

z/OS
2.4

Release Upgrade Reference Summary



Note

Before using this information and the product it supports, read the information in [“Notices” on page 145.](#)

This edition applies to Version 2 Release 4 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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We invite you to submit comments about the z/OS® product documentation. Your valuable feedback helps to ensure accurate and high-quality information.

Important: If your comment regards a technical question or problem, see instead [“If you have a technical problem”](#) on page vii.

Submit your feedback by using the appropriate method for your type of comment or question:

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Feedback on IBM® Documentation function

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If your comment is about the information that is provided in the z/OS product documentation library, send a detailed email to mhvrcfs@us.ibm.com. We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information.

To help us better process your submission, include the following information:

- Your name, company/university/institution name, and email address
- The following deliverable title and order number: z/OS Release Upgrade Reference Summary, SA23-2300-50
- The section title of the specific information to which your comment relates
- The text of your comment.

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- Contact your IBM service representative.
- Call IBM technical support.

Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

Summary of changes for z/OS Release Upgrade Reference Summary for Version 2 Release 4 (V2R4)

The following content is new, changed, or no longer included in V2R4.

New

The following content is new.

- Content for z/OS V2R4 was added.

Changed

The following content is changed.

- This entire deliverable was reorganized and overhauled to present only the information that users need in a more concise and accurate manner.
- The title of this deliverable was changed from *Summary of Message and Interface Changes to Release Upgrade Reference Summary* to more accurately reflect its new role in the z/OS product library.

Deleted

The following content was deleted.

- Content for z/OS V2R2 was removed.
- The sections that summarize element and feature level interface changes were removed. That information is already more accurately and comprehensively represented in the individual element and feature level deliverables in the library.
- *Appendix A. Possible actions resulting from changed control blocks* was removed.
- *Appendix B. A method for finding changes to MVS™ and TSO/E messages* was moved into the individual MVS and TSO/E message deliverables.

Part 1. z/OS V2R4 changes

This part describes the new, changed, and removed or no longer issued messages, codes, SMF records, and selected system-level data set (SYS1) interfaces for z/OS V2R4 elements and features.

- [Chapter 1, “Message and code changes for z/OS V2R4,” on page 3](#)
- [Chapter 2, “New and changed System Management Facilities \(SMF\) records for z/OS V2R4,” on page 39](#)
- [Chapter 3, “New and changed members in SYS1.MACLIB for z/OS V2R4,” on page 49](#)
- [Chapter 4, “New and changed PARMLIB members for z/OS V2R4,” on page 51](#)
- [Chapter 5, “New and changed PROCLIB members for z/OS V2R4,” on page 53](#)
- [Chapter 6, “New and changed SYS1.SAMPLIB members for z/OS V2R4,” on page 55](#)

Chapter 1. Message and code changes for z/OS V2R4

This section contains the message and code changes for z/OS V2R4.

BCP (MVS) and DFSMS messages and codes changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for BCP (MVS) and DFSMS.

This topic lists new, changed, and deleted messages and codes for BCP (MVS), DFSMSdfp, DFSMSdss, DFSMSshm, DFSMSrmm, and DFSMSstvs. It also lists new, changed, and deleted operator messages for TSO/E. (New, changed, and deleted non-operator messages for TSO/E are in [“TSO/E message changes for z/OS V2R4”](#) on page 32.) All the messages and codes in this section are grouped together, without distinction as to element or feature.

All messages for BCP (MVS) and DFSMS are documented in:

- *z/OS MVS System Messages, Vol 1 (ABA-AOM)*
- *z/OS MVS System Messages, Vol 2 (ARC-ASA)*
- *z/OS MVS System Messages, Vol 3 (ASB-BPX)*
- *z/OS MVS System Messages, Vol 4 (CBD-DMO)*
- *z/OS MVS System Messages, Vol 5 (EDG-GLZ)*
- *z/OS MVS System Messages, Vol 6 (GOS-IEA)*
- *z/OS MVS System Messages, Vol 7 (IEB-IEE)*
- *z/OS MVS System Messages, Vol 8 (IEF-IGD)*
- *z/OS MVS System Messages, Vol 9 (IGF-IWM)*
- *z/OS MVS System Messages, Vol 10 (IXC-IZP)*

Dump output messages are documented in *z/OS MVS Dump Output Messages*.

DFSMS Volume Mount Analyzer messages (GFT) and abend codes are documented in *z/OS DFSMS Using the Volume Mount Analyzer*.

For explanations of and additional details about MVS system codes, see *z/OS MVS System Codes*.

New messages

CBR0802I (APAR OA58344)
 CBR0803I (APAR OA58344)
 CBR9227I (APAR OA57287)
 DMO0064E (APAR OA57255)
 DMO0066E (APAR OA57255)
 DMO012I (APAR OA57255)
 DMO012E (APAR OA57255)
 DMO0012I (APAR OA57173)
 CBR0085I (APAR OA55700)
 CBR0360I (APAR OA55700)
 CBR0361I (APAR OA55700)
 CBR0362I (APAR OA55700)
 CBR0363I (APAR OA55700)
 CBR1290I (APAR OA55700)
 CBR1295I (APAR OA55700)
 CBR1705I (APAR OA55700)
 CBR1795I (APAR OA55700)

CBR1810I (APAR OA55700)
CBR1811I (APAR OA55700)
CBR1812I (APAR OA55700)
CBR1813I (APAR OA55700)
CBR1994I
CBR6505I (APAR OA55700)
CBR6523I (APAR OA55700)
CBR6524I (APAR OA55700)
CBR6530I (APAR OA55700)
CBR9844I (APAR OA60070)
CBR9845I (APAR OA60070)
CPO4444I
CPO4445I
CPO4446I

EDG0244I
EDG0245I
EDG0246W
EDG6877E
EDG6878I
EDG6879E
EDG6880I
EDG2120W
EDG2122W
EDG2436W
EDG3377I
EDG4015D
EDG4016D
EDG4017I
EDG4064D
EDG4065I
EDG4066I
EDG4067I
EDG6851E
EDG6852I
EDG6853E
EDG6854I
EDG6855E
EDG6856I
EDG6857E
EDG6858I
EDG6859E
EDG6860I
EDG6861E
EDG6862I
EDG6863E
EDG6864I
EDG6865E
EDG6866I
EDG6867E
EDG6868I
EDG6869E

EDG6870I
EDG6871E
EDG6872I
EDG6873E
EDG6874I
EDG6875E
EDG6876I
EDG8013D
GLZB001I
GLZB002I
GLZB003I
GLZB004I
GLZB005I
GLZB007I
GLZB008I
GLZB009I
GLZB010I
GLZB011I
GLZB012I
GLZB013I
GLZB014I
GLZB015I
GLZB016I
GLZB017I
GLZB018I
GLZB019I
GLZB020I
GLZB021I
GLZB022I (APAR OA58996)
GLZB023I (APAR OA59573)
GLZB024I (APAR OA59573)
GLZB025I (APAR OA59573)
GLZB026I (APAR OA59573)
GLZB027I (APAR OA59573)
GLZB028I (APAR OA59573)
GLZC001I
GLZC002I
GLZC003I
GLZC004I
GLZC005I
GLZC006I
GLZC007I
GLZC008I
GLZC009I
GLZC010I
GLZC011I
GLZC012I
GLZM001I
GLZM002I
GLZM003I
GLZM004I

GLZM005I
GLZM006I
GLZM007I
GLZM008I
GLZM009I
GLZM010I
GLZM011I
GLZN001I
GLZN002I
GLZN003I
GLZN004I
GLZN005I
GLZS001I
GLZV001I
GLZV002I
GLZV003I
GLZV004I
GLZV005I (APAR OA59573)

HIS037I
HIS038I
HIS039I
HIS040I
HIS041I
HIS042I
HIS043I
IDC1148I
IDC3009I
IDC3041I
IDC3548I (APAR OA55153)
IDC3549I (APAR OA55153)
IDC3550I (APAR OA55153)
IDC3551I (APAR OA55153)
IDC3552I (APAR OA55153)
IDC4233I (APAR OA55153)
IAZH002I
IAZH003I
IAZH123E
IAZH124E
IAZH125E
IAZH126E
IAZH127E
IAZH128E
IAZH201I
IAZH301R
IAZH302R
IAZH303R
IAZH304R
IAZH405D
IEA671I
IEA672I
IEA674I

IEA675I
IEA676I
IEA677I
IEA678I
IEA680I
IEA681I
IEA682I (APAR OA59813)
IEA683I (APAR OA59813)
IEA684I (APAR OA59813)
IEA685I (APAR OA59813)
IEA686I (APAR OA59813)
IEA687I (APAR OA59813)

IEB1181I (APAR OA60639)
IEC817I (APAR OA55440)
IEE257I (APAR OA59813)
IEE588I (APAR OA56924)

IEFA113I (APAR OA57756)
IEFA114I (APAR OA59163)
IEFAH004I (APAR OA59163)
IEFAH005I (APAR OA59163)
IEFAH006E (APAR OA59163)
IEW2411I
IEW2414E
IEW2580W
IFA748E
IFA850I
IFA851I
IGD002I
IGD330I
IGD402I
IGD403I
IGD410E (APAR OA58588)
IGD411I
IGD412I
IGD413I
IGD17340I (APAR OA59041)

IOSHM0821E (APAR OA57050)
IGVH110E (APAR OA59143)
IGVH110I (APAR OA59143)
IGW288E (APAR OA59837)
IGW289I (APAR OA57718 and OA59581)
IGW290I (APAR OA57718 and OA59581)
IGW291I (APAR OA57718)
IGW790E (APAR OA57718)
IGW793E (APAR OA59837)
IGW01618E (OA60829)
IGW01619E (OA60829)
IGV900W
IKJ604I
IOS059I (APAR OA58789)

IOS633I (APAR OA43682)
IOS634I
IOS644I (APAR OA56723)
IOS645I (APAR OA56723)
IOS646I (APAR OA56723)
IOS647I (APAR OA58531)
IRA867I
IOSHM0437I
IOSHM0304I (APAR OA56535)
IOSHM0437I (OA57049)
IOSHM0438I (OA57049)
IOSHM0439I (OA57049)
IOSHM0440I (OA57049)
IOSHM0441I (OA57049)
IOSHM0442I (OA57049)
IOSHM0443I (OA57049)
IOSHM0444I (OA57049)
IOSHM0445I (OA57049)
ISN015I
IWM069I (APAR OA59066)
IWMH101 (APAR OA59066)
IWMH102 (APAR OA59066)
IXCH0105I (APAR OA57113)
IXG081I
IXG082E
IXG388E
IXG458E
IXG734I
IXL062E (APAR OA56774)
IXL063I (APAR OA56774)
IXL064I (APAR OA56774)
None

Changed messages

ADR472E
ADR374E (OA56622)
ADR380E
ADR615E
ADR526W
ADR439E
ADR287I
ADR472E
ADR707E
AMD005I
AMD108I
ANTF0421I
ANTF0447E
ARC0001I (APAR OA58870)
ARC0100I
ARC0104I

ARC0006I (APAR OA58870)
ARC0103I (APAR OA58870)
ARC0139I (APAR OA57404)
ARC0160I (APAR OA57404)
ARC0162I (APAR OA59186)
ARC0249I (APAR OA58870)
ARC0250I (APAR OA58870)
ARC0279I
ARC0523I
ARC0526I
ARC0527I
ARC0535I
ARC0552I (APAR OA59693)
ARC0570I
ARC0734I
ARC0774I
ARC1158I
ARC1181I
ARC1205I
ARC1220I
ARC1245I
ARC1334I (APAR OA52703 & APAR OA60506)
ARC1381I
ARC1605I

BPXP029I (APAR OA58565)
BPXF035I (APAR OA58565)
BPX0045I (APAR OA58565)
AXR0200I
AXR0208I
AXR0209I
AXR0210I
AXR0211I
AXR0212I
AXR0213I
AXR0214I
AXR0215I
AXR0216I
AXR0217I
AXR0218I
BPXF242I
BPXH072E
BPX0043I

CBR0434I (APAR OA58344)
DMO0063E (APAR OA57255)
CBR0016I (APAR OA55700)
CBR0052I (APAR OA55700)
CBR0054I
CBR0080I (APAR OA55700)
CBR0081I (APAR OA55700)
CBR0082I (APAR OA55700)
CBR0302I (APAR OA55700)

CBR0303I (APAR OA55700)
CBR0304I (APAR OA55700)
CBR0305I (APAR OA55700)
CBR0306I (APAR OA55700)
CBR0307I (APAR OA55700)
CBR0309I (APAR OA55700)
CBR0338I (APAR OA55700)
CBR0339I (APAR OA55700)
CBR0344I (APAR OA55700)
CBR0443I (APAR OA55700)
CBR1075I (APAR OA55700)
CBR1090I (APAR OA55700)
CBR1091I (APAR OA55700)
CBR1092I (APAR OA55700)
CBR1093I (APAR OA55700)
CBR1100I (APAR OA55700)
CBR1110 (APAR OA59161)
CBR1130I (APAR OA55700 and OA59161)
CBR1990I (APAR OA55700)
CBR1991I (APAR OA55700)
CBR1992I (APAR OA55700)
CBR1993I (APAR OA55700)
CBR6000I (APAR OA55700)
CBR6001I (APAR OA55700)
CBR6520I (APAR OA55700)
CBR6521I (APAR OA55700)
CBR6522I (APAR OA55700)
CBR6530I (APAR OA55700)
CBR9014I (APAR OA55700)
CBR9015I (APAR OA55700)
CBR9103I (APAR OA55700)
CBR9106I (APAR OA55700)
CBR9225I (APAR OA55700)
CBR9370I (APAR OA55700)
CBR9842I (APAR OA55700)
CBR9890I (APAR OA55700)
CNZ0005I
CNZ4207I
CNZ4303I
CNZ4304I
CNZ6000I
COF10301I
CSV034I
CSV550I
CSV552I
CSV553I
CSV563I
CSV564I
DO0012I
HIS009I
HIS015I

HIS019I
IAR038W (APAR OA60310)
IDC3009I (APAR OA55153)
IDC3351I (reason code)
IEA023E
IEA253I (APAR OA57526 and OA57173)
IEA253I (APAR OA59707)
IEA253I (APAR OA58111)
IEA253I (APAR OA56863)
IEA386I (APAR OA59597)
IEA437I (APAR OA56401)
IEA480E (Form 2 of 2) (APAR OA59828)
IEA497I (APAR OA56953)
IEA671I (APAR OA59813)
IEA672I (APAR OA59813)
IEA674I (APAR OA59813)
IEA675I (APAR OA59813)
IEA678I (APAR OA59813)
IEA681I (APAR OA59813)
IEA705I
IEA794I

IEC023I (APAR OA53955)
IEC036I (APAR OA56622)
IEC037I
IEC141I (APAR OA53955)
IEC143I (APAR OA56622)
IEC150I (APAR OA56622)
IEC161I (return code 071)
IEC212I (APAR OA53955, OA58871)
IEC294A (APAR OA53955)
IEC376W
IEC604I (APAR OA56084)
IEC618I (APAR OA60327)
IEC919I (APAR OA57430)
IEE025I
IEE044I
IEE045I
IEE060I
IEE079I
IEE103I
IEE108I
IEE113I
IEE174I (form 6 of 35) (APARs OA58531, OA56924)
IEE174I (form 17 of 35) (APAR OA56924)
IEE174I (form 21 of 35) (APARs OA58531, OA56924)
IEE174I (form 22 of 35) (APAR OA59813)
IEE174I (form 35 of 35) (APAR OA59813)
IEE273I
IEE274I
IEE302I
IEE303I

IEE313I
IEE328I
IEE329I
IEE339I
IEE340E (APAR OA57593)
IEE345I
IEE372I
IEE373I
IEE374I
IEE387I
IEE406I
IEE409I
IEE420I
IEE423I
IEE424I
IEE459I
IEE460I
IEE461I
IEE463I
IEE464I
IEE476I
IEE529I
IEE535I
IEE587I (APAR OA56924, OA56723)
IEE605I
IEE606I
IEE623I
IEE625I
IEE709I
IEE710I
IEE712I
IEE756I
IEE779I
IEE791I
IEE792I
IEE793I
IEE799D
IEE800D
IEE836D
IEE845I
IEE846I
IEE847I
IEE871I

IEF043I (APAR OA60316)
IEF196I
IEF213I
IEF356I
IEFC023I
IEW2494E
IFA714I
IFA740E

IFA742I
IFA900I (APAR OA60316)
IFA788I (APAR OA53261)
IFB096I
IFC001I
IEW2606S
IGD002I
IGD029I
IGD031I
IGD046I
IGD048I
IGD096I
IGD306I
IGD03157I
IGD413I (APAR OA60327)
IGD17151I (APAR OA56763, APAR OA56622)
IGD17157I (APAR OA56763, APAR OA56622)
IGD17279I (APAR OA59925)
IGD17319I (APAR OA57356)

IGW611A (APAR OA58064)
IGW051I (APAR OA57216)
IGW400I (APAR OA56377)
IGVH100E
IGVH100I
IOS651I (APAR OA60594)
IOS085I (APAR OA43682, OA56723)
IOS090I (APAR OA43682)
IOSHC132E (APAR OA47143)
IOSHC133I (APAR OA47143)
IOSHM0201I (OA57049)
IOSHM0303I (APAR OA56535, OA57050, (OA57049))
IOSHM0420I (OA57049)

IOSHM0819I (APAR OA56535)
IQP062I (APAR OA56143)
IQP066I (APAR OA56143)
IRA501I
IRA864I
ISG353E
IWM063I
IWM064I (APAR OA59366)

IXC285I
IXC286I
IXC357I (APAR OA56774)
IXC358I
IXC360I (APAR OA56774)
IXC362I (APAR OA56774)
IXC453I
IXC544I (APAR OA61062)
IXC546I (APAR OA61062)
IXC735I

IXCH0420E (APAR OA57113)
IXCH0421I (APAR OA57113)
IXG001E
IXG002E
IXG003I
IXG004I
IXG005I
IXG006I
IXG007E
IXG008E
IXG010E
IXG012E
IXG016E
IXG017E
IXG018E
IXG032E
IXG033E
IXG034E (APAR OA54815)
IXG035E
IXG036E
IXG040E
IXG041E
IXG047I
IXG049I
IXG052I
IXG054A
IXG059I
IXG060I
IXG061I
IXG065I (APAR OA54815)
IXG233I
IXG251I
IXG284I
IXG384I
IXG405I
IXG432E
IXG433E
IXG434E
IXG442E
IXG446E
IXG447I
IXG448I
IXG601I
IXG607I
IXG652I
IXG735I
IXL055I (APAR OA56774)
IXL056I (APAR OA56774)
IXC285I
IXC286I
IXC357I (APAR OA56774)

IXC358I
IXC360I (APAR OA56774)
IXC362I (APAR OA56774)
IXC453I
IXC544I (APAR OA61062)
IXC546I (APAR OA61062)
IXC735I
IXCH0420E (APAR OA57113)
IXCH0421I (APAR OA57113)
IXG001E
IXG002E
IXG003I
IXG004I
IXG005I
IXG006I
IXG007E
IXG008E
IXG010E
IXG012E
IXG016E
IXG017E
IXG018E
IXG032E
IXG033E
IXG034E (APAR OA54815)
IXG035E
IXG036E
IXG040E
IXG041E
IXG047I
IXG049I
IXG052I
IXG054A
IXG059I
IXG060I
IXG061I
IXG065I (APAR OA54815)
IXG233I
IXG251I
IXG284I
IXG384I
IXG405I
IXG432E
IXG433E
IXG434E
IXG442E
IXG446E
IXG447I
IXG448I
IXG601I
IXG607I

IXG652I
IXG735I
IXL055I (APAR OA56774)
IXL056I (APAR OA56774)

No longer issued messages

None

New dump output messages

IFA10112I

New MVS system codes

System completion codes

For system completion code 42, reason codes 00090003-00090007 were added via APAR OA60351.

For system completion code EC6, reason codes 803B and 8040 were added.

For system completion code 422, reason code XXXX01A8 was added. (APAR OA59829)

For system completion code C0D, reason code 80040029 is added. (APAR OA59573)

For system completion code B78, reason code 7C is added.

For system completion code DC2, reason code 0084 is added. (APAR OA58289)

For system completion code B78, reason code 78 is added.

For system completion code 3C4, reason code 0000001D is added.

