



# IBM CICS tools for z/OS, V5.1 delivers support for operational efficiency and service agility with cloud enablement

## Table of contents

<a href="#">1 Overview</a>	<a href="#">15 Publications</a>
<a href="#">2 Key prerequisites</a>	<a href="#">15 Technical information</a>
<a href="#">2 Planned availability date</a>	<a href="#">16 Ordering information</a>
<a href="#">2 Description</a>	<a href="#">23 Terms and conditions</a>
<a href="#">12 Product positioning</a>	<a href="#">28 Prices</a>
<a href="#">14 Statement of direction</a>	<a href="#">30 Order now</a>
<a href="#">14 Program number</a>	<a href="#">30 Corrections</a>

## At a glance

Key CICS® Tools V5.1 portfolio enhancements:

- CICS Interdependency Analyzer for z/OS® ( CICS IA® ) V5.1 - Discover resources associated with a new CICS TS V5.1 Application definition.
- CICS Deployment Assistant for z/OS ( CICS DA ) V5.1 - View, print, and manage your CICS infrastructure with enriched discovery, improved visualization with tagging and filtering, and new model export for external reporting.
- CICS Configuration Manager for z/OS ( CICS CM ) V5.1 - Manage new CICS application and platform resource definitions.
- IBM® CICS Performance Analyzer for z/OS ( CICS PA ) V5.1 - Analyze performance from an application and platform perspective.
- CICS VSAM Recovery for z/OS ( CICS VR ) V5.1 - Prepare for future Active-Standby and Active-Query support.
- A plug-in for CICS VSAM Transparency for z/OS - Help CICS Explorer® users manage their migrated files.

## Overview

Five updated core foundational CICS tools products align with CICS Transaction Server for z/OS ( CICS TS ) V5.1 to deliver operational efficiency and service agility with cloud enablement. These new versions of core foundational CICS tools exploit and augment the latest operational efficiency and service agility enhancements and can assist the creation and management of the new *application, platform, and policy* resources introduced in CICS TS V5.1. The CICS tools also contain many other enhancements that are designed to enrich the user experience and enhance value for customers on current releases of CICS TS.

Key enhancements delivered by products in the CICS tools V5.1 portfolio

- CICS IA V5.1 includes application name when collecting dependency and command flow data. This lets you analyze and manage your new CICS TS applications more easily. Initial deployment of the product is simplified and data management is improved.
- CICS DA V5.1 includes a new IBM System z® Application Assist Processor (zAAP)-offloadable server component with enhanced discovery that creates a centralized and more complete model of your CICS infrastructure. An enhanced plug-in for IBM CICS Explorer provides advanced visualization with tagging and

filtering. This lets you view, print, and manage your CICS infrastructure as you want to see it. The model can now be exported to standard spreadsheet tools for external analysis and reporting, and a sample report is provided. The centrally-managed model, with audit logging facilitates sharing, especially with large and distributed teams, and addresses key governance requirements.

- CICS CM V5.1 manages the new application and platform resource definitions in CICS TS V5.1. This simplifies the management and improves the governance of the CICS environment.
- CICS PA V5.1 includes new application, platform, and policy performance metrics in batch reports and plug-in views, to simplify application-centric and platform-centric performance analysis and reporting. The new release includes many functional and navigation improvements to its plug-in for CICS Explorer , as well as simplifying host data management.
- CICS VR V5.1 delivers key enabling technology, designed to enable CICS and batch VSAM files to be used in geographically dispersed Active-Standby and Active-Query configurations. In addition, a number of batch logging, migration, and other improvements are included.
- A plug-in for CICS VSAM Transparency for z/OS will help CICS Explorer users manage their migrated files.

All CICS tools V5.1 products support, and in many cases, exploit, and extend the new features, resources, options, and metrics in CICS TS V5.1.

The comprehensive portfolio of CICS tools offers you the opportunity to realize the full potential of your CICS systems, whatever your business strategy. You have the potential to maintain and manage your core CICS applications more easily and at a lower cost. CICS tools enhance IBM service management initiatives to optimize IT processes, maximize CICS system availability, reduce total cost of ownership (TCO), and transform CICS applications to achieve greater business flexibility. In today's world of increasing demand for enterprise service access from internet and mobile devices, social networks, and unknown future sources, CICS tools can help you to solve the two most pressing challenges that companies face today; driving operational efficiencies, while increasing service agility. These core foundational CICS tools align with CICS TS V5.1 to deliver these capabilities in a way that positions users of CICS for the next transformational era in technology, moving them towards a service delivery platform for cloud computing.

For ordering, contact your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: LE001

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## Key prerequisites

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CICS tools V5.1 run on any S/390® or IBM eServer™ zSeries® machine on which the applicable operating system and software will run.

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## Planned availability date

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December 14, 2012

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## Description

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Five updated core foundational CICS tools products align with CICS TS V5.1 to deliver operational efficiency and service agility with cloud enablement. These new versions of core foundational CICS tools exploit and augment the latest operational efficiency and service agility enhancements and can assist the creation and management of the new application, platform, and policy resources introduced in CICS TS V5.1. This helps you build, deploy, and manage your business applications. You can now define a logical platform that comprises multiple CICS regions with different capabilities and instantiate and manage the platform as a single

entity. It allows the use of policies to further simplify management and provide a degree of autonomic operation. You can also logically define the various resources (transactions, programs, files, and more) that make up a business application in CICS as a single entity and deploy these resources to a CICS platform, as a single application resource.

Applications and platforms that are defined in this way can be managed as single entities throughout their lifecycle. This accelerates the deployment of new business applications and can make CICS management faster, easier, and less error prone.

