



IBM CICS Tools for z/OS, V5.3 provides support and exploitation of the new capabilities in CICS Transaction Server for z/OS, V5.3

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At a glance

Four updated IBM^(R) CICS^(R) Tools provide support and exploitation of new capabilities in IBM CICS Transaction Server for z/OS^(R), V5.3 (CICS TS). They improve operational efficiency and service agility. Development, systems, and operational teams can adopt a collaborative, DevOps approach when building and deploying CICS applications and infrastructure. With CICS TS V5.3 and CICS Tools V5.3, it is now quicker and easier to build, deploy, and manage mobile-enabled applications in a CICS cloud environment. Each CICS Tool in this release delivers a new set of capabilities:

- CICS Configuration Manager for z/OS, V5.3 (CICS CM)
 - New detailed comparison of CICS system definition (CSD) files
 - New tracking of CICS CM change package creator ID
 - Implementation of hierarchical transformation rules
 - XSLT batch sample suite allows output XML to be processed by a style sheet for customized automation
 - New exit point at package define time
 - Disable and discard options for installation of CICSplex^(R) System Manager (SM) Business Application Services (BAS) definitions
 - Beta version of a plug-in for IBM UrbanCodeTM Deploy (UCD)
- CICS Deployment Assistant for z/OS, V5.3 (CICS DA)
 - RESTful API to enable discovery and cloning of CICS regions
 - New API sample programs demonstrate how the RESTful API can be invoked from REXX or JavaScriptTM
 - New capability to remove CICS regions discovered or created by CICS DA
 - New configuration tool for easier configuration of CICS DA server
- CICS Interdependency Analyzer for z/OS, V5.3 (CICSIA^(R))
 - New function to use existing CICS IA data for cloud application enablement
 - Reworked CICS IA plug-in perspective for improved user experience
 - New scenario-based collection
- CICS Performance Analyzer for z/OS, V5.3 (CICS PA)
 - New forms-based summary reporting for CICS TS and CICS Transaction Gateway (CICS TG) statistics
 - New forms for mobile workload reporting and for use with mobile workload pricing tool

- New IBM DB2^(R) table upgrade function
- New categorization and search-for forms
- New predefined report sets, based on scenarios
- CICS Optimization Solution Pack for z/OS is updated to V5.3 and includes new releases of its component products: CICS CM, CICS DA, CICS IA, and CICS PA.
- CICS Modernization Solution Pack for z/OS is not updated to release 5.3. However, release 5.2 of this solution pack is still available.

All CICS Tools V5.3 products support new features of CICS TS V5.3, to help IT and business users reap the benefits of cloud-style CICS more quickly. Numerous other enhancements offer increased value to clients with earlier releases of CICS TS.

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

Overview

Four updated products in the IBM CICS Tools V5.3 family combine to increase the value of CICS TS for z/OS V5.3. They improve the operational efficiency and service agility of the systems of record that power much of modern business today. CICS Tools enable development, systems, and operational teams to adopt a collaborative, DevOps approach, to plan, design, build, test, deploy, manage, and optimize CICS applications and infrastructure. CICS Tools V5.3 support the new features, resources, options, and metrics in CICS TS V5.3. With CICS TS V5.3 and CICS Tools V5.3, it is now quicker and easier to build mobile-enabled applications and deploy them in a CICS cloud environment.

To create an effective DevOps pipeline, clients need to be able to automate their deployment process and take action, based on the outcomes of their process flow. This is now possible in CICS Configuration Manager for z/OS (CICS CM), V5.3, with improved capability to customize and transform attributes, compare system definitions to highlight differences easily across environments, and capture the change package creator ID for enhanced audit capabilities.

CICS Deployment Assistant for z/OS (CICS DA) provides better understanding and visualization of the topology of a CICS environment. In CICS DA V5.3, clients now have the capability to create, customize, and discard CICS regions. This enables elastic scaling and the creation of test regions, based on production systems. Crucially, these processes can now be integrated within a client's automated DevOps pipeline using new API commands and extension points.

CICS Interdependency Analyzer for z/OS (CICSIA) enables application developers and system programmers to understand CICS application relationships and dependencies. In CICS IA V5.3, collecting this information is simplified using scenario-based collections, making it easier for clients to control and manage changes to their business applications.

CICS cloud enablement improves operational efficiency and reduces costs with capabilities, such as policies and application multi-versioning. To take advantage of these capabilities, clients can use CICS IA V5.3 to discover entry points and dependencies, create the required CICS bundles and deploy them as a CICS cloud application.

