

CICS Transaction Server for z/OS**Version 2 Release 2****Program Number 5697-E93**

IBM® CICS® Transaction Server for z/OS™ Version 2 Release 2 (CICS TS V2.2) is the latest level of the CICS product for the OS/390® or z/OS platforms. This release is recommended for all CICS customers, for deployment in large-scale production. The base element of this product is CICS, but CICS TS V2.2 contains a number of other elements providing CICS-enabling functions. The elements of CICS TS V2.2, with their levels, are:

- ✍ CICS Version 6.2
- ✍ CICS Plex® System Manager (CICSplex SM) Version 2.2
- ✍ REXX Development System for CICS/ESA® Version 1.1
- ✍ REXX Runtime Facility for CICS/ESA Version 1.1

CICS Application Migration Aid Version 1.1

CICS Distributed Data Management (CICS/DDM), which was included as an element in IBM CICS Transaction Server for OS/390 Version 1 Release 3, is now incorporated in the CICS base.

Also shipped with the product is IBM WebSphere® Application Server, Advanced Single Server Edition V4.0, under terms and conditions described on page 4 below. This is also available as a separate product.

CICS Transaction Server for z/OS Version 2 Release 2 is a member of the CICS family of products for general purpose, business-critical transaction processing. Its base CICS function supports application programs written in COBOL, PL/I, C, C++, Java™, and other programming languages, and provides a high-level application programming interface (API) to allow the application programs to request CICS facilities. These facilities include basic functions such as data management and terminal management and also many other capabilities. CICSplex SM can manage CICS TS address spaces, and is capable of managing from one control point a collection of CICS systems, known as a CICSplex.

CICS TS V2.2 delivers a range of major new functions in the CICS and CICSplex SM elements. These include:

- ✍ Support for Java has been enhanced. The level of Java supported has been upgraded to Java 2 at SDK V1.3.1 level. CICS TS V2.2 exploits a completely new JVM specially designed to optimize performance for short running programs such as CICS transactions. Support for Java Enterprise APIs such as JDBC, JNDI, and RMI has been significantly enhanced. CICS applications can now use the Common Connector Framework (CCF) client API to allow portability between CICS and non-CICS servers of Java application classes that invoke CICS programs.
- ✍ Support is provided for session beans at EJB 1.1 specification level. CICS uses the common WebSphere container exploiting collaborator classes that map the infrastructure services that the container needs to the underlying CICS functions. The product includes the standard WebSphere application assembly tool (AAT) for deployment of enterprise beans. Enterprise beans running under CICS TS V2 can use a range of Java capabilities, as well as JCICS classes to exploit CICS functionality.
- ✍ A range of functions has been introduced to CICSplex SM in support of the new facilities in CICS which support EJB technology. These functions include a capability for dynamic workload balancing of enterprise beans. Two new CICS-supplied transactions, CREA and CREC, have been introduced.
- ✍ A range of important new facilities has been introduced for CICS exploitation of procedural programming. These facilities include an integrated translator for COBOL and PL/I applications, CICS COBOL and PL/I XML application capability, improvements to the CICS 3270 bridge, enhancements to function shipping of remote file requests, CICS Web bridge enhancements, and improvements to the function of CICS with Language Environment®.

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- ✍ Enhancements have been made to network connectivity for e-business enablement. These include support for client applications to use TCP/IP communication with the external call interface (ECI) directly to CICS, enhancements to CICS exploitation of TCP/IP services, extensions to support for domain name system (DNS) registration for improved connection optimization, and CICS support for VTAM® LU alias facility.
- ✍ Improvements to application availability include enhanced DB2® facilities for CICS-DB2 performance, DB2 group attach, and DB2 exploitation of the RMI purge option. Enhanced support for CICS data-sharing servers includes automatic restart of CICS data-sharing servers, system-managed rebuild support for coupling facility structures, and system-managed coupling facility structure duplexing. Also provided is sign-on retention for persistent sessions.
- ✍ Systems management enhancements include a remote MAS agent for Windows™, CICSplex SM communications enhancements, and improvements to the appearance of the CICSplex SM Web user interface.
- ✍ Other benefits include monitoring and statistics changes, and the introduction of the Information Center, which enhances the usability of the product documentation and delivers information that corresponds to the tasks that are performed by users.

EuroReady Products

- ✍ This product is EuroReady. IBM considers an IBM product to be EuroReady if the product, when used in accordance with its associated documentation, is capable of correctly processing monetary data in the euro denomination and of respecting the euro currency formatting conventions (including the euro sign). This assumes that all other products (for example, hardware, software and firmware) that are used with this product are also EuroReady.

Machine Requirements

The basic requirement is for a processor that supports the prerequisite operating system and has sufficient processor storage to meet the requirements of the operating system, CICS TS V2.2, the application programs, the access methods, and all other software being run.

For further details on machine requirements, refer to information in the CICS Transaction Server for z/OS Version 2 Release 2 *Program Directory*, GI10-2543, and to information provided for the particular level of operating system being employed.

Programming Requirements

The basic requirement for CICS TS V2.2 is OS/390 (5647-A01) Version 2 Release 10, or z/OS (5694-A01), at any release level.

For further details, together with information on supported levels of other products required for particular functions, refer to information in the CICS Transaction Server for z/OS Version 2 Release 2 *Program Directory*, GI10-2543.

