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CICS TS V3.2 requires z/OS (5694-A01) V1.7, or later. The product will not initialize in an environment with a lower level of operating system installed.	
If used with z/OS V1.7, PTF UA24585 for APAR OA14340 is required.	
For EWLM support	
The EWLM Managed Server must be active in the MVS image where CICS is running.	
With z/OS V1.7, z/OS PTF for APAR OA12935 is required. This is UA29986 (Release 720), UA29987 (Release 72J), or UA29988 (Release 72S).	
64-bit support requires z/OS PTF(s) for APAR OA19565.	
For TCP/IP support, Communications Server PTFs are needed. For z/OS V1.7, this is PTFs UK19627 and UK19628, both for APAR PK32534. For z/OS V1.8, this is PTF(s) for APAR PK40411.	
The IBM XML Toolkit for z/OS (5655-J51) V1.9 is required. This is a no-charge product. It is used by WS- Security, but note that CICS TS V3.2 will not install if it is not present.	
If the WS-Security function is used, XML Toolkit PTF UA32191 for APAR OA19511 is recommended.	
The IBM SDK for z/OS, Java 2 Technology Edition V1.4.2 (5655-156) is required for use of Java application programs, enterprise beans, or the Web Services Assistant.	
Note: The IBM 64-bit SDK for z/OS, Java 2 Technology Edition, Version 1.4 (5655-M30), is not supported.	
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Notes		
The follow	ving levels of other products are supported for use with CICS TS V3.2:	
	IMS Database Manager V8 (5655-C56)	P
	IMS Database Manager V9 (5655-J38)	
	IMS Database Manager V10 (5635-A01)	
	DB2 Universal Database Server for OS/390 V7.1 (5675-DB2), or later.	
	WebSphere MQ for z/OS V5.3.1 (5655-F10)	
	WebSphere MQ for z/OS V6.0 (5655-L82)	
	Tivoli Decision Support for z/OS (5698-A27) V1.7, with PTF for APAR PK39321	
	Tivoli Business Systems Manager V3.3 (toleration support only)	
	Tivoli Federated Identity Manager V6.1.1	
	Tivoli Composite Application Manager for SOA V6.1	
	Tivoli Composite Application Manager for WebSphere V6.1	
	CICS Universal Client V5.1, or later	
	CICS TG V5.1, or later From V6.0 onwards, this is two products:	
TO	CICS TG for Multiplatforms and CICS TG for z/OS.	in the second second
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Notes	
For Unicode conversion support, you must enable the z/OS conversion which specifies the conversions that you want CICS to perform. R Support for Unicode: Using Conversion Services manual SA22-76 and configure conversions supported though the operating system	n services and install a conversion image Refer to the instructions in the z/OS 549 to find out the steps needed to set up n services.
CICS installation jobs that require Unix System Services will now by d HFS. Job names are the same as they have always been except rather than an HFS.	efault install in to a ZFS rather than an that a zfs gets created and customized
To use storage above the 2GB boundary (above the bar) when migrat you need to set your MEMLIMIT value equal to or greater than 2G	ing to CICS <sup>®</sup> TS for z/OS <sup>®</sup> , Version 3.2, aB.
The MEMLIMIT value can be set using any of these methods:	
1. JCL. MEMLIMIT can either be set to a specific value in JCL or as	NOLIMIT, if REGION=0M is specified.
2. SMFPRM PARMLIB member. A MEMLIMIT value can be set in S	YS1.PARMLIB(SMFPRMxx).
3. IEFUSI z/OS global user exit.	
System usage and workload remain the same as before you altered th value cannot be altered on a running system. If MEMLIMIT is set EDSALIM, a warning message is displayed. If MEMLIMIT is set to message is displayed and CICS does not start up.	ne MEMLIMIT value. The MEMLIMIT lower than 2GB, but higher than ower than the EDSALIM value, an error
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Notes	
FCQRONLY={NO YES} Specifies whether you want CICS to force all CICSAPI user application programs that are specified as thre run file control requests under the CICS QR TCB, as if they were specified as quasi-reentrant programs. NO	adsafe to
CICS honors the CONCURRENCY(THREADSAFE) attribute on program resource definitions, and user application programs to run applicable file control request on an open TCB to avoid unnecessar switching.	allows ary TCB
CICS forces all file control requests to run under the CICS QR TCB, as if they were specified as CONCURRENCY(QUASIRENT) programs. With all file requests on the QR TCB, CICS is able to m the amount of locking required at the expense of additional TCB switches if requests are run on ope The FCQRONLY=YES can improve the performance of file-owning regions.	inimise m TCBs.