CICS Performance Analyzer for z/OS (CICS PA) enables historical performance reporting and analysis of CICS systems and applications, identification of performance problems from large volumes of SMF data, trend analysis, and capacity planning. In CICS PA V5.3, these capabilities are enhanced using pre-defined report sets based on performance problem or project scenarios, such as threadsafe or consolidation. CICS PA V5.3 introduces batch reporting for complex statistics data, which can then be integrated with automated reporting. New report forms enable reporting for the purpose of specifying CICS platform policies for IBM MQ for z/OS,

IBM DL/1, named counter, and shared temporary storage requests. Report Forms can now be categorized and searched, based on performance and project scenarios. This makes it easier to find the most appropriate report to run for specific reporting and analysis scenarios. In addition, CICS PA V5.3 enables reporting of performance for mobile workloads and can also be used to generate comma separated value (CSV) files for use with mobile workload pricing.

CICS Optimization Solution Pack for z/OS, V5.3, is updated to include the new releases of CICS CM, CICS DA, CICS IA, and CICS PA. It provides the ability to discover, visualize, and manage CICS regions, as well as discover, visualize, and understand application resources. It can also manage CICS resources in a controlled environment and carry out historical performance analysis, reporting, and planning for future requirements.

CICS Modernization Solution Pack for z/OS is not updated to release 5.3. However, release 5.2 of this solution pack is still available.

CICS Tools offer the opportunity to realize the full potential of client's CICS systems, whatever their business strategy. There is the potential to maintain and manage core CICS applications more easily and at a lower cost. CICS Tools enhance DevOps initiatives to optimize IT processes, maximize CICS system availability, reduce total cost of ownership (TCO), and modernize CICS applications and platforms to achieve greater service agility. In today's world of increasing demand for access to systems of record, from mobile devices, social networks, and unknown future sources, CICS Tools can help make the most of clients' z Systems™ platform investments and take advantage of the latest capabilities in CICS TS V5.3.

Key prerequisites

CICS Tools V5.3 run on any S/390^(R) or IBM eServer™ zSeries machine on which the applicable operating system and software will run. For additional details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

December 11, 2015

Description

Four products in the CICS Tools V5.3 family are updated and combine together to increase the value of CICS TS V5.3, by improving the operational efficiency and service agility of the systems of record that power much of today's modern business. CICS Tools enable development, systems, and operational teams to adopt a collaborative, DevOps approach. They work together to plan, design, build, test, deploy, manage, and optimize CICS applications and infrastructure. With CICS V5.3 portfolio products it is now quicker and easier to build mobile-enabled applications and deploy them in a CICS cloud environment.

The CICS Tools V5.3 products support, exploit, and in some cases help clients prepare for the new, cloud-like facilities in CICS TS V5.3. CICS Tools V5.3 support the new features, resources, options, and metrics in CICS TS V5.3. All of the new product releases provide new and updated capabilities, many developed in response to client requirements, and which also deliver value to clients who choose to remain on currently supported versions of CICS TS.

CICS Tools give clients the opportunity to realize the full potential of their CICS systems, whatever their business strategy. They help maintain and manage core CICS applications more easily and at a lower cost. CICS Tools enhance DevOps initiatives to optimize IT processes, maximize CICS system availability, reduce total cost of ownership, and transform CICS applications to achieve greater service agility.

In today's world of increasing demand for enterprise service access from mobile devices, social networks, and unknown future sources, CICS Tools can help to maximize valuable z Systems platform investments and benefit from the latest capabilities in CICS TS V5.3.

CICS IA V5.3

Service agility and cloud enablement

CICS IA V5.3 adds the ability to identify a set of resources that encapsulate an application. This information can be used to build a CICS bundle that can be included in a CICS application bundle for deployment into a CICS platform.

Operational efficiency

CICS IA 5.3 also includes scenario-based collections from the plug-in, usability improvements in the plug-in perspective, and a default configuration function.

CICS DA V5.3

Service agility and cloud enablement

When cloning a CICS region, clients can specify that the new CICS region uses a different CSD to the source region. CICS regions can now be cloned through the RESTful API. CICS DA now provides the ability to remove CICS regions that are discovered or created by CICS DA. This feature also provides the option to remove all of the data sets, data set members and the CICSplex SM region definition associated with the region being removed.