For system completion code 02A, new reason codes 00000074, 00000078, 0000007C, 00000080, 00000084, 00000088, 0000008C, 00000090, 00000094, 00000098, 0000009C, 000000A0, 000000A4, 000000A8, 000000AC, 000000B0, 000000B4, 000000B8, 000000BC, 000000C0, 000000C4, 000000C8, 000000D4, 000000D8, 000000DC, 000000E0, 000000E4, 000000E8, 000000EC, 000000F0, 000000F4, 000000F8, 000000FC, 00000100, 00000104, 00000108, 0000010C, 00000110, 00000114, and 00000118 have been added.

For system completion code 0F7, new reason codes 1E0, 1E4, 1F0, 1F4, 1F8, 1FC, 200, 204, and 208 have been added.

For system completion code 653, reason code 0C is added.

For system completion code 655, reason code 300 is added.

For system completion code 01A, reason code 30 is added.

For system completion code 01D, new reason codes are added.

For system completion code 08B, new reason code 0057 is added. (APAR OA59306)

For system completion code 08F, a new reason code is added.

For system completion code C0D, new reason codes are added.

For system completion code DC2, reason codes 0024, 0073, 0083, and 2001 are added.

Wait state codes

For wait state code 07C, reason code 09 is added.

For wait state code 0A2, reason code 19C is added.

Changed MVS system codes

System completion codes

For system completion code 01D, reason code xx030Fxx has been updated.

System completion code 024 has been updated.

System completion code 027 has been updated.

System completion code 07D has been updated.

System completion code 0A6 has been updated.

System completion code 0AD has been updated.
 System completion code 06F has been updated.
 System completion code 09F has been updated.
 System completion code 1C2 has been updated.
 System completion code 16E has an updated explanation and reason codes (APAR OA53955).
 System completion code 2C2 has been updated.
 System completion code 3C2 has been updated.
 For system completion code 378, reason code 14 has been updated.
 System completion code 40D has been updated.
 System completion code 435 has an updated explanation and reason codes (APAR OA53955).
 For system completion code D22, reason code 24 is removed.
 System completion code EC7 has been updated.

Wait state codes

Wait state code 07B has been updated.
 Wait state code to module table updates, added A2E

No longer issued MVS system codes

Wait state codes

System completion code 0AF was deleted.

Communications Server message changes for z/OS V2R4

This section contains new, changed, and no longer issued messages and codes for Communications Server.

New

EZA4444E
 EZA4445E
 EZD1393I
 EZD1976E
 EZD1977E
 EZD1979E
 EZD2045I
 EZD2046I
 EZD2048I
 EZD2049I
 EZD2050I
 EZD2051I
 EZYFT79I
 EZYFT88I
 EZZ0839I
 EZZ8306I
 IST2447I
 IST2448I
 IST2449I
 IST2450I
 IST2451I
 IST2452I
 IST2453I
 IST2454I
 IST2455E

IST2456I
IST2457I
IST2458I
IST2459I
IST2460I
IST2461I
IST2462I
IST2463I
IST2464I
IST2465I
ISTH038E
ISTH039I
ISTH040E
ISTM034E
ISTM037I
ISTM038E
ISTM041I
ISTM042E
ISTM043I
ISTM044E
ISTM045I
ISTM046E
ISTM047I
ISTM048E
ISTM049I
ISTM050E

Changed

EZA4423I
EZD0007I
EZD0009I
EZD1282I
EZD1283I
EZD1286I
EZD1360I
EZD1362A
EZZ0839I
EZZ6035I
EZZ8306I
EZZ8453I
EZZ9293I
EZZ9298I
EZZ9304I
IST087I
IST1221I
IST1230I
IST1233I
IST1717I
IST2418I
IST2421I
ISTH017E

Cryptographic Services ICSF message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Cryptographic Services Integrated Cryptographic Service Facility (ICSF).

The messages for Cryptographic Services Integrated Cryptographic Service Facility (ICSF) are documented in *z/OS Cryptographic Services ICSF Messages*.

New

CSFG1154 (APAR OA60318)
CSFG1164 (APAR OA60318)
CSFH0042I
CSFH0043I
CSFH0044E
CSFH0045I
CSFH0046I
CSFH0047E
CSFH0048E
CSFM005A
CSFM722I
CSFM727I (APAR OA60318)
CSFM729I (APAR OA60318)

Changed

CSFM109I
CSFM111I
CSFM123E
CSFM124I
CSFM129I
CSFM134I
CSFM135E
CSFM136I
CSFM137E
CSFM138I
CSFM139I
CSFM661I (APAR OA59593)
CSFM667I
CSFM668I
CSFM670I
CSFM689I
CSFM691E

No longer issued

CSFO0026

Cryptographic Services PKI Services message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Cryptographic Services PKI Services.

All messages for PKI Services are documented in *z/OS Cryptographic Services PKI Services Guide and Reference*.

New

IKYC098I
IKYP055I
IKYP056I

Changed

IKYC055I
IKYC056I
IKYC058I
IKYP031E

No longer issued

None

DFSORT message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for DFSORT.

All messages for DFSORT are documented in *z/OS DFSORT Messages, Codes and Diagnosis Guide*.

New

ICE167A
ICE267I
ICE268I
ICE269A
ICE399I

Changed

ICE000I
ICE039A
ICE201I

No longer issued

None

Hardware Configuration Definition (HCD) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Hardware Configuration Definition (HCD).

The messages for HCD are documented in *z/OS and z/VM HCD Messages*.

New

The following messages are new.

CBDG114E
CBDG115E
CBDG119I
CBDG897I

Changed

The following messages are changed.

CBDA203I
CBDA390I
CBDC099I
CBDG375I

Deleted

The following messages have been deleted.

CBD0002I
CBD0003I
CBD0004I
CBD0005I
CBD0006I
CBD0007I
CBD0008I
CBD0009I
CBD0010I
CBD1000I
CBD1001I
CBD1002I
CBD1003I

IBM Tivoli Directory Server (TDS) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for IBM Tivoli® Directory Server (TDS).

The messages for IBM Tivoli Directory Server are documented in *z/OS IBM Tivoli Directory Server Messages and Codes for z/OS*.

New

None

Changed

None

No longer issued

None

Device Support Facilities (ICKDSF) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Device Support Facilities (ICKDSF).

The messages for ICKDSF are documented in *Device Support Facilities (ICKDSF) User's Guide and Reference*.

New

ICK03096I
ICK11468I
ICK20807I
ICK32177I
ICK34151I
ICK34152I
ICK34153I

Changed

ICK03095I
ICK31529I
ICK32177I
ICK34102I
ICK34104I
ICK34108I
ICK34109I
ICK34111I
ICK34141I

No longer issued

None

Infoprint Server message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Infoprint Server and IBM Print Transform from AFP for Infoprint Server for z/OS.

The messages and codes for Infoprint Server are documented in *z/OS Infoprint Server Messages and Diagnosis*.

The messages and codes for IBM Print Transform from AFP for Infoprint Server for z/OS are documented in *IBM Print Transforms from AFP for Infoprint Server for z/OS*.

New

AOP125E

AOP2026W
AOP2061E
AOP2201E
AOP2500W
AOP2501E
AOP2502I
AOP2503I
AOP2504E
AOP2505E
AOP2506W
AOP2507E
AOP2508E
AOPH1803I
AOPH1804E
AOPH1805I
AOPH1806I
AOPH1902E
AOPH1903R
AOPH1905I
AOPH1906E
AOPH1907R
AOPH1908I
AOPH1909E

Changed

AOP047E - reference to `aopd.conf` is removed from the system programmer response.
AOP092E - text, explanation, system action, user action, and system programmer response are rewritten to include all resource and access types.
AOP101E - reference to `aopd.conf` is removed from the system programmer response.
AOP139E - references to `aopd.conf` and situations where dynamic configuration is not enabled are removed from the system programmer response.
AOP159E - text, explanation, system action, and system programmer response are rewritten for an unsupported file format.
AOP191I - explanation, system action, and system programmer response are rewritten to indicate that the `aopmsg.conf` file and most of the attributes in the `aopd.conf` file are ignored.
AOP3608E - reference to `aopd.conf` is removed from the system programmer response.
AOP3906E - references to the `AOP_APPLID` environment variable are removed from the explanation and system programmer response.
AOP3910E - reference to the `AOP_APPLID` environment variable is removed from the system programmer response.
AOPIM017 - reference to enabling dynamic configuration is removed from the system programmer response.

No longer issued

AOP148E
AOP149E
AOP150I
AOP151E
AOP152E
AOP153W
AOP2202E

AOP2203E
AOP2204W
AOPIM006

New system completion codes

Printer Inventory Manager reason code 56

Integrated Security Services Network Authentication Service message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for Integrated Security Services Network Authentication Service.

All messages for Network Authentication Services are documented in *z/OS Integrated Security Services Network Authentication Service Administration*.

New

EUVF06171E

Changed

EUVF04169E
EUVF06004I

No longer issued

None

ISPF message changes for z/OS V2R4

This section contains new, changed, and no longer issued messages and codes for ISPF.

All messages for ISPF are documented in *z/OS ISPF Messages and Codes*.

New

ISPI014
ISPI015
ISPP010
ISRU070B
ISRU070C
ISRU071D
ISRU071E
ISRU072D
ISRU072E
ISRU113A
ISRU393
ISRU394
ISRU437A
ISRU859
ISRU597

Changed

FLM396L
FLM87310
ISPC035
ISPC804
ISPP255
ISPWS018
ISRD014
ISRD019
ISRE679
ISRLS176
ISRS007
ISRS034
ISRS050
ISRS080

No longer issued

ISRLS021
ISRLS024
ISRLS026
ISRLS028

JES2 message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for JES2.

The messages for JES2 are documented in *z/OS JES2 Messages*.

New

\$HASP149
\$HASP665
\$HASP735
\$HASP736
\$HASP737
\$HASP1100
\$HASP1178
\$HASP1179
\$HASP1180
\$HASP1181
\$HASP1182
\$HASP1183
\$HASP1184
\$HASP1185
\$HASP1186
\$HASP1187
\$HASP1188
\$HASP1189
\$HASP1190
\$HASP1191
\$HASP1192
\$HASP1193

\$HASP1194
\$HASP1195
\$HASP1196
\$HASP1197
\$HASP1198
\$HASP1199
\$HASP1308
\$HASP1600
\$HASP1601
\$HASP1602
\$HASP1603
\$HASP1604
\$HASP1605
\$HASP1606
\$HASP1607
\$HASP1608
\$HASP1609
\$HASP1610
\$HASP1611
\$HASP1612
\$HASP1613
\$HASP1614
\$HASP1615
\$HASP1616
\$HASP1617
\$HASP1623
\$HASP1624
\$HASP1625
\$HASP1626
\$HASP1627
\$HASP1628
\$HASP1629
\$HASP1630
\$HASP1631
\$HASP1632
\$HASP1633
\$HASP1634
\$HASP1635
\$HASP1636
\$HASP1637
\$HASP1638
\$HASP1639
\$HASP1640
\$HASP1641
\$HASP1642
\$HASP1643
\$HASP1644
\$HASP1645
\$HASP1646
\$HASP1647
\$HASP1648

\$HASP1649
\$HASP1650
\$HASP1651
\$HASP1652
\$HASP1653
\$HASP1654
\$HASP1655
\$HASP1656
\$HASP1657
\$HASP1658
\$HASP1659
\$HASP1660
\$HASP1661
\$HASP1900
\$HASP1901
\$HASP1902
\$HASP1903
\$HASP1904
\$HASP2222
\$HASP2223
\$HASP6140
\$HASP6175
\$HASP6176
\$HASP6177
\$HASP9182

Changed

\$HASP003
\$HASP111
\$HASP650
\$HASP720
\$HASP1111
\$HASP1657

No longer issued

None

JES3 message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for JES3.

The messages for JES3 are documented in *z/OS JES3 Messages*.

New

None.

Changed

IAT3844
IAT3937
IAT3938

IAT9307

No longer issued

None.

Language Environment message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for Language Environment®.

The messages for Language Environment are documented in *z/OS Language Environment Runtime Messages*.

New

IGZ0342W (APAR PH26783)
IGZ0350S (APAR PH15921)
IGZ0351S (APAR PH15921)
IGZ0352S (APAR PH15921)
IGZ0353S (APAR PH15921)
IGZ0354S (APAR PH15921)
IGZ0355S (APAR PH15921)
IGZ0356I (APAR PH15921)
IGZ0372S (APAR PH31133)
IGZ0373S (APAR PH31133)
IGZ0374S (APAR PH31133)
IGZ0375S (APAR PH31133)
IGZ0376S (APAR PH31133)

Changed

CEE3754S
IGZ0064S
IBM0225S
IBM0236S
IGZ0153S
IGZ0339W

No longer issued

None.

Network File System (NFS) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for Network File System (NFS).

All messages for NFS are documented in *z/OS Network File System Guide and Reference*.

New

GFSA325E
GFSA327I
GFSA880E
GFSA989E
GFSA992I
GFSA1035I

GFSA1037E

GFSA1038I

Changed

GFSA320E

GFSA473E

GFSA480E (1Q2020)

GFSA481E (1Q2020)

GFSA733I

GFSA784I

GFSA801I

GFSA854I

GFSA918I

GFSA930I

GFSA936I

GFSA939I

GFSA963E

GFSA1030E

GFSA1031I

No longer issued

None

OpenSSH message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for OpenSSH.

The messages for z/OS OpenSSH are documented in [z/OS OpenSSH User's Guide](#).

New

FOTS1794 (APAR OA57432)

Changed

FOTS1370

No longer issued

None.

Resource Measurement Facility (RMF) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for Resource Measurement Facility (RMF).

The messages for RMF are documented in [z/OS RMF Messages and Codes](#).

New

ERB898I

ERB949I

ERB950I

ERB951I

ERB952I
ERB953I
ERB954I
GPM0634I
GPM0635I
GPMH1001I (APAR OA60403)
GPMH1002I (APAR OA60403)
GPMH1003E (APAR OA60403)
GPMH1004I (APAR OA60404)
GPMH1005E (APAR OA60404)

Changed

ERB140I
ERB292I
ERB425I
ERB617I
ERB619I
ERB629I
GPM0632I
GPM0633I

No longer issued

GPM054I (APAR OA60404)
GPM055I (APAR OA60404)
GPM255I (APAR OA60404)

Security Server RACF message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for RACF®.

All messages for RACF are documented in *z/OS Security Server RACF Messages and Codes*.

New

ICH408I
IRR421I
IRR52223I
IRR52224I
IRR52225I
IRR52230I
IRR52231I
IRR52232I
IRR52233I
IRR52234I
IRR52235I
IRR52236I
IRR52251I
IRR52252I
IRR52253I
IRR52254I
IRR52255I
IRR52256I

IRR083I
 IRRD304I
 IRRD305I
 IRRDPI00
 IRRM056I
 IRRM057I
 IRRM058I
 IRRM060I
 IRRM061I
 IRRM062I
 IRRM063I

Changed

IRR52141I
 IRR52142I
 IRR52218I
 IRRD135I
 IRRD157I
 IRRD188I

No longer issued

IRR52140I

SMP/E V3R7 message changes for z/OS V2R4

This topic lists new, changed, and no longer issued non-operator messages for SMP/E.

All messages for SMP/E are documented in *z/OS SMP/E Messages, Codes, and Diagnosis*.

New

GIM47101S (APAR IO27564)

Changed

GIM69207S

No longer issued

None

System Display and Search Facility (SDSF) message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for System Display and Search Facility (SDSF).

All messages for SDSF are documented in *z/OS SDSF Operation and Customization*.

New

None

Changed

None

No longer issued

None

TSO/E message changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages for TSO/E.

The messages for TSO/E are documented in *z/OS TSO/E Messages*.

New

IKJ55320I

IKJ55328I

IKJ56469I

Changed

IKJ56425I

No longer issued

CHSCMI01I

CHSCOM09I

CHSCOM10I

CHSCOM11I

CHSCPS01E

CHSCPS02E

CHSCPS03E

CHSCPS04E

CHSCPS05E

CHSCPS06E

CHSCPS07I

CHSCPS08I

CHSCPS09E

CHSCPS10I

CHSCUT01I

CHSCUT02E

CHSCUT03E

CHSCUT04I

CHSCUT05I

CHSCUT06I

CHSCUT07I

CHSCUT08I

CHSCUT09E

CHSCUT11E

CHSCUT12E

CHSCUT13E

CHSCUT14E

CHSCUT15E

CHSDCA01E

CHSDCA03E
CHSDCA04E
CHSDCA05E
CHSDCA06I
CHSDCA07E
CHSDCA08I
CHSDCA09E
CHSDCOM01I
CHSDCOM02E
CHSDCOM03E
CHSDCOM04E
CHSDCOM05E
CHSDCOM06E
CHSDCOM07I
CHSDCOM08I
CHSDCOM09I
CHSDCOM10E
CHSDCOM11E
CHSDCOM12I
CHSINF01E
CHSINF02I
CHSINF03E
CHSIPM01E
CHSIPM02I
CHSIPM03E
CHSIPM04I
CHSIPM05E
CHSIPM06I
CHSIPM07I
CHSIPM08I
CHSREC01I
CHSREC02I
CHSREC03I
CHSREC04I
CHSREC06I
CHSREC07I
CHSREC08I
CHSREC09E
CHSRUT01E
CHSRUT02E
CHSRUTR01I
CHSRUTR02I
CHSRUTR03I
CHSRUTR04I
CHSRUTR05I
CHSRUTR06I
CHSRUTR07I
CHSRUTR08E
CHSRUTR09E
CHSRUTR10E
CHSRUTR11E

CHSRUTR12I
CHSRUTR13I
CHSRUTR14I
CHSRUTR15I
CHSRUTR16E
CHSRUTR17I
CHSSPR01I
CHSSRI01I
CHSSRI02I
CHSSRI03I
CHSSRI04E
CHSSRI05E
CHSSRI06E
CHSSRV01E
CHSSRV02I
CHSSRV03I
CHSTCA01E
CHSTCA02E
CHSTCA03I
CHSTCA04I
CHSTCA05E
CHSTCA06I
CHSTCA07E
CHSTCA08E
CHSTCA09I
CHSTCA10I
CHSTCA11E
CHSTCA12E
CHSTCA13I
CHSTCA14E
CHSTCA15E
CHSTCA16E
CHSTCA17E
CHSTCA18E
CHSTCA19I
CHSTCA20E
CHSTRH01I
CHSTRH02I
CHSTRH201I
CHSTRH202I
CHSTRL01I
CHSTRR01I
CHSTRS01I
CHSTSF01I
CHSTSF02I
CHSTSF03I
CHSTSF04I
CHSTSF05I
CHSTSF06I
CHSTSF07I
CHSTSF08I

CHSTSF09I
 CHSTSF10I
 CHSTSF11I
 CHSTSF12I
 CHSTSF13I
 CHSTSF13I
 CHSTSF14I
 CHSTSF14I
 CHSTSF15I
 CHSTSF15I
 CHSTSF16I
 CHSTSF16I
 CHSTSF17I
 CHSTSF17I
 CHSTSF18I
 CHSTSF18I
 CHSTTP01I
 CHSTTP02I

XL C/C++ message changes for z/OS V2R4

This lists contains new, changed, and no longer issued messages for XL C/C++.

The messages for XL C/C++ are documented in *z/OS XL C/C++ Messages*.

New

Changed

No longer issued

Xvfb message changes for z/OS V2R4

This topic lists new, changed, and no longer issued non-operator messages for Xvfb.

All messages for Xvfb are documented in *z/OS Xvfb User's Guide*.

New

None

Changed

None

No longer issued

None

z/OS File System (zFS) message and code changes for z/OS V2R4

This topic lists new, changed, and no longer issued messages and codes for z/OS File System (zFS).

The following messages and reason codes are new, changed, or no longer issued for z/OS File System (zFS) in z/OS V2R4.

New messages for zFS

The following messages are new for zFS.

IOEZ01031E (APAR OA59435)
IOEZ01027E
IOEZ01028E
IOEZ01029E
IOEZ01030E

New messages for Health Checker

The following messages are new for Health Checker.

None.

Changed messages for zFS

The following messages are changed for zFS.

IOEZ00857I (APAR OA59435)
IOEZ00782I
IOEZ00642I
IOEZ00004I
IOEZ00323I
IOEZ00324I
IOEZ00617I
IOEZ00639I
IOEZ00705I

Changed messages for Health Checker

The following messages are changed for Health Checker.

None.

New reason codes for zFS

The following reason codes are new for zFS.

6C94
6CA0
6CA2
6CA3
6CA5
6D0A
6D0B
6DOC
6D0D
6D0E
6D11
6D12

Changed reason codes for zFS

The following reason codes are changed for zFS.