All of the new product releases provide new and updated capabilities, many developed in response to customer requirements, which deliver value to customers who choose to remain on currently supported versions of CICS TS.

## **CICS IA for z/OS , V5.1**

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CICS IA V5.1 collects and displays dependency and command flow data based on application name. This enables you to manage your new CICS TS V5.1 applications more easily. Initial product deployment is simplified and data management is improved.

### ***CICS TS V5.1 application support***

The CICS IA exits for dependency and command flow data are updated to capture the new application data associated with a CICS task. The application view in the updated version of the CICS IA plug-in lists all applications for which CICS IA has collected data. This list also includes all the operations associated with an application.

A new IBM DB2® stored procedure allows you to view resources associated by Application or by Operation. New context menu options provide function to show all the applications that use a given CICS resource.

In CICS TS V5.1 you can set the application operation field associated with a program. This allows you to perform application tracking before proceeding with implementing applications as part of platform as a service. CICS IA will capture this data and assist you in understanding what resources are used by the application.

### ***Improved installation and configuration***

In CICS IA V5.1 the configuration execution is split into two tasks:

- Configuring the target IBM DB2 environment
- Configuring the CICS regions in which you want to collect data

*Cheat sheets* are added to the CICS IA plug-in for CICS Explorer so you can select and submit the configured output sample JCL jobs for both the DB2 and CICS configurations. The cheat sheets also guide you through the jobs that must run to complete the tasks when you use the IBM z/OS perspective in CICS Explorer .

### ***Threadsafe analysis***

A new DB2 stored procedure is now used by the CICS IA plug-in to report on the threadsafe readiness of a particular program or all programs in a particular region. The stored procedure allows you to produce a summary report for all programs in a region and a detailed report for a program. Summary reports include the count of threadsafe commands and non-threadsafe commands as well as other vital information required for threadsafe analysis. Detailed reports provide a list of the actual commands issued by the program and whether these commands are threadsafe or not. The DB2 stored procedure can be called at your current level of CICS TS as well as the latest level of CICS TS (V5.1). Running the report at the latest level shows you the impact of upgrading to Version 5.1.

## **DB2 data lifecycle management**

A new DB2 stored procedure is now used by the CICS IA plug-in to delete CICS IA dependency data by collection id or by CICS TS application name. *Collection ID* is a term introduced in CICS IA V3.2, to allow you to identify the collected data before loading into DB2 . It is then used by the CICS IA plug-in to scope the data you are viewing. There is also a new section on data lifecycle management in the CICS IA V3.2 *User's Guide and Reference* (SC34-2811).

## **Native SQL language stored procedures**

In CICS IA V5.1, you can choose to use native SQL language stored procedures or external SQL language stored procedures. Native SQL stored procedures are available in DB2 V9.1 or later, offer a richer SQL language, are managed by DB2 directly, and may be eligible for zIIP offload.

## **Updated exits**

CICS IA V5.1 provides CICS exits that enable you to collect dependency, affinity, and command flow data in a CICS TS V5.1 region. The CICS global work area used by the CICS IA exits in a CICS TS V5.1 environment is now enabled in 31-bit storage (above the 16MB line), thus freeing more 24-bit storage for the user's legacy applications.

## **CICS Deployment Assistant for z/OS , V5.1**

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CICS Deployment Assistant for z/OS , V5.1 ( CICS DA) includes a new, zAAP-offloadable, server component with enhanced discovery, which creates a centralized and more complete model of your CICS infrastructure. An enhanced plug-in for CICS Explorer provides advanced visualization with tagging and filtering. It lets you view, print, and manage your CICS infrastructure as you want to see it. The model can now be exported to standard spreadsheet tools for external analysis and reporting. The centrally-managed model, with audit logging, facilitates sharing, especially with large and distributed teams, and addresses key governance requirements.

## **Visualization of model**

The model discovered by the CICS DA server can be loaded and viewed from within the CICS DA perspective in the CICS Explorer . In CICS DA V1.1, the only view on to this data was with an Eclipse-style project explorer tree. The enhanced plug-in in CICS DA V5.1 can graphically visualize the physical topology of the discovered data. It displays all of the entities and connections that were discovered within each logical partition (LPAR) within the sysplex. You can now view the discovered data using the graphical visualization in multiple ways:

- A standard physical topology view
- A tagged view
- A CICSplex® SM Address Space (CMAS) focused view
- A connections view

As zoom level increases, more information is displayed for each entity.

## **Tagging of model elements**

Each of the entities (from the explorer tree or the visualization) can be opened to display more information within an editor. One of the editable fields is its *tags* which is a comma separated list of strings, like web tagging. The graphical visualization offers a tagged view onto the data where common tags will be horizontally aligned so it is possible to identify what entities are tagged in the same way across all the discovered LPARs. Multiple tags can be associated with each entity, for example Application-Owning Region (AOR), Terminal-Owning Region (TOR), or File-Owning

Region (FOR), and Retail, Accounts, or Payroll, enabling users to visualize and manage their CICS environment in their preferred manner.

### ***Filtering of model elements***

The graphical visualization offers you the ability to filter out what you can see; a filter dialog offers this by providing check boxes for all the different types of entities discovered as well as the tags it has uncovered. These tags can also be arranged vertically so you can place the most important at the top.

### ***Enriched discovery***

The amount of data discovered in CICS DA V5.1 is richer - more entities and more connections between those entities will be recorded.

Entities discovered in the MVS™ Images in a Sysplex now include the following entities: CICSplex , CICSplex SM Server, Managed CICS Region, Unmanaged CICS Region, CICS System Group, CMAS Network, CMAS, CICS Coupling Facility Data Table Server, CICS Named Counter Server, CICS Temporary Storage Server, IBM CICS Transaction Gateway, DB2 , IBM IMS™ , WebSphere® MQ, and monitoring (MON), real time analysis (RTA), and workload management (WLM) specifications.