Users can specify JCL PROCs to be executed at the start and end of the clone process to augment the clone process and integrate the clone into existing processes. These JCL PROCs are passed the attributes that are used by DA as part of the clone. This includes user-entered values and values that are created by CICS DA. Users can define name transforms to be used when creating new data sets as part of the clone process. New API sample programs demonstrate how the RESTful API can be invoked from REXX or JavaScript. These new samples are customizable and include the ability to invoke discovery, clone a CICS region, and export the CICS DA data model to be used by other programs.

Operational efficiency

A new configuration tool enables easier configuration of the CICS DA server. Discovery can now be run under the user ID of the client requesting it. This reduces the authority required by the CICS DA server's user ID. Discovery has been enhanced to identify the command that is required to start CICS regions which are run as Started Tasks. The generated command will be used for operations that require one, removing the need for the user to specify the command used to start these regions. Discovery can now be initiated through the RESTful API.

CICS PA V5.3

Service agility and cloud enablement

CICS PA V5.3 provides new forms that enable reporting of mobile workloads in CICS. These forms can be used to generate reports that provide details on any metrics for transactions that originate from a mobile device.

Operational efficiency

CICS PA V5.3 provides forms-based summary reporting for CICS TS and CICS TG statistics for flexibility and analysis. Forms for mobile workload reporting to help with analysis of mobile workloads and for use with mobile workload pricing. In addition, a DB2 table upgrade function is provided for upgrading CICS PA Historical Database (HDB) data to latest versions of CICS TS. Also, categorization and search for forms, based on performance and project scenarios, is delivered for easier reporting and analysis. Pre-defined report sets are also delivered that are based on

performance problem scenarios and project-based scenarios, such as Threadsafe or Consolidation.

CICS CM V5.3

Service agility and cloud enablement

CICS CM V5.3 provides Extensible Stylesheet Language Transformations (XSLT) sample batch suite, which allows the output XML to be processed by a style sheet and used as input for customized automation processing.

CSD Compare is a DevOps feature that allows operations to confirm that CSD changes provided by the developers conform and are complete before and after upgrade.

A new CICS CM plug-in to UrbanCode deploy enables upgrading CSD and CICSplex SM Business Application Services (BAS) definitions across development, test, Quality Assurance (QA), and production environments. These CICS CM steps can be part of the process that includes deployment of CICS applications by using the CICS TS UrbanCode plug-in. The overall UrbanCode process flow can be automated and can also include UrbanCode plug-ins for source code management products, such as IBM Rational Team Concert™. If the application artifacts include zFS files, then the appropriate UrbanCode plug-in for this can be used and the steps included in the process flow.

Multiple deployment steps can be coordinated in a single action with UrbanCode Deploy. Similar applications and environments, such as development systems or more tightly controlled test and production environments, can reuse these deployment processes.

Operational efficiency

In addition to these deployment capabilities, there are a number of improvements made to the core CICS CM function to enable automation of deployment processes. Such as:

- XSLT samples provide a level of batch automation that enable streamlining of operational processes.
- Detailed comparison of CSDs is provided, to highlight differences in definitions and their attributes.
- The CICS CM change package creator ID is now included as one of the attributes of a package. This information can be used as part of an automated process.
- Capability for grouping of transformation rules and usability improvements when building complex rules.
- An exit point at package define time for additional site-specific tailoring of deployment process flow. Disable/Discard options for install of CICSplex SM BAS definitions.

CICS Solution Packs

CICS Solution Packs offer a convenient and more affordable way to purchase key products in the CICS Tools family, at a reduced inclusive price. They enable clients to benefit from investments in previously purchased products.

CICS Optimization Solution Pack for z/OS, V5.3 is a packaged solution that includes the new releases of the following key CICS Tools, to quickly achieve performance tuning of CICS systems and applications:

- CICS CM V5.3
- CICS DA V5.3
- CICS IA V5.3
- CICS PA V5.3

CICS Modernization Solution Pack for z/OS, V5.2 is also available and includes the earlier releases of CICS DA V5.2, CICS IA V5.2, and CICS TG for z/OS V9.1.

All CICS solution pack products include integrated plug-ins for CICS Explorer^(R), designed to simplify use by new staff and increase the productivity of experienced users.

