Withdrawal of z/OS Functions

This flash lists those items IBM has announced intention for removal in a specific z/OS release. These items have already been announced in previous IBM z/OS announcement letters. This is a collection of those items being removed. Consideration should be given to those listed when planning your migration to a z/OS release. Statements of direction from z/OS announcement letters are located at this web site:

http://www-03.ibm.com/servers/eserver/zseries/zos/zos_sods.html

Removed Statement of Direction: Support for VSAM data sets with IMBED and REPLICATE (not KEYRANGE) attributes from DFSMS. IBM no longer plans to remove this support from z/OS in the foreseeable future. IBM still recommends you stop using these attributes. IBM plans to remove IMBED and REPLICATE attributes during logical DFSMSdss restore operations and DFSMShsm recall operations.
Note: All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

Functions Planned to be Withdrawn *in the Future* (no specific release has been specified)		Announcement Letter
BIND DNS 9.2.0 (from Communications Server)	Base Element – Anyone using this as a caching-only name server should use the Resolver cache function, which will be available in z/OS R11 to cache DNS responses. Anyone using this as a primary or secondary authoritative name server should investigate using BIND on Linux for System z **[Will be removed in next release]**	**209-029** Feb. 24, 2009 **211-007** Feb. 15, 2011
zFS cloning support (such as zfsadm clone and zfsadm clonesys commands). Do not mount file systems containing a cloned file system (.bak)	Base elements – when support for cloning is removed, only zFS capability mode aggregates will be supported. Find (with **modify zfs,query** command) and copy any cloned files to compatibility mode aggregrates. **[Will be removed in next release]**	**211-007** Feb. 15, 2011
zFS multi-file system aggregates (from Distributed File Service)	Base Element – copy zFS multi-file system aggregates to zFS compatibility mode aggregates. . **[Will be removed in next release]**	**211-007** Feb. 15, 2011
BPX.DEFAULT.USER	Base Element support – use BPX.UNIQUE.USER instead (as of R11) or assign unique UIDs and GIDs. .**[Will be removed in next release]**	**211-007** Feb. 15, 2011
SMP/E USERMOD for LE run-time options	IBM recommends using CEEPRMxx PARMLIB member to change Language Environment run-time options **[Will be removed in next release]**	**210-008** Feb. 9, 2010
Capacity Provisioning using System z API with SE and HMC	Base Element support – will use BCPii instead. System z API will still be supported on the SE and HMC. Use Tracking Facility with OA35284. Look for "CPO-W:SNMP *usage domain name*". **[Will be removed in next release]**	**211-007** Feb. 15, 2011

Functions Withdrawn *in z/OS Release 13*		Announcement Letter
DCE and DCE Security Server	Base Elements – IBM WebSphere Application Server, the IBM Network Authentication Service, and/or the IBM Directory Server as replacement strategies for each of the DCE technologies.	**209-242** Aug. 18, 2009
DFS support that utilizes the DCE architecture	Base Element support – z/OS Network File System (NFS) implementation as the replacement	**209-242** Aug. 18, 2009
z/OS UNIX Connection Manager and Process Manager	The z/OS UNIX System Services Connection Scaling functions provided by the Connection Manager and Process Manager components	**210-235** July 22, 2010

Functions Withdrawn in z/OS Release 12		Announcement Letter
Msys for Setup	Base element	**209-242** Aug.18, 2009
Optional setting for RFC4301 compliance (from Communications Server)	Base element. IBM intends to make RFC4301 compliance mandatory when using IPSec policies. This RFC includes restrictions on the routing of fragmented packets, which may require changes to existing z/OS IP filtering policy. **[Will be removed in next z/OS Release]**	**208-042** Feb. 26, 2008 **209-242** Aug 18, 2009
Language Environment underlying CSVRTLS services	Base Element support – LE RTLS support was removed in z/OS R5. Usage tracking assistance is provided in OA29019.	**209-242** Aug. 18, 2009
Discontinue delivery of software on 3480, 3480C and 3480E tape media	IBM recommends using Internet Delivery Service. Internet delivery is IBM's flagship delivery method; therefore future software delivery enhancements will be focused in this area.	**208-186** Aug. 5, 2008 **209-242** Aug. 18, 2009 **910-136** July 22, 2010