XCFGROUP={DFHIR000 name} specifies the name of the cross-system coupling facility (XCF) group to be joined by this CICS region. Th same p be specified in the EXCI options table DFHXCOPT for EXCI clients.	arm can
XHFS={YES name NO} specifies whether CICS is to check the transaction user's ability to access files in the z/OS® UNIX® System Serv system. At present, this checking applies only to the user ID of the Web client when CICS Web support is returnin UNIX file data as the static content identified by a URIMAP definition.	rices file ng z/OS
XRES={YES name NO} specifies whether you want CICS to perform resource security checking for DOCTEMPLATE (CICS document ter resources, and optionally specifies the general resource class name in which you have defined the resource secu profiles. If you specify YES, or a general resource class name, CICS calls the external security manager to verify userid associated with a transaction is authorized to use the resource. This checking is performed every time a tr tries to access a CICS document template.	mplate) urity that the ansaction
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Notes	
APPLID={DBDCCICS applid} CICS application identifiers within the local sysplex. Also, APPLID can now be us region on IPIC connections.	s (APPLIDs) are now required to be unique ed as the application identifier of this CICS
CONFDATA={SHOW HIDETC} CONFDATA now applies connections (IS data), as well as to initial input data re operations, MRO connections, and FEPI screens and	to initial input data received on IPIC eceived on VTAM RECEIVE ANY RPLAREAs.
ICVTSD={500 number} ICVTSD, the terminal scan delay deals with some terminal I/O requests made by applic interconnectivity input.	value that determines how quickly CICS cations, now applies also to IP
MSGCASE={MIXED UPPER} In previous releases, this p displayed by the CICS message domain. It now also a CPSM message domain.	arameter applied only to messages applies to messages displayed by the
For CICS-MQ mapsets used by the CKQC transaction governs whether mixed or upper case English mapse	n, when the language in use is English, it ts are to be used.
UOWNETQL=user_defined_value	
On VTAM=NO regions, UOWNETQL, or its default value, this CICS region on the IPCONN definitions that defin	is now used as the default NETWORKID of e IPIC connections.
FQ3 // SS	1 Calling
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lotes	
<b>CEMN</b> gives you an alternative to the INQUIRE MONITOR and SET MONITOR system programming commands and the equivalent CEMT commands. You can use the transaction to inquire on the settings for the CICS monitoring facility, and to change some of the settings without needing to restart CICS.	
When CICS initiates garbage collection in a JVM, this transaction is used for the process, so that the time spent in garbage collection is assigned to <b>CJGC</b> rather than to one of the user transactions that used the JVM.	
If garbage collection is caused by an allocation failure in the JVM, rather than being scheduled by CICS, this takes place while the user application is running, and the CJGC transaction is not used.	
CJPI starts up new JVMs as a result of a PERFORM JVMPOOL command.	
There are a set of transactions CIS* that are part of the IPIC support	
There are a set of <b>CK</b> ** transactions for CICS-MQ support, including <b>CKQC</b> which is the operator interface to start/stop/display the CICS-MQ connection.	
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Notes
PIPELINE resource definition: RESPWAIT(number) Specifies the number of seconds that an application program should wait for a response message from a remote Web service. The value can range from 0 to 9999 seconds.
TCPIPSERVICE resource definition:
REALM(string) Specifies the realm that is used for HTTP basic authentication. On the ATTACHSEC option, a new value of IDENTIFY is added: On the PROTOCOL option, a new value of IPIC is added: On the URM option, a new value of NO is added, and a new user-replaceable program can be specified: This is only applicable for PROTOCOL(IPIC). For the IPIC protocol, specify the name of the autoinstall user program for IP connections, if required. For PROTOCOL(IPIC), if you do not specify this attribute CICS uses the CICS-supplied, default, IP connections autoinstall user program, DFHISAIP.
MCT COMPRESS={NO YES} This option specifies whether or not you want data compression to be performed for the CICS SMF 110 monitoring records output by the CICS monitoring facility. NO This is the default, and specifies that you do not want monitoring record data compression to be performed for the CICS SMF 110 monitoring records output by the CICS monitoring facility. YES Specifies that you do want monitoring record data compression to be performed for the CICS SMF 110 monitoring records output by the CICS monitoring facility.
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No	s s s s s s s s s s s s s s s s s s s	Se .
