

CICS Transaction Server for z/OS
Version 5 Release 6

CICS Codes



Note

Before using this information and the product it supports, read the information in [Product Legal Notices](#).

This edition applies to the IBM® CICS® Transaction Server for z/OS®, Version 5 Release 6 (product number 5655-Y305655-BTA) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright International Business Machines Corporation 1974, 2020.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About this PDF.....	V
Chapter 1. Transaction abend codes.....	1
AAxx abend codes.....	3
ABxx abend codes.....	3
ACxx abend codes.....	3
ADxx abend codes.....	3
AExx abend codes.....	3
AFxx abend codes.....	3
AGxx abend code.....	3
AIxx abend codes.....	3
AJxx abend codes.....	3
AKxx abend codes.....	3
ALxx abend codes.....	3
AMxx abend codes.....	3
ANxx abend codes.....	3
AOxx abend codes.....	3
APxx abend codes.....	3
ARxx abend codes.....	3
ASxx abend codes.....	3
ATxx abend codes.....	3
AUxx abend codes.....	3
AWxx abend codes.....	3
AXxx abend codes.....	3
AZxx abend codes.....	3
Chapter 2. System abend and dump codes.....	5
CICS system dump codes.....	5
DHxx (IMS) abend codes.....	6
01xx (translator) abend codes.....	6
02xx (DFHPD730) abend codes.....	6
03xx (DFHCSDUP) abend codes.....	6
04xx (external CICS interface) abend codes.....	6
4xxx LE/370 abend codes.....	6
CICSplex SM Abend and dump codes.....	6
CICS abend and dump codes.....	6
Uxxxx abend codes.....	8
System dump codes.....	9
Notices.....	11

About this PDF

This PDF is a reference of CICS transaction abend codes, and system abend codes. Before CICS TS V5.4, this information was in the PDF called *CICS Messages and Codes, Volume 1*.

For details of the terms and notation used in this book, see [Conventions and terminology used in the CICS documentation](#) in IBM Knowledge Center.

Date of this PDF

This PDF was created on May 28th 2020.

Chapter 1. Transaction abend codes

When abnormal conditions occur, CICS can send a message to the CSMT transient data destination that contains the transaction ID, the program name, and the abend code.

Here is an example:

```
DFHAC2236: date time applid Transaction tranid abend primary abcode
in program program name term termid backout successful
{ batchid = }batchid. message
```

Alternatively, the application can intercept abends by including an active **EXEC CICS HANDLE ABEND** command. The actual abend code can be determined by issuing the **EXEC CICS ASSIGN** command with the **ABCODE** option.

The transaction identification code *tranid* usually consists of the 4 characters defined to CICS. However, when a transaction is initiated by using a light pen, an operator identification (OPID) card reader, or 3270 PA or PF keys (specified in the TASKREQ= operand), CICS creates an internal transaction identification in the form of a 1-byte 3270 attention identification (AID) code followed by 3 bytes of X'FF'.

The code that may actually appear in the message in place of the internally-created transaction identification will be *xx*, where xx is the character translation of the 3270 AID code. To prevent ambiguity, the user should avoid using these codes as transaction identifiers.

The keys, the light pen (LPA), and OPID, and their corresponding printed AID codes are given in the following list:

PF1	*F1*	PF13	*C1*	LPA	*7E*
PF2	*F2*	PF14	*C2*	OPID	*E6*
PF3	*F3*	PF15	*C3*	PA1	*6C*
PF4	*F4*	PF16	*C4*	PA2	*6E*
PF5	*F5*	PF17	*C5*	PA3	*6B*
PF6	*F6*	PF18	*C6*		
PF7	*F7*	PF19	*C7*		
PF8	*F8*	PF20	*C8*		
PF9	*F9*	PF21	*C9*		
PF10	*7A*	PF22	*4A*		
PF11	*7B*	PF23	*4B*		
PF12	*7C*	PF24	*4C*		

An abend code indicates the cause of an error that may have been originated by CICS or by a user program. For most of the abend codes described, a CICS transaction dump is provided at abnormal termination.