None.

z/OS UNIX message changes for z/OS V2R4

This topic lists new, changed, and deleted messages, reason codes, and return codes for z/OS UNIX.

z/OS UNIX messages, reason codes, and return codes are documented in *z/OS UNIX System Services Messages and Codes*.

New messages

FSUMF437 (APAR OA59201)
FSUMF438 (APAR OA59201)
FSUMF439 (APAR OA59201)
FSUMF440 (APAR OA59201)
FSUMF445 (APAR OA59201)
FSUMF446 (APAR OA59201)
FSUMF447 (APAR OA59201)
FSUMF448 (APAR OA59201)
FSUMF435 (APAR OA57659)
BPXWVG020I
BPXWVG022I
BPXWVG023I
BPXWVG024I
BPXWVG025I
BPXWVG026I
BPXWVG027I
BPXWVG028I
BPXWVG029I

Changed messages

FDBX0722
FSUM9225 (APAR OA58116)

Deleted messages

None.

New reason codes

JRMmapAddrNot64Bit (APAR OA60306)
JR3164BitMismatch (APAR OA60306)
JRMmapMaxShareFail (APAR OA60306)
JrPFSTerminating (APAR OA59829)
JrMigEOMCancel (APAR OA57021)
JrDVIPAServicesNotActive
JrMigMoveCancel
JRPtLDRMODE64Loadmod
JrMvRemntInProgress
JrTtlsResetWriteCipherFailed
JrTtlsSendSessionTicketFailed

Changed reason codes

JRNoUserStorage (APAR OA60306)
JrMigDownLevel (APAR OA59891)

JRMigSrcNotHFS

Deleted reason codes

None.

New return codes

None.

Changed return codes

None.

Deleted return codes

None.

Chapter 2. New and changed System Management Facilities (SMF) records for z/OS V2R4

This topic lists the System Management Facilities (SMF) records for z/OS elements and features that are new or changed for z/OS V2R4.

Table 1 on page 39 provides a list of SMF records that are new or changed for z/OS V2R4. Detailed information about these SMF records can be found in one of the following documents, as indicated by the "Where documented" column in Table 1 on page 39.

Communications Server

- [Type 119 SMF records](#) in *z/OS Communications Server: IP Programmer's Guide and Reference*
- [Tuning input/output \(I/O\) operations for RoCE connections](#) in *z/OS Communications Server: SNA Network Implementation Guide*

MVS

z/OS MVS System Management Facilities (SMF)

OAM

OAM System Management Facility records in z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support

RACF

SMF records in z/OS Security Server RACF Macros and Interfaces

SMF record	z/OS element or feature	Description	Where documented
Type 23	MVS	<ul style="list-style-type: none"> • SMF can now report a maximum of 100 logstream statistics sections in each record (APAR OA61083). 	MVS
Type 30	MVS	<ul style="list-style-type: none"> • The description for byte 0 of the SMF30CAS_OA54589 field has been updated in the Processor Accounting section. • The descriptions of the RECTYPE and SUBTYPE parameters for the SMFRTEST macro are updated. • SMF42RDS1 and SMF42RCMDS fields are updated via APAR OA59541. • New System Recovery Boost fields added in the CPU accounting section. • New TIOT high-water mark fields added in the Storage and Paging section. 	MVS
Type 42, Subtype 5	DFSMS	<p>New fields added in the volume header section, and the following new sections added:</p> <ul style="list-style-type: none"> • Volume metrics section • System I/O section • System I/O statistics section • System I/O high response time section • Volume background activity • Volume cloud activity 	MVS

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 42, Subtype 6	DFSMS	<ul style="list-style-type: none"> • For APAR OA57718, new fields are added to the record header, and the following new sections are added: <ul style="list-style-type: none"> – Synchronous I/O Section 2 – Synchronous I/O Section 3 • New fields added in the data set I/O statistics section. • For Media Manager support for Dual Logging, new fields, S42SNTWH, S42SNTDR, S42SNTDX, S42DS2FL and S42DS2DL are added in Synchronous I/O Section 2. 	MVS
Type 42, Subtype 27	DFSMS	Fields SMF42RDS1 and SMF42RCMDS are updated. (APAR OA59541)	MVS

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 50, Record for RoCE connection	Communications Server	<ul style="list-style-type: none"> • Added new fields for RoCE port and RoCE user records: <ul style="list-style-type: none"> Offset 26 (36 bytes) Reserved Offset 62 (1 byte) Extension length (including this field) Offset 63 (1 byte) Attachment type Offset 64 (2 bytes) Version Offset 66 (16 bytes) Reserved • Added new fields for RoCE port records: <ul style="list-style-type: none"> Offset 82 (4 bytes) Number of RoCE users Offset 86 (4 bytes) Poll EQ overflow Offset 90 (4 bytes) Poll EQ count Offset 94 (4 bytes) Poll EQ entries overflow Offset 98 (4 bytes) Poll EQ entries count Offset 102 (4 bytes) PCI real interrupts overflow Offset 106 (4 bytes) PCI real interrupts count Offset 110 (4 bytes) Unproductive PCI overflow Offset 114 (4 bytes) Unproductive PCI count • Added new field for RoCE user records: <ul style="list-style-type: none"> Offset 118 (8 bytes) ULP ID • Changed the offsets for the existing RoCE user record fields at offset 26 (120 bytes). Fields were shifted 100 bytes. The new offsets are 126 through 242. 	Communications Server
Type 70, subtype 1	RMF	<ul style="list-style-type: none"> • The description of the SMF70OS_PRTCT field is updated in the CPU Control Section. • The PR/SM Partition Data section updated for System Recovery Boost. • Boost indicators are set in the PR/SM Logical Partition data section. • New fields added in the CPU Control Section. • New field added in the Tenant Resource Group (TRG) Data Section. 	MVS

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 70, subtype 2	RMF	<ul style="list-style-type: none"> • FFX measurement fields are added via APAR OA59330. • Performance data is stored. 	MVS
Type 71	RMF	Some field descriptions have been updated to support RUCSA in the Paging Data Section.	MVS
Type 72 subtype 3	RMF	The Workload Manager Control section is updated for System Recovery Boost.	MVS
Type 74, subtype 2	RMF	The Path Usage Statistics block is added in the Path Data Section.	MVS
Type 74, subtype 4	RMF	New fields are added in the Request Data Section via APARs OA58729 and OA58724.	MVS
Type 74, subtype 9	RMF	New field added in the PCIE Function Data Section.	MVS
Type 78, subtype 2	RMF	New RUCSA-related fields are added in the Virtual Storage Common Storage Data Section, and some field descriptions have been updated.	MVS
Type 78, subtype 3	RMF	<ul style="list-style-type: none"> • In the I/O queuing global section, field R783GLX has new bits defined. • New fields are added in the IOP Initiative Queue and Utilization Data Section. 	MVS
Type 79	RMF	Some field descriptions have been updated to support RUCSA in the SRCS Data Section.	MVS
Type 89	MVS	New SMF89SolutionID field in the System ID section for APAR OA60198.	MVS
Type 89, subtype 1	MVS	<ul style="list-style-type: none"> • New fields added in the Usage data section. • New fields added in the Tenant resource group section. 	MVS
Type 89, subtype 1	MVS	The Usage Data section is updated for System Recovery Boost.	MVS
Type 89, subtype 2	MVS	The Product enable/disable section is updated for System Recovery Boost.	MVS
Type 90, subtype 40	MVS	<ul style="list-style-type: none"> • SMF90T40_RP_Start_Requestor_ID and SMF90T40_RP_Duration fields are added via APAR OA59813. • SMF90T40_Event, SMF90T40_Flags0, and SMF90T40_Flags1 fields are updated via APAR OA59813 • Record type 90, subtype 40, is added for System Recovery Boost. 	MVS
Type 90, subtype 41	MVS	New subtype 41 added to record type 90.	MVS
Type 92, subtype 12	MVS	New offsets 8 and 24 added for APAR OA60306.	
Type 2, subtype 13	MVS	New offsets 16 and 14 added for APAR OA60306.	

<i>Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 98	MVS	Support for IBM z/OS Workload Interaction Correlator is added, including record layouts for new subtypes.	MVS
Type 99	MVS	New field added in the Header data section.	MVS
Type 99, subtype 1	MVS	<ul style="list-style-type: none"> • SMF99_BOOSTINFO field is added via APAR OA59366. • Several field descriptions have been updated in the following sections: <ul style="list-style-type: none"> – Header/Self-defining Section – System State Information Section – Resource Group Entry Section – Software licensing information 	MVS
Type 99, subtype 2	MVS	<ul style="list-style-type: none"> • SMF99FLAGS2 field in the Period Data section has been updated via APAR OA59366. • Several field descriptions have been updated in the following sections: <ul style="list-style-type: none"> – Period Data Section – Address space expanded storage access policy section 	MVS
Type 99, subtype 10	MVS	Several field descriptions have been updated in the following sections: <ul style="list-style-type: none"> • CPU Data Section • Processor Speed Change Section 	MVS
Type 99, subtype 14	MVS	Some field descriptions have been updated in the Header data section.	MVS
Type 119, TCP connection termination (subtype 2)	Communications Server	These new fields record SMC characteristics of the TCP connection: <ul style="list-style-type: none"> • SMF119AP_TTSMCVersion • SMF119AP_TTSMCDEid <p>Reason for change: Shared Memory Communications - Direct multiple IP subnet support (SMC-Dv2)</p>	Communications Server
Type 119, subtype 2	Communications Server	<ul style="list-style-type: none"> • SMF119AP_TTTTLSSP – negotiated protocol type can have a new value of 'x'0304' indicating TLSv1.3. • SMF119AP_TTTTLSSNC4 – negotiated 4-byte cipher can have new values. • SMF119AP_TTTTLSSNKS – new field TLSv1.3 negotiated key share <p>Reason for change: AT-TLS support for TLS v1.3</p>	Communications Server

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)			
SMF record	z/OS element or feature	Description	Where documented
Type 119, subtype 3, subtype 101, subtype 102, and subtype 103	Communications Server	<ul style="list-style-type: none"> SMF119FT_FCProtoLevel – negotiated protocol type can have a new value of x'0304' indicating TLSv1.3. SMF119FT_FCCipher4 – negotiated 4-byte cipher can have new values. SMF119FT_FCKeyShare – new field negotiated TLSv1.3 key share. <p>Reason for change: AT-TLS support for TLS v1.3</p>	Communications Server
Type 119, TCP/IP profile record (subtype 4)	Communications Server	<p>These new fields record the settings of the new SMC parameters on the GlobalConfig statement:</p> <ul style="list-style-type: none"> NMTP_GBCFSYSTEMEID NMTP_GBCFSYSTEMEIDSTR NMTP_GBCFSMCEID NMTP_GBCFSMCEIDCount NMTP_GBCFUEIDList <p>Reason for change: Shared Memory Communications - Direct multiple IP subnet support (SMC-Dv2)</p>	Communications Server
Type 119, TCP/IP profile record (subtype 4)	Communications Server	<p>NMTP_GBCFSysMonOptions in the Global Configuration section - New fields, NMTP_GBCFSysMonDelayJoinI and NMTP_GBCFSysMonIpsec, indicate the settings of the SYSPLEXMONITOR DELAYJOINIPSEC and MONIPSEC subparameters.</p> <p>Reason for change: Sysplex Autonomics for IPsec</p>	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>Global Configuration section:</p> <p>New field NMTP_GBCFzAGGtim_INTVAL indicates the setting of the INTVAL sub-parameter on the GLOBALCONFIG statement.</p> <p>New field NMTP_GBCFzAGGtim_SYNCVAL indicates the setting of the SYNCVAL sub-parameter on the GLOBALCONFIG statement.</p> <ul style="list-style-type: none"> NMTP_GBCFzAGGtim_SYNCVAL_HH is the hours part of SYNCVAL (format of 24-hour military time). NMTP_GBCFzAGGtim_SYNCVAL_MM is the minutes portion of SYNCVAL. <p>Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation recording interval</p>	Communications Server
Type 119, TCP/IP statistics record (subtype 5)	Communications Server	<p>New fields SMF119AP_TSSTZAGGCurrent and SMF119AP_TSSTZAGGMax, in the TCP statistics section, provide current and maximum storage usage statistics for ZERT AGGREGATION.</p> <p>Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation recording interval</p>	Communications Server

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)			
SMF record	z/OS element or feature	Description	Where documented
Type 119, z/OS Encryption Readiness Technology (zERT) connection details (subtype 11)	Communications Server	<p>New fields have been defined:</p> <ul style="list-style-type: none"> SMF119SC_TLS_Server_Handshake_Sig_Method SMF119SC_TLS_Client_Handshake_Sig_Method SMF119SC_TLS_Neg_Key_Share <p>New values has been defined for the following fields:</p> <ul style="list-style-type: none"> SMF119SC_SSH_Kex_Method SMF119SC_SSH_SKey_Type SMF119SC_TLS_Prot_Ver SMF119SC_TLS_Neg_Cipher SMF119SC_TLS_SCert_Signature_Method SMF119SC_TLS_CCert_Signature_Method SMF119SC_TLS_CryptoFlags <p>Reason for change: AT-TLS support for TLSv1.3</p>	Communications Server
Type 119, z/OS Encryption Readiness Technology (zERT) summary (subtype 12)	Communications Server	<p>New fields have been defined:</p> <ul style="list-style-type: none"> SMF119SS_TLS_Server_Handshake_Sig_Method SMF119SS_TLS_Client_Handshake_Sig_Method SMF119SS_TLS_Neg_Key_Share <p>New values has been defined for the following fields:</p> <ul style="list-style-type: none"> SMF119SS_SSH_Kex_Method SMF119SS_SSH_SKey_Type SMF119SS_TLS_Prot_Ver SMF119SS_TLS_Neg_Cipher SMF119SS_TLS_SCert_Signature_Method SMF119SS_TLS_CCert_Signature_Method SMF119SS_TLS_CryptoFlags <p>Reason for change: AT-TLS support for TLSv1.3</p>	Communications Server
Type 119, SMC-D link statistics (subtype 38)	Communications Server	<p>These new fields record SMC characteristics of the SMC-D link:</p> <ul style="list-style-type: none"> SMF119DM_LSSMCVersion SMF119DM_LSEid SMF119DM_LSRmtHostName SMF119DM_LSRmtOSType <p>Reason for change: Shared Memory Communications - Direct multiple IP subnet support (SMC-Dv2)</p>	Communications Server

Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 119, SMC-D link state start record (subtype 39)	Communications Server	<p>These new fields record SMC characteristics of the SMC-D link:</p> <ul style="list-style-type: none"> SMF119DM_LISMCVersion SMF119DM_LIEid SMF119DM_LIRmtHostName SMF119DM_LIRmtOSType <p>Reason for change: Shared Memory Communications - Direct multiple IP subnet support (SMC-Dv2)</p>	Communications Server
Type 119, SMC-D link state end record (subtype 40)	Communications Server	<p>These new fields record SMC characteristics of the SMC-D link:</p> <ul style="list-style-type: none"> SMF119DM_LTSMCVersion SMF119DM_LTEid SMF119DM_LTRmtHostName SMF119DM_LTRmtOSType <p>Reason for change: Shared Memory Communications - Direct multiple IP subnet support (SMC-Dv2)</p>	Communications Server
Type 119, CSSMTP configuration record (subtype 48)	Communications Server	<ul style="list-style-type: none"> SMF119ML_CF_Mbcs – specifies the value of the MBCS statement. SMF119ML_TS_MBCharset – specifies the value of the MBCharset option. <p>Reason for change: Code page enhancements for CSSMTP</p>	Communications Server
Type 119, subtype 49	Communications Server	<ul style="list-style-type: none"> SMF119ML_CN_TLSSSP – negotiated protocol type can have a new value of x'0304' indicating TLSv1.3. SMF119ML_CN_TLSSNC4 – negotiated 4-byte cipher can have new values. SMF119ML_CN_TLSNKS field negotiated TLSv1.3 key share. <p>Reason for change: AT-TLS support for TLS v1.3</p>	Communications Server
Type 119, subtype 70, subtype 100, and subtype 104	Communications Server	<ul style="list-style-type: none"> SMF119FT_FSProtoLevel – negotiated protocol type can have a new value of x'0304' indicating TLSv1.3. SMF119FT_FSCipher4 – negotiated 4-byte cipher can have new values. SMF119FT_FSKeyShare – new field negotiated TLSv1.3 key share. <p>Reason for change: AT-TLS support for TLS v1.3</p>	Communications Server

<i>Table 1. New and changed System Management Facilities (SMF) records for z/OS V2R4 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, subtype 72	Communications Server	<ul style="list-style-type: none"> • SMF119FT_FFProtoLevel – negotiated protocol type can have a new value of x'0304' indicating TLSv1.3. • SMF119FT_FFCipher4 – negotiated 4-byte cipher can have new values. • SMF119FT_FFKeyShare – new field negotiated TLSv1.3 key share. <p>Reason for change: AT-TLS support for TLS v1.3</p>	Communications Server

Chapter 3. New and changed members in SYS1.MACLIB for z/OS V2R4

This topic lists the lists the new and changed members of SYS1.MACLIB for z/OS V2R4.

Table 2 on page 49 lists the new and changed members of SYS1.MACLIB for z/OS V2R4.

Member	Element or feature	Description	Reason for change
BCFXCRYP	MVS	New macro	For APAR OA58246 a new BCFXCRYP macro invokes BCFCRYPT to perform an encryption operation or a related function.
CVT	MVS	New bit definitions in the CVTFLAG9 field.	Support for IBM z/OS Workload Interaction Correlator
EZASMF77	Communications Server	Updates to SMF 119 records. See Chapter 2, “ New and changed System Management Facilities (SMF) records for z/OS V2R4 ,” on page 39 for more information	AT-TLS support for TLS v1.3
IFAWICCB	MVS	IFAWICCB is a new data area.	Support for IBM z/OS Workload Interaction Correlator
MGCRE	MVS	CMDFLAG=NOHCPY parameter is updated.	Support for APAR OA55640.

Chapter 4. New and changed PARMLIB members for z/OS V2R4

This topic lists the new and changed PARMLIB members for z/OS V2R4.

See *z/OS MVS Initialization and Tuning Reference* for more information about these members.

Table 3 on page 51 lists the new and changed members of PARMLIB for z/OS V2R4. Note that in some cases, IBM might provide these updates in SYS1.IBM.PARMLIB and a customer might install them into SYS1.PARMLIB.

Member	Element or feature	Description
ALLOCxx	MVS	In support of previous APAR OA40542, added missing keyword OPTCDB_SPLIT.
ANTXIN00	DFSMS	With APAR OA55068, the RemoteFlashCopy parameter indicates whether or not Remote Pair FlashCopy support should be enabled for the specified XRC session. The values are YES or NO (the default).
BPXPRMxx	MVS	<p>Because copy-on-write (COW) mode for fork processing is no longer supported, the applicable line in BPXPRMxx was changed from FORKCOPY(COW) to FORKCOPY(COPY).</p> <p>Previously, the KERNELSTACKS parameter had two options, ABOVE and BELOW. The KERNELSTACKS parameter is now always above the bar. If the BELOW option is specified, it is ignored.</p> <p>A usage note was added to the bpwxmigf shell command indicating that the File Creation Time is not preserved.</p>
CEAPRMxx	MVS	<ul style="list-style-type: none"> APAR OA57346 updated the description of the MAXSESSPERUSER parameter.
CEEPRMxx	Language Environment	The new CEENXSTG parameter indicates whether non-executable memory is ON or OFF. The default is ON.
DEVSUPxx	MVS	<ul style="list-style-type: none"> APAR OA51622 added the TCTCOMPRESSION and AOM496I options. APAR OA59707 added the SUPPR_SMF19_DUMPCOND option. APAR OA58007 added two new options: RETRY(STAT011) and STAT011_PRESERVE_INDEX. APAR OA58111 added VTOC_USE_ZHPF to specify whether you want the you want the system to read the VTOC or write to it, using zHPF when it is available. ENABLE(VTOC_USE_ZHPF) and DISABLE(VTOC_USE_ZHPF) were also added. Characteristics of parmlib member table of Overview of parmlib members chapter is updated. For APAR OA57255, you can use the REFUCB_FAIL parameter to specify the action to be taken if a failure occurs while the UCB is being refreshed. For APAR OA59707, SUPPR_SMF19_DUMPCOND was added. It specifies the generation of SMF type 19 records for the LSPACE command on dump conditioned volumes.
DIAGxx	MVS	<ul style="list-style-type: none"> For address space layout randomization, the ASLR parameter has been added. [REAL31(structure1,structure2, ...)] [REAL64(structure1,structure2, ...)] has been added to the CBLOC parameter. LOADTYPE added to AUTOIPL parameter. NUCLABEL added to AUTOIPL parameter syntax and description for APAR OA54733. For RUCSA support, the VSM ALLOWUSERKEYCSA parameter has been updated.