In addition, the following connections are also discovered: CMAS to CMAS, IP interconnectivity (IPIC), intersystem communication (ISC), and multi region operation (MRO) connections between managed regions, and managed region connections to DB2 , WebSphere MQ, and IMS .

### ***New navigators***

The current CICS DA perspective provides a tree view of all the entities discovered, grouped by the type of entity discovered. CICS DA V5.1 also lets you view the discovered data in physical (root node is the sysplex), logical (root nodes will be the discovered CMAS networks), and tagged (root nodes will be the tags assigned to the entities) modes.

### ***Print view***

You can print the graphical visualization and the graphical connections view using Eclipse's print capabilities.

### ***CICS upgrade cheat sheets***

Cheat sheets are available to advise on upgrading to CICS TS V4.2 and V5.1. Cheat sheets in Eclipse are a way to guide a user along a path using documentation as the guide.

### ***CICS Explorer integration***

From the editors of discovered entities, hyperlinks are available to enable the user to perform management of individual CICS regions by linking to the relevant view in the CICS SM perspective. When used in this way, the plug-in auto-generates the connection to the target region.

### ***JCL improvements***

*Clone* and *Plexify* functions are enhanced in response to customer requirements. The enhancements enable regions whose JCL contains PROC and INCLUDE statements to be cloned, and CICSplex SM and CICS TS startup parameters (EYU and SIT parameters) to be modified.

### ***Architectural improvements***

CICS DA V5.1 benefits from significant architectural improvements, compared with the previous release. It now includes an independent server written in zAAP-offloadable Java™ , and packaged and deployed on z/OS using OSGi technology, to

be extensible for the future. This removes the dependency on CICS TS and simplifies the initial installation process.

All the discovery work, previously managed from within the plug-in for CICS Explorer, is now invoked from within the server. The discovered data is stored in the zFS. This enables all the connected clients to share a common representation of the system topology. The combination of the centralized model and the logging of all model changes and host operations by the server provides a level of governance not previously available.

### ***IPv6 support***

CICS DA V5.1 can use networks including exploiting IPv6 seamlessly.

### ***Virtual IP addressing support***

During CICS DA discovery, the TCPIP stack(s) on the mainframe are queried to determine what ports are listening for CMCI or CICSplex SM data requests. With virtual IP addressing enabled on these TCPIP stack(s), an individual listening port can have its own assigned IP address, not using the stack's IP address. CICS DA ensures that the DNS host name resolution occurs for the assigned IP address.

### ***64-bit enablement***

All server code is 64-bit enabled to ensure compilers can exploit the new instructions and access all virtual storage available on the mainframe.

### ***CICS TS V4.2 and CICS TS V5.1 support***

CICS DA V5.1 can discover all supported versions of CICS Transaction Server. This includes new versions in this release, Versions 4.2 and 5.1.

### ***Serviceability enhancements: Logging and trace are improved to***

support debugging and service by ensuring that sufficient logging, trace, and First Failure Data Capture information is available. This reduces the time required to diagnose and resolve issues.

### ***CICS CM for z/OS, V5.1***

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CICS CM for z/OS, V5.1 manages the new application and platform resource definitions in CICS TS V5.1. This simplifies the management and improves the governance of the CICS platform.

### ***Support for application resource***

All capabilities, including create, view, delete, and history are available in CICS CM's batch, 3270, and plug-in views are extended to support the new APPLDEF and PLATDEF resource definitions introduced in CICS TS V5.1.

### ***CICS TS V5.1 support***

The CICS CM server initializes successfully in a CICS TS V5.1 region and CICS CM 3270 and plug-in views support all new and changed definitions in the CICS System Definition (CSD) and CICSplex SM Business Application Services (BAS) repositories for CICS TS V5.1 and previous releases.

### ***Other enhancements***

- **Sort function in Package view and Ready list** - When working with long lists of packages, this function enables sorting of CICS CM change packages by Name, Last Action, Change Date/Time, Userid, Last Return, Code, Last Response Code, Migration Scheme, and External Reference.
- **SSL support** - When using your CICS CM plug-in to CICS CM V5.1, you can now secure your connection using SSL.

- **COMMAND STACK to support the Add/Remove command of CSD Groups to List** - CICS CM provides the capability to include Add/Remove commands for Groups to a CSD list when packaging and migrating Lists. This helps you to migrate all resource definitions, including Groups and Lists
- **Remove empty Group from the CSD List** - CICS CM provides the capability to automatically remove empty CSD groups from a CSD list. As a result, when a CICS region initializes there will be no outstanding operator messages to prevent the startup from completing due to nonexistent group in a CSD list.
- **Audit Trail for Install and NewCopy** - Currently there is no history journaling for Install and NewCopy actions. This enhancement provides journaling for these actions.
- **Program CCVBDDDI should echo all input control cards** - This CICS CM configuration program does not echo all the input control card details during customization of CICS CM. With this enhancement, you can see the parameters you specified when configuring your CICS CM server.
- **Replace the DELETE option in "List View" with a REMOVE option** - Some CICS CM users inadvertently deleted groups when viewing a list. All they wanted to do was remove the group from a list. By changing the delete option to remove, this avoids any confusion and inadvertent deletion of groups.