CICS Operational Insights™ open beta

Mainframe optimization tooling has now reached the cloud, in the form of the CICS Operational Insights open beta. This cloud-hosted CICS offering provides self-service analytics to help clients gain insights from their operational data. The web interface displays automatically generated reports which highlight areas of potential improvement and suggest next steps. The CICS Operational Insights open beta is available to try at no cost and with no obligation to purchase. For more information, go to

<http://www.ibm.com/software/products/en/cics-oi>

IBM zTools support

IBM makes concurrent announcements today for IBM zTools, which highlight major enhancements with immediate support and exploitation of the new capabilities in CICS TS V5.3.

In addition, the following OMEGAMON^(R) XE releases provide immediate support for CICS TS V5.3:

- OMEGAMON XE for CICS on z/OS V510 and V530, with Authorized Program Analysis Report (APAR) OA48778
- OMEGAMON XE for CICS TG on z/OS V510 and V530, with APAR OA48780

IBM Operations Analytics for z Systems 2.1 (IOAz) delivers new and updated functions, and supports CICS TS V5.3 to enable analytics and insight into CICS' subsystems.

For more information see the relevant IBM product announcements in the [Reference information](#) section.

New and updated functions delivered by APAR/PTF since earlier release

APAR/PTF	Description
CICS CM	
PI32070	TRACKING THE USERID OF THE CHANGE PACKAGE CREATOR
CICS DA	
PI34622	USE DIFFERENT CSD FOR CICS DEPLOYMENT ASSISTANT
CICS IA	
PI24634	PROVIDE CONCURRENCY SUPPORT FOR DB2 V11
PI29675	IMPROVE COMMAND FLOW DATA COLLECTION TO INCLUDE REMOTE SYSTEM
PI37281	NEW OPTION TO STOP COLLECTOR WHEN DB2 PROBLEM OCCURS OR TO CONTINUE COLLECTING OTHER DATA SUCH AS CICS AND MQ
CICS PA	
PI20963	EXPLOITATION OF CICS TG V9.1 STATISTICS

Requests for Enhancement (RFE) satisfied

The following enhancement requests are satisfied by this announcement. Clients can see further details of these requests, or submit their own enhancement requests, by refer toing the following web page and selecting the WebSphere[®] brand and then the relevant product

<http://www.ibm.com/developerworks/rfe/>

RFE number	Description
CICS CM	
35328	Provide DISABLE or DISCARD options when installing CICSplex SM BAS resources
43103	Provide XSLT samples for CICS CM batch extract function
45536	Block Copy/Move function on Transformation Rule Set panel
54843	Provide capability to group transformation rule sets
55063	CSD-CSD compare function as part of deployment analysis
56386	Group list check function should detect missing groups
59368	Provide an exit point at Package Define
60018	Track Change Package creator userid
CICS DA	
22577	CICS Deployment Assistant tries to allocate NULL file when temporary storage files are not used causing the allocate job to abend
29766	Provide Cheat sheet to assist with CICS DA customization
33988	Enhanced CICS DA cloning capabilities
40338	Enhance the CICS DA exported CSV report
41175	Deleting/Removing A Cloned Region using CICS DA
42069	Add " VTAM [®] applid/Log stream/RACF profile" definition template/Wizard in CICS DA
46757	Enhance CICS DA to not require Password
65530	Deleting/Removing A Cloned Region using CICS DA
CICS IA	
15342	Collection of SAG Natural programs flow of execution associated with a given TASKID
18028	CICS/IA Database Purge
26650	Support for FILE control remote access information
37416	Automatic Resource Prefixing if repetitive calls from same location
46151	Provide separate entries in detail batch reports for STARTs that are immediate and those that have an associated interval.
58611	CICS IA to build application bundles
59648	Add Container Names to CIUPFXTB and improve overhead of using table
CICS PA	
43221	Provide migration facility for CICS PA DB2 data tables
53732	Provide batch summary reporting for CICS TS and CICS TG Statistics

Product positioning

The mobile revolution is changing IT. For many years, IT faced a dilemma - how to do more with less. Now, the pace of change is increasing and the race for mobile-enablement is driving the biggest spike in application development and workload for a generation.

For many, mobility equals novelty. Mobile apps do not just need to work, all of the time, they also need to engage their users and have the ability to encourage them to return frequently, especially if the app is a front-end to a web site. One way to achieve this is to keep on changing and improving the apps. Novelty may maintain interest, but it also requires development and deployment in time-scales previously considered risky when changing systems of record. The change in emphasis to IT delivering systems of interaction requires a new level of agility as standard.

Mobile apps also need to scale so that they are not overwhelmed by their own success and be available for worldwide use, 24x7x365, so that their mobile users and the businesses they fuel can depend on them. As mobile workload grows, often explosively, additional system resources must be allocated in a timely manner. It is equally important that those resources be freed when no longer required.