Functions Withdrawn in z/OS Release 11		Announcement Letter
BIND DNS 4.9.3 (from Communications Server)	Base Element - implement BIND 9.2.0 as a replacement (available since z/OS R4)	**209-029** Feb. 24, 2009 **203-266** Oct. 7, 2003 **204-017** Feb. 10, 2004 **208-042** Feb. 26, 2008
Network Database (NDB) function will be removed from Communications Server	Customers who currently use or plan to use the NDB function should investigate the distributed data facility (DDF) provided by z/OS DB2, and the DB2 Run-Time Client. DDF allows client applications running in an environment that supports DRDA(R) to access data at DB2(R) servers.	**209-029** Feb. 24, 2009 **207-175** Aug. 7, 2007 **208-042** Feb. 26, 2008
DHCP server function will be removed from the Communications Server component.	Customers who currently use or plan to use the z/OS DHCP server should investigate using a DHCP server on Linux for System z.	**209-029** Feb. 24, 2009 **207-175** Aug. 7, 2007 **208-042** Feb. 26, 2008
Boot Information Negotiation Layer (BINL) function will be removed from the Communications Server component	Customers using this function should investigate the use of IBM Tivoli(R) Provisioning Manager for OS Deployment for network based operating system installation services.	**209-029** Feb. 24, 2009 **207-175** Aug. 7, 2007 **208-042** Feb. 26, 2008
Attaching zSeries File System (zFS) multi-file system aggregates	**z/OS V1.10 is the last release** to allow attaching zSeries File System (zFS) multi-file system aggregates to be shared across systems in a sysplex. IBM has previously recommended these multi-file system aggregates not be shared in a sysplex	**205-034** Feb. 15, 2005 **208-186** Aug. 5, 2008

	environment. Once this support has been removed, attempts to attach zFS aggregates will fail in a z/OS UNIX shared file system environment. Attaching zFS compatibility mode aggregates, which have a single file system per data set, will continue to be supported in all environments. Note: Mounting was removed in z/OS 1.8	
Support for IPCS Problem management commands	**z/OS V1.10 is the last release** to include IPCS Problem Management Subcommands. If you currently use the IPCS problem management subcommands to report and track problems, consider using IBM Tivoli Information Management for z/OS V7 (5698-A08) or other similar products. IBM plans to continue to enhance the dump and trace analysis and display facilities of IPCS.	**208-186** Aug. 5, 2008
Integrated Security Services LDAP Server	**z/OS V1.10 is the last release** of z/OS which will support the Integrated Security Services LDAP Server. A new optimized LDAP server, called IBM Tivoli Directory Server for z/OS (ITDS) as delivered for z/OS 1.8. Customers who are currently using the Integrated Security Services LDAP Server, should investigate migrating to ITDS, which was designed to allow greater consolidation of LDAP directories on z/OS to help simplify enterprise management and disaster recovery	**208-186** Aug. 5, 2008

Functions Withdrawn in z/OS Release 10		Announcement Letter
RMF LDAP replacement (from RMF)	Priced Feature - RMF LDAP interface is planned to be replaced with a CIM Monitoring Interface that is part of z/OS R7	**206-039** Feb. 28, 2006
Assignment of CPU affinity to a logical processor	**The release following z/OS V1.9** is planned to be the last release to provide support for the assignment of CPU affinity to a logical processor. Future releases will ignore any attempt to assign CPU affinity.	**207-175** Aug. 7, 2007
English and Japanese panels from DFSORT	Priced Feature - no replacement offered (z/OS Release 9 is the last release	**204-180** Aug. 10, 2004 **207-018** Feb. 6, 2007
Support for the configuration of Traffic Regulation (TR) policy as part of the Quality of Service (QoS) discipline from Communications Server	Base element - Implement the Intrusion Detection Services (IDS) policy configuration made available in z/OS V1.8 • z/OS V1.9 is planned to be the last release of z/OS Communications Server which will support the configuration of Traffic Regulation (TR) policy as part of the Quality of Service discipline. The TR configuration function remains supported, but IBM recommends that you implement it as part of the Intrusion Detection Services (IDS) policy configuration made available in z/OS V1.8. This change is only for the TR policy configuration. The TR policy functions themselves remain unaffected. For more information, refer to:	**207-006** Feb. 6, 2007

	o z/OS V1.8 Communications Server IP Configuration Guide, Chapter 16. Intrusion Detection Services (IDS) o z/OS V1.8 Communication Server IP Configuration Reference	

