# IBM XIV Storage System Gen3 with software release 11.1 offers optional SSD caching

## Table of contents

## At a glance

IBM® XIV® Storage System Gen3 Model 114 for machine types 2810 and 2812 now offers optional IBM XIV SSD Caching.

## Overview

IBM XIV Storage System Gen3 with software release 11.1 now includes support for optional IBM XIV SSD Caching. This new feature is designed to provide a performance boost for Gen3 systems with more cache capacity than existing DIMM RAM and the ability to serve up to 3x the performance for OLTP workloads. With SSD caching, Gen3 with software release 11.1 further strengthens its ability to provide consistent high performance and enterprise functionality, along with low total cost of ownership (TCO) and ease of use. The enhancements in this release is intended to enable:

- Obtain random read hit ratio and IOPS performance
- Benefit from the combination of SSD technology and unique XIV caching implementation

## Key prerequisites

IBM XIV Storage System Gen3 Model 114 with IBM XIV Storage System Software Version 11.1.0, or later, installed.

## Planned availability date

March 8, 2012

## Description

IBM XIV Storage System Gen3 with software release 11.1 Model 114 now supports SSD as read cache.

The availability of SSD caching brings an additional performance boost to IBM XIV Storage System Gen3. With SSD caching, the Gen3 with software release 11.1 further strengthens its ability to provide consistent high performance and enterprise

functionality for open system storage, along with low total cost of ownership (TCO) and ease of use.

- SSD caching increases the effective amount of read cache available to the system, with an emphasis on a read-cache for random I/O.
- Designated SSD drives on each module is intended to be up to 0.4 TB, providing increased performance with higher cache hits compared to disk drives.

### 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

## Reference information

Refer to Hardware Announcement 111-203, dated October 11, 2011.

## Product number

| Description | Machine | Model | Feature numbers |
|---|---|---|---|
| IBM XIV SSD Caching | 2810 | 114 | 1155 |

| Description | Machine | Model | Feature numbers |
|---|---|---|---|
| IBM XIV SSD Caching | 2812 | 114 | 1155 |

### 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=112-031

## Publications

The following publications are shipped with this product:

| Title | Order number |
|---|---|
| International Program License Agreement Additional copies | Z125-3301 |
| IBM XIV Storage System Gen3 Safety Notices (standard - 29 languages) | GA32-0832 |
| License Information document | GC27-2216 |
| IBM System Storage® XIV Storage System Gen3 Machine type 2810 and 2812 Statement of Limited Warranty | GC27-2268 |

Product publications can be viewed and downloaded online from the IBM XIV Storage System Gen3 Information Center at

http://publib.boulder.ibm.com/infocenter/ibmxiv/r2/index.jsp

## 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

### Limitations
- Maximum number of SSD drives per full system is fifteen
- If one module supports SSD caching, then all modules in the system must have SSD
- On module MES, if machine already has SSD, MES must have SSD

### User group requirements
Code level 11.1.0 will support 3 TB and 2 TB drives.

### Planning information

### Customer responsibilities
#### Installation planning

Installation planning is a customer responsibility. Installation planning and usage documentation and resources may be found at the IBM product support website

http://www.ibm.com/systems/support/storage/XIV

Customer documentation, safety, and warranty information for the IBM XIV Storage System and IBM XIV Storage System Gen3 Software products can also be found at

http://publib.boulder.ibm.com/infocenter/ibmxiv/r2/index.jsp

#### Logical configuration planning and creation

Logical configuration planning and creation are customer responsibilities. Logical configuration refers to defining hosts, volumes, and LUNs mapping to hosts, defining event notifications, defining target connectivity, defining mirroring, defining snapshots, and all actions related to implementation of the IBM XIV Storage System

and IBM XIV Storage System Gen3 within the customer's IT environment, other than physical installation. Creation of the initial logical configuration and all subsequent modifications to the logical configuration are customer responsibilities. The logical configuration can be created, applied, and modified using the IBM XIV GUI or XCLI. IBM SmoothStart Implementation and Configuration Services are also available for those customers who prefer to have IBM complete the initial configuration for them. Additional services are also available. Refer to the Services section for more information on available services.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request that IBM install Machine Code changes; however, you may be charged for that service.

### Cable orders

There are two types of cables available for host attachment to the XIV Storage System. Feature 3900 should be used to attach iSCSI hosts and features 3910 and 3920 are to be used to connect hosts through fiber optic cables. All Fibre Channel connections to the XIV device should be made with 50 micron (multimode) fiber optic cables.

## Security, auditability, and control

This product uses the security and auditability features of the host hardware, host software, and/or application software to which it is attached. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities

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

## IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

## Terms and conditions

### MES discount applicable

No

### Field installable feature

Yes

### Warranty period

- Machine type 2810 -- 1 year
- Machine type 2812 -- 3 years

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

### Customer setup

No

### Machine code

Same license terms and conditions as base machine

## Pricing

| Description | Machine type | model | Feature number | Field install only | Plant install only |
|---|---|---|---|---|---|
| IBM XIV SSD Caching | 2810 | 114 | 1155 | N | N |
| IBM XIV SSD Caching | 2812 | 114 | 1155 | N | N |

For current prices visit

http://www-03.ibm.com/systems/p/

You may also contact us at 1-888-Shop-IBM.

### Trademarks

Electronic Service Agent is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, XIV and System Storage are registered trademarks of IBM Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

### Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

http://www.ibm.com/legal/us/en/

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/us/