be connected to the same power source to prevent ground voltage potential difference between the two power modules.

Homologation

This product is not certified for direct connection by any means whatsoever to interfaces of public telecommunications networks. Certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions.

Hardware requirements

For first-time configuration of the software, this appliance requires a compatible RS-232c terminal or terminal emulator with a male DB-9 serial port connector. The terminal must support the following RS-232c serial parameters:

- 9600 baud
- One stop bit
- No parity
- XON/XOFF handshaking

The terminal must support ANSI/VT-100 control sequences. Microsoft™ Windows™ Hyperterminal and Linux™ Minicom are appropriate terminal emulators.

Unattended or remote installation can be performed through a network-attached terminal server.

Software requirements

The 7199 series appliance comes with IBM-supplied software. It is not possible to install any other software.

Planning information

For more planning information of IBM WebSphere DataPower XC10 Appliance, refer to the information in Hardware Announcement [111-043](#), dated April 5, 2011 .

Customer responsibilities

This product is designated for customer setup. Customer setup instructions are shipped with the product.

The DataPower XC10 Appliance V2.5 firmware can be downloaded after June 14, 2013, from the IBM support website at:

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Terms and conditions

For terms and conditions for WebSphere DataPower XC10 Appliance, refer to Hardware Announcement [111-043](#), dated April 5, 2011 .

Pricing

For pricing information for WebSphere DataPower XC10 Appliance, refer to Hardware Announcement [111-043](#), dated April 5, 2011 .

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