Functions Withdrawn in z/OS Release 9		Announcement Letter
In-stack version of TN3270 Server (from Communications Server)	Base Element - use standalone TN3270 Server instead (introduced in z/OS R6)	**206-039** Feb. 28, 2006 **207-018** Feb. 6, 2007
Host Communication between HCM and HCD with APPC (from HCM)	Priced feature – Only TCP/IP for host communication between HCM and HCD will be allowed. (Currently both TCP/IP and APPC are supported.)	**206-039** Feb. 28, 2006
Run-time support for C/C++ IBM Open Class (IOC) Dynamic Link Libraries (DLLs) (from C/C++ without Debug)	Priced feature – Any application code using the IOC Library should migrate to use the standard C++ Library See WSC FLASH10588 for details. Applications may need to be recompiled.	**206-039** Feb. 28, 2006 **206-190** Aug. 18, 2006 **203-131** May 13, 2003 **201-248** Sept. 11, 2001
APPC Application Suite in Communications Server	Set of common applications originally designed to enhance the value of SNA networks. More full-featured alternative applications exist in modern integrated SNA/IP networks – this Suite will no longer be supported.	**206-191** Aug. 8, 2006
In-stack version of TN3270 Server (Communications Server)	Base element use standalone TN3270 Server (introduced in z/OS 1.6)	**206-191** Aug. 8, 2006

Functions Withdrawn in z/OS Release 8		Announcement Letter
zFS multi-file system aggregate shared across a sysplex (from Distributed File Service)	Base Element - zFS compatibility mode aggregates (which have a single file system per data set) will continue to be supported in all environments.	**205-034** Feb. 15, 2005
Firewall Technologies (from Integrated Security Services)	Base Element - Many Firewall Technologies functions have been been stabilized and can be replaced with Communications Server functions. Some functions won't have replacements.	**205-034** Feb. 15, 2005
Some Communications Server functions	Base Element - TCP/IP Configuration profile block definitions, PAGTSNMP subagent, EE TGs definition by specifying multiple SAP addrs, and AnyNet	**205-034** Feb. 15, 2005
Any remaining one-byte console ID support (from BCP)	Base Element - Use console names instead of one-byte console IDs	**205-034** Feb. 15, 2005
Certain plug-ins for msys for Setup: TCP/IP Services, z/OS UNIX System Services,	Base Element - TCP/IP plug-in available from web and will not require *msys for Setup*. Improvements for setup and configuration are planned in the future.	**205-167** July 26, 2005

Language Environment, Parallel Sysplex, ISPF, and RMF		
msys for Operations	Base Element - IBM plans to transition many of the current *msys for Operations* functions to a new user interface and infrastructure in a future release of z/OS.	**205-167** July 26, 2005

Functions Withdrawn in z/OS Release 7		**Announcement Letter**
JES2 "compatibility" R4 mode (from JES2)	Base Element - to avoid a cold start, you must $ACTIVATE to convert the JES2 checkpoint to z2 mode before installing z/OS R7	**204-180** Aug. 10, 2004
JOBCAT and STEPCAT facilities (from DFSMSdfp)	Base Element - any remaining JCL that use JOBCAT or STEPCAT must change	**204-180** Aug. 10, 2004
Support for ISAM data sets (from DFSMS)	Base Element - ISAM Compatibility Interface will still be provided (which allows you to run an ISAM program against a VSAM KSDS data set)	**203-266** Oct. 7, 2003 **204-180** Aug. 10, 2004
OS/390 R10 level of the C/C++ compilers (from C/C++)	Priced Feature - move to the ISO 1998 Standard level of the compilers (introduced in z/OS R2)	**204-180** Aug. 10, 2004
ECMB=NO circumvention in IEAOPTxx (from BCP)	Base Element - ECMB must be used, as the bypass will be removed.	Migration item for z/OS 1.7
One-byte console IDs on macro interfaces and operator commands (and TRACK, ... commands) (from BCP)	Base Element - Use console names, instead of one-byte IDs. Use Console ID Tracking Facility to identify one-byte ID usage, supplied as of z/OS R4 Consoles Enhancement feature.	**203-131** May 13, 2003 **205-034** Feb. 15, 2005
z/OS Optional Source media feature	(not an element, an z/OS orderable feature)	**204-180** Aug. 10, 2004
OROUTED (from Communications Server)	Base Element - use OMPROUTE as the dynamic routing daemon	**203-266** Oct. 7, 2003