All CICS transaction abend codes *abcode* are 4-character alphanumeric codes of the form **A**xx*y*, where:

A

is the IBM-assigned designation of a CICS transaction abend.

xx

is the 2-character code assigned by CICS to identify the module that detected an error.

y

is the 1-character alphanumeric code assigned by CICS.

Format of information

For each transaction abend code, the following information is given:

- An explanation of events leading to or following the message.
- The action that has been or will be taken by CICS (system action).
- The action recommended for the user (console or terminal operator).
- The module or modules that can determine that the message should be sent (not necessarily the module or modules that can issue the macro to write the message.)

AAxx abend codes

ABxx abend codes

ACxx abend codes

ADxx abend codes

AExx abend codes

AFxx abend codes

AGxx abend code

AIxx abend codes

AJxx abend codes

AKxx abend codes

ALxx abend codes

AMxx abend codes

ANxx abend codes

AOxx abend codes

APxx abend codes

ARxx abend codes

ASxx abend codes

ATxx abend codes

AUxx abend codes

AWxx abend codes

AXxx abend codes

AZxx abend codes

Chapter 2. System abend and dump codes

Abend and dump codes are used by the following system components and products:

- The CICS system
- IMS
- The CICS translator
- The CICS system dump program
- The CICS utility program, DFHCSDUP
- The external CICS interface
- The CICS JVM interface
- Language Environment®

CICS system dump codes

To help proceed with problem diagnosis, CICS references a system dump code that corresponds to the event that requested a CICS system dump. In most cases, system dump codes correspond to a DFH message with the DFH prefix removed.

For example, system dump code DM0001 corresponds to message DFHDM0001 with the DFH tag removed. For further information, look up the relevant message where appropriate.

However, there are some exceptions to this format, as shown in the following list.

System dump code

Corresponding message or exception condition

ABNDU603

This system dump code refers to a USER abend code and is associated with message DFHSR0603.

ABNDU605

This system dump code refers to a USER abend code and is associated with message DFHSR0605.

APTRAPPC

This system dump code is associated with message DFHTR1001.

APTRAPUS

This system dump code is associated with message DFHTR1000.

APUSER

This system dump code is issued through the use of the CEBT transaction when performing a PERFORM SNAP command.

APXRFTO

This system dump code has no DFH message associated with it. An error in the currently active CICS system has occurred. An alternate CICS system is now taking control and is requesting that the active CICS system produces a dump of itself.

CCVNOSP

This dump along with the DFHCC0203 message is provided for diagnostic purposes when a "no space" response is received from VSAM while attempting to write a catalog record.

MT0001

This system dump code has no DFH message associated with it. It indicates that a dump was requested by a user of CEMT, issuing either a PERFORM SNAP or a PERFORM DUMP.

For more information about using dumps in problem diagnosis, see [Using dumps in problem determination](#).

DHxx (IMS) abend codes

If the IMS high-level programming interface (HLPI) has found a condition caused by a programming error, or if DL/I has returned a status code to HLPI that indicates an error, IMS returns a status code xx to CICS Transaction Server for z/OS. Some more common abend codes are listed here. For a full list of xx status codes that can make up a DHxx abend, see [DL/I status codes in IMS product documentation](#).

01xx (translator) abend codes

02xx (DFHPD730) abend codes

03xx (DFHCSDUP) abend codes

04xx (external CICS interface) abend codes

4xxx LE/370 abend codes

Abend codes in the range 4000 to 4095 are issued by LE/370 runtime library modules for LE enabled applications running on CICS.

When LE/370 detects an unrecoverable error, LE/370 terminates the transaction with an EXEC CICS abend with an abend code numbered from 4000-4095. A write-to-operator (WTO) is performed to write a CEE1000S message to the system console. This message contains the abend code and the reason code associated with the abend.