### **New in the CICS CM plug-in V2.1.1**

The following important enhancements were delivered in the CICS CM plug-in V2.1.1 and are integrated into the plug-in for CICS CM V5.1:

- A new packaging perspective enables application developers and other CICS Explorer users to create and populate change packages, associate them with transformation rules and migration schemes, and then assign them to authorized users for approval.
- Deployment analysis reports can now be generated in context from the Configurations view and viewed using the plug-in. This helps you to avoid potentially costly surprises caused by unexpected differences.

Both of these capabilities provide greater ease of use and further reduce the need to switch from CICS Explorer to use green-screen interfaces.

### **CICS PA for z/OS, V5.1**

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CICS PA for z/OS, V5.1 includes new application, platform, and policy performance metrics in batch reports and plug-in views, to simplify application-centric and platform-centric performance analysis and reporting. Also new in this release are many functional and navigation improvements to its plug-in for CICS Explorer, as well as simplified host data management.

#### ***Support for application resource***

Allows you the capability to customize report forms to include new performance metrics related to application and platform. You can then use these forms to run reports that include the new metrics.

#### ***Data management improvements***

You can now manage the CICS PA Historical Data Base (HDB) data you loaded to DB2 more easily. For example, options are provided on the HDB panels to enable data exported to DB2 to be deleted when that data is deleted from the HDB. Also, the process of loading System Management facility (SMF) data to DB2 has been simplified, removing the need to load the data to HDB and then export to DB2 .

Many CICS PA customers need to process large volumes of SMF data. CICS PA performance for processing these large number of SMF records is improved. CICS PA V5.1 also supports processing of this data on logstreams, which are being used by a growing number of customers for their SMF data.

### **CICS TS V5.1 support**

CICS PA V5.1 processes SMF performance and statistics data and provides reporting for all new metrics in CICS TS V5.1, including the new monitoring metrics for application and platform, and the new statistics metrics for platform. The CICS PA plug-in for CICS Explorer also supports these new metrics and their associated templates.

### **Batch statistics reporting**

This enables CICS PA and CICS TG users to run batch performance reports for CTG statistics in addition to the current online viewing of this data via the ISPF and CICS PA plug-in interfaces.

### **Statistics filtering**

CICS PA now allows filtering by APPLID or IMAGE on the statistics reporting option. This enables SMF datasets to be displayed for the APPLID or image specified on the filter field.

### **CPU totals on WebSphere MQ reports**

A number of CICS PA customers have requested that the CICS WebSphere MQ reports include CPU totals. This is now provided in CICS PA V5.1.

### **New in the CICS PA plug-in**

The following important enhancements were delivered in the CICS PA plug-in V3.2.1 and are integrated into the plug-in for CICS PA V5.1:

- **Customizable sheet views** - Data filters can be applied by any column in the table
- **Improved navigation** - Rationalized menu options for performance summary data and context-based report selection
- **Wait analysis** - Visualization and charts are now available for the metrics

### **Other CICS PA plug-in enhancements**

- CICS TS V5.1 application-centric view
- Integration with cloud style environment in CICS Explorer

### **CICS VSAM Recovery for z/OS , V5.1**

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CICS VSAM Recovery for z/OS , V5.1 ( CICS VR) delivers key enabling technology that is designed to enable CICS and batch VSAM files to be used in geographically dispersed high availability configurations. In addition, a number of batch logging, migration, and other improvements are included.

### **Replication logging**

CICS VR V5.1 provides replication logging capability in support of the IBM GDPS/Active-Active (GDPS/AA) availability solution which IBM intends to enhance in future to support replication of VSAM data for active-standby and active-query configurations. For details, refer to the [Statement of direction](#) section.

At present GDPS/AA provides software replication of DB2 and IMS data between geographically dispersed sysplexes. CICS VR replication logging is intended to be used by GDPS/AA to provide replication of VSAM data updated by batch jobs under the control of CICS VR. It complements replication logging capability in CICS TS V5.1, which provides the same support for VSAM files under control of CICS TS.

In CICS VR V5.1, support for replication logging provides UNDO, REDO, Tie-up records, and File Close records on the same MVS logstream. Replication logging is activated by means of a new LOGREPLICATE attribute on the VSAM cluster

definition. Replication logging can be activated in addition to any CICS VR UNDO or REDO logging already in place for backout or forward recovery support. If both replication logging and REDO logging for forward recovery are activated, then they share the same logstream.

### ***Batch logging enhancements***

The CICS VR batch logging diagnostics are improved. They include an enhanced DWW269I message in the job log that provides the details of the type of logging and the number of records, in decimal, written. On the system log, new DWW400I and DWW401I messages provide details of the job names and job IDs by using batch logging and which logstreams are being used. Clashes can be more easily identified, for example, the attempted use of the same logstream by two concurrent jobs.

### ***Batch backout improvements***

The support provided by CICS VR when running batch backout to back out a batch job or jobstep is enhanced. The enhancements include:

- Improved diagnostics - No backout is required.
- A new CHECK option to produce enhanced reports by listing the key of records backed out.
- Supports step names within procedures.

### ***Migration utility enhancements***

A number of minor enhancements are made to the migration process:

- Support for migrating before CICS VR V5.1 recovery control data sets (RCDSs) to CICS VR V5.1
- Improved error diagnostics
- Support for migration of CICS VR server defaults from previous releases

### ***NOTIFY enhancements***

CICS VR provides a sample REXX clist to demonstrate the notification of multiple VSAM sphere backups.

### ***Message and report enhancements***

CICS VR produces diagnostic messages when the system data sets DWWMSG and DWWDUMP wrap. The wording is improved for easier comprehension of log stream copy and log of logs scan reports.

### ***Logstream printing enhancements***

DWWJUP is enhanced to identify replication records written by CICS VR V5.1 and CICS TS V5.1.