Table 3. New and changed PARMLIB members for z/OS V2R4 (continued)

Member	Element or feature	Description
IEAOPTxx	MVS	<ul style="list-style-type: none"> Information about the default value for the CPENABLE parameter is updated. Updated the description of the HIPERDISPATCH parameter.
IEASYSxx	MVS	<ul style="list-style-type: none"> The SOLUT parameter is added for APAR OA60198. BOOST parameter and ZAAPZIIP parameter are updated.
IECIOSxx	MVS	For APAR OA53143, the PCUHSWAP parameter is added.
IKJTSOxx	TSO/E	<ul style="list-style-type: none"> For APAR OA57937, TIMEOUT is added to the LOGON parameter. For APAR OA55889, the USERIDMAX parameter is added.
IQPPRMxx	MVS	Added a note that IQPPRMxx will still be valid on IBM zEnterprise z15 and above processors, but that tunable options will no longer be available and will therefore display message IQP062I REQUEST REJECTED - OPTIONS IGNORED.
IXGCNFxx	MVS	<ul style="list-style-type: none"> The MANAGE parameter has a new keyword of USECDSTYPE(<u>LOGR</u> LOGRY LOGRZ). The MANAGE parameter has a new keyword of HYPERWRITE(ALOWUSE) for APAR OA57408. LOGRCDS(ALLOWACCESS) keyword default has changed for APAR OA54814. The ZAI statement has a new TPNAME(<i>transport_name</i>) parameter (APAR OA53111).
SMFLIMxx		<ul style="list-style-type: none"> The MAXSHARE parameter is added for APAR OA60316. Corrected maximum value for the DSLIMITSIZE parameter. For APAR OA56625, the OVERRIDEIEFUSI option is added to REGIONABOVE and REGIONBELOW. For APAR OA56091, SUBSYS is updated to identify valid subsystem IDs. Syntax rules are updated to clarify that a statement without any filters, but only attributes, will cause a match to any subsequent statement with filters and have their attributes overridden.
SMFPRMxx	MVS	<ul style="list-style-type: none"> Corrected the syntax format of the USER4 and USER5 keywords for the SMFDLEXIT and SMFDPEXIT parameters. Added the USER4 and USER5 options to the SMFDLEXIT and SMFDPEXIT parameters. APAR OA57165 updated the description of the HFTSINTVL statement to support IBM z/OS Workload Interaction Correlator. APAR OA57165 added the WIC statement to support IBM z/OS Workload Interaction Correlator. APAR OA57371 added a new option, NOARECSIGN ARECSIGN, to the SMFPRMxx parameter to support using an alternate signature method. Updated to modify the COMPRESS parameter about zEDC sessions. Added USER4 and USER5 parameter options to SMFDLEXIT and SMFDPEXIT parameters. Added information on allowable values for TYPE and NOTYPE on SYS, SUBSYS, and LSNAME parameters.

Chapter 5. New and changed PROCLIB members for z/OS V2R4

This topic lists the lists the new and changed members of PROCLIB for z/OS V2R4.

[Table 4 on page 53](#) lists the new and changed members of PROCLIB for z/OS V2R4. Note that in some cases, IBM might provide these updates in SYS1.IBM.PROCLIB and a customer might install them into SYS1.PROCLIB.

Member	Element or feature	Description
None	None	None

Chapter 6. New and changed SYS1.SAMPLIB members for z/OS V2R4

This topic lists the new and changed members of SYS1.SAMPLIB for z/OS V2R4.

Table 5 on page 55 lists the new and changed members of SYS1.SAMPLIB for z/OS V2R4.

Member	Element or feature	Description
CBRIPROC	DFSMS OAM	For customers who are using V2R3 Multiple OAM address spaces support and different versions of Db2, the sample was updated with a recommendation to use the highest available Db2 version.
IXGCNFxx	MVS	The MANAGE statement has a new default of USECDSTYPE(LOGR).The ZAI statement contains a new default TPNAME(NONE) parameter (APAR OA53111).
IXGDELLS	MVS	Delete a log stream definition scope is from the current system's active system logger couple data set (CDS) inventory. It could be sysplex scope (LOGR) or single-system scope (LOGRY or LOGRZ).
IXGLOGZF	MVS	New sample JCL is added to define (format) single-system scope LOGRY and LOGRZ CDS types.
IXGLOGZP	MVS	New sample JCL is added to define (format) single-system scope policy information in LOGRY and LOGRZ CDS types.

Part 2. z/OS V2R3 changes

This part describes the new, changed, and removed or no longer issued messages, codes, SMF records, and selected system-level data set (SYS1) interfaces for z/OS V2R3 elements and features.

- [Chapter 7, “Message and code changes for z/OS V2R3,” on page 59](#)
- [Chapter 8, “New and changed System Management Facilities \(SMF\) records for z/OS V2R3,” on page 115](#)
- [Chapter 9, “New and changed members in SYS1.MACLIB for z/OS V2R3,” on page 133](#)
- [Chapter 10, “New and changed SYS1.PARMLIB members for z/OS V2R3,” on page 135](#)
- [Chapter 11, “New and changed SYS1.PROCLIB and SYS1.IBM.PROCLIB members for z/OS V2R3,” on page 137](#)
- [Chapter 12, “New and changed SYS1.SAMPLIB members for z/OS V2R3,” on page 139](#)

Chapter 7. Message and code changes for z/OS V2R3

This topic contains the message and code changes for z/OS V2R3.

- [“BCP \(MVS\) and DFSMS messages and codes changes for z/OS V2R3” on page 59](#)
- [“Communications Server message changes for z/OS V2R3” on page 85](#)
- [“Cryptographic Services ICSF message changes for z/OS V2R3” on page 86](#)
- [“Cryptographic Services PKI Services message changes for z/OS V2R3” on page 87](#)
- [“DFSORT message changes for z/OS V2R3” on page 88](#)
- [“Distributed File System message and code changes for z/OS V2R3” on page 88](#)
- [“Hardware Configuration Definition \(HCD\) message changes for z/OS V2R3” on page 95](#)
- [“IBM Tivoli Directory Server \(TDS\) message changes for z/OS V2R3” on page 96](#)
- [“Infoprint Server message changes for z/OS V2R3” on page 97](#)
- [“Integrated Security Services Network Authentication Service message changes for z/OS V2R3” on page 98](#)
- [“JES2 message changes for z/OS V2R3” on page 100](#)
- [“JES3 message changes for z/OS V2R3” on page 102](#)
- [“Language Environment message changes for z/OS V2R3” on page 103](#)
- [“Network File System \(NFS\) message changes for z/OS V2R3” on page 107](#)
- [“OpenSSH message changes for z/OS V2R3” on page 107](#)
- [“System Display and Search Facility \(SDSF\) message changes for z/OS V2R3” on page 108](#)
- [“Resource Measurement Facility \(RMF\) message changes for z/OS V2R3” on page 108](#)
- [“Security Server RACF message changes for z/OS V2R3” on page 109](#)
- [“SMP/E V3R6 message changes for z/OS V2R3” on page 110](#)
- [“TSO/E message changes for z/OS V2R3” on page 111](#)
- [“XL C/C++ message changes for z/OS V2R3” on page 111](#)
- [“z/OS UNIX message changes for z/OS V2R3” on page 112](#)

BCP (MVS) and DFSMS messages and codes changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for BCP (MVS) and DFSMS.

This topic lists new, changed, and deleted messages and codes for BCP (MVS), DFSMSdfp, DFSMSdss, DFSMSShsm, DFSMSrmm, and DFSMStvs. It also lists new, changed, and deleted operator messages for TSO/E. (New, changed, and deleted non-operator messages for TSO/E are in [“TSO/E message changes for z/OS V2R3” on page 111.](#)) All the messages and codes in this section are grouped together, without distinction as to element or feature.

All messages for BCP (MVS) and DFSMS are documented in:

- *z/OS MVS System Messages, Vol 1 (ABA-AOM)*
- *z/OS MVS System Messages, Vol 2 (ARC-ASA)*
- *z/OS MVS System Messages, Vol 3 (ASB-BPX)*
- *z/OS MVS System Messages, Vol 4 (CBD-DMO)*
- *z/OS MVS System Messages, Vol 5 (EDG-GLZ)*
- *z/OS MVS System Messages, Vol 6 (GOS-IEA)*
- *z/OS MVS System Messages, Vol 7 (IEB-IEE)*
- *z/OS MVS System Messages, Vol 8 (IEF-IGD)*

- *z/OS MVS System Messages, Vol 9 (IGF-IWM)*
- *z/OS MVS System Messages, Vol 10 (IXC-IZP)*

Dump output messages are documented in *z/OS MVS Dump Output Messages*.

DFSMS Volume Mount Analyzer messages (GFT) and abend codes are documented in *z/OS DFSMS Using the Volume Mount Analyzer*.

For explanations of and additional details about MVS system codes, see *z/OS MVS System Codes*.

New messages

GFTA207W

GFTA208W

GFTA209W

GFTA210W

GFTA211W

ADR650I (APAR OA52703)

ADR651W (for APAR OA52703)

ADR652E (APAR OA52703)

ADR653W (APAR OA52703)

ADR654E (APAR OA52703)

ADR655I (APAR OA52703)

ADR656I (APAR OA52703)

ADR659E (APAR OA52703)

ADR657E (APAR OA52703)

ADR661E (APAR OA52703)

ADR664I (APAR OA52703)

ADR665E (APAR OA52703)

ADR666E (APAR OA52703)

ADR667E (APAR OA52703)

ADR668W (APAR OA52703)

ADR669E (APAR OA52703)

ADR055I

ADR264W

ADR522I

ADR523I

ADR524E

ADR525W

ADR526W

ADR600E

ADR601E

ADR602E

ADR603I

ADR604E

ADR606E

ADR607E

ADR608E

ADR609E

ADR610E

ADR611W

ADR612E

ADR613I

ADR614W
ADR853I
AHL10049I for APAR OA50653
AMA166I
AMA167I
AMA776I
AMA779I for APAR OA54086
AMA780I for APAR OA54086
AMA781I for APAR OA54086
AMA782I for APAR OA54086
AMA783I
AMA785I
AMA787I
AMA788I
AMA789I
ANTA5018W
ANTB8006W
ANTB8009W
ANTF0516E
ANTF0560E for APAR UA82287
ANTI1042I
ANTP0225E for APAR UA82287
ANTP0228E
ANTP0278E for APAR UA82287
ANTP0279E
ANTQ8280I
ANTQ8281I
ANTQ8282I
ANTQ8286I
ANTQ8287I
ANTQ8377I
ANTR5029E
ANTR8863E
ANTT0053I
ANTU2009I
ANTU2010I
ANTU2529E
ANTX5017I
ANTX5019I
ANTX5146E
ANTX5175W
ANTX5700W
ANTX5701E
ANTX5702E
ANTX5703W
ANTX5704I
ANTX8180W
ANTX8181E
ANTX8150I
ANTX8992I
ANTX8994E

AOM496I
ARC1854I (APAR OA56627)
ARC0446I (APAR OA51622)
ARC1379I (OA51622)
ARC0575I (APAR OA52703)
ARC1391I (APAR OA52703)
ARC1425I (APAR OA52703)
ARC1449I (APAR OA52703)
ARC1450I (APAR OA52703)
ARC1451I (APAR OA52703)
ARC1629I (APAR OA52703)
ARC1127I
ARC1132I
ARC1581I
ARC1586I
ARC1585A
ARC1608I
ARC6190E

BCF001I
BCF002I
BCF003I
BCF004I
BCF005A (APAR OA55378)
BCF006A (APAR OA55378)
BPXF276I
BPXF277I
BPXF278I
BPXF279I
BPXF280I
BPXF281I
BPXF282I
BPXF283E
BPXF284E
BPXF285E
BPXF266I
BPXH080E
BPXH081I
BPXH086I
BPXH087I (APAR OA50999)
BPXH088I (APAR OA50999)
BPX0H89E (APAR OA50999)
BPX0H90I (APAR OA50999)
BPXH092E (APAR OA56251)
BPXH093I (APAR OA56251)
BPXH094I (APAR OA56251)
BPXM126I
BPXM127I
BPXM128I
BPXM129I
BPXM130I
BPXM131I

BPXM132E
BPXM134I
BPXN006E (APAR OA51615)
BPXTF990I
BPXU006I
BPXU007I
BPXU008I
BPXU009I
BPXU010I
BPXU011E (APAR OA53128)

CBR0048I
CBR0055I
CBR0056I
CBR0057I
CBR0058I
CBR0059I
CBR0077I
CBR0083I for APAR OA39381
CBR0084I for APAR OA49890
CBR0089I
CBR0090I
CBR0091I
CBR0358I
CBR0438I
CBR0453I
CBR0900I
CBR1038I
CBR1039I
CBR1048I
CBR1049I
CBR1089I
CBR1230I
CBR1960I
CBR1964I
CBR4197D for APAR OA52376
CBR7517D
CBR7531E for APAR OA53139
CBR8009I
CBR8011I
CBR8012I
CBR8013I
CBR8014I
CBR8015I
CBR8016I
CBR8017I
CBR8018I
CBR8019I
CBR8020I
CBR8030I
CBR8031D
CBR8032I

CBR8033I
CBR8513I
CBR8514I
CBR8515I
CBR8520D
CBR8521I
CBR8552I
CBR8561I
CBR8577I
CBR8562I
CBR9117I
CEA0119I for APAR OA55856
CNZ4105I replaces IEE114I
CNZ4106I replaces IEE115I
CNZ1007I
CPO1073I
CPO1074I
CPO1075I
CPO1278E
CPO1279E
CPO1283E
CPO1285E
CPO1315E
CPO1316E
CPO1317E
CPO1318E
CPO1319E
CPO1320E
CPO1321E
CPO1322E
CPO1323E
CPO1324E
CPO1325E
CPO1326E
CPO1327E
CPO1328I
CPO1329I
CPO1330E
CPO1331I
CPO1332I
CPO1333I
CPO1334I
CPO1335I
CPO1336E
CPO1337E
CPO1338E
CPO1339E
CPO1340E
CPO1341E
CPO1342I
CPO1343I

CPO1344E
CPO1345E
CPO1346E
CPO1347E
CPO1348E
CPO1349E
CPO1352E
CPO1353E
CPO1352E
CPO2142W
CPO3028I
CPO3057E
CPO4432I
CPO3062E
CPO3063E
CPO3930I
CPO3931I
CPO3932I
CPO3933I
CPO4434I
CPO4435I
CPO4436I
CPO4437I
CPO4438I
CPO4439E
CPO4440E
CPO4441E
CPO4442E

EDG0211I
EDG0217D
EDG0218E
EDG2800E
EDG3375I
EDG3376I
EDG3377I for APAR OA54871
EDG4066I for APAR OA54871
EDG4067I for APAR OA54871
FXE0002I
FXE0002I
FXE0003I
FXE0005I
FXE0006I
FXE0007I
FXE0008I
FXE0009I
FXE0010I
FXE0014I
FXE0015I

IAR017A
IAR018I
IAR051I

IAR052E
IAR053E
IAR054I
IAR055I
IAR056I
IAR057D
IARH103I
IARH103E
IARH104I
IARH104E
IARH111I
IARH111E
IAZ0520I
IAZ0521I
IAZ0552I
IAZ0553I
IAZ0554I for APAR OA49163
IAZ2001I for APAR OA49171
IAZ2002I for APAR OA49171
IAZ2003I for APAR OA49171
IAZ2050I for APAR OA49171
IAZ2051I for APAR OA49171
IAZ2052I for APAR OA49171
IAZ2053I for APAR OA49171
IAZ2054I for APAR OA49171
IAZ2055I for APAR OA49171
IAZ2056I for APAR OA49171
IAZ2057I for APAR OA49171
IAZ2058I for APAR OA49171
IAZH001I for APAR OA49171
IAZH100I for APAR OA49171
IAZH103I for APAR OA49171
IAZH104I for APAR OA49171
IAZH105I for APAR OA49171
IAZH108I for APAR OA49171
IAZH109I for APAR OA49171
IAZH110I for APAR OA49171
IAZH111E for APAR OA49171
IAZH112E for APAR OA49171
IAZH113E for APAR OA49171
IAZH114E for APAR OA49171
IAZH115E for APAR OA49171
IAZH116E for APAR OA49171
IAZH117E for APAR OA49171
IAZH118E for APAR OA49171
IAZH119E for APAR OA49171
IAZH120E for APAR OA49171
IAZH121E for APAR OA49171
IAZH122E for APAR OA49171
IAZH200I for APAR OA49171
IAZH400I for APAR OA49171

IAZH401I for APAR OA49171
IAZH402I for APAR OA49171
IAZH403I for APAR OA49171
IAZH404I for APAR OA49171
IDC0016I
IDC0017I
IDC1179I
IDC3009I
IDC3039I for APAR OA53252
IDC3040I for APAR OA53252
IDC3548I
IDC3549I
IDC3550I
IDC3551I
IDC1179I
IDC11808I
IEA047I
IEA049I for APAR OA51786
IEA604I for APAR OA51786
IEA987I
HZS1004I

IEC359I (form 7 of 7)
IEC816I
IEE587I for APAR OA50653
IEE763I

IEFA111I
IEFA112I
IEFA176I for APAR OA54633
IEFA180I
IEFA181I
IEFAH003I
IEW2571E
IEW2572E
IEW2573E
IEW2574W
IEW2575W
IEW2576I
IFA400I for APAR OA52828
IFA401I for APAR OA52828
IGD082D for APAR OA54361
IGD085D for APAR OA54361
IGD109I
IDG999I for APAR OA57310
IGD17098I
IGD17099I
IGD17150I
IGD17151I
IGD17152I
IGD17153I
IGD17154I
IGD17155I

IGD17245I
IGD17265I
IGD17337I
IGD17338I
IGD17339I

IGV011I
IGVH113I for APAR OA53355
IGVH114E for APAR OA53355
IGW285I for APAR OA54822
IGW286I for APAR OA54822
IGW287I for APAR OA54822
IGW10120I
IGW10121I
IGW10122I
IGW345I for APAR OA46787
IGW346I for APAR OA51165
IGW634E
IGW705I for APAR UA82464
IGW10121I for APAR OA48404
IKJ598I for APAR OA50265
ILR040W
IOS279I for APAR OA52379
IOS280I for APAR OA52379
IOS282I for APAR OA52379
IOS637E for APAR OA50653
IOS639E for APAR OA50653
IOS640I for APAR OA50653
IOSHC160I for APAR OA51982
IOSHC161E for APAR OA51982
IOSHC162I for APAR OA51982
IOSPF119I for APAR OA48188
IOSPF165I for APAR OA48188
IOSPF219I for APAR OA48188
IOSPF265I for APAR OA48188
IOSPF319I for APAR OA48188
IOSPF365I for APAR OA48188
IOSPF700I for APAR OA53156
IOSPF704I for APAR OA53156
IOSPF705E for APAR OA53156
IOSPF706I for APAR OA53156
IOSPF720I for APAR OA53156
IOSPF721I for APAR OA53156
IOSPF722I for APAR OA53156
IOSPF751I for APAR OA53156
IOSPF752I for APAR OA53156
IOSPF753I for APAR OA53156
IOSPF754I for APAR OA53156
IOSPF755I for APAR OA53156
IOSPF756I for APAR OA53156
IOSPF757I for APAR OA53156
IOSPF758I for APAR OA53156

IOSPF759I for APAR OA53156
IOSPF760I for APAR OA53156
IOSPF761I for APAR OA53156
IOSPF762I for APAR OA53156
IOSPF763I for APAR OA53156
ISN014I for APAR OA49692
IWM068I for APAR OA50403

IXC121I
IXC122E
IXC220W
IXC562I
IXC563I
IXCH0228E
IXCH0229I
IXCH0230I
IXCH0534E
IXCH0931I
IXCH0932I
IXG079E for APAR OA54292
IXG080I
IXG290I
IXG378I for APAR OA53111
IXG507I for APAR OA51174
IXGH012I for APAR OA49507
IXGH013E for APAR OA49507
IXGH014I for APAR OA49507
IXL013I for APAR OA53037
IXL053E for APAR OA41203
IXL054I for APAR OA41203
IXL055I for APAR OA41203
IXL056I for APAR OA41203
IXL060I for APAR OA54344
IXL061I for APAR OA54344