Some of these abends can occur when the system is under stress and LE/370 is unable to acquire the resources required to report a previous abend or failure. In this case there will usually be other symptoms that the system is under stress (for example short on storage messages or other transactions being purged with AEXY or AKC3 abends), and inspection of the transaction dump should allow identification of the original abend.

LE/370 abend codes and run-time messages are described in [Language Environment abend codes in z/OS Language Environment Runtime Messages](#).

CICSplex SM Abend and dump codes

When abnormal conditions occur, CICSplex® SM attempts to recover in an orderly manner and continue with normal processing. Occasionally conditions arise that prevent or preclude such recovery and a task, component, or system might end. In this situation, an abend or dump code is issued.

CICS abend and dump codes

If you have to contact IBM in response to an abend or dump code, gather as much diagnostic information as possible.

The following diagnostic information is required by IBM support to help diagnose the problem:

- Job log from the MAS.
- EYULOG from the CMAS to which the MAS was connected or was attempting to connect.
- CICS TRANDUMP data set from the MAS. Use the CICS DFHDUP utility to format the dump data set.
- CICS AUXTRACE data set from the MAS, if available. Use the EYU9XZUT trace format utility to format the data set, as described in [Using trace in CICSplex SM](#). Also keep a copy of the unformatted trace data set.

EYUI

Explanation:

A non-recoverable error occurred during initialization.

System action:

MAS initialization terminates. The CICS system continues to run normally, but it is not known to CICSplex SM.

User response:

Examine the MAS job log for any messages that might indicate a problem. If such messages exist, follow the instructions associated with those messages and then restart the MAS. If no messages exist, or if no appropriate action is indicated, gather the specified diagnostic information and contact your IBM support center.

Module:

EYU9XLEV

EYUK**Explanation:**

Either a non-recoverable abend occurred during MAS initialization or a proper environment did not exist when attempting to recover from an abend.

System action:

MAS initialization terminates. The CICS system continues to run normally, but it is not known to CICSplex SM.

System action:

If this abend occurred during initialization, MAS initialization terminates. The CICS system continues to run normally, but it is not known to CICSplex SM.

User response:

Examine the MAS job log for any messages that might indicate a problem. If such messages exist, follow the instructions associated with those messages and then restart the MAS, if necessary. If no messages exist, or if no appropriate action is indicated, gather the specified diagnostic information and contact your IBM support center.

Module:

EYU9XLRV

EYUO**Explanation:**

The environment create routine in a CMAS or MAS was called invalidly. The calling process was not a CICSplex SM service.

System action:

CICS system processing continues.

User response

Make sure that:

- No site-written programs are attempting to call CICSplex SM environment create.
- Users are not attempting to use CICSplex SM TRANIDS directly, either from a terminal or via an EXEC CICS START.

If neither of these conditions exists, gather the specified diagnostic information and contact your IBM support center.

Module:

EYU9XLOP

EYUR**Explanation:**

An error occurred while attempting to recover from an abend.

System action:

The failing task terminates. The CICS system continues to run normally, but it may not be known to CICSplex SM.

User response:

Examine the MAS job log for any messages that might indicate a problem. If such messages exist, follow the instructions associated with those messages and then restart the MAS, if necessary. If no messages exist, or if no appropriate action is indicated, gather the specified diagnostic information and contact your IBM support center.

Module:

EYU9XLRV

EYUV**Explanation:**

The Web User Interface environment create routine in a CMAS or MAS was called invalidly. The calling process was not a CICSplex SM service.

System action:

The failing task terminates. A transaction dump is taken. CICS system processing continues.

User response

Make sure that:

- No site-written programs are attempting to call CICSplex SM Web User Interface environment create.
- Users are not attempting to use CICSplex SM TRANIDS directly, either from a terminal or via an EXEC CICS START.

If neither of these conditions exists, contact your IBM Support Center.

Module:

EYU0VGIN

EYUX**Explanation:**

An exception condition was detected in a remote MAS but a full CICSplex SM exception trace could not be written at that time. This condition is not necessarily a failure in the application, but the reporting of an exception condition, which is usually the result of communications problems. Communications exceptions cannot be sent to the connected CMAS.