## **IBM CICS VSAM Transparency for z/OS plug-in Supportpac**

CICS VT V2.1 introduces a new plug-in for CICS Explorer to display VSAM files that are defined to CICS VT and whether their status is active or inactive. This capability, delivered as CICS SupportPac CS1V, will help clients to manage and understand the progress of their data modernization projects.

The CICS Explorer V5.1 is updated to include support for the new and enhanced capabilities of CICS TS V5.1. CICS Explorer V5.1 is restructured to separate the CICS -specific perspectives and capabilities from the connectivity infrastructure and z/OS platform views. It creates a new, reusable component known as IBM Explorer for z/OS , V1.1 ( z/OS Explorer). CICS Explorer is also now pre-loaded with the URL of the update site for all CICS tools and PD tools plug-ins, greatly simplifying the initial installation process. For more information about CICS Explorer V5.1, refer to Software Announcement [212-325](#), dated October 3, 2012.

IBM PD Tools Studio V12 delivers an Eclipse-based Rich Client Platform, pre-loaded with the plug-ins for all five IBM Problem Determination Tools, along with the z/OS Explorer, which provides users with a consistent experience, regardless of the platform. CICS users of the Problem Determination Tools can quickly extend PD Tools Studio with the CICS Explorer SDK and CICS Tools plug-ins, to produce a powerful, multi-functional CICS workbench for all technical roles.

**New and updated function delivered by APAR PTF since prior release**

PM50834 (PTF UK76064) - Collect CICS EVENT API calls in CICS IA 3.2 COMMAND FLOW FEATURE

PM34799 (PTF UK68091) - CICS VR Toleration support for CICS TS V4.2

PM02913 (PTF UK54772) - Optimize batch logging undo records for Read\_Update requests, and add information to the RCDS report for undo logging.

PK82210 (PTF UK47498) - Support automated VSAM Recovery from CICS TS V4.1

**Customer and User group requirements satisfied (RFEs)**

20684 CICS IA Support for Monitor Command

15344 CICS IA Command Flow - more flexibility and control over the data captured

15345 CICS IA Utility to purge resources from the Dependency database

22274 CICS DA Stop Policy for Deployment Assistant needed

15350 CICS DA Allow custom Stop policy

22577 CICS DA Optional DFHTEMP definitions in clone

24577 CICS DA Profile/template for new region

23781 CICS DA Symbolic support in new region capability

15329 CICS VR Recovered Data set Statistics Report needs to report on backout record counts and actions

15326 CICS VR V4.2 Step Level Back Out Reporting

15324 New parameter to set return code when CICS VR detects no data to back out

15323 CICS VR batch logging report

15256 The term block number is confusing on CICS VR Logstreamcopy and Log of Log scan reports

15644 CICS CM Provide the capability to add ADD and REMOVE commands to a package to enable groups to be added to or removed from a list

16380 CICS CM Support SSL access in CICS CM plugin for CICS Explorer

15641 CICS CM Audit Trail for Install and New Copy

15640 CICS CM All for Remove option when deleting a group

15404 CICS Configuration Manager program CCVBDDDI should echo all input control cards

15369 CICS CM LIST VIEW enhancement request for CICS Configuration Manager

15600 CICS PA New facility for managing (removing) data loaded to CICS PA DB2 tables

15573 CICS PA Batch reporting for CTG (SMF 111) statistics records

15438 CICS PA Provide filtering by APPLID or IMAGE in CICS PA Statistics reporting option to allow filtered SMF datasets to be displayed

21637 CICS PA Provide CPU Totals on CICS PA MQ reports

## **Accessibility by people with disabilities**

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A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

The following features support use by people with disabilities:

- Operation by keyboard alone
- Optional font enlargement and high-contrast display settings
- Suitability for use by people with hearing impairment
- Capability to use with screen readers and magnifiers for those with visual impairment

Softcopy documentation for the product is provided in PDF format. This documentation supports optional font enlargement and high-contrast display settings, and may be operated by the keyboard alone.

## **Section 508 of the US Rehabilitation Act**

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CICS IA V5.1, CICS DA V5.1, CICS CM V5.1, CICS PA V5.1, and CICS VR V5.1 are capable as of December 14, 2012, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

## **Value Unit-based pricing**

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Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs

- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

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## Product positioning

An unrelentingly competitive economic environment has driven many enterprises to increase their business agility by transforming their CICS -based critical information systems using service-oriented architecture (SOA) strategies and web service and Web 2.0 technologies. Rather than satisfying demand, increased agility and broad network access has actually increased demand from mobile and other internet-connected devices, social networks, and other novel sources.

The same pressures also force IT managers, CICS system programmers, and application developers to develop and deploy new business applications more rapidly, and operate systems at peak level, all while maintaining service level commitments and meeting regulatory and corporate governance requirements.

Such businesses need tools to help them develop and test applications more effectively, avoid outages and reduce downtime, while improving performance, controlling costs, and complying with standards.

The CICS tools family is part of the greater System z Enterprise tools portfolio which supports the CICS environment, and includes IBM Problem Determination tools, Rational® development and test tools, and Tivoli® management products. CICS tools can help by improving collaboration between the various roles involved in making and tracking changes and enabling tighter and more transparent control over CICS administration, both of which are critical for smooth operation of CICS . They can also help speed up the overall end-to-end development effort for new and changed applications.

CICS tools V5.1 supports, exploits, and extends the capabilities of CICS TS V5.1, delivering an integrated solution for all technical roles.

This combination of high functionality and flexibility, coupled with a commitment to support the latest release of CICS TS, make CICS tools an outstanding solution.