Res To I 1.	We save no longer supported in CICS® Transaction Server for z/OS®, Version 3 Release 2. Any Java programs that ran in resettable JV st be migrated to run in continuous JVMs. The migration process involves checking for certain actions in the program code, and then anging some options in your JVM profiles. Ite Java programs that ran in resettable JVMs, to run in continuous JVMs, follow these steps: teck that your Java programs do not contain any code which might have an unwanted effect on serial isolation when the continuous JVM is seed by a subsequent program. The checks you should carry out are as follows: a. Check for any code that changes the state of the JVM (for example, changing the default time zone). Ensure that the program resets 1 JVM to the original state. If you need to police any application actions in the continuous JVM, Hava Singer Continuous JVM, the original state. If you need to police any application actions in the continuous JVM.	/Ms the to
	<ul> <li>do this.</li> <li>Check that any DB2<sup>®</sup> connections, or other task lifetime system resources, opened by the application are closed or released.</li> <li>Use the CICS JVM Application Isolation Utility to check for the use of any static variables in your Java programs. The use of static variables might cause Java programs that were designed to execute in a resettable JVM, to exhibit changed behavior when they exec in a continuous JVM. Possible Java application behavior changes in continuous JVM. Possible Java application behavior changes in continuous JVM. Possible Java application behavior preserve the original behavior. Auditing Java <sup>14</sup> applications for the use of the utility and make any code changes that are necessary to preserve the original behavior. Auditing Java <sup>14</sup> applications for the use of the utility and make any code changes that are necessary to preserve the original behavior.</li> </ul>	cute of
2.	static variables tells you how to use the utility. amine the existing JVM profiles and JVM properties files for your applications. You can either make a new copy of your existing files and m anges to the options specified in them, or transfer the relevant settings from your existing files to new files based on the samples provided v CS Transaction Server for z/OS, Version 3 Release 2. There are a number of changes to the options that you can specify in JVM profiles are M properties files, so you are recommended to use the new samples to help you create new files, rather than migrating files.	ake with nd
3.	Impare your existing JVM profiles and JVM properties files with the new CICS-supplied samples, and with the table of changed options show Changes to options in JVM profiles and JVM properties files. Identify the options and system properties which you customized in your existi s. and note any which are now obsolete or need to be socified differently.	wn ing
4.	her transfer relevant settings from your existing files to new files based on the new CICS-supplied samples, or make appropriate changes to w copy of your existing files. The most important changes to make are: . Set the correct CICS and Java home directories to match your CICS Transaction Server for z/OS, Version 3 Release 2 installation. The correct directories are already specified in the CICS-supplied samples.	o a ne
	2. Orange in EQUATION INCOMENTATION OF Place Areaseman in EQUE-102 in the appropriate class path in the new files. There a a number of changes to the way class paths are specified in CICS Transaction Server for z/OS, Version 3 Release 2. Migrating class paths in UM profiles explains how to handle each of the change class paths.	are
Wb	Migrate your storage settings from the existing files to the new files. The way in which storage is used in a continuous JVM differs in some respects from the way it is used in a resettable JVM. <u>Migrating storage settings in JVM profiles from resettable JVMs</u> explains h to specify suitable storage settings as a starting point for your continuous JVMs.	low
vvii	a de une er m promos, a you nare emitted any ney entinges, ence reades wanning messages to explain what entinges are sain required.	1 1)



































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Notes	
CICS provides all required definitions in CSD group DFHMQ supplied by WMQ in groups CSQCAT1 and CSQCKB. These TS 3.2	. For previous releases definitions were e groups should not be installed on CICS
A CICS TS 3.2 CSD can be shared with lower level CICS TS and CSQCKB groups should be installed to override DFHMC be deleted from group CSQCAT1 on a 3.2 CSD as this defin	releases. In this case the CSQCAT1 2. However tdqueue CKQQ should first ition is supplied in group DFHDCTG.
The INITPARM syntax has changed. The TN= parm is obsol DFHMQPRM. For example	ete and the program name changes to
INITPARM=(CSQCPARM='SN=CSQ1,TN=001,IQ=CICS01.	NITQ')
changes to INITPARM=(DFHMQPRM='SN=CSQ1,IQ=CICS01.INITQ')	
The WMQ libraries must be placed after the CICS libraries in concatenations to ensure that the CICS shipped components modules with the same name in both product libraries.	the STEPLIB and DFHRPL are used. This is because there are
Apar PK39200 is required on WMQ V5.3.1 and PK42616 on	WMQ V6.

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Notes
There are changes to CICS® monitoring data that could affect user-written and vendor-written utilities that analyze and print CICS SMF 110 monitoring records.
The length of a standard performance class monitoring record, as output to SMF, has increased to 2352 bytes. This does not take into account any user data that you add, or any system-defined data fields that you exclude by using a monitoring control table (MCT). CICS Transaction Server for z/OS®, Version 3 Release 2 introduces a data compression facility for SMF 110 monitoring records, which can provide a significant reduction in the volume of data written to SMF.
The offsets have changed for a number of the default CICS dictionary entries in the dictionary data sections of CICS monitoring SMF 110 records.
The length of a monitoring clock for performance class data has increased from 8 bytes to 12 bytes. This affects all performance class data fields defined as "TYPE-S", and also affects any user-defined event-monitoring points (EMPs) which involve clocks. User clocks are defined in the monitoring control table (MCT) using DFHMCT TYPE=EMP macros. Note that the monitoring clocks for transaction resource class data are not changed, and they remain at 8 bytes.
Check your utility programs that process CICS SMF records to ensure that they can still process SMF 110 records correctly. If you have utility programs provided by independent software vendors, you should ensure that these also are able to handle the SMF 110 records correctly. This is particularly important if you want to activate data compression for monitoring records. You need to make sure that the product is able to identify compressed CICS SMF 110 monitoring records, and expand the data section using the z/OS Data Compression and Expansion Services, so that the monitoring records can be processed correctly. If the reporting tool is not able to do this, you could use the CICS-supplied monitoring sample program DFH\$MOLS with the EXPAND control statement to produce an output data set containing the SMF 110 monitoring records in their expanded format, for the tool to work with.
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