System action:

A transaction dump is taken to document the exception. Task execution continues, taking the appropriate action for the exception condition.

User response:

Examine the MAS and CMAS job logs for any messages that might indicate a problem, especially for those related to the communications network. If such messages exist, follow the instructions associated with those messages. If no messages exist, or if no appropriate action is indicated, gather the specified diagnostic information and contact your IBM support center.

Module:

EYU9XLEV, EYU9XLOP

EYUY**Explanation:**

A CMAS-to-CMAS connection has terminated abnormally. The receive task component of the connection has tried to terminate as cleanly as possible, but it has detected that it is still in a network

receive state. This makes it impossible for it to terminate, without CICS generating an additional transaction abend describing this apparent transmission state discrepancy. However, this network state cannot be reset because of the reported connection failure. This abend is issued to preempt the normal CICS abend code related to these network state errors.

System action:

The CPI-C or MRO receive task should now end completely with this abend. When all task components for the connection have terminated, the first speaker CMAS of the connection pair should attempt to reestablish the connection.

User response:

Check the CMAS job log, EYULOG, and CICS message log for previous failures or error conditions and follow the User Response for these messages.

Module:

EYU0CLCT, EYU0CLCU, EYU0CLMT, EYU0CLMU

Uxxxx abend codes

In response to any of the Uxxxx abend codes, gather as much diagnostic information as possible and contact IBM support.

For a list of available diagnostic information, see [“CICS abend and dump codes”](#) on page 6.

U100**Explanation:**

An ISPF interface failure has occurred.

U1600**Explanation:**

A PC has issued a call to an unavailable service.

**U1700 through
U1798****Explanation:**

Recovery Manager abends.

U1799**Explanation:**

A should-not-occur condition has occurred.

U1800**Explanation:**

Indicates that a C housekeeping failure has occurred.

U1801**Explanation:**

A failure has occurred in GSI housekeeping.

U1802**Explanation:**

A failure has occurred in GSI router housekeeping.

U1803**Explanation:**

A transaction manager housekeeping failure has occurred.

U1804**Explanation:**

A failure has occurred in the SAS/C resident module.

U1899**Explanation:**

System environmental conditions have caused a failure with DYNAEC EPD.

U1900**Explanation:**

A failure has occurred with the storage manager.

U3000**Explanation:**

An error has occurred in a built in service function routine.

U4000**Explanation:**

Indicates that a pseudo GSI service failure has occurred.

U4080**Explanation:**

An unrecoverable control task error has occurred.

U4090**Explanation:****System dump codes**

In response to any of these dump codes, gather the following diagnostic information and contact your IBM Support Center:

- Job log and EYULOG from the CMAS.
- Unformatted SVC dump (SDUMP). Have access to IPCS.
- CICS AUXTRACE data set from the CMAS. Use the EYU9XZUT trace format utility to format the data set. Also keep a copy of the unformatted trace data set.

EYUXL001**Explanation:**

The initialization process failed.

System action:

initialization terminates.

Module:

EYU9XLEV

EYUXL002**Explanation:**

The recovery routine was entered during initialization.

System action:

A server or application initialization error has occurred.

U4095**Explanation:**

A task has been terminated by PGTERM.

initialization terminates.

Module:

EYU9XLRV

EYUXL003**Explanation:**

The recovery routine was entered, but could not successfully recover from the abend.

System action:

processing terminates.

Module:

EYU9XLRV

Notices

This information was developed for products and services offered in the U.S.A. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property rights may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
United States of America*

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan*

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who want to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact

*IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119 Armonk,
NY 10504-1785
United States of America*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Programming License Agreement, or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Programming interface information

CICS supplies some documentation that can be considered to be Programming Interfaces, and some documentation that cannot be considered to be a Programming Interface.