**CICS IA** is a dynamic discovery tool for CICS applications. It is the key tool for supporting application development and IT service management with the dependency information required when changing, extending, and managing complex CICS systems, becoming almost indispensable at times of major change. CICS IA is complementary to Rational Asset Analyzer, which provides static analysis of a broad range of System z applications, including CICS .

**CICS DA** is a discovery and deployment tool for CICS systems, providing powerful visualization, navigation, and automation for CICS application developers, testers, and system programmers.

**CICS CM** is a configuration management tool, providing both application development and systems administration teams with the access, automation, and governance required to manage CICS resource definitions effectively.

**CICS PA** is a CICS system and application performance reporting and analysis solution built to address the needs of everyone involved in CICS performance analysis, system tuning, and planning capacity for future use, including those who build, manage, and deploy complex mainframe CICS applications. CICS PA complements IBM Tivoli OMEGAMON® XE for CICS and IBM Tivoli Composite Application Manager for Transactions which provide operational performance and availability monitoring of the CICS environment.

**CICS VT** is an enterprise modernization tool that enables customers to migrate VSAM data to DB2 and thus benefit from the many advantages that a modern relational database provides.

**CICS VR** is a runtime extension that provides extended recovery capabilities for CICS and batch applications. All users of CICS TS with business-critical data stored on VSAM should use CICS VR. CICS VR is complementary to IBM Aggregate Backup And Recovery System (ABARS), a function within the optional DFSMSHsm and DFSMSdss components of z/OS . If you use ABARS, consider the benefits of CICS VR.

For a trial of any of the CICS tools, contact your local IBM representative.

For more details of the CICS tools family, visit:

<http://ibm.com/cics/tools/>

For more details on IBM System z software, visit

<http://www.ibm.com/software/os/systemz/infra>

### **Integration with CICS Explorer**

CICS Explorer provides a unified user interface for development, management, and operational capabilities delivered by the CICS runtime and add-on tools. The CICS tools plug-ins for CICS Explorer not only enable their rich capability to be used within a common tool framework, but also enables rich integration between the tools and runtime plug-ins. IBM products that support the CICS Explorer are as follows:

- CICS Transaction Server for z/OS
- CICS Interdependency Analyzer for z/OS
- CICS Performance Analyzer for z/OS
- CICS Configuration Manager for z/OS
- CICS Deployment Assistant for z/OS
- CICS Transaction Gateway for z/OS , and for Multiplatforms
- CICS VSAM Transparency for z/OS
- IBM Session Manager for z/OS
- IBM Application Performance Analyzer for z/OS
- IBM Debug Tool for z/OS
- IBM Fault Analyzer for z/OS
- IBM File Manager for z/OS
- IBM Workload Simulator for z/OS
- IBM PD Tools Studio
- IBM Rational Developer for System z
- IMS Enterprise Suite Explorer for Development

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## Statement of direction

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IBM intends in the future to enhance the IBM Geographically Dispersed Parallel Sysplex™ ( GDPS® )/Active-Active continuous availability solution by providing support for software replication of Virtual Storage Access Method (VSAM) data for active-standby and active-query configurations. IBM plans to provide such support for data replication for VSAM data updated by applications that run in CICS and offline in batch mode, using log data provided by CICS Transaction Server for z/OS , V5 or later and CICS VSAM Recovery for z/OS , V5 or later.

IBM 's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM 's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

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## Reference information

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For information on CICS Transaction Server for z/OS , V5.1, refer to Software Announcement [212-325](#), dated October 3, 2012.

For information on IBM Session Manager for z/OS , V5.1, refer to Software Announcement [212-332](#), dated October 3, 2012.

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## Program number

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Program number	VRM	Program name
5655-Y22	5.1.0	CICS Interdependency Analyzer for z/OS
5655-Y29	5.1.0	CICS Deployment Assistant for z/OS
5697-CIC	5.1.0	CICS Configuration Manager for z/OS
5655-Y23	5.1.0	CICS Performance Analyzer for z/OS
5655-Y24	5.1.0	CICS VSAM Recovery for z/OS

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## Product identification number

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Program PID number	Subscription and Support PID number
5655-Y22	5655-G77
5655-Y29	5655-W62
5697-CIC	5697-I79
5655-Y23	5655-G43
5655-Y24	5655-H93

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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

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## Publications

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The following publications are provided in softcopy format:

Title	Order Number
CICS Interdependency Analyzer for z/OS, V5.1	
- User's Guide and Reference	SC34-2811
- Program Directory	GI13-0586
- Data Sheet	GI13-0587
CICS VSAM Recovery for z/OS, V5.1	
- Messages and Problem Determination	SC34-2812
- Implementation Guide and Reference	SC34-2813
- User's Guide	SC34-2814
- Program Directory	GI13-0588
- Data Sheet	GI13-0589
CICS Configuration Manager for z/OS, V5.1	
- User's Guide	GC34-2899
- Program Directory	GI13-0592
- Data Sheet	GI13-0599
CICS Performance Analyzer for z/OS, V5.1	
- User's Guide	SC34-2815
- Report Reference	SC34-2816
- Getting Started Guide	SC34-2817
- Program Directory	GI13-0590
- Data Sheet	GI13-0591
CICS Deployment Assistant for z/OS, V5.1	
- Program Directory	GI13-0593
- Data Sheet	GI13-0600

These publications are only provided in PDF softcopy format. They are in PDF format and are available for download, free of charge, from the IBM Publications Center

<http://www.ibm.com/shop/publications/order>

If hardcopy is required, you may print the PDF document.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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## Technical information

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### **Specified operating environment**

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#### **Hardware requirements**

The CICS tools V5.1 products run on any S/390 or IBM eServer zSeries machine on which the applicable operating system and software will run.