Changed messages

ADR141E (APAR OA52703)
ADR184W (APAR OA52703)
ADR374E (APAR OA52703)
ADR389E (APAR OA52703)
ADR454I (APAR OA52703)
ADR455W (APAR OA52703)
ADR475I (APAR OA52703)
ADR482E (APAR OA52703)
ADR780I (APAR OA52703)
ADR799E (APAR OA52703)
ADR040I
ADR305E
ADR308E
ADR380E
ADR383W

ADR439E
ADR447I
ADR487W
ADR518I
ADR519E
ADR526W for APAR OA55666
ADR530I
ADR705E
ADR707E for APAR UA82287
ADR735W
ADR778E
ADR849E for APAR UA82287
ADR865E
ADR918I
ADR943E
ADR971E
AMA112I
AMA129I
AMA573I
AMA732I
AMA748I
AMA753I
AMA760I
AMA779I
AMA782I
ANTA5107E
ANTA8004I
ANTA8101I
ANTA8122W
ANTA8149I
ANTA8162I
ANTA8163I
ANTB8002I for APAR OA50169
ANTC8400I for APAR OA52768
ANTC8401I for APAR OA52768
ANTC8407I for AAR OA55044
ANTC8410I for APAR OA52768
ANTC8411I for APAR OA52768
ANTD8025I
ANTD8026I
ANTD8103I
ANTD8116I
ANTF0420I for APAR UA82287
ANTF0421I for APAR UA82287
ANTF0447E for APAR OA52394 is no longer marked for deletion.
ANTF0480E for APAR UA82287
ANTF0482R for APAR OA52394
ANTF0491E for APAR UA82287
ANTF0492E for APAR UA82287
ANTF0494E for APAR UA82287
ANTI1020I

ANTI5013E
ANTI8023I
ANTI8024I
ANTI8121I
ANTM6002W
ANTM6999E for APAR OA49173
ANTP0227E for APAR UA82287
ANTQ8213I
ANTQ8218I
ANTQ8221I
ANTQ8247I for APAR OA55044
ANTQ8283I
ANTQ8288I
ANTX8700I
ANTX8701I
ANTR5028E
ANTR8178W
ANTU2515I for APAR OA50443
ANTV5111E
ANTV8107I
ANTV8109I
ANTX5001E
ANTX5011E
ANTX5101E
ANTX5104E
ANTX5113W
ANTX5117E
ANTX5126E
ANTX5129E
ANTX5130W
ANTX5132W
ANTX5134W
ANTX8030W
ANTX8104I
ANTX8111I
ANTX8117I
ANTX8123I
ANTX8132I
ANTX8134I
ANTX8137W
ANTX8142E
ANTX8147I
ANTX8149I
ANTX8992I
AOM496I for APAR OA55946
ANTX8994E for APAR OA54935
Table of SDM Return codes - 904 for APAR OA561633
ARC0500I
ARC1806E (APAR OA56627)
ARC0101I (APAR OA52703)
ARC0138I (APAR OA52703)

ARC0162I (APAR OA52703)
ARC0167I (APAR OA52703)
ARC0185I (APAR OA52703)
ARC0186I (APAR OA52703)
ARC0387A (APAR OA52703)
ARC0757I (APAR OA52703)
ARC0778I (APAR OA52703)
ARC0814I (APAR OA52703)
ARC0980I (APAR OA52703)
ARC0981I (APAR OA52703)
ARC0982I (APAR OA52703)
ARC0983I (APAR OA52703)
ARC1030I (APAR OA52703)
ARC1068I (APAR OA52703)
ARC1071I (APAR OA52703)
ARC1081I (APAR OA52703)
ARC1133I (APAR OA52703)
ARC1134I (APAR OA52703)
ARC1139I (APAR OA52703)
ARC1158I (APAR OA52703)
ARC1199I (APAR OA52703)
ARC1313I (APAR OA52703)
ARC1334I (APAR OA52703)
ARC1339I (APAR OA52703)
ARC1356I (APAR OA52703)
ARC1381I (APAR OA52703)
ARC1399I (APAR OA52703)
ARC1605I (APAR OA52703)
ARC0036E
ARC0279I
ARC0287I (the message id was changed to ARC0257I)
ARC04080I
ARC0444I
ARC0158I
ARC0506I
ARC0570I (APAR OA56800)
ARC0734I
ARC0744E
ARC0874I
ARC0966E
ARC1220I (new reason codes)
ARC1220I (new reason codes)
ARC1232I
ARC1245I (new reason codes)
ARC1379I
ARC1500I
ARC1560I
ARC1542I
ARC1562I
ARC1563I
ARC1564E

ARC1565E
ARC1566I
ARC1567I
ARC1568I
ARC1569I
ARC1581I
ARC1582I
ARC1583I
ARC1584I
ARC1585A
ARC1812I (new reason code)
ARC1829I
ARC1866I (new reason code)
ARC1870I
ARC1873I
ARC6059E
ARC6113E

BPXF002I (APAR OA55849)
BPXF008I (APAR OA55849)
BPXO058I (APAR OA55849)
ATRH002E
BPXF035I
BPXH072E
BPXN004I
BPXN005I
BPXO043I
BPXO045I
BPXO068I
BPXP014I
BPXW9032I

CBR0001I
CBR0002I
CBR0008I
CBR0017I
CBR0054I
CBR0080I for APAR OA54769
CBR0081I for APAR OA54769
CBR0082I for APAR OA54769
CBR0096I
CBR0097I
CBR0098I
CBR0099I
CBR0231A
CBR0433I
CBR0436I
CBR1052I
CBR1054I
CBR1055I
CBR1100I
CBR1110I
CBR1130I

CBR1140I
CBR1220I for APAR OA52376
CBR1240I
CBR1250I
CBR1910I
CBR2002I
CBR3736E
CBR3737I
CBR3750I for APAR OA52376
CBR3785E for APAR OA52376
CBR6420I
CBR6421I
CBR6422I
CBR7510I
CBR7515I
CBR7530I
CBR7535I
CBR7540I
CBR7541I
CBR7542I
CBR7543I
CBR7545I
CBR7550I
CBR8001I
CBR8002I
CBR8003A
CBR8004A
CBR8007I
CBR8512D
CBR8540I
CBR9029I
CBR9350I
CBR9356I
CBR9364I
CBR9370I
CEA0401I for APAR OA51597
CNZZ042I
CNZ0005I
CNZ0006W
CNZ0008I
CNZ4400D
CNZ9010I
COF530I
CPO1256E
CPO1257E
CPO1281E
CPO1285E
CPO1300E
CPO1301E
CPO2134W
CPO2135W

CPO2138W
CPO3027I
CPO3968I
CPO3969I
CSV010I
CSV513I
CSV533I
CSV564I
CUN3000I

EDG3373E
EDG8105E
EDG8106E
EDG8107E
EDG8111I

HZR0200I
HZZ0120I
IAR002A
IAR006A
IAR019I
IAR028I
IAR038W for APAR OA54975
IAR040I
IAR041I
IAR042I
IAR043I
IAR044I
IAR045I
IAR047I
IAR048I
IAR049I
IAR050I
IAR051I
IAR052E for APAR OA53197
IAR053E for APAR OA53197
IAR054I for APAR OA53197
IAR058E for APAR OA53197
IARH101E
IAZ05350
IAZ0535I
IAZ2059I
IAZ2060I
IDC0001I
IDC3009I
IDC3009I
IDC11700I for APAR OA50378
IDC21804I for APAR OA52810
IDC3009I for APAR OA56686
IEA031I for APAR OA46953
IEA036I
IEA037I for APAR OA49797
IEA045I

IEA167I for APAR OA50083
IEA169I for APAR OA50083
IEA170I for APAR OA50083
IEA075I for APAR OA48710
IEA195I
IEA196I for APAR OA50431
IEA253I for APARs OA51584, OA50664, OA52870, OA54863, OA55525 and OA56633
IEA347A
IEA434I
IEA434I for APAR OA52634
IEA437I for APAR OA52398
IEA491E for APAR OA48710
IEA499E for APAR OA48710
IEA599I for APAR OA51786
IEA7161
IEA848I for APAR OA48914 and OA49595
IEA907W for APAR OA56180
IEA909I for APAR OA56180
IEA911E
IEASMU03I

IEC023I
IEC036I for APAR OA55398
IEC120A
IEC121D
IEC122D
IEC123D
IEC124D
IEC125D
IEC126I
IEC127D
IEC128D
IEC129D
IEC136I
IEC141I
IEC143I for APAR OA52343
IEC145I
IEC147I
IEC148I
IEC150I
IEC153I
IEC161I
IEC161I (return code 053) for APAR OA56170
IEC161I (return code 240) for APAR OA53383
IEC212I
IEC216I
IEC294A
IEC348I
IEC359I
IEC380I
IEC393I
IEC457I

IEC459I
IEC6041
IEC6081
IEE115I
IEE174I
IEE174I (form 6 of 36) for APAR OA50189
IEE174I (form 21 of 36) is merged into IEE174I (form 6 of 35) for APAR OA50653
IEE174I (form 22 of 36) and is renamed IEE174I (form 21 of 35) for APAR OA50653
IEE174I (form 23 of 36) and is renamed IEE174I (form 22 of 35) for APAR OA50653
IEE174I (form 24 of 36) and is renamed IEE174I (form 23 of 35) for APAR OA50653
IEE174I (form 25 of 36) and is renamed IEE174I (form 24 of 35) for APAR OA50653
IEE174I (form 26 of 36) and is renamed IEE174I (form 25 of 35) for APAR OA50653
IEE174I (form 27 of 36) and is renamed IEE174I (form 26 of 35) for APAR OA50653
IEE174I (form 28 of 36) and is renamed IEE174I (form 27 of 35) for APAR OA50653
IEE174I (form 29 of 36) and is renamed IEE174I (form 28 of 35) for APAR OA50653
IEE174I (form 30 of 36) and is renamed IEE174I (form 29 of 35) for APAR OA50653
IEE174I (form 31 of 36) and is renamed IEE174I (form 30 of 35) for APAR OA50653
IEE174I (form 32 of 36) and is renamed IEE174I (form 31 of 35) for APAR OA50653
IEE174I (form 33 of 36) and is renamed IEE174I (form 32 of 35) for APAR OA50653
IEE174I (form 34 of 36) and is renamed IEE174I (form 33 of 35) for APAR OA50653
IEE174I (form 35 of 36) and is renamed IEE174I (form 34 of 35) for APAR OA50653
IEE174I (form 36 of 36) and is renamed IEE174I (form 35 of 35) for APAR OA50653
IEE186I
IEE187I
IEE342I
IEE529I
IEE457I for APAR OA50189
IEE459I for APAR OA54279
IEE584I for APAR OA51642 and APAR OA51289
IEE586I for APAR OA51642
IEE852I
IEE979W for APAR OA52828

IEF043I for APAR OA52045
IEF086I
IEF238D
IEF351I for APAR OA54633
IEF880I
IEFA111I
IEW2619I was changed to IEW2602I for APAR OA49429
IEW2514E was changed to IEW2443E for APAR OA49429
IEFA111I
IFA730E
IFA788I for APARs OA48741 and OA52061
IFA790I
IFA832I
IGD001I
IGD002I
IGD002I for APAR OA54830
IGD002I for APAR OA56655
IGD028I
IGD031I

IGD17040I
IGD17168I
IGD17204I
IGD17268I
IGD17269I
IGD17272I
IGD17279I
IGD17291I
IGD17345I
IGD17380I
IGD17381I
IGD17389I

IGF512I
IGF513I
IGWRH0202E
IGX031I for APAR OA50850
IGW467I
IGW700I
IGW705I for APAR OA50442
IGW803I for APAR OA50489
IGW1001T
IGW1003T
IGW1004T
IGW1005T
IGW1006T
IGW1007T
IGW1009T
IGW1010T
IGW1011T
IGW1012T
IGW1013T
IGW1015T
IGW1016T
IGW1017T
IGW1019T
IGW1030T
IGW1031T
IGW1033T
IGW1034T
IGW1035T
IGW1036T
IGW1037T
IGW1038T
IGW1039T
IGW1040T
IGW1041S
IGW1043T
IGW1044S
IGW1045S
IGW1046S
IGW1047S

IGW1048S
IGW1051S
IGW1052E
IGW1053T
IGW1054T
IGW1056T
IGW1057S
IGW1058E
IGW1059T
IGW1060E
IGW1061I
IGW1062I
IGW1064S
IGW1065S
IGW1066S
IGW1071S
IGW1072E
IGW1073S
IGW1075T
IGW1076E
IGW1077E
IGW1078E
IGW1079E
IGW1080T
IGW1081T
IGW1087T
IGW1103S
IGW1104S
IGW1106S
IGW1107S
IGW1108S
IGW1121T
IGW1122T
IGW1123S
IGW1125T
IGW1129S
IGW1130T
IGW1150T
IGW1151T
IGW1152T
IGW1153T
IGW1155T
IGW1156W
IGW1157T
IGW1159T
IGW1160T
IGW1161E
IGW1162E
IGW1163E
IGW1164E
IGW1165T

IGW1170W
IGW1202W
IGW01595E
IGW10020I
IKJ143I
IOS000I for APAR OA48710
IOS078I
IOS085I for APAR OA51327 and APAR OA50653
IOS090I for APAR OA51327
IOS098I
IOS281I FOR APAR OA52379
IOS290I FOR APAR OA52379
IOS500I
IOS506I for APAR OA49090
IOS634I for APAR OA50653
IOS635I for APAR OA53083
IOSHM0201I
IOSHC133I
IOSPF108I for APAR OA51327
IOSPF154I for APAR OA51327
IOSPF208I for APAR OA51327
IOSPF308I for APAR OA51327
IOSPF354I for APAR OA51327
IOSPF254I for APAR OA51327
IOSPF205I
IQP022I for APAR OA51289
IQP024I for APAR OA51289 and APAR OA50653
IQP041I
IRA127I
IRA205I for APAR OA54554
IWM002I
IWM025I
IWM064I for APAR OA50403
IWM075I

IXG708I
IXC101I
IXC103I
IXC105I
IXC106I
IXC111I
IXC113I
IXC114I
IXC220W
IXC300I
IXC306I for APAR OA49822
IXC307I for APAR OA49822
IXC337I
IXC347I for APAR OA41203
IXC352I
IXC357I for APAR OA41203
IXC357I for APAR OA56503

IXC358I for APAR OA47796
IXC359I for APAR OA47796
IXC360I for APAR OA47796
IXC362I
IXC367I for APAR OA47796
IXC373I for APAR OA41203
IXC383I
IXC467I for APAR OA49822
IXC505I
IXC522I for APAR OA47796
IXC528I for APAR OA47796
IXC531I for APAR OA47796
IXC538I for APAR OA47796
IXC544I for APAR OA47796
IXC546I for APAR OA47796
IXC571I for APAR OA47796
IXC574I for APAR OA47796
IXC576I
IXC577I for APAR OA47796
IXC584I for APAR OA47796
IXC735I
IXC745I for APAR OA47796
IXC747I
IXC748I
IXC749I
IXCH0210E for APAR OA47796
IXCH0211I for APAR OA47796
IXCH0526E
IXCH0529E
IXCH0920I for APAR OA47796
IXG034E (APAR OA54815)
IXG065I (APAR OA54815)
IXL001W for APAR OA47796
IXL020I for APAR OA47796
IXL023I for APAR OA47796
IXL053E
IXL150I for APAR OA47796
IXG040E
IXG120E
IXG214I
IXG256I
IXG283I
IXG371E for APAR OA53111
IXG601I for APAR OA53019 and OA53111
IXG607I for APAR OA54814
IXG607I for APAR OA53111
IXG607I for APAR OA54814
IXG735I for APAR OA53111
IXG652I for APAR OA50219

No longer issued messages

ADRY31514I for APAR OA47091

CBR0014I

CBR0437I

CBR7012I

CBR8005I

CBR8008I

CBR8010I

CBR9027I

CBR9028I

CBR9030I

CBR9033I

CBR9034I

CBR9035I

CBR9036I

CBR9107I

CBR9110I

CBR9111I

CBR9112I

CBR9113I

CBR9114I

CBR9115I

CBR9116I

CBR9809I

CBR9855I

CNZ0009I

CNZ9000I

CNZ9001I

CNZ9002I

CNZ9005D

CNZ9006I

CNZ9007I

CNZ9008A

CNZ9009D

CNZ9012I

CNZ9013I

CNZHF0014E

CPO1284E

IDC31473I for APAR OA52360

IEC157

IEC1581

IEC1591

IEE114I

IEE115I

IGW10081I

IOSPF351I for APAR OA51327

IWM070I

IWM077E

IWM078E

IWM079E
IWM080E
IWM081E
IWM082E
IWM083E
IWM084I

IXG068D
IXG069I
IXG070I
IXG071D
IXG072I
IXG073D
IXG119I
IXG224I
IXG225I

New dump output messages

AMD00001I
AMD00002I
AMD00003I
AMD00006I
AMD00007I
AMD00008I
AMD00009I
AMD00010I
AMD00011I
AMD00012I
AMD00013I
AMD00014I
AMD00015I
AMD00016I
AMD00017I
AMD00018I
AMD00019I
BLS18158I
BLS18159I
BLS18255I
BLS18256I

Changed dump output messages

BLS18045I
ITT10010I
IXL0016I (APAR OA53037)

No longer issued dump output messages

None.

New MVS system codes

System completion codes

For system completion code 01D, new reason codes have been added.
 For system completion code 026, new reason codes have been added.
 For system completion code 042, new reason codes have been added.
 For system completion code 08B, reason codes 0055 and 0056 have been added.
 For system completion code 08F, a new reason code has been added.
 For system completion code 0F7, a new reason code 1EC has been added.
 For system completion code 15F, new reason code 30 has been added.
 For system completion code 179, new reason code 90 has been added.
 For system completion code 18F, new reason codes have been added.
 For system completion code 1E0, new reason code 14 has been added.
 For system completion code 1FB, reason codes ED, EE, and EF are added.
 For system completion code 290, new reason codes have been added.
 For system completion code 40D, a new reason code has been added.
 For system completion code 6FB, new reason code 2B has been added.
 For system completion code 9C4, new reason codes have been added.
 For system completion code DC4, new reason code xx052Exx has been added.
 For system completion code DC6, new reason codes have been added.
 New completion code E22 for WLM group memory management.
 For system completion code EC6, a new reason code was added.

Wait state codes

Wait state code 02F has been added.
 For wait state code 07B, new reason codes 20 added.
 For wait state code 07C, new reason codes 06 and 07 have been added.
 For wait state code 07C, new reason codes 08 has been added.

Changed MVS system codes

System completion codes

System completion codes 0C4, 18A, 6C5, B04, B05, B0A, and B78 have new or updated reason codes (APAR OA56180).
 System completion code 0A6 has been updated.
 System completion code 002 has been updated.
 System completion code 07D has been updated.
 System completion code 024 has been updated.
 System completion code 026 has been updated.
 System completion code 027 has been updated.
 System completion code 0C4 in the 0Cx section has been updated.
 System completion code DC2 with explanation 005D was updated to reflect changes for WLM group.
 System completion code 1C2 has been updated.
 System completion code 2C2 has been updated.
 System completion code 3C2 has been updated.
 System completion code 1E0 has been updated.
 System completion code 1FB, reason code 1C and 1D are updated.
 System completion code 40D has been updated.
 System completion code 322 has been updated.

Wait state codes

Wait state code 087, reason code 31 is updated. Reason code 33 is deleted. In the table entry code for 087, console services CNZX1MGX and CNZX1MIG are deleted.

Communications Server message changes for z/OS V2R3

This section contains new, changed, and no longer issued messages and codes for Communications Server.

