



IBM Ported Tools for z/OS Version 1.2 adds updated OpenSSH capabilities

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At a glance

IBM® Ported Tools for z/OS® Version 1.2 is designed to provide select features of the Secure Shell (SSH) protocol support known as OpenSSH, enabling:

- Authentication for both the client and server
- Privacy through encryption
- Data integrity
- Authorization
- Forwarding or tunneling
- An optional feature of compression

This latest release of OpenSSH has been enhanced with the following:

- OpenSSH has been updated with newer versions of the associated open source code; specifically OpenSSH 5.0p1, OpenSSL 0.9.8k, and zlib 1.2.3.
- OpenSSH can be configured to allow OpenSSH keys to be stored in SAF key rings.
- OpenSSH can be configured to collect SMF Type 119 records for both the client and the server for login failures and file transfers.
- OpenSSH is now an XPLINK application.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

Overview

IBM Ported Tools for z/OS is a program product available at no cost to you and is designed to deliver ported tools and utilities (modified to operate within the z/OS environment) which are useful for application development on, and secure communications to, the z/OS platform. IBM Ported Tools for z/OS includes utilities such as OpenSSH, Perl, PHP, bzip2, cURL, Xvfb, and IBM HTTP Server 7.0 where OpenSSH is in the product base and the remaining items are separate features.

For Version 1 Release 2 of the IBM Ported Tools for z/OS product, the base is updated to include a more current OpenSSH as well as more current versions of associated OpenSSL and zlib information. Only the base is updated. The other utilities included in the IBM Ported Tools for z/OS product are optional features and are not updated.

OpenSSH provides privacy features through encryption as it passes through the network. It is designed to allow data to travel over the network unaltered to help maintain data integrity. OpenSSH is designed to provide a secure login and secure file transfer protocol mechanism by making use of OpenSSL technology. It is intended to allow a non-z/OS server to communicate securely with a z/OS server using the Secure Shell (SSH) protocol support known as OpenSSH in a security-rich environment.

In addition to being a more current version of OpenSSH, this OpenSSH release has been enhanced to enable System Authorization Facility (SAF) key ring support. Also, OpenSSH can now be configured to collect System Management Facility (SMF) Type 199 records for both the client and the server for login failures and file transfers.

Key prerequisites

IBM Ported Tools for z/OS Version 1.2 requires installation of z/OS V1.10 (5694-A01) or later systems.

If running on z/OS V1.10 or z/OS V1.11, PTFs for the following APARs must be applied:

- PK86329
- OA29401

Planned availability date

July 9, 2010

Description

IBM Ported Tools for z/OS is a program product available at no cost to you, and is designed to deliver ported tools and utilities (modified to operate within the z/OS environment) which are useful for application development on, and secure communications to, the z/OS platform. IBM Ported Tools for z/OS includes utilities such as OpenSSH, Perl, PHP, bzip2, cURL, Xvfb, and IBM HTTP Server 7.0 where OpenSSH is in the product base and the remaining items are separate features.

For Version 1 Release 2 of the IBM Ported Tools for z/OS product, the base is updated to include a more current OpenSSH as well as more current versions of associated Open SSL and zlib information. Only the base is updated; the other utilities included in the IBM Ported Tools for z/OS product are optional features and are not updated. IBM Ported Tools for z/OS is delivered in SMP/E format and provides the following OpenSSH features:

- Authentication for both client and server
- Privacy through encryption
- Data integrity
- Authorization
- Forwarding or tunneling
- An optional feature of compression

This latest release of OpenSSH has been enhanced with the following:

- OpenSSH has been updated with newer versions of the associated open source code; specifically OpenSSH 5.0p1, OpenSSL 0.9.8k, and zlib 1.2.3.
- OpenSSH can be configured to allow OpenSSH keys to be stored in SAF key rings.
- OpenSSH can be configured to collect SMF Type 119 records for both the client and the server for login failures and file transfers.

- OpenSSH is now an XPLINK application.

Xvfb support is now provided through FMID HVFB111 instead of being in the base of IBM Ported Tools for z/OS which is now FMID HOS1120. The Xvfb for z/OS code is provided as a separate FMID in order to allow IBM to provide more efficient support. However, Xvfb (FMID HVFB111) will be delivered whenever the base of IBM Ported Tools for z/OS (FMID HOS1120) is ordered. FMID HVFB111 is the same code that was available as PTFs UA21819 and UA32671 with the base of IBM Ported Tools for z/OS V1.1 which was FMID HOS1110.

In line with Withdrawal Announcement [909-291](#), dated December 01, 2009, for 5655-S57, Integrated Removable Media Manager for the Enterprise on System z V1.1, the portion of the Supplementary Toolkit associated with IRMM will no longer be marketed after March 1, 2010.

Accessibility by people with disabilities

A U.S. 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

Section 508 of the U.S. Rehabilitation Act

IBM Ported Tools for z/OS Version 1.2 meets accessibility guidelines.

