

New features for IBM z14 and IBM Emperor II

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Overview

Introducing IBM^(R) Db2^(R) Analytics Accelerator on Z (IDAA on Z) hardware (#0609) for IBM z14 (3906) Models M02, M03, M04, and M05

IBM Db2 Analytics Accelerator on Z hardware (#0609) delivers a new deployment option directly on IBM z14. This deployment option is based on the premier IBM analytical engine, Db2 Warehouse software. It delivers support for IBM z14, within Integrated Facility for Linux^(R) (IFL) processors (purchased separately) and without the need to attach a separate appliance. IDAA on Z also requires the purchase of 2.5 TB of memory. See the **Sales Manual** pages for required corequisites. This Accelerator on IBM Z deployment option allows for:

- Deeper integration with the IBM Z infrastructure. This offers a unified homogeneity of service, support, and operations and deeper integration with operational processes, for example, for disaster recovery.
- Flexible capacity to respond to peak analytic workload requirements while meeting SLAs.

Introducing three new features on IBM Emperor II (3906) Models LM1, LM2, LM3, LM4, and LM5

- *zHyperLink Express^(R) (#0431)*

IBM zHyperLink Express is a short distance, IBM Z I/O adapter which works in conjunction with a FICON^(R) SAN infrastructure. This feature is a 2 port adapter which resides in the 3906 PCIe I/O drawer and supports direct connectivity to FICON storage systems at distances up to 150 m. zHyperLink Express uses a direct connect short distance link (zHyperLink) to deliver low latency connectivity between z14/Emperor II and FICON storage systems. Working in conjunction with your existing FICON SAN infrastructure, zHyperLink Express delivers the next generation of I/O for IBM Z storage.

- *IBM Virtual Flash Memory (#0604)*

IBM Virtual Flash Memory (VFM) is the replacement for the Flash Express features (#0402, #0403) which were available on the IBM zEC12 and IBM z13^(R). No application changes are required to change from IBM Flash Express to VFM.

IBM Virtual Flash Memory is designed to help improve availability and handling of paging workload spikes when running z/OS^(R) V2.3, V2.2, or V2.1, or on z/OS V1.13*. With this support, z/OS is designed to help improve system availability and responsiveness by using VFM across transitional workload events such as market openings, and diagnostic data collection. z/OS is designed to help improve processor performance by supporting middleware exploitation of pageable large (1 MB) pages.

Using VFM can help availability by reducing latency from paging delays that can occur at the start of the workday or during other transitional periods. It is

also designed to help eliminate delays that can occur when collecting diagnostic data during failures. VFM can also be used in Coupling Facility images to provide extended capacity and availability for workloads making use of WebSphere[®] MQ Shared Queues structures.

VFM can therefore help organizations meet their most demanding service level agreements and compete more effectively. VFM is designed to be easy to configure, and to provide rapid time to value.

- *64GB VFM Preplanned Memory (#1999)*

VFM Preplanned Memory provides the ability to plan for a disruptive CPC drawer outage. The hardware required is preplugged based on a target capacity calculated by the configurator only when flexible memory has been selected (only if Flex memory is disabled).

Key prerequisites

Refer to the *Hardware requirements* and *Software requirements* requirements sections of Hardware Announcements [117-044](#), dated July 17, 2017 and [117-067](#), dated September 12, 2017.

Planned availability date

November 28, 2017:

- IDAA on Z (#0609) for new-build 3906 M02, M03, M04, and M05 models
- zHyperLink Express (#0431)
- IBM Virtual Flash Memory (#0604)
- 64GB VFM Preplanned Memory (#1999)

March 31, 2018:

- IDAA on Z (#0609) MES adds to existing models M01, M02, and M03

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

Section 508 of the US Rehabilitation Act

IBM z14 and Emperor II servers are capable on delivery, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act of 1973, 29 U.S.C. Section 794d, as implemented by 36 C.F.R. Part 1194, provided that any Assistive Technology used with the Product properly interoperates with it.

IBM makes no representation about the Section 508 status of third-party products included in this offering. Contact the vendor for specific, current information on the Section 508 status of these products.

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 IBMid).

[BP Attachment for Announcement Letter 117-093](#)

Reference information

For more information about the IBM z14, refer to Hardware Announcement [117-044](#), dated July 17, 2017.