New

EZD0840I
EZD1975E
EZD2043I
EZZ0067I
EZZ0068I
EZZ0069I
EZZ0070I
EZZ0139I
EZZ0405I
IST2424I - IST2441I
IST2444I
IST2445I
IST2446I
ISTM034E
ISTH035I
ISTH036E
ISTH038E
ISTH900I

Changed

EZA5575 - EZA5590
EZD2026I
EZD2028I
EZD2043I
EZD2044I
EZYFS57I
EZZ0059I
EZZ0312I
EZZ0358I
EZZ0661I
EZZ0708I
EZZ0733I
EZZ4336I
EZZ6035I
EZZ6044I
EZZ6045I
EZZ6060I
EZZ6065I
EZZ6080I
IST315I
IST879I
IST1016I
IST1189I
IST1221I

IST1230I
IST1242I
IST1244I
IST1345I
IST1370I
IST2319I
IST2361I
IST2389I
IST2396I
IST2419I

No longer issued

EZA5125 - EZA5574
EZA5593 - EZA5708
EZZ7000 - EZZ7050
EZZ7080 - EZZ7083
EZZ7500 - EZZ7599
EZZ7700 - EZZ7739
EZZ9891 - EZZ9993
ISTH031I
ISTH032E
ISTM017I
ISTM018E
ISTM019I
ISTM020E
ISTM021I
ISTM022E
ISTM023I
ISTM024E
ISTM025I
ISTM026E
ISTM027I
ISTM028E
ISTM029I
ISTM030E
ISTM031I
ISTM032E

Cryptographic Services ICSF message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Cryptographic Services Integrated Cryptographic Service Facility (ICSF).

The messages for Cryptographic Services Integrated Cryptographic Service Facility (ICSF) are documented in *z/OS Cryptographic Services ICSF Messages*.

New

CSFH0036I
CSFH0037E
CSFH0038I
CSFH0039I

CSFH0040E
 CSFM686I
 CSFM687I
 CSFM688E
 CSFO002I
 CSFO500I
 CSFO501I
 CSFO502I
 CSFO503I

Changed

CSFC0316
 CSFM625I
 CSFM410E
 CSFM667I
 CSFM668I

No longer issued

CSFO0056
 CSFO0196

Cryptographic Services PKI Services message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Cryptographic Services PKI Services.

All messages for PKI Services are documented in *z/OS Cryptographic Services PKI Services Guide and Reference*.

New

IKYC091I
 IKYC092I
 IKYC093I
 IKYC094I
 IKYC095I
 IKYC096I
 IKYC097I
 IKYC904I
 IKYC905I
 IKYO007I
 IKYP047I
 IKYP048I
 IKYP049I
 IKYP050I
 IKYP051I
 IKYP052I
 IKYP053I
 IKYP054I
 IKYU019I

Changed

IKYP003I
IKYP025I
IKYP040I

No longer issued

None

DFSORT message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for DFSORT.

All messages for DFSORT are documented in *z/OS DFSORT Messages, Codes and Diagnosis Guide*.

New

ICE292A
ICE500A
ICE501A
ICE502A
ICE503A
ICE504A
ICE505A
ICE506I

Changed

ICE150I
ICE189A
ICE290A

No longer issued

None

Distributed File System message and code changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Distributed File System.

The following messages and reason codes are new, changed, or no longer issued for Distributed File Service in z/OS V2R3.

New messages for zFS

IOEZ00092E (APAR OA54472)
IOEZ00445E (APAR OA54472)
IOEZ00589E (APAR OA54472)
IOEZ00650I
IOEZ00651E
IOEZ00652E
IOEZ00653E
IOEZ00655E
IOEZ00657E

IOEZ00705I
IOEZ00711I (was previously undocumented)
IOEZ00712I (was previously undocumented)
IOEZ00713E (was previously undocumented)
IOEZ00715E
IOEZ00853I
IOEZ00854I
IOEZ00858E
IOEZ00860E
IOEZ00861E
IOEZ00862E
IOEZ00866E
IOEZ00867I
IOEZ00870A (was previously undocumented)
IOEZ00872E
IOEZ00873I
IOEZ00877I
IOEZ00878I
IOEZ00879E
IOEZ00880E
IOEZ00881I
IOEZ00882E
IOEZ00883E
IOEZ00884E
IOEZ00885I
IOEZ00886E
IOEZ00887I
IOEZ00888I
IOEZ00889E
IOEZ00890E (V2R2 APAR OA49516)
IOEZ00891E (V2R2 APAR OA49516)
IOEZ00892I
IOEZ00895E
IOEZ00898I
IOEZ00896I
IOEZ00897E
IOEZ00899I
IOEZ00900I
IOEZ00901I
IOEZ00902I
IOEZ00903I
IOEZ00904E
IOEZ00905I
IOEZ00906I
IOEZ00907E
IOEZ00908I
IOEZ00942E
IOEZ00943E
IOEZ00947A
IOEZ00948A
IOEZ00949E

IOEZ00950E
IOEZ00951E
IOEZ00952E
IOEZ00953E
IOEZ00957E
IOEZ00958E
IOEZ00959E
IOEZ00960E
IOEZ00961E
IOEZ00962E
IOEZ00963E
IOEZ00964E
IOEZ00966E
IOEZ00981E
IOEZ00982E
IOEZ00983I
IOEZ00984I
IOEZ00985I
IOEZ00986I
IOEZ00987I
IOEZ00988I
IOEZ00989I
IOEZ00990E
IOEZ00991E
IOEZ00992E
IOEZ00993E
IOEZ00994I
IOEZ00995E
IOEZ00996E
IOEZ00997E
IOEZ00999I
IOEZ01000I
IOEZ01001I
IOEZ01002E
IOEZ01003I
IOEZ01004E (APAR OA54358)
IOEZ01005I
IOEZ01006I
IOEZ01007I
IOEZ01008I
IOEZ01009I (APAR OA55211)

New messages for SMB

IOEN00516A
IOEP12403I

New messages for Health Checker

None.

Changed messages for zFS

IOEZ00078E (APAR OA55616)
IOEZ00079I (APAR OA55616)
IOEZ00178I
IOEZ00338A
IOEZ00605I
IOEZ00617I
IOEZ00639I
IOEZ00675E
IOEZ00777A
IOEZ00828E
IOEZ00829E
IOEZ00851I (APAR OA56338)

Changed messages for Health Checker

None.

No longer issued messages for zFS

None.

No longer issued messages for Health Checker

None.

New reason codes for zFS

6A0A
6A00
6A01
6A02
6A03
6A04
6A05
6A06
6A07
6A08
6A09
6B5D
6B5E (V2R2 APAR OA49516)
6B5F (V2R2 APAR OA49516)
6B60 (V2R2 APAR OA49516)
6B61
6C00
6C04
6C14
6C15

6C21
6C22
6C23
6C0B
6C0C
6C0D
6C0E
6C0F
6C04
6C10
6C11
6C12
6C13
6C14
6C15
6C18
6C19
6C1A
6C1B
6C1C
6C1D
6C21
6C22
6C23
6C24
6C25
6C26
6C27
6C28
6C29
6C2A
6C2B
6C2C
6C2D
6C2F
6C30
6C31
6C32
6C32
6C33
6C34
6C35
6C36
6C37
6C3E
6C3F
6C40
6C41
6C42
6C43
6C44

6C45
6C46
6C47
6C48
6C49
6C4A
6C4F
6C50
6C51
6C52
6C53
6C54
6C55
6C56
6C57
6C58
635B
635C
635D
635E
635F
6C60
6C61 (APAR OA56145)
6C62 (APAR OA56145)
6C63 (APAR OA56145)
6C64 (APAR OA56145)
6C65 (APAR OA56145)
6C66 (APAR OA56145)
6C67 (APAR OA56145)
6C68 (APAR OA56145)
6C68
6C69
6C6A (APAR OA56145)
6C6B
6C6C
6C6D
6C6E
6C6F
6C71
6C72
6C73
6C74
6C75
6C76
6C77
6C78
6C79
6C7A
6C7B
6C7C
6C7D

6C7E
6C7F
6C80
6C81
6C82
6C83
6C84
6C85
6C86
6C87
6C88
6C89
6C8A
6C8B
6C8C
6C8D
6C8E (APAR OA54358)
6C8F (APAR OA56145)
6C90 (APAR OA56145)
6C92 (APAR OA56145)
6C93 (APAR OA56145)
6C94 (APAR OA56145)
6C95 (APAR OA56145)
6C96 (APAR OA56145)
6C97 (APAR OA56145)
6C98 (APAR OA56145)
6C99 (APAR OA56145)
6C9A (APAR OA56145)
6C9B (APAR OA56145)
6C9C (APAR OA56145)
6C9D (APAR OA56145)
6C9E (APAR OA56145)
6C9F (APAR OA56145)

New reason codes for DF04rr

None.

New reason codes for EFXrrr

None.

Changed reason codes for zFS

6A2E (APAR O54472)
62A4
6425
652D
69AA

Hardware Configuration Definition (HCD) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Hardware Configuration Definition (HCD).

The messages for HCD are documented in *z/OS and z/VM HCD Messages*.

New

The following messages are new.

CBDA587I
CBDA692I
CBDA741I
CBDA917I
CBDA918I
CBDA952I
CBDA953I
CBDA960I
CBDA961I
CBDA962I
CBDA963I
CBDA967I
CBDA968I
CBDA969I
CBDB006I
CBDD797I
CBDG098I
CBDG206I
CBDG399I
CBDG499I
CBDG554I
CBDG684I
CBDG689I
CBDG690I
CBDG691I
CBDG692I
CBDG693I
CBDG694I
CBDG695I
CBDG696I
CBDG697I
CBDG698I
CBDG699I

Changed

The following messages are changed.

CBDA009I
CBDA154I
CBDA516I
CBDA911I

CBDA978I
CBDA698I
CBDB060I
CBDG300I
CBDG304I
CBDG320I
CBDG321I
CBDG338I
CBDG456I
CBDG537I
CBDG538I
CBDG539I
CBDG540I
CBDG542I
CBDG543I
CBDG544I
CBDG564I
CBDG613I
CBDG695I
CBDG699I

Deleted

The following messages have been deleted.

CBDG575I
CBDG597I
CBDG599I

IBM Tivoli Directory Server (TDS) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for IBM Tivoli Directory Server (TDS).

The messages for IBM Tivoli Directory Server are documented in *z/OS IBM Tivoli Directory Server Messages and Codes for z/OS*.

New

GLD1345E
GLD1346I
GLD1347I
GLD1348I
GLD1349E
GLD1350E
GLD1351I
GLD1352E
GLD1353E
GLD1354I
GLD1355E
GLD1875E

Changed

GLD1072E

GLD1221E
 GLD1226I
 GLD1802E
 GLD3342I
 GLD9204E

No longer issued

None

Device Support Facilities (ICKDSF) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Device Support Facilities (ICKDSF).

The messages for ICKDSF are documented in *Device Support Facilities (ICKDSF) User's Guide and Reference*.

New

ICK03096I
 ICK11468I
 ICK20807I
 ICK32177I
 ICK34151I
 ICK34152I
 ICK34153I

Changed

ICK03095I
 ICK31529I
 ICK32177I
 ICK34102I
 ICK34104I
 ICK34108I
 ICK34109I
 ICK34111I
 ICK34141I

No longer issued

None

Infoprint Server message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Infoprint Server and IBM Print Transform from AFP for Infoprint Server for z/OS.

The messages and codes for Infoprint Server are documented in *z/OS Infoprint Server Messages and Diagnosis*.

The messages and codes for IBM Print Transform from AFP for Infoprint Server for z/OS are documented in *IBM Print Transforms from AFP for Infoprint Server for z/OS*.

New

AOP3621I
AOP3622W
AOP4023I
AOPIM010
AOPIM017

Changed

ANFH004I - references to VTAM® services that IP PrintWay uses to transmit data to printers in an SNA network are removed.
ANFM703I - explanation is updated for sendmail bridge.
ANFM704I - explanation and system programmer response are updated for sendmail bridge.
AOP026E - references to VTAM services that IP PrintWay uses to transmit data to printers in an SNA network are removed.
AOP034E - explanation is updated for *optionsource*.
AOP047E - system programmer response is updated for *exception-information*.
AOP3905E - explanation is updated with information that Infoprint Coaxial Printer Support is no longer supported in z/OS V2R3.
AOP3951I - explanation is updated for sendmail bridge.

No longer issued

AOP134E

Integrated Security Services Network Authentication Service message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for Integrated Security Services Network Authentication Service.

All messages for Network Authentication Services are documented in *z/OS Integrated Security Services Network Authentication Service Administration*.

New

96C73C2E
96C73C2F
96C73C30
96C73C31
96C73C32
96C73C33
96C73C34
96C73C35
EUVF02047W
EUVF04166I
EUVF04167E
EUVF04168E
EUVF04169E
EUVF04170E
EUVF04171E

Changed

96C73A0E
 96C73A0F
 EUVF04047E
 EUVF04048E
 EUVF04049E
 EUVF04076E
 EUVF04085I for APAR OA53651

No longer issued

None

ISPF message changes for z/OS V2R3

This section contains new, changed, and no longer issued messages and codes for ISPF.

All messages for ISPF are documented in *z/OS ISPF Messages and Codes*.

New

FLM05030 (June 2019)
 ISPI014 (June 2019)
 ISPI015 (June 2019)
 ISRU070B (June 2019)
 ISRU070C (February 2019)
 ISRU071D (February 2019)
 ISRU071E (February 2019)
 ISRU072D (February 2019)
 ISRU072E (February 2019)
 ISRU113A (February 2019)
 ISRU393 (February 2019)
 ISRU437A (February 2019)
 ISRU859 (February 2019)
 ISPP333 (September 2017)
 ISRB514 (September 2017)
 ISRE674 (September 2017)
 ISRE675 (September 2017)
 ISRE678 (September 2017)
 ISRE679 (September 2017)
 ISRE686 (September 2017)
 ISRE687 (September 2017)
 ISRF050 (September 2017)
 ISRF051 (September 2017)
 ISRLS150 (September 2017)
 ISRLS151 (September 2017)
 ISRLS215 (September 2017)
 ISRLS216 (September 2017)
 ISRU386 (September 2017)
 ISRU388 (September 2017)
 ISRU389 (September 2017)
 ISRU390 (September 2017)
 ISRU391 (September 2017)

ISRU392 (September 2017)

Changed

ISPC804 (May 2018)
ISPWB000 (September 2017)
ISPWB001 (September 2017)
ISRB505 (September 2017)
ISRB507 (September 2017)
ISRE546 (September 2017)
ISRLS055 (September 2017)
ISRLS056 (September 2017)
ISRLS057 (September 2017)
ISRLS140 (September 2017)
ISRLS141 (September 2017)
ISRLS142 (September 2017)
ISRLS144 (September 2017)
ISRLS145 (September 2017)
ISRLS146 (September 2017)
ISRLS147 (September 2017)
ISRLS148 (September 2017)
ISRLS149 (September 2017)
ISRLS176 (September 2017)

No longer issued

None

JES2 message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for JES2.

The messages for JES2 are documented in *z/OS JES2 Messages*.

New

\$HASP003
\$HASP055
\$HASP541
\$HASP551
\$HASP1110
\$HASP1112
\$HASP1120
\$HASP1309
\$HASP1339
\$HASP1400
\$HASP1401
\$HASP1402
\$HASP1403
\$HASP1404
\$HASP1405
\$HASP1406
\$HASP1409
\$HASP1490

\$HASP1491
\$HASP1495
\$HASP1496
\$HASP1497
\$HASP1498
\$HASP1499
\$HASP1500
\$HASP1501
\$HASP1502
\$HASP1503
\$HASP1504
\$HASP1505
\$HASP1506
\$HASP1507
\$HASP1508
\$HASP1509
\$HASP1510
\$HASP1511
\$HASP1512
\$HASP1513
\$HASP1514
\$HASP1515
\$HASP1516
\$HASP1517
\$HASP1518
\$HASP1519
\$HASP1520
\$HASP1521
\$HASP1522
\$HASP1523
\$HASP1524
\$HASP1525
\$HASP1526
\$HASP1527
\$HASP1528
\$HASP1529
\$HASP1530
\$HASP1531
\$HASP1532
\$HASP1534
\$HASP1535
\$HASP1536
\$HASP4402
\$HASP4403
\$HASP9180
\$HASP9181

Changed

\$HASP003
\$HASP050
\$HASP051

\$HASP070
\$HASP089
\$HASP095
\$HASP098
\$HASP097
\$HASP104
\$HASP107
\$HASP110
\$HASP112
\$HASP138
\$HASP148
\$HASP165
\$HASP183
\$HASP249
\$HASP305
\$HASP492
\$HASP686
\$HASP852
\$HASP890
\$HASP1110
\$HASP1111
\$HASP1112
\$HASP1114
\$HASP1115
\$HASP1116
\$HASP1118
\$HASP1120
\$HASP1200
\$HASP1201
\$HASP1309
\$HASP1407
\$HASP1408
\$HASP1520
\$HASP1523
\$HASP1537
\$HASP022E

No longer issued

None.

JES3 message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages and codes for JES3.

The messages for JES3 are documented in *z/OS JES3 Messages*.

New

IAT3209
IAT6244
IAT6245
IAT7147

IAT8712
IAT9158

Changed

IAT1102
IAT1104
IAT3271
IAT3843
IAT5606
IAT6133
IAT6901
IAT7762
IAT8163
IAT8564
IAT8609
IAT8633
IAT8679
IAT8707
IAT8711

No longer issued

None.

Language Environment message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for Language Environment.

The messages for Language Environment are documented in *z/OS Language Environment Runtime Messages*.

New

C03E0005
C03E0011
C0460037
C0460051
C04A001E
C04A0031
C066000A
C066000B
C066000C
C0660012
C1180046
C1180047
C1180048
C1180049
C118004A
C118004B
C118004C
C118004E
C118007D
C1180085

C1180086
C1180087
C1180088
C1180089
C118008A
C118008B
C118008C
C118008D
C118008E
C11800A8
C11800A9
C9170002
C917000B
C932000E
C9320022
C9320023
C9330071
C9340057
C9340058
C9340059
C934005A
C934005B
C935002C
C9360040
C936007D
C9360092
C9360093
C9360101
C942000B
C9420016
CEE3252E
CEE3257E
CEE3258E
CEE3259E
CEE3600S
CEE3880I
CF060003
CF06000B
IBM0430S
IBM0431S
IBM0432S
IBM0433S
IBM0434S
IBM0435S
IBM0436S
IBM0660S
IBM0710S
IBM0711S
IBM0712S
IBM0713S
IBM0714S

IBM0715S
IBM0716S
IBM0717S
IBM0718S
IBM0719S
IBM0720S
IBM0721S
IBM0723S
IBM0725S
IBM0726S
IBM0727S
IBM0728S
IBM0729S
IBM0730S
IBM0731S
IBM0732S
IBM0733S
IBM0734S
IBM0735S
IBM0736S
IBM0737S
IBM0738S
IBM0739S
IBM0740S
IGZ0277W
IGZ0278S
IGZ0279W
IGZ0304W
IGZ0305W
IGZ0306W
IGZ0307W
IGZ0308W
IGZ0309W
IGZ0310W
IGZ0311W
IGZ0312W
IGZ0313W
IGZ0314W
IGZ0315W
IGZ0316W
IGZ0317S
IGZ0318W
IGZ0319W for APAR PI83544
IGZ0320W for APAR PI83544
IGZ0321I for APAR PI83544
IGZ0322I for APAR PI83544
IGZ0323I for APAR PI83544
IGZ0324I for APAR PI83544
IGZ0325I for APAR PI83544
IGZ0326I for APAR PI83544
IGZ0327I for APAR PI83544

IGZ0328I for APAR PI83544
IGZ0329I for APAR PI83544
IGZ0330I for APAR PI83544
IGZ0335W for APAR PI83544
IGZ0336W for APAR PI83544
IGZ0337W for APAR PI83544
IGZ0338W for APAR PI83544
IGZ0339W for APAR PI83544
IGZ0340W for APAR PI83544
IGZ0341W for APAR PI83544
IGZ0345S for APAR PI97171
IGZ0346S for APAR PI97171
IGZ0347S for APAR PI97171
IGZ0348S for APAR PH02099
IGZ0349S for APAR PH02099
IGZ9900I for APAR PI97171
IGZ9901I for APAR PI97171
IGZ9910W for APAR PI97171
IGZ9911W for APAR PI97171
IGZ9920E for APAR PI97171
IGZ9921E for APAR PI97171
IGZ9930S for APAR PI97171
IGZ9931S for APAR PI97171
IGZ9940C for APAR PI97171
IGZ9941C for APAR PI97171

Changed

IBM0722S
IBM0724S
IGZ0265S for APAR PI97171
IGZ0266S for APAR PI97171
IGZ0278S for APAR PI97171
IGZ0279W for APAR PI97171
IGZ0304W for APAR PI97171
IGZ0305W for APAR PI97171
IGZ0306W for APAR PI97171
IGZ0307W for APAR PI97171
IGZ0308W for APAR PI97171
IGZ0309W for APAR PI97171
IGZ0310W for APAR PI97171
IGZ0311W for APAR PI97171
IGZ0312W for APAR PI97171
IGZ0313W for APAR PI97171
IGZ0314W for APAR PI97171

No longer issued

C9340034
C934004C

Network File System (NFS) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for Network File System (NFS).