Licensed Program Materials Availability

Restricted materials - Yes. This licensed program is available with source licensed program materials for some modules designated as “RESTRICTED MATERIALS OF IBM.” In addition, some modules are available without source licensed-program materials. These modules are available in object code. The remaining modules are available with source licensed program materials.

Source licensed program materials are not available for some modules. Refer to the CICS Transaction Server for z/OS Release Guide (GC34-5983) for the identity of those functional areas with some or all modules available without source licensed program materials.

Source code for applicable modules is in assembler language. Sample program source code is in COBOL, C, C++, Java, PL/I, and assembler.

Supplemental Terms

Designated Machine Identification

Designated Machine Identification Required:
Yes

Testing Period

Basic License: Two months
DSLO: Not Applicable

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Installation/Location License

Not applicable. A separate license is required for each designated machine on which the licensed program materials will be used.

Use-Based Charges/Usage Restriction

Not applicable.

Type/Duration of Program Services

Central Service

Central Service, including the IBM Support Center, for CICS Transaction Server for z/OS Version 2 Release 2 will be available until discontinued by IBM upon six months' written notice.

Delivery of service for the Information Center is by download over the Web. Go to:

<http://www.ibm.com/software/ts/cics/support/>

WebSphere Application Server. Advanced Single Server Edition V4.0, delivered with this product, is provided with one year of Software Maintenance. Service for this element of the product should be requested as normal WebSphere service. Note that if continued maintenance support is required after this period, it must be purchased, for each processor license used. This maintenance support will be offered on the WebSphere product via its program number - feature number ordering, but may be transferred to Passport Advantage if preferred.

Authorization for Copy and Use on Home/Portable Computer

Not applicable for this program.

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Information Center

Customers with a license for CICS Transaction Server for z/OS Version 2 Release 2 are licensed, at no additional charge, to install and run the Information Center on suitable workstation or server machines, which are not the designated machine, within the same enterprise. It may be run on as many machines as are reasonably necessary for use in conjunction with CICS TS V2.2.

Connectivity Code

Customers with a license for CICS Transaction Server for z/OS Version 2 Release 2 may copy free of charge the following connectivity code to any S/390® or zSeries™ machine to enable communication with the licensed CICS TS V2.2:

✍ CICS External Communication Interface (EXCI
- Load Library SDFHEXCI)

They may also copy free of charge the CICS inter-region communication SVC (DFHIRP) from this version to a prior version of CICS, on a different machine in the same Parallel Sysplex®, for communicating with CICS TS V2.2.

The service and support entitlement under the license for the CICS Transaction Server for z/OS Version 2 Release 2 extends to copies of the above items when they are running on a different S/390 or zSeries machine for this purpose.

Application Development Utilities

To assist developing, testing, or analyzing their applications off-line from their production CICS systems, customers with a CICS Transaction Server for z/OS Version 2 Release 2 license may copy the following utilities, free of charge, to any S/390 or zSeries machine within the same enterprise:

- ✍ The CICS Translator (modules DFHEAP1\$, DFHEDP1\$, DFHECP1\$, and DFHEPP1\$, which are to be found in SDFHLOAD)
- ✍ The Statistics utility program (DFHSTUP)
- ✍ The Trace utility program (DFHSTUP)
- ✍ The Dump utility program (DFHDUP)

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- ✍ The Monitoring utility program (DFHMNDUP)
- ✍ The System Definition File utility program (DFHCSDUP)
- ✍ The CICS Transaction Affinities utility program (formerly 5696-582, now part of the CICS element)

The service and support entitlement under the license for the CICS Transaction Server for z/OS Version 2 Release 2 extends to copies of these utilities when they are running on a different S/390 or zSeries machine within the same enterprise.

CICSplex SM Remote MAS Agents

Customers with a license for CICS Transaction Server for z/OS Version 2 Release 2 are licensed to make and use any number of copies of the CICSplex SM remote MAS agent for OS/2® and the CICSplex SM remote MAS agent for Windows NT, subject to their use being in conjunction with the licensed CICS TS V2.2. If required, the agents may be copied to secondary media for convenience of installation.

WebSphere Application Server, Advanced Single Server Edition V4.0

This program is accompanied by WebSphere Application Server, Advanced Single Server Edition V4.0, with five (5) Proofs of Entitlement. A license of the program entitles you to install WebSphere Application Server, Advanced Single Server Edition V4.0 in no more than five (5) processors, for use only in conjunction with your authorized use of the CICS Transaction Server for z/OS Version 2 Release 2 program. Except for the foregoing additional restrictions and rights, your use of WebSphere Application Server, Advanced Single Server Edition V4.0 is subject to the terms and conditions of the IBM International Program License Agreement and of the License Information document for the WebSphere Application Server, Advanced Single Server Edition V4.0 included in the packaging for the program.

Warranty

This program is warranted as specified in the IBM license.

Licensed Program Specifications may be updated from time to time, and such updates may constitute a change in specifications.

Trademarks

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CICSplex
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S/390
VTAM
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Any other documentation with respect to this licensed program, including any documentation referenced herein, is provided for reference purposes only and does not extend or modify these specifications.

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Following the discontinuance of all program services,
this program will be provided “As Is” as specified in the
IBM license.

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