For more information about the IBM Emperor II, refer to Hardware Announcement [117-067](#), dated September 12, 2017.

For more information on IBM Db2 Analytics Accelerator for z/OS, V7.1, refer to Software Announcement [217-496](#), dated October 17, 2017.

Product number

Description	Machine type	Model	Feature
IBM z14	3906		
		M01	
		M02	
		M03	
		M04	
		M05	
IDAA on Z			0609
IBM Emperor II	3906		
		LM1	
		LM2	
		LM3	
		LM4	
		LM5	
zHyperLink Express			0431
IBM Virtual Flash Memory			0604
64GB VFM Preplanned Memory			1999

Publications

Publications for IBM Z® can be obtained at the [Resource Link^{\(R\)}](#) website. Using the instructions on the Resource Link panels, obtain a user ID and password. Resource Link has been designed for easy access and navigation.

For IBM Redbooks^(R) publications, go to the main [IBM Redbooks](#) website.

IBM Knowledge Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. See [IBM Knowledge Center](#).

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

National language support

Not applicable

Services

IBM Systems Lab Services

IBM Systems Lab Services offers a wide array of services available for your enterprise. It brings expertise on the latest technologies from the IBM development community and can help with your most difficult technical challenges.

IBM Systems Lab Services exists to help you successfully implement emerging technologies so as to accelerate your return on investment and improve your satisfaction with your IBM systems and solutions. Services examples include initial implementation, integration, migration, and skills transfer on IBM systems solution capabilities and recommended practices. IBM Systems Lab Services is one of the service organizations of IBM's world-renowned IBM Systems Group development labs.

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

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 go to the [IBM Global Technology Services^{\(R\)}](#) website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

Technical information

Specified operating environment

Software requirements

zHyperLink Express (#0431) requires at a minimum:

- z/OS V2.3 with PTFs.
- z/OS V2.2 with PTFs.
- z/OS V2.1 with PTFs.

IBM Virtual Flash Memory (VFM) (#0604) requires at a minimum:

- z/OS V2.3.
- z/OS V2.2.
- z/OS V2.1.
- z/OS V1.13 with PTFs, the z/OS V1.13 RSM Enablement Offering web deliverable installed, and an extended support contract for IBM Software Support Services. The web deliverable is available at the z/OS downloads website.

IBM Db2 Analytics Accelerator on Z hardware (#0609) requires at a minimum:

- z/OS V2.1, or later.
- Db2 V11.1 for z/OS, or later.
- Db2 Utilities Suite for z/OS, V11.1, or later.

Planning information

Customer responsibilities

Information on customer responsibilities for site preparation can be found in the [Library](#) section of Resource Link.

Cable orders

Not applicable

Security, auditability, and control

The IBM z14 and the IBM Emperor II use the security and auditability features and functions of host hardware, host software, and application software.

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

IBM Systems Lab Services

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

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, go to the [IBM Electronic Support](#) website.

Terms and conditions

Field-installable features: Yes

Maintenance Service Offerings:

Committed Services (CS)

For service options with a committed level of service or any other special service option, contact your IBM representative.

IBM Installation:

Installation is performed by IBM. IBM will install the machine in accordance with the IBM installation procedures for the machine.

In the United States, contact IBM at 1-800-IBM-SERV (426-7378). In other countries, contact the local IBM office.

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Specific Machine Type Model:

- 3906-M01
- 3906-M02
- 3906-M03
- 3906-M04
- 3906-M05
- 3906-LM1
- 3906-LM2
- 3906-LM3
- 3906-LM4
- 3906-LM5

Prices

For all local charges, contact your IBM representative.

Desc	Mach type	Mod	Feat num	**	INIT/MES
IBM z14	3906				
IDAA on Z		M01	0609	**	MES
		M02	0609	**	Both
		M03	0609	**	Both
		M04	0609	**	Init
		M05	0609	**	Init
IBM Emperor II	3906				
		LM1			
		LM2			
		LM3			
		LM4			
		LM5			
zHyperLink Express			0431	**	Both
IBM Virtual Flash Memory			0604	**	Both
64GB VFM Preplanned Memory			1999	**	Both

** If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

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