For CICS Explorer requirements, visit

<http://www.ibm.com/software/http/cics/explorer/requirements/>

#### **Software requirements**

For details of system requirements for the CICS tools products, visit

<http://www.ibm.com/software/http/cics/tools/>

Select the required CICS tool, then click on System requirements.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

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## Planning information

### **Packaging**

The CICS tools V5.1 products are shipped via CBPDO or other customized offerings, on 3590 tape.

Also shipped are:

- CICS Interdependency Analyzer for z/OS, V5.1 - License Information CD (GC34-2825)
- CICS Deployment Assistant for z/OS, V5.1 - License Information CD (GC34-2908)
- CICS Configuration Manager for z/OS, V5.1 - License Information CD (GC34-2907)
- CICS Performance Analyzer for z/OS, V5.1 - License Information CD (GC34-2827)
- CICS VSAM Recovery for z/OS, V5.1 - License Information CD (GC34-2826)

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### **Security, auditability, and control**

CICS tools V5.1 products use the security and auditability features of the operating system under which they are running. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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## Ordering information

### **Charge metric**

Program Name	PID Number	Charge Metric
CICS Interdependency Analyzer for z/OS, V5.1	5655-Y22	Per Value Unit
CICS Interdependency Analyzer for z/OS, - Software Subscription and Support	5655-G77	Per Value Unit
CICS Deployment Assistant for z/OS, V5.1	5655-Y29	Per Value Unit

CICS Deployment Assistant for z/OS - Software Subscription and Support	5655-W62	Per Value Unit
CICS Configuration Manager for z/OS, V5.1	5697-CIC	Per Value Unit
CICS Configuration Manager for z/OS - Software Subscription and Support	5697-I79	Per Value Unit
CICS Performance Analyzer for z/OS, V5.1	5655-Y23	Per Value Unit
CICS Performance Analyzer for z/OS - Software Subscription and Support	5655-G43	Per Value Unit
CICS VSAM Recovery for z/OS, V5.1	5655-Y24	Per Value Unit
CICS VSAM Recovery for z/OS - Software Subscription and Support	5655-H93	Per Value Unit

The programs in this announcement all have Value Unit-based pricing.

Program number	Program name	Value Unit exhibit
5655-Y22	CICS Interdependency Analyzer for z/OS, V5.1	VUE007
5655-Y29	CICS Deployment Assistant for z/OS, V5.1	VUE007
5697-CIC	CICS Configuration Manager for z/OS, V5.1	VUE007
5655-Y23	CICS Performance Analyzer for z/OS, V5.1	VUE007
5655-Y24	CICS VSAM Recovery for z/OS, V5.1	VUE007

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full-capacity or sub-capacity

#### Value Unit exhibit VUE007

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

## Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

## Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS . Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

### Basic license

#### On/Off CoD

All of the CICS tools V5.1 products are eligible for On/Off CoD with a temporary use charge, calculated based on MSUs per-day usage.

Program name CICS Interdependency Analyzer for z/OS, V5.1  
Program PID 5655-Y22

Entitlement identifier	Description	License option/Pricing metric
S0172F0	CICS Interdependency Analyzer for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Program name CICS Deployment Assistant for z/OS V5.1  
Program PID 5655-Y29

Entitlement identifier	Description	License option/Pricing metric
S0172DW	CICS Deployment Assistant for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Program name CICS Configuration Manager for z/OS, V5.1  
Program PID 5697-CIC

Entitlement identifier	Description	License option/Pricing metric
S0172DR	CICS Configuration Manager for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Program name CICS Performance Analyzer for z/OS V5.1  
Program PID 5655-Y23

Entitlement identifier	Description	License option/Pricing metric
S0172F3	CICS Performance Analyzer for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Program name CICS VSAM Recovery for z/OS, V5.1  
Program PID 5655-Y24

Entitlement identifier	Description	License option/Pricing metric
S0172F6	CICS VSAM Recovery for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUS	Value Units/MSU
Base	1-3	1
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316+	0.2

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: CICS Interdependency Analyzer for z/OS, V5.1  
Program PID: 5655-Y22

Entitlement identifier	Description	License option/Pricing metric
S0172F0	CICS Interdependency Analyzer for z/OS, V5.1	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S0172DZ	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support PID: 5655-G77

Entitlement identifier	Description	License option/Pricing metric
S00W1MV	CICS Interdependency Analyzer for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S00W1N1	English	Hardcopy publication

Program name: CICS Deployment Assistant for z/OS, V5.1  
Program PID: 5655-Y29

Entitlement identifier	Description	License option/Pricing metric
S0172DW	CICS Deployment Assistant for z/OS, V5.1	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S0172DV	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support PID: 5655-W62

Entitlement identifier	Description	License option/Pricing metric
S0165VN	CICS Deployment Assistant for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S0165VT	English	Hardcopy publication

Program name: CICS Configuration Manager for z/OS, V5.1  
Program PID: 5697-CIC

Entitlement identifier	Description	License option/Pricing metric
S0172DR	CICS Configuration Manager for z/OS, V5.1	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S0172DP	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support PID: 5697-I79

Entitlement identifier	Description	License option/Pricing metric
S011CNX	CICS Configuration Manager for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S011CR1	English	Hardcopy publication

Program name: CICS Performance Analyzer for z/OS, V5.1  
Program PID: 5655-Y23

Entitlement identifier	Description	License option/Pricing metric
S0172F3	CICS Performance Analyzer for z/OS, V5.1	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S0172F2	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.  
Subscription and Support PID: 5655-G43

Entitlement identifier	Description	License option/Pricing metric
S00VH52	CICS Performance Analyzer for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S00VHK6	English	Hardcopy publication