All messages for NFS are documented in *z/OS Network File System Guide and Reference*.

New

GFSA870E
GFSA968I
GFSA976I
GFSA977E
GFSA1036E
GFSC507I

Changed

GFSA784I
GFSA930I
GFSA936I
GFSA939I
GFSA961I
GFSA963E
GFSA1030E
GFSA1031I

No longer issued

None

OpenSSH message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for OpenSSH.

The messages for z/OS OpenSSH are documented in [*z/OS OpenSSH User's Guide*](#).

New

FOTS2819 for zERT
FOTS3340 for APAR OA54734
FOTS3341 for APAR OA54734
FOTS3342 for APAR OA54734
FOTS3343 for APAR OA54734
FOTS3344 for APAR OA54734

Changed

None

No longer issued

None

Resource Measurement Facility (RMF) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for Resource Measurement Facility (RMF). The messages for RMF are documented in *z/OS RMF Messages and Codes*.

New

ERB439I
ERBA092I
GPM0748W
GPM0749E

Changed

ERB464I
ERB467I
ERBA053I
ERBA054I

No longer issued

ERB438I
ERBA050I

System Display and Search Facility (SDSF) message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for System Display and Search Facility (SDSF).

All messages for SDSF are documented in *z/OS SDSF Operation and Customization*.

New

COMMAND OBSOLETE
ISF185E
ISF309E
ISF351I
ISF352I
ISF353I
ISF354I
ISF355I
ISF356I
ISF454I
ISF455I
ISF456I
ISF595I
ISF795I
ISF796I
ISF880I
ISF881E
ISF882E

ISF883E
ISF884E
ISF886E
ISF889E
ISF892I
ISF893E
ISF894I
ISF896E
ISF898E

Changed

JPN HELP NOT AVAILABLE
NO RESPONSE RECEIVED
RESPONSE NOT RECEIVED
ISF437I
ISF443I
ISF045W
ISF450I
ISF451I
ISF452E
ISF453I
ISF739I

No longer issued

ISF429I

Security Server RACF message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for RACF.

All messages for RACF are documented in *z/OS Security Server RACF Messages and Codes*.

New

ICH06029I
ICH21055I
ICH08028I
IRR421I
IRR52220I
IRR52222I
IRR65042I
IRR65043I
IRR65044I
IRRC082I
IRRH330I
IRRH331I
IRRY101E
IRRY102E
IRRY103E
IRRY104E
IRRY105E
IRRY106E

IRRY107E
IRRY108E
IRRY109E
IRRY110E
IRRY111E
IRRY112E
IRRY113I
IRRY114E
IRRY115I
IRRY116E
IRRY117I
IRRY118E
IRRY119E
IRRY301I
IRRY302I
IRRY303I
IRRY304I
IRRY305I

Changed

ICH06018I
IRR67092I
IRRH276E
IRRI025I

No longer issued

None

SMP/E V3R6 message changes for z/OS V2R3

This topic lists new, changed, and no longer issued non-operator messages for SMP/E.

All messages for SMP/E are documented in *z/OS SMP/E Messages, Codes, and Diagnosis*.

New

GIM63102S
GIM70519S
GIM70528E
GIM70529E
GIM70589E
GIM70590E
GIM70591E
GIM70592E
GIM70593E
GIM70598E

Changed

GIM42802S
GIM47802S
GIM47803S

GIM48000S
GIM20555S
GIM20556S
GIM44007E
GIM69207S

No longer issued

None

TSO/E message changes for z/OS V2R3

This topic lists new, changed, and no longer issued messages for TSO/E.

The messages for TSO/E are documented in *z/OS TSO/E Messages*.

New

ICQAM709
ICQGC988
IKJ55059I
IKJ55060I
IKJ56477I
IKJ56478I
IKJ56965I
IKJ56966I
IKJ57382I

Changed

IKJ55084I
IKJ56415I
IKJ56644I
IKJ56710I
INMR153I

No longer issued

None

XL C/C++ message changes for z/OS V2R3

This lists contains new, changed, and no longer issued messages for XL C/C++.

The messages for XL C/C++ are documented in *z/OS XL C/C++ Messages*.

New

Changed

No longer issued

Xvfb message changes for z/OS V2R3

This topic lists new, changed, and no longer issued non-operator messages for Xvfb.

All messages for Xvfb are documented in *z/OS Xvfb User's Guide*.

New

None

Changed

None

No longer issued

None

z/OS UNIX message changes for z/OS V2R3

This topic lists new, changed, and deleted messages, reason codes, and return codes for z/OS UNIX.

z/OS UNIX messages, reason codes, and return codes are documented in *z/OS UNIX System Services Messages and Codes*.

New messages

BPXWMG00I
BPXWMG01I
BPXWMG02I
BPXWMG03I
BPXWMG04I
BPXWMG05I
BPXWMG06I
BPXWMG07I
BPXWMG08I
BPXWMG09I
BPXWMG010I
BPXWMG011I
BPXWMG012I
BPXWMG013I
BPXWMG014I
BPXWMG015I
BPXWMG016I
BPXWMG017I
BPXWMG018I
BPXWMG019I
BPXWMG098I
BPXWMG099I
FDBX0559
FDBX0611
FSUMF431
FSUMF432
FSUMF433
FSUMF434

Changed messages

FSUM8843
FSUMF011
FSUMF012

Deleted messages

None

New reason codes

JRIOCTLBackupClient (APAR OA54218)

Changed reason codes

JRForkExitRcParentBadEnv (APAR OA55849)
JRDataNotAvail
JrNoUserCat (APAR OA56781)

Deleted reason codes

None

New return codes

065F
0660
0661
0662
0663
0664
0665
0666
0667
0668
0669
0670
0671
0672
0673
0674
0675
0676
0677
0678
067A
067B
067C
067D
067E
067F
0680
0681

0682
0683
0684
0685
0686
0687
0688
0689

Changed return codes

03AC
063B

Clarification was made for return code 82 (ENOEXEC).

Deleted return codes

None

Chapter 8. New and changed System Management Facilities (SMF) records for z/OS V2R3

This topic lists the System Management Facilities (SMF) records for z/OS elements and features that are new or changed for z/OS V2R3.

Table 6 on page 115 provides a list of SMF records that are new or changed for z/OS V2R3. Detailed information about these SMF records can be found in one of the following documents, as indicated by the "Where documented" column in Table 6 on page 115.

Communications Server

- [Type 119 SMF records](#) in *z/OS Communications Server: IP Programmer's Guide and Reference*
- [Tuning input/output \(I/O\) operations for RoCE connections](#) in *z/OS Communications Server: SNA Network Implementation Guide*

MVS

z/OS MVS System Management Facilities (SMF)

OAM

OAM System Management Facility records in z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support

RACF

SMF records in z/OS Security Server RACF Macros and Interfaces

SMF record	z/OS element or feature	Description	Where documented
Type 14/15	DFSMS	<ul style="list-style-type: none"> • APAR OA56622 added byte 2 (SMF14DSENCNP) of the SMF14DEF field and the SMF14FLGS/SMF14FLG1 field in the DASD Data Set Encryption Information (Type 9) section. • New DASD data set encryption section added. • Updated flags in SMF14RFG1 field. • Updated length to 1 (type 14) for SFM14RV3. 	MVS
Type 23	IOS	New fields at offsets 88 and 93.	MVS

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 30	IOS	<ul style="list-style-type: none"> • APAR OA59126 defined bit 5 of field SMF30SFL and added fields SMF30NumberOfDataSpacesHWM and SMF30UserDataSpaceCreateReqCount in the Storage and Paging section. • APAR OA59998 clarified the description of the SMF30SCC field in the Completion Section. • The description for byte 0 of the SMF30CAS_OA54589 field has been updated. • New fields are added at offsets 180 and 181. 	MVS
Type 41	BCP	New fields at offsets 40, 48, 52, 56, and 60.	MVS
	BCP	<ul style="list-style-type: none"> • The description of the SMF42PSV field has been updated in the Product Section. • The descriptions of fields SMF42274 - SMF42276 have been updated, and fields SMF42277 - SMF32279 have been added in the Header/Self-defining section. 	MVS
Type 42 Subtype 5	DFSMS	<p>APAR: OA55711 adds new fields in the volume header section and adds the following new sections:</p> <ul style="list-style-type: none"> • Volume metrics section • System I/O section • System I/O statistics section • System I/O high response time section • Volume background activity • Volume cloud activity 	MVS
Type 42 Subtype 6	DFSMS	<ul style="list-style-type: none"> • APAR OA57718 added new fields in Synchronous I/O Section 2 and Synchronous I/O Section 3. • New fields, S42SNTWH, S42SNTDR, S42SNTDX, S42DS2FL and S42DS2DL, are added. • APAR OA55711 added new fields in the data set I/O statistics section. 	MVS

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 50, Record for RoCE connection	Communications Server	<ul style="list-style-type: none"> • Added new fields for RoCE port and RoCE user records: <ul style="list-style-type: none"> Offset 26 (36 bytes) Reserved Offset 62 (1 byte) Extension length (including this field) Offset 63 (1 byte) Attachment type Offset 64 (2 bytes) Version Offset 66 (16 bytes) Reserved • Added new fields for RoCE port records: <ul style="list-style-type: none"> Offset 82 (4 bytes) Number of RoCE users Offset 86 (4 bytes) Poll EQ overflow Offset 90 (4 bytes) Poll EQ count Offset 94 (4 bytes) Poll EQ entries overflow Offset 98 (4 bytes) Poll EQ entries count Offset 102 (4 bytes) PCI real interrupts overflow Offset 106 (4 bytes) PCI real interrupts count Offset 110 (4 bytes) Unproductive PCI overflow Offset 114 (4 bytes) Unproductive PCI count • Added new field for RoCE user records: <ul style="list-style-type: none"> Offset 118 (8 bytes) ULP ID • Changed the offsets for the existing RoCE user record fields at offset 26 (120 bytes). Fields were shifted 100 bytes. The new offsets are 126 through 242. <p>Reason for change: OA57381</p>	Communications Server
Type 62	DFSMS	New DASD fields identify the data set as encrypted	MVS

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)			
SMF record	z/OS element or feature	Description	Where documented
Type 70 to 79: RMF Product Section	RMF	SMF7xPRF Existing bit 6 renamed as <i>Enhanced DAT facility 1 available</i> SMF7xPED New flag bit 7 <i>Enhanced DAT facility 2 available</i> SMF7xPE2	MVS
Type 70 Subtype 2: Cryptographic Hardware Activity	RMF (Processor Activity)	<ul style="list-style-type: none"> APAR OA59330 added new FFX measurement fields in the ICSF Services Data section. New cryptographic processor types are added. 	MVS
Type 71	RMF	New fields added to the Paging Data Section	MVS
Type 72 Subtype 3: Workload Activity	RMF	Updated descriptions for R723CAMU and R723CAMD. Updated descriptions for R723MFLG and R723GGLT. Added new field R723GGML New fields R723CTET2, R723CXET2, R723CETS2, R723CTETX, R723CXETX, R723CETSX, R723CQDTX, R723CADTX, R723CCVTX, R723CIQTX	MVS
Type 72 Subtype 4: Storage Activity	RMF	Description changes and new fields: R724ETX and R724QTX.	MVS
Type 74 Subtype 1:	RMF	Updated description for fields SMF74CN2, SMF74AGC, SMF74AGS, SMF74PRF. Added new fields: SMF74SBR, SMF74SBW, SMF74SQR, SMF74SQW, SMF74SPR, SMF74SPW, SMF74SFTR, SMF74SFTW, SMF74SLBR, SMF74SLBW, SMF74SCMR, SMF74SNIS, SMF74STOR, SMF74STOW, SMF74SOR, SMF74SOW, SMF74IOS.	MVS
Type 74 Subtype 4	RMF	<ul style="list-style-type: none"> APARs OA58729 and OA58724 added new fields in the Request Data Section. Updated length to 1 for the R744QFLG field. Updated status flag descriptions. Added new fields: R744SWDR, R744SWAC, R744SRDR, R744SRAC, R744SWEC, R744SREC, R744SWED, R744SWES, R744SRED, R744SRES 	MVS
Type 74 Subtype 5	RMF	Updated status flag descriptions.	MVS

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 74 Subtype 9	RMF	Updated status flag descriptions for R749LOOP , R749STOP , R749SBOP , R749RF08. Added new fields: R749PFT, SMF749SO, SMF749SL, SMF749SN, R749PORT, R749PFT, R749WWNN, R749SIOO, R749SION, R749RTDO, R749RTDN New Synchronous I/O Link Data section was added with field R749SND. New Synchronous I/O Response Time Distribution Data section was added with fields R749RFLG, R749RTSC and R749RTRV.	MVS
Type 74 Subtype 10	RMF	Added new fields: R7410CWUC, R7410CWU, R7410FLG	MVS
Type 78 Subtype 2	RMF	New fields added to the Private Area Summary Data Section R782PVT	MVS
Type 78 Subtype 3	BCP	Bit 2 is defined in the R783GFLX field.	MVS
Type 80	RACF	<ul style="list-style-type: none"> • Offset 80 updated for FMID, 77B0. • New relocate, 43(2B), added for class name from SETROPTS GENLIST/NOGENLIST. • New extended-length relocate, 358(166), added for certificate requester name. • The MFA extended-length relocate, 440, is updated and new relocate, 444, is added to contain new ALTUSER subkeyword for CICS auditing support • New extended-length relocate, 445, added to support CICS client identity capability. 	RACF
Type 84	JES2	New subtype 21 for JES2 fields SMF84JRU DSECT, R84MEMJ2, R84RSUJ2.	MVS
Type 85 (X'55')	DFSMS OAM	New fields R85POSUB and R85PSSID.	OAM
Type 90 Subtype 40	MVS	<ul style="list-style-type: none"> • APAR OA59813 updated the SMF90T40_Event, SMF90T40_Flags0, and SMF90T40_Flags1 fields. • APAR OA59813 added the SMF90T40_RP_Start_Requestor_ID and SMF90T40_RP_Duration fields. 	MVS
Type 92 Subtype 8	z/OS UNIX	New subtype record that is produced when the target file system is mounted during file system migration.	MVS
Type 92 Subtype 50	zFS	New subtype; records file system events.	MVS
Type 92, Subtype 51	zFS	New subtype; records zFS call counts.	MVS

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 92, Subtype 52	zFS	New subtype; contains statistics for the zFS user file cache.	MVS
Type 92, Subtype 53	zFS	New subtype; contains statistics for the zFS metadata cache.	MVS
Type 92, Subtype 54	zFS	New subtype; contains zFS locking and sleeps statistics, including the most highly contented locks.	MVS
Type 92, Subtype 55	zFS	New subtype; contains general disk I/O statistics for zFS.	MVS
Type 92, Subtype 56	zFS	New subtype; contains information about the token manager.	MVS
Type 92, Subtype 57	zFS	New subtype; details zFS use of memory, with total bytes allocated to each zFS subcomponent	MVS
Type 92, Subtype 58	zFS	New subtype; contains per-file system usage.	MVS
Type 92, Subtype 59	zFS	New subtype; transmit/receive statistics for the sysplex.	MVS
Type 98	BCP	New fields added to the Identification section, Context summary section, and Subtype 1 Environmental section.	MVS
Type 99, Subtype 1 records	WLM	<ul style="list-style-type: none"> • APAR OA59366 added the SMF99_BOOSTINFO field in the System State Information section. • New fields added to the Software Licensing Information section. 	MVS
Type 99, Subtype 2 records	WLM	<ul style="list-style-type: none"> • APAR OA59366 updated the SMF99FLAGS2 field in the Period Data section. • New fields added to the Address Space Expanded Storage Access Policy section. 	MVS
Type 99, Subtype 12 records	WLM	Change to the SMF99C_VCM_DIAGCAPDECR_CONT field in the Capacity Data section.	MVS
Type 117	IOS	Type changed for WSAP and IIB.	MVS

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP connection termination record (subtype 2)	Communications Server	<ul style="list-style-type: none"> • New IP filter section. Indicates the inbound and outbound IP filters associated with this connection. • New SMF119AP_TTIPsecurityFlags field. Indicates whether IP security is enabled for this TCP/IP stack and whether IP filtering was done for this connection. <p>Reason for change:SMF 119 TCP connection termination record (subtype 2) enhanced to provide IP filter information</p>	Communications Server

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP connection termination record (subtype 2)	Communications Server	<ul style="list-style-type: none"> • New SMF119AP_TTSMCDStatus field. Indicates whether an SMC-D link that is established for this connection is active or inactive. If SMF119AP_TTSMCDReason is also X'0000', SMC-D link establishment has not been attempted. • New SMF119AP_TTSMCDReason field. Indicates why the connection does not use an SMC-D link. • New flag bits in the SMF119AP_TTSMCFlags field: <ul style="list-style-type: none"> – New SMF119AP_TTSMCDRSNRMT flag bit. Indicates that the peer sets the SMC-D reason value in the SMF119AP_TTSMCDReason field. – New SMF119AP_TTSMCDCACHED flag bit. Indicates that this route cached to not use SMC-D. • New SMF119AP_TTLclSMCLinkId field. Indicates the local stack link ID for the SMC-D or SMC-R link that this connection traverses. • New SMF119AP_TTRmtSMCLinkId field. Indicates the remote stack link ID for the SMC-D or SMC-R link that this connection traverses. • New SMF119AP_TTLclSMCBufSz field that indicates the size of the RMB or DMB element that is used by the local host for receiving data on this connection from the remote host. • New SMF119AP_TTRmtSMCBufSz field. Indicates the size of the RMB or DMB element that is used by the remote host for receiving data on this connection from the local host. <p>Reason for change: Shared Memory Communications - Direct Memory Access</p>	Communications Server
Type 119, TCP connection termination record (subtype 2)	Communications Server	<p>New SMF119AP_TTTTLSP values</p> <p>Reason for change: AT-TLS currency with System SSL</p>	Communications Server

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 119, FTP client transfer completion record (subtype 3)	Communications Server	<ul style="list-style-type: none"> • New field SMF119S6Off. Contains the offset to FTP client load module name section. • New field SMF119S6Len. Contains the Length of FTP client load module name section. • New field SMF119S6Num. Contains the number of FTP client load module name sections. • New field SMF119FT_FCMemNum. Contains the number of members associated with the file transfer operation • New field SMF119FT_FCLibNameLen. Contains the length of the name of the load module or program object library associated with the file transfer operation • New field SMF119FT_FCLibName. Contains the name of the load module or program object library associated with the file transfer operation • New field SMF119FT_FCMemName. Contains the names of the members associated with the file transfer operation. There is no delimiter between the names of members. Each member name occupies 8 bytes with trailing blanks padded. 	Communications Server
Type 119, FTP client transfer completion record (subtype 3)	Communications Server	<p>Updated the SMF119FT_FCFips140 field to support FIPS140 Level1, Level2, and Level3.</p> <p>Reason for change: AT-TLS currency with System SSL</p>	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>Global configuration section</p> <ul style="list-style-type: none"> • The new NMTP_GBCFAutoIQDC byte is set to indicate the setting of AUTOIQDC specified on the GLOBALCONFIG statement. <p>Reason for change: HiperSockets Converged Interface support</p>	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP/IP Profile event record (subtype 4)	Communications Server	<ul style="list-style-type: none"> • NMTP_GBCFZERTAGG indicates that the AGGREGATION subparameter was specified on the GLOBALCONFIG ZERT profile statement. • NMTP_MGMT119ZertSummary indicates that ZERTSUMMARY was specified on the SMFCONFIG TYPE119 profile statement. • NMTP_MGMTNMZertSummary indicates that ZERTSUMMARY was specified on the NETMONITOR profile statement. <p>Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation</p>	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<ul style="list-style-type: none"> • New flag NMTP_GBCFZERT in the NMTP_GBCFFlags field in the global configuration section. • New flag NMTP_MGMT119ZertDetail in the NMTP_MGMTSmf119Types field in the management section. • New flag NMTP_MGMTNMZert in the NMTP_MGMTNetMonServices field in the management section. <p>Reason for change: z/OS Encryption Readiness Technology</p>	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>IPv4 configuration section</p> <ul style="list-style-type: none"> The new NMTP_V4CFDynXcfSMCD value is specified whether the dynamically generated XCF interface can be used for new TCP connections with SMC-D. <p>IPv6 configuration section</p> <ul style="list-style-type: none"> The new NMTP_V6CFDynXcfSMCD value is specified whether the dynamically generated XCF interface can be used for new TCP connections with SMC-D. <p>Global configuration section:</p> <ul style="list-style-type: none"> The new NMTP_GBCFSMCD flag bit is set in the NMTP_GBCFFlags field to indicate that the SMCD operand was specified on the GLOBALCONFIG statement. The new NMTP_GBCFFixedMemoryD field specifies the SMCD FIXEDMEMORY value. FIXEDMEMORY is specified in megabyte increments. The new NMTP_GBCFTcpKeepMinIntD field specifies the SMCD TCPKEEPMININTERVAL value. <p>Interface section:</p> <ul style="list-style-type: none"> The new NMTP_INTFSMCD flag bit is set in the NMTP_INTFFlags field for OSA or HiperSocket interfaces that have SMCD specified or that take the SMCD default on the INTERFACE statement. <p>Management section</p> <ul style="list-style-type: none"> New NMTP_MGMT119SmcDLnkStats flag bit in the NMTP_MGMTSmf119Type field. Indicates that the new SMC-D link statistics records were requested on the SMFCONFIG profile statement. New NMTP_MGMT119SmcDLnkEvent flag bit in the NMTP_MGMTSmf119Type field. Indicates that the new SMC-D link state start and end records were requested on the SMFCONFIG profile statement. <p>Reason for change: Shared Memory Communications - Direct Memory Access</p>	Communications Server