The service agility features and further advances in CICS operational efficiency, delivered in CICS TS V5.3, combine with CICS Tools to provide a cloud-like, mobile-ready, platform fit for the demands of today. Clients may not need to run one billion transactions each day, or 150,000 transactions each second, but they know that with CICS, if they need to, then they can.

The IBM portfolio of z/OS Tools, which includes the CICS Tools and the IBM Problem Determination Tools, help clients to maximize the benefits of the CICS TS V5.3 service agility and operational efficiency initiatives. The integrated z/OS Tools allow all DevOps roles to work together to facilitate the development, deployment, and management of mobile applications and systems.

CICS CM ensures that any necessary application and system configuration settings follow standards and can be audited, and backed-out, if required.

CICS DA includes discovery, visualization, and automation to simplify and speed up the creation and management of CICS infrastructure required for the development, testing, and production deployment of mobile applications.

CICS IA provides the application insight required to identify target programs for mobile or service enablement, identify CICS application dependencies for subsequent cloud deployment, and better understand back-end systems. CICS IA also assists with cloud-enabling applications so they can be deployed more rapidly, and with threadsafe optimization and workload management to mitigate the effects of increased workload.

CICS PA provides offline reporting of CICS performance and statistical data to gain the insight needed to manage CICS mobile applications and cloud systems effectively. It is also used to enhance their efficiency, which is especially important when adding significant new workload.

CICS Tools, CICS Explorer, IBM Problem Determination Tools (PD Tools), IBM Rational^(R) development and test tools, and IBM DB2 and IBM IMSTM data management tools integrate with IBM Explorer for z/OS (z/OS Explorer) to provide a unified user interface for development, management, and operational capabilities delivered by CICS and other z/OS sub-systems. z/OS Explorer is an Eclipse-based tool for z/OS users that provides an integration platform for a variety of offerings from IBM, vendors, and in-house development plug-ins.

CICS Tools Solution Packs and PD Tools Solution Packs offer a convenient and more affordable way to purchase key products in the CICS Tools and PD Tools families at

a reduced inclusive price, while benefiting from investments in previously purchased products.

CICS TS Value Unit Edition is a one-time charge (OTC) version of CICS TS that allows existing CICS clients to mobile-enable existing CICS applications, without a major upgrade.

CICS TS Developer Trial is also available as a try-before-you-buy edition of CICS TS V5.3. It has a zero-cost license charge and does not initiate any single version charging (SVC) period. It allows clients to explore the cloud and mobile features and benefits of the latest CICS TS release, without commitment or obligation.

For more details of the CICS Tools family, go to

<http://ibm.com/software/products/en/cics-tools>

For more details on z Systems software, go to

http://www.ibm.com/software/os/systemz/en_US/index.html

Reference information

For information on CICS TS V5.3, refer to Software Announcement [215-363](#), dated October 5, 2015.

For information on CICS Modernization Solution Pack for z/OS, V5.2, refer to Software Announcement [215-263](#), dated July 1, 2014.

For information on IBM Explorer for z/OS, V3.0, refer to Software Announcement [215-373](#), dated October 5, 2015.

For information on IBM Operations Analytics for z Systems V2.1, refer to Software Announcement [215-133](#), dated April 21, 2015.

For information on IMS 14, refer to Software Announcement [215-405](#), dated October 5, 2015.

CICS web pages

For up-to-date information on CICS, refer to

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

For the latest information on CICS Tools V5.3, refer to

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

The CICS support web page can be used to search for terms, phrases, error codes, and APAR numbers

http://www.ibm.com/support/entry/portal/Overview/Software/Other_Software/CICS_Transaction_Server

CICS SupportPacs

CICS SupportPacs are available at no charge, to extend and complement CICS family products. Go to

<http://www.ibm.com/support/docview.wss?uid=swg27007241>

Program number

Program number	VRM	Program name
5697-CIC	5.3.0	CICS Configuration Manager for z/OS
5697-I79	1.1.0	CICS Configuration Manager for z/OS S&S
5655-Y29	5.3.0	CICS Deployment Assistant for z/OS
5655-W62	1.1.0	CICS Deployment Assistant for z/OS S&S
5655-Y22	5.3.0	CICS Interdependency Analyzer for z/OS
5655-G77	1.1.0	CICS Interdependency Analyzer for z/OS S&S
5655-Y23	5.3.0	CICS Performance Analyzer for z/OS
5655-G43	1.1.0	CICS Performance Analyzer for z/OS S&S
5655-CD1	5.3.0	CICS Optimization Solution Pack for z/OS
5655-CD2	1.1.0	CICS Optimization Solution Pack for z/OS S&S

Product identification number

Program PID number	Subscription and Support PID number
5697-CIC	5697-I79
5655-Y29	5655-W62
5655-Y22	5655-G77
5655-Y23	5655-G43
5655-CD1	5655-CD2

Offering Information

Product information is available via the Offering Information website

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

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld[®] ID and password are required (use IBM ID).