Program number

Program name	Program number
IBM Ported Tools for z/OS v1.2	5655-M23

Product identification number

Program PID number	Subscription and Support PID number
5655-M23	5655-M29

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=210-199>

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site

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

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Publications

The following publications are supplied automatically with the basic machine-readable material:

Title	Order number
IBM Ported Tools for z/OS Program Directory	GI10-0769
IBM Ported Tools for z/OS License Information	GA22-7986

IBM Publications Center

<http://www.ibm.com/shop/publications/order>

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. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

The IBM Publications Notification System (PNS) enables subscribers to set up profiles of interest by order number or product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered or downloaded from the Publications Center.

The site is available in English and Canadian French.

Displayable softcopy publications: The *IBM Ported Tools for z/OS: OpenSSH User's Guide* (SA23-2246) and *IBM Ported Tools for z/OS: Xvfb User's Guide* (SA23-2216) are offered in displayable softcopy form.

The displayable manuals can be downloaded from the following Web sites

<http://www.ibm.com/systems/z/os/zos/bkserv/>

<http://www.ibm.com/systems/z/os/zos/features/unix/ported/>

IBM Ported Tools for z/OS: OpenSSH User's Guide and *IBM Ported Tools for z/OS: Xvfb User's Guide* are planned to be available on the IBM Online Library and Software Products DVD Collection, September 2010 (SK3T-4271-25).

Technical information

Specified operating environment

Hardware requirements

IBM Ported Tools for z/OS Version 1.2 is compatible with all hardware as listed in the compatibility statements of z/OS V1.10 (5694-A01) or later systems.

Software requirements

IBM Ported Tools for z/OS Version 1.2 requires z/OS V1.10 (5694-A01) or later systems. If running on z/OS V1.10 or z/OS V1.11, PTFs for the following APARs must be applied:

- PK86329
- OA29401

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

User group requirements

This announcement satisfies or partially satisfies 11 requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

Requirements satisfied include:

- MR0228081934 SSH & SFTP should have the same logging as FTP on z/OS
- MR0327072218 OpenSSH should support a parameter to specify the location of sshd home directory
- MR0408106448 Upgrade OpenSSH
- MR0726074720 sftp -b does not enable ssh batchmode
- MR0913046227 OpenSSH needs RACF® Key Ring support
- MR0915041646 IBM Ported Tools for z/OS product needs to support latest OpenSSH standard
- MR1031085620 Enhance performance of sftp on z/OS
- MR1107085910 OpenSSH NLSPATH definition
- MR1119092155 Ported Tools needs all messages documented with proper message identifiers
- MR1212063936 OpenSSH should provide a config option for ssh-rand-helper timeout
- MR1230043747 OpenSSH (ported tools) should support compression and privsep at the same time

Planning information

When IBM Ported Tools for z/OS V1.2 is ordered, IBM Ported Tools for z/OS: Xvfb for z/OS will also be sent. An order of IBM Ported Tools for z/OS V1.2 will not include any other available features such as Perl for z/OS, PHP for z/OS, Supplementary Toolkit for z/OS (which contains the bzip2 and cURL utilities), and IBM HTTP Server 7.0. These additional features must be explicitly ordered. However, these additional features have not been updated just because there is a new release of IBM Ported Tools for z/OS.

Security, auditability, and control

The announced program uses the security and auditability features of the z/OS operating system.

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

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based Software Services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

This is a no-charge product.

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

5655-M23 - IBM Ported Tools for z/OS

Basic license

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Ported Tools for z/OS
Program PID: 5655-M23

Entitlement identifier	Description	License option/ Pricing metric
S0114M7	IBM Ported Tools for z/OS	No Charge unlimited installs
Orderable supply ID	Language	Distribution medium
S011393	English	3480 Tape Cartridge ¹
S0165V9	English	3590 Tape Cartridge ¹

¹ Refer to the [Customized Offerings](#) section for specific media types.

Subscription and Support PID: 5655-M29

Entitlement identifier	Description	License option/ Pricing metric
S0114V1	IBM Ported Tools for z/OS:	No Charge, unlimited installs

Orderable supply ID	Language	Distribution medium
S0114V2	English	Paper

Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

<http://www.software.ibm.com/ShopzSeries>

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs - 3480, 3480 Compressed, 3490E, 3590, 3592²
- ServerPacs - 3480, 3480 Compressed, 3490E, 3590, 3592²
- SystemPacs - 3480, 3480 Compressed, 3490E, 3590, 3592²

² 3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures: IBM Agreement for Acquisition of Software Maintenance (Z125-6011).

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide

for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z® Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

GA22-7986

The program's License Information will be available for review on the IBM Software License Agreement Web site

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/portable computer

You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

No

Passport Advantage applies

No

Usage restriction

No

Software Subscription and Support (Software Maintenance) applies

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

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

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

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Fax: 800-2IBM-FAX (242-6329)
Internet: callserv@ca.ibm.com
Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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