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)

SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>New flag byte field NMTP_GBCFSMCGFlags with the following flag bits:</p> <ul style="list-style-type: none"> NMTP_GBCFAutoCache NMTP_GBCFAutoSMC <p>Reason for change:</p> <ul style="list-style-type: none"> Shared Memory Communications over RDMA enhancements Shared Memory Communications - Direct Memory Access 	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>Global Configuration section:</p> <ul style="list-style-type: none"> NMTP_GBCPPFport represents the configured or learned port number used for its corresponding NMTP_GBCFPFid. <p>Reason for change: Communications Server support for RoCE Express2 features</p>	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>New flag bits NMTP_PORTRSMC and NMTP_PORTRNoSMC in field NMTP_PORTRsvOptions.</p> <p>Reason for change:</p> <ul style="list-style-type: none"> Shared Memory Communications over RDMA enhancements Shared Memory Communications - Direct Memory Access 	Communications Server
Type 119, TCP/IP profile event record (subtype 4)	Communications Server	<p>Global Configuration section:</p> <p>New field NMTP_GBCFzAGGtim_INTVAL indicates the setting of the INTVAL sub-parameter on the GLOBALCONFIG statement.</p> <p>New field NMTP_GBCFzAGGtim_SYNCVAL indicates the setting of the SYNCVAL sub-parameter on the GLOBALCONFIG statement.</p> <ul style="list-style-type: none"> NMTP_GBCFzAGGtim_SYNCVAL_HH is the hours part of SYNCVAL (format of 24-hour military time). NMTP_GBCFzAGGtim_SYNCVAL_MM is the minutes portion of SYNCVAL. <p>Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation recording interval</p>	Communications Server

Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)			
SMF record	z/OS element or feature	Description	Where documented
Type 119, TCP/IP statistics record (subtype 5)	Communications Server	<p>New fields SMF119AP_TSSTZAGGCurrent and SMF119AP_TSSTZAGGMax, in the TCP statistics section, provide current and maximum storage usage statistics for ZERT AGGREGATION.</p> <p>Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation recording interval</p>	Communications Server
Type 119, TCP/IP statistics record (subtype 5)	Communications Server	<ul style="list-style-type: none"> When the SMCD parameter is configured on the GLOBALCONFIG statement, the following TCP counters reflect all TCP connections, including connections over SMC-D links. The following existing TCP stats are updated: <ul style="list-style-type: none"> SMF119AP_TSTCEstab SMF119AP_TSTCOpenConn SMF119AP_TSTCPassConn SMF119AP_TSTCConCls SMF119AP_TSTCInSegs SMF119AP_TSTCSEgs SMF119AP_TSTCReset SMF119AP_TSTCConReset SMF119AP_TSTCOKApr SMF119AP_TSTCDropKA SMF119AP_TSTCDropF2 The following new SMC-D stats are added at the end of the TCP statistics section. <ul style="list-style-type: none"> SMF119AP_TSSMCDCurrEstabLnks SMF119AP_TSSMCDActLnkOpened SMF119AP_TSSMCDPasLnkOpened SMF119AP_TSSMCDLnksClosed SMF119AP_TSSMCDCurrEstab SMF119AP_TSSMCDActiveOpened SMF119AP_TSSMCDPassiveOpened SMF119AP_TSSMCDConnClosed SMF119AP_TSSMCDInSegs SMF119AP_TSSMCDOutSegs SMF119AP_TSSMCDInRsts SMF119AP_TSSMCDOutRsts The following new SMC-D storage stats are added in the storage statistics section. <ul style="list-style-type: none"> SMF119AP_TSSTSMCDFixedCurrent SMF119AP_TSSTSMCDFixedMax <p>Reason for change: Shared Memory Communications - Direct Memory Access</p>	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, Interface statistics record (subtype 6)	Communications Server	<ul style="list-style-type: none"> SMF119IS_IFDesc has two new values: IPAQIQDC and IPAQIQDC6. New SMF119IS_IFIQDCFLAG bit is set in the SMF119IS_IFFlags field to indicate that IQDC flag indicates the associated name and the associated statistics are for IQDC, not IQDX. SMF119IS_IFIQDCName is the associated IQDC interface name for IPAQENET and IPAQENET6 interfaces that are defined with CHPIDTYPE OSD and with an associated IQDC interface. SMF119IS_IFInIQDCBytes indicates the number of inbound bytes that were received over the associated IQDC interface. SMF119IS_IFInIQDCUniC indicates the number of inbound unicast packets that were received over the associated IQDC interface. SMF119IS_IFOutIQDCBytes indicates the number of outbound bytes that were sent over the associated IQDC interface. SMF119IS_IFOutIQDCUniC indicates the number of outbound unicast packets that were sent over the associated IQDC interface. <p>Reason for change: HiperSockets Converged Interface support</p>	Communications Server
Type 119, Interface statistics record (subtype 6)	Communications Server	<ul style="list-style-type: none"> New SMF119IS_IFSMCDLGED flag bit is set in the SMF119IS_IFFlags field for OSA or HiperSocket interfaces. Contains information that is related to the SMC-D characteristics. Updated SMF119IS_IFPNetID field. Contains the Physical network ID for active OSD, OSX, RNIC, ISM interfaces. <p>Reason for change: Shared Memory Communications - Direct Memory Access</p>	Communications Server
Type 119, z/OS Encryption Readiness Technology record (subtype 11)	Communications Server	<p>New subtype record to report zERT connection details</p> <p>Reason for change: z/OS Encryption Readiness Technology</p>	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, zERT summary record (subtype 12)	Communications Server	New SMF 119 subtype to report z/OS Encryption Readiness Technology (zERT) aggregation function records. Reason for change: z/OS Encryption Readiness Technology (zERT) aggregation	Communications Server
Type 119, SMC-D link statistics record (subtype 38)	Communications Server	New SMC-D link statistics record. Provides statistics about SMC-D links. Reason for change: Shared Memory Communications - Direct Memory Access	Communications Server
Type 119, SMC-D link state start record (subtype 39)	Communications Server	New SMC-D link state start record. Provides statistics for an SMC-D link at the time that the link is started. Reason for change: Shared Memory Communications - Direct Memory Access	Communications Server
Type 119, SMC-D link state end record (subtype 40)	Communications Server	New SMC-D link state end record. Provides statistics for an SMC-D link at the time that the link is ended. Reason for change: Shared Memory Communications - Direct Memory Access	Communications Server
Type 119, RNIC interface statistics record (subtype 44)	Communications Server	<ul style="list-style-type: none"> • SMF119SM_RSGen. Represents the RNIC card generation level. • SMF119SM_RSSpeed. Represents the transmission level for the RNIC Reason for change: Communications Server support for RoCE Express2 features	Communications Server
Type 119, Internal shared memory (ISM) interface statistics record (subtype 45)	Communications Server	New Internal shared memory (ISM) interface statistics record. Provides statistics about ISM interfaces. Reason for change: Shared Memory Communications - Direct Memory Access	Communications Server
Type 119, CSSMTP configuration record (CONFIG subtype 48)	Communications Server	<ul style="list-style-type: none"> • New field SMF119ML_CF_AtSign. Specifies value of AtSign option. • New field SMF119ML_CF_TLSEhlo. Specifies value of TLSEhlo option. • New field SMF119ML_TS_Charset. Specifies value of target server code page. Reason for change: CSSMTP mail compatibility enhancements	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, CSSMTP Connection (CONNECT subtype 49)	Communications Server	New field SMF119ML_CN_TLSSFP. Updates to support FIPS140 Level1, Level2, and Level3 Reason for change: AT-TLS currency with System SSL	Communications Server
Type 119, FTP server transfer completion record (subtype 70)	Communications Server	<ul style="list-style-type: none"> • New field SMF119S6Off. Contains the offset to FTP server load module name section. • New field SMF119S6Len. Contains the Length of FTP server load module name section. • New field SMF119S6Num. Contains the number of FTP server load module name sections. • New field SMF119FT_FSMemNum. Contains the number of members associated with the file transfer operation • New field SMF119FT_FSLibNameLen. Contains the length of the name of the load module or program object library associated with the file transfer operation • New field SMF119FT_FSLibName. Contains the name of the load module or program object library associated with the file transfer operation. • New field SMF119FT_FSMemName. Contains the names of the members associated with the file transfer operation. No delimiter between the names of members. Each member name occupies 8 bytes with trailing blanks padded. 	Communications Server
Type 119, FTP server transfer completion record (subtype 70)	Communications Server	Updated the SMF119FT_FSFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communications Server
Type 119, FTP server login failure record (subtype 72)	Communications Server	Updated the SMF119FT_FFFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communications Server
Type 119, VTAM 3270 intrusion detection services record (subtype 81)	Communications Server	New record in response to VTAM 3270 intrusion detection services Reason for change: VTAM 3270 intrusion detection services	Communications Server

<i>Table 6. New and changed System Management Facilities (SMF) records for z/OS V2R3 (continued)</i>			
SMF record	z/OS element or feature	Description	Where documented
Type 119, FTP transfer initialization record (subtype 100)	Communications Server	Updated the SMF119FT_FSFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communication s Server
Type 119, FTP client transfer initialization record (subtype 101)	Communications Server	Updated the SMF119FT_FCFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communication s Server
Type 119, FTP client login failure record (subtype 102)	Communications Server	Updated the SMF119FT_FCFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communication s Server
Type 119, FTP client session record (subtype 103)	Communications Server	Updated the SMF119FT_FCFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communication s Server
Type 119, FTP server session record (subtype 104)	Communications Server	Updated the SMF119FT_FSFips140 field to support FIPS140 Level1, Level2, and Level3. Reason for change: AT-TLS currency with System SSL	Communication s Server
Type 122, IBM Explorer for z/OS and dependent products	IBM Explorer for z/OS	New record type 122. New subtype 1 for IBM Developer for IBM Z®.	MVS
Type 124	IOS	Updated offsets 22, 24, and 140 for subtype 1. New offset 148.	MVS
Type 125	IOS	New type; data persistence.	MVS

Chapter 9. New and changed members in SYS1.MACLIB for z/OS V2R3

This topic lists the lists the new and changed members of SYS1.MACLIB for z/OS V2R3.

Table 7 on page 133 lists the new and changed members of SYS1.MACLIB for z/OS V2R3.

Table 7. New and changed members in SYS1.MACLIB for z/OS V2R3

Member	Element or feature	Description	Reason for change
EZASMF77	Communications Server	Updates to SMF 119 records. See Chapter 8, “ New and changed System Management Facilities (SMF) records for z/OS V2R3 ,” on page 115 for more detailed information.	Release updates
IFAHDR	MVS	New macro for SMF publication for constraint.	Constraint item.
IFASMFH	MVS	New macro for SMF publication for constraint.	Constraint item.
IFAEXITP	MVS	New macro for SMF publication for constraint.	Constraint item.
IHBRDWRA	Communications Server	Support for OPTCD=IDS3270	VTAM 3270 intrusion detection services
IMDMEDIT	MVS	Add GTF event ID IMDVTMDS (X'F90')	VTAM 3270 intrusion detection services
ISTAMSVL	Communications Server	Define flag AMS05B62 for IDS3270 support	VTAM 3270 intrusion detection services
ISTGLBAL	Communications Server	Define flag ISTGL62 for IDS3270 support	VTAM 3270 intrusion detection services
ISTRPLEX	Communications Server	Define RPLS3270 API flag	VTAM 3270 intrusion detection services
ISTSFMF77	Communications Server	Define SMF type 119, subtype 81 SMF record	VTAM 3270 intrusion detection services

Chapter 10. New and changed SYS1.PARMLIB members for z/OS V2R3

This topic lists the new and changed SYS1.PARMLIB members for z/OS V2R3.

See *z/OS MVS Initialization and Tuning Reference* for more information about these members.

Table 8 on page 135 lists the new and changed members of SYS1.PARMLIB for z/OS V2R3.

Member	Element or feature	Description
ANTXIN00	DFSMS	New MessageVolumeFormat parameter to control whether messages that include volume information show the volume serial, the device number, or both.
BPXPRMxx	BCP	Clarification added: A new note indicates that the USS_SUPERUSER health check can be used to verify that the SUPERUSER option contains a user ID that is defined to the security product and has an OMVS segment with a UID of 0. Updated statement: To support the ability to unmount the version file system if it is no longer being used in the sysplex, the VERSION statement was updated to include the UNMOUNT and NOUNMOUNT attributes. New statement: SC_EXITTABLE enables pre-system call and post-system call exit routines for select z/OS UNIX callable services. APAR OA5100: A new UMASK statement assigns a default umask value for all z/OS UNIX users. It lists the disallowed permission settings of files and directories that are created by users or processes.
CTIEZB00	Communications Server	New ZERT CTRACE option added to CTIEZB00. CTRACE option group SMTP removed from CTIEZB00.
DEVSUPxx	DFSMS	New feature: AOM496I on the ENABLE DISABLE parameter, enables or disables the issuing of the AOM496I status message for transparent cloud tiering operations.
FXEPRMxx	BCP	New FXEPRMxx parmlib member contains statements that let you control the IBM Function Registry for z/OS, for example statements that affect the enablement state of individual function entries.
IEAOPTxx	BCP	New parameter: ABSMSUCAPPING specifies whether a defined capacity limit or group capacity limit is enforced only when the long term four-hour rolling average consumption is greater than or equal to the defined limit, or if it is always enforced. New parameter: RTCapLeadTime specifies how far in advance an upcoming soft capping should influence WLM's sysplex routing recommendations. New parameter: WLMIRDSTRUC enables WLM to connect to a WLM IRD structure with a 4-digit or 5-digit name of the CUP number.
IEASYSxx	BCP	Changed to remove the console support mode (<i>modespec</i>) parameter from CON=. New FXE parameter lets you specify one or more suffixes of the IBM Function Registry for z/OS parmlib member, FXEPRMxx to be used by the system. New IZU parameter identifies one or more IZUPRMxx parmlib members to be used for your z/OSMF configuration. LFAREA INCLUDE1MAFC(NO) is no longer applicable for this parameter.
IECIOSxx	BCP	New XPAV parameter added to the HYPERPAV statement.
IGDSMSxx	DFSMS	Changed the default value for the CA_RECLAIM statement, from NONE to DATACLAS.
IXGCNFxx	BCP	The ZAI statement has a new TPNAME(<i>transport_name</i>) parameter (APAR OA53111).

<i>Table 8. New and changed SYS1.PARMLIB members for z/OS V2R3 (continued)</i>		
Member	Element or feature	Description
IZUPRMxx	z/OSMF	<p>The following statements are new:</p> <ul style="list-style-type: none"> • AUTOSTART • AUTOSTART_GROUP • CSRF_SWITCH • USER_DIR <p>The value SYSPLEX_MGMT is added to the PLUGINS statement.</p>
LOAD	BCP	Added GSF (the hardware-based Guarded-Storage Facility) to the list of hardware features that can be disabled on the MACHMIG statement.

Chapter 11. New and changed SYS1.PROCLIB and SYS1.IBM.PROCLIB members for z/OS V2R3

This topic lists the lists the new and changed members of SYS1.PROCLIB and SYS1.IBM.PROCLIB for z/OS V2R3.

Table 9 on page 137 lists the new and changed members of SYS1.PROCLIB and SYS1.IBM.PROCLIB for z/OS V2R3.

<i>Table 9. New and changed SYS1.PROCLIB and SYS1.IBM.PROCLIB members for z/OS V2R3</i>		
Member	Element or feature	Description
IZUANG1	z/OSMF	This procedure is changed. It is used to start the z/OSMF angel process on your system.
IZUINSTP	z/OSMF	This procedure is new. It is used by the z/OSMF server for communicating with z/OS components.
IZUSVR1	z/OSMF	This procedure is changed. It is used to start the z/OSMF server on your system.

Chapter 12. New and changed SYS1.SAMPLIB members for z/OS V2R3

This topic lists the lists the new and changed members of SYS1.SAMPLIB for z/OS V2R3.

Table 10 on page 139 lists the new and changed members of SYS1.SAMPLIB for z/OS V2R3.

<i>Table 10. New and changed SYS1.SAMPLIB members for z/OS V2R3</i>		
Member	Element or feature	Description
IXGCNFxx	BCP	The ZAI statement contains a new TPNAME(NONE) parameter (APAR OA53111).
IZUSEC	z/OSMF	New resource profiles are added to this sample RACF commands job.

Appendix A. Accessibility

Accessible publications for this product are offered through [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the [Contact the z/OS team web page \(www.ibm.com/systems/campaignmail/z/zos/contact_z\)](http://www.ibm.com/systems/campaignmail/z/zos/contact_z) or use the following mailing address.

IBM Corporation
Attention: MHVRCFS Reader Comments
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Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- *z/OS TSO/E Primer*
- *z/OS TSO/E User's Guide*
- *z/OS ISPF User's Guide Vol I*

Dotted decimal syntax diagrams

Syntax diagrams are provided in dotted decimal format for users who access IBM Documentation with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or 3.1 or 3.1.1. To hear these numbers correctly, make sure that the screen reader is set to read out punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number 3.1)

are mutually exclusive alternatives. If you hear the lines 3.1 USERID and 3.1 SYSTEMID, your syntax can include either USERID or SYSTEMID, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The * symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element *FILE with dotted decimal number 3 is given the format 3 * FILE. Format 3* FILE indicates that syntax element FILE repeats. Format 3* * FILE indicates that syntax element * FILE repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines 5.1*, 5.1 LASTRUN, and 5.1 DELETE mean that if you use more than one of the LASTRUN and DELETE syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line 2.1 %OP1 means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

? indicates an optional syntax element

The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example 5? NOTIFY). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines 5 ?, 5 NOTIFY, and 5 UPDATE, you know that the syntax elements NOTIFY and UPDATE are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

! indicates a default syntax element

The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the ! symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines 2? FILE, 2.1! (KEEP), and 2.1 (DELETE), you know that (KEEP) is the default option for the FILE keyword. In the example, if you include the FILE keyword, but do not specify an option, the default option KEEP is applied. A default option also applies to the next higher dotted decimal number. In this example, if the FILE keyword is omitted, the default FILE(KEEP) is used. However, if you hear the lines 2? FILE, 2.1, 2.1.1! (KEEP), and 2.1.1 (DELETE), the default option KEEP applies only to the next higher dotted decimal number, 2.1 (which does not have an associated keyword), and does not apply to 2? FILE. Nothing is used if the keyword FILE is omitted.

*** indicates an optional syntax element that is repeatable**

The asterisk or glyph (*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the * symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line 5.1* data area, you know that you can include one data area, more than one data area, or no data area. If you hear the lines 3* , 3 HOST, 3 STATE, you know that you can include HOST, STATE, both together, or nothing.

Notes:

1. If a dotted decimal number has an asterisk (*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.
2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write HOST STATE, but you cannot write HOST HOST.
3. The * symbol is equivalent to a loopback line in a railroad syntax diagram.

+ indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line 6.1+ data area, you must include at least one data area. If you hear the lines 2+, 2 HOST, and 2 STATE, you know that you must include HOST, STATE, or both. Similar to the * symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the * symbol, is equivalent to a loopback line in a railroad syntax diagram.

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