Programming Interfaces that allow the customer to write programs to obtain the services of CICS Transaction Server for z/OS, Version 5 Release 6 are included in the following sections of the online product documentation:

- [Developing applications](#)
- [Developing system programs](#)
- [CICS TS security](#)
- [Developing for external interfaces](#)
- [Application development reference](#)
- [Reference: system programming](#)
- [Reference: connectivity](#)

Information that is NOT intended to be used as a Programming Interface of CICS Transaction Server for z/OS, Version 5 Release 6, but that might be misconstrued as Programming Interfaces, is included in the following sections of the online product documentation:

- [Troubleshooting and support](#)
- [CICS TS diagnostics reference](#)

If you access the CICS documentation in manuals in PDF format, Programming Interfaces that allow the customer to write programs to obtain the services of CICS Transaction Server for z/OS, Version 5 Release 6 are included in the following manuals:

- Application Programming Guide and Application Programming Reference
- Business Transaction Services
- Customization Guide

- C++ OO Class Libraries
- Debugging Tools Interfaces Reference
- Distributed Transaction Programming Guide
- External Interfaces Guide
- Front End Programming Interface Guide
- IMS Database Control Guide
- Installation Guide
- Security Guide
- Supplied Transactions
- CICSplex SM Managing Workloads
- CICSplex SM Managing Resource Usage
- CICSplex SM Application Programming Guide and Application Programming Reference
- Java™ Applications in CICS

If you access the CICS documentation in manuals in PDF format, information that is NOT intended to be used as a Programming Interface of CICS Transaction Server for z/OS, Version 5 Release 6 , but that might be misconstrued as Programming Interfaces, is included in the following manuals:

- Data Areas
- Diagnosis Reference
- Problem Determination Guide
- CICSplex SM Problem Determination Guide

Trademarks

IBM, the IBM logo, and ibm.com® are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at [Copyright and trademark information at www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Apache, Apache Axis2, Apache Maven, Apache Ivy, the Apache Software Foundation (ASF) logo, and the ASF feather logo are trademarks of Apache Software Foundation.

Gradle and the Gradlephant logo are registered trademark of Gradle, Inc. and its subsidiaries in the United States and/or other countries.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Red Hat®, and Hibernate® are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the United States and other countries.

Spring Boot is a trademark of Pivotal Software, Inc. in the U.S. and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Zowe™, the Zowe logo and the Open Mainframe Project™ are trademarks of The Linux Foundation.

Terms and conditions for product documentation

Permissions for the use of these publications are granted subject to the following terms and conditions.

Applicability

These terms and conditions are in addition to any terms of use for the IBM website.

Personal use

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

Commercial use

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Rights

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

IBM online privacy statement

IBM Software products, including software as a service solutions, (*Software Offerings*) may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below:

For the CICSplex SM Web User Interface (main interface):

Depending upon the configurations deployed, this Software Offering may use session and persistent cookies that collect each user's user name and other personally identifiable information for purposes of session management, authentication, enhanced user usability, or other usage tracking or functional purposes. These cookies cannot be disabled.

For the CICSplex SM Web User Interface (data interface):

Depending upon the configurations deployed, this Software Offering may use session cookies that collect each user's user name and other personally identifiable information for purposes of session management, authentication, or other usage tracking or functional purposes. These cookies cannot be disabled.

For the CICSplex SM Web User Interface ("hello world" page):

Depending upon the configurations deployed, this Software Offering may use session cookies that collect no personally identifiable information. These cookies cannot be disabled.

For CICS Explorer®:

Depending upon the configurations deployed, this Software Offering may use session and persistent preferences that collect each user's user name and password, for purposes of session management,

authentication, and single sign-on configuration. These preferences cannot be disabled, although storing a user's password on disk in encrypted form can only be enabled by the user's explicit action to check a check box during sign-on.

If the configurations deployed for this Software Offering provide you, as customer, the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see [IBM Privacy Policy](#) and [IBM Online Privacy Statement](#), the section entitled *Cookies, Web Beacons and Other Technologies* and the [IBM Software Products and Software-as-a-Service Privacy Statement](#).