Functions Withdrawn in z/OS Release 6		**Announcement Letter**
C/C++ ISPF panels (from C/C++)	Priced Feature - invoke the C/C++ compiler via UNIX, JCL, or TSO/E.	**203-131** May 13, 2003
Run-time Library Services (RTLS) (from Language Environment)	Base Element - no longer required due to stability and upward compatibility	**203-131** May 13, 2003
Dynamic Link Library (DLL) Rename Utility (from Language Environment)	Base Element - no longer needed due to C/C++ DLLs being licensed with the z/OS base	**203-131** May 13, 2003
SMIv1 version of the IBM MVS Enterprise-specific MIB module (from Communications Server)	Base Element - if you want to continue to use SMIv1, publicly available tools can convert SMIv2 to SMIv1	**203-131** May 13, 2003
DCE Application Support	Base Element - no replacement necessary. Evaluate WebSphere for similar function	**203-266** Oct. 7, 2003
Encina Toolkit Executive	Base Element - no replacement offered. Marketplace has moved to other technologies	**203-266** Oct. 7, 2003
Text Search	Base Element - available via web deliverable if still necessary for certain usage	**203-266** Oct. 7, 2003 **204-180** Aug. 10, 2004

Functions Withdrawn in z/OS Release 5	**Announcement**

		Letter
Application Development support in the C/C++ IBM Open Class Library	Base Element - use the C++ Standard Library (shipped with Language Environment) instead	**203-131** May 13, 2003
C/C++ with Debug Tool – as on optional feature in z/OS	Optional Feature - use z/OS R5 C/C++ without Debug Tool feature and also the independent standalone program product - IBM Debug Tool for z/OS V6.1 (5655-P14).	
OAM support for Filenet 9246, optical libraries, 9247 optical drives, and 12" optical media from DFSMSdfp)	Base Element - if optical is required, replace Filenet devices and media with IBM 3995 optical devices and media. If optical is not required, use tape media or DB2 tables on disk.	**202-190** Aug. 13, 2002
IBM License Manager	Base Element - use the Sub-Capacity Reporting Tool (SCRT) for subcapacity software pricing – *FMID removed in this release*	

Miscellaneous Items

- *OS.e V1.8 (5655-G52) is planned to be the last release of z/OS.e. Marketing, ordering, support and service for z/OS (5694-A01) remain unaffected* z/OS.e V1.8 remains orderable until its planned withdrawal from marketing in October 2007. In accordance with the z/OS (5694-A01) and z/OS.e service policy (to provide service support for each release for three years following its general availability date), IBM intends to withdraw service for z/OS.e V1.8 in September 2009.

- Effective January 15, 2006, as previously announced in Software Announcement 205-034, dated February 15, 2005, the S/390 Service Update Facility (SUF) will be discontinued.

- Effective March 2006, new ESO and CBPDO (5751-CS8 and 5775-MVS) physical delivery subscriptions will not be accepted.

- Effective June 2006, CBPDO product orders will include service only for the products included in the order. Formerly, CBPDO product orders included service for other products licensed under the same customer number within the same SREL. To get service for other products, you can use SMP/E Internet Service Retrieval, ShopzSeries, or a fee service offering.

- Effective June 2006, Service-Only CBPDO (5751-CS3) orders will no longer be accepted. An improved option for ordering service by SREL, or for all licensed products under the same customer number, will continue to be supported in ShopzSeries. You can also get service based on what you have installed using SMP/E Internet Service Retrieval, ShopzSeries, or selected fee offerings. Note that CBPDO product orders are not affected by this change.

- Effective September 2006, existing ESO and CBPDO physical delivery subscriptions will be discontinued. You can use a job scheduling system and SMP/E Internet Service Retrieval to get service at any interval you find convenient, or use the Internet delivery subscription option available in ShopzSeries.

IBM recommends you begin to use SMP/E Internet Service Retrieval, ShopzSeries, or one of these worldwide fee offerings before the above changes take effect:

- US — SoftwareXcel, Resolve
- Europe/Middle East/Africa — Enhanced Technical Support

- Canada — SupportLine
- Latin America — SupportLine
- Asia Pacific/South — SupportLine