Program name: CICS VSAM Recovery for z/OS, V5.1  
Program PID: 5655-Y24

Entitlement identifier	Description	License option/Pricing metric
S0172F6	CICS VSAM Recovery for z/OS, V5.1	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S0172F5	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.  
Subscription and Support PID: 5655-H93

Entitlement identifier	Description	License option/Pricing metric
S00W7B5	CICS VSAM Recovery for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S00WBJ5	English	Hardcopy publication

### Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390 and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

### **Customized Offerings**

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Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac, the month following their availability in CBPDO. z/OS can be ordered via CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability

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## Terms and conditions

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

### ***Licensing***

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

### ***Agreement for Acquisition of Software Maintenance***

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

### ***License Information CD form number***

CICS Interdependency Analyzer for z/OS , V5.1

- License L-APIG-8VLG35
- Form number GC34-2825

CICS Deployment Assistant for z/OS , V5.1

- License L-ACRR-8VLJAS
- Form number GC34-2908

CICS Configuration Manager for z/OS , V5.1

- License L-SBRY-8VPFES
- Form number GC34-2907

CICS Performance Analyzer for z/OS , V5.1

- License L-APIG-8VLFVQ
- Form number GC34-2827

CICS VSAM Recovery for z/OS , V5.1

- License L-APIG-8VLFZE
- Form number GC34-2826

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

***Limited warranty applies***

Yes

***Limited warranty***

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

***Program support***

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM 's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

***Volume orders (IVO)***

No

***Passport Advantage applies***

No

***Software Subscription and Support applies***

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

## **IBM Operational Support Services - SoftwareXcel**

Yes

### **Other support**

SoftwareXcel

### **System i Software Maintenance applies**

No

### **Variable charges apply**

No

### **Educational allowance available**

Yes. A 15% education allowance applies to qualified education institution customers.

### **Sub-capacity terms and conditions**

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For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5655-Y22	CICS Interdependency Analyzer for z/OS, V5.1	Reference-based	5655-147 5697-E93 5655-M15 5655-S97
5655-Y29	CICS Deployment Assistant for z/OS, V5.1	Reference-based	5655-147 5697-E93 5655-M15 5655-S97
5697-CIC	CICS Configuration Manager for z/OS, V5.1	Reference-based	5655-147 5697-E93 5655-M15 5655-S97
5655-Y23	CICS Performance Analyzer for z/OS, V5.1	Reference-based	5655-147 5697-E93 5655-M15 5655-S97
5655-Y24	CICS VSAM Recovery for z/OS, V5.1	Reference-based	5655-147 5697-E93 5655-M15 5655-S97

### **Full-capacity mainframes**

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

### **Sub-capacity mainframes**

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of a System z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit*, (Z125-3901), or visit the Mainframes section of the System z Exhibits website

<http://ibm.com/zseries/library/swpriceinfo/>

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex® . You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex . Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

### **Sub-capacity eligibility**

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To

implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

### **Sub-capacity utilization determination**

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Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

### **On/Off Capacity on Demand (CoD)**

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To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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## Prices

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For additional information and current prices, contact your local IBM representative.

Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Program name: CICS Interdependency Analyzer for z/OS, V5.1

Program PID: 5655-Y22

Entitlement identifier	Description	License option/Pricing metric
S0172F0	CICS Interdependency Analyzer for z/OS, V5.1	Basic OTC, Value Units
S0172F0	CICS Interdependency Analyzer for z/OS, V5.1	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5655-G77

Entitlement identifier	Description	License option/Pricing metric
S00w1MV	CICS Interdependency Analyzer for z/OS Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Program name: CICS Deployment Assistant for z/OS, V5.1

Program PID: 5655-Y29

Entitlement identifier	Description	License option/Pricing metric
S0172DW	CICS Deployment Assistant for z/OS, V5.1	Basic OTC, Value Units
S0172DW	CICS Deployment Assistant for z/OS, V5.1	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5655-W62

Entitlement identifier	Description	License option/Pricing metric
S0165VN	CICS Deployment Assistant for z/OS Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Program name: CICS Configuration Manager for z/OS, V5.1

Program PID: 5697-CIC

Entitlement identifier	Description	License option/Pricing metric
S0172DR	CICS Configuration Manager for z/OS, V5.1	Basic OTC, Value Units
S0172DR	CICS Configuration Manager for z/OS, V5.1	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5697-I79

Entitlement identifier	Description	License option/Pricing metric
S011CNX	CICS Configuration Manager for z/OS Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration
Entitlement identifier	Description	License option/Pricing metric
S0172F3	CICS Performance Analyzer for z/OS, V5.1	Basic OTC, Value Units
S0172F3	CICS Performance Analyzer for z/OS, V5.1	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5655-G43

Entitlement identifier	Description	License option/Pricing metric
S00VH52	CICS Performance Analyzer for z/OS Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Program name: CICS VSAM Recovery for z/OS, V5.1  
Program PID: 5655-Y24

Entitlement identifier	Description	License option/Pricing metric
S0172F6	CICS VSAM Recovery for z/OS, V5.1	Basic OTC, Value Units
S0172F6	CICS VSAM Recovery for z/OS, V5.1	Basic OTC, per MSU-day TUC

Subscription and Support PID: 5697-I77

Entitlement identifier	Description	License option/Pricing metric
S00W7B5	CICS VSAM Recovery for z/OS Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

## **IBM Global Financing**

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## Corrections

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### **(Corrected on October 18, 2012)**

The Sub-capacity terms and conditions section is revised.

### **(Corrected on October 3, 2012)**

The Ordering information section is revised.