[BP Attachment for Announcement Letter 215-364](#)

Publications

CICS Tools V5.3 product documentation is provided in the following ways:

- Online, in IBM Knowledge Center
- Offline, in the versions of IBM Knowledge Center that are for use on a local system
- As PDF manuals. These can be downloaded from IBM Publications Center

Online information in IBM Knowledge Center

Online documentation for CICS Tools V5.3 is hosted in IBM Knowledge Center, which provides integrated tools for finding, filtering, customizing, saving, and sharing information. Documentation for CICS Tools V5.3 in IBM Knowledge Center is refreshed regularly to reflect feedback from users, and to include changes that result from IBM service.

For the CICS Tools V5.3 product documentation in IBM Knowledge Center, refer to

- CICS CM
<http://www.ibm.com/support/knowledgecenter/SS2L7A/welcome.html>
- CICS DA
<http://www.ibm.com/support/knowledgecenter/SSCLNZ/welcome.html>
- CICS IA
<http://www.ibm.com/support/knowledgecenter/SSPPUS/welcome.html>
- CICS PA
<http://www.ibm.com/support/knowledgecenter/SSPPU4/welcome.html>

Off-line information, using the IBM Knowledge Center for CICS products

You can use versions of IBM Knowledge Center on Microsoft™ Windows™, AIX^(R), Linux™, zLinux, and z/OS.

For Microsoft Windows, AIX, Linux, and zLinux

IBM Knowledge Center for CICS family products is a framework that you download to a local system. You can then load the framework with the documentation for CICS Tools. Frameworks are available for Microsoft Windows, AIX, Linux, and under IBM WebSphere Application Server Liberty Profile for Microsoft Windows, AIX, Linux, and zLinux. These frameworks are provided on a single DVD that is available from IBM Shopz (GC34-7459). The documentation for CICS Tools that you can load into the framework is available at

<ftp://public.dhe.ibm.com/software/cics/knowledgecenter>

For IBM z/OS

IBM z/OS V2R2 contains a base element of IBM Knowledge Center for z/OS. If clients have this level of z/OS, they can use the z/OS Softcopy Librarian feature to load CICS Tools V5.3 documentation into the IBM Knowledge Center for z/OS.

See the z/OS 2.2 product documentation ("Installing, Managing, and Using the Online Library") for details about how IBM Knowledge Center for z/OS works, and how to load the latest CICS Tools documentation into it.

http://www.ibm.com/support/knowledgecenter/SSLTBW_2.2.0/com.ibm.zos.v2r1.ab0in02/toc.htm

Note: The contents of the IBM Knowledge Center for z/OS are refreshed on a quarterly schedule that is independent of product releases. As a result, the documentation in this format for CICS Tools V5.3 will not be available at general availability, but will be added in a subsequent refresh.

PDF manuals

Documentation for CICS Tools V5.3 is provided for download in PDF format from IBM Publications Center. Clients can download individual manuals¹ or a complete set, known as a Product Kit (PKIT). For CICS Tools V5.3, this is form number SK4T-2716.

¹ These manuals are not refreshed between releases of CICS Tools.

Title	Form number
CICS CM for z/OS V5.3 User's Guide	SC34-7457-00
CICS IA for z/OS V5.3 User's Guide and Reference	SC34-7456-00
CICS PA for z/OS V5.3 Getting Started Guide	SC34-7453-00
CICS PA for z/OS V5.3 User's Guide	SC34-7454-00
CICS PA for z/OS V5.3 Report Reference	SC34-7455-00

Other publications

In addition to the product documentation, the following publications are available for download from IBM Publications Center:

Title	Order number
CICS Configuration Manager for z/OS, V5.3	
Program Directory	GI13-3358
Data Sheet	GI13-3364
CICS Deployment Assistant for z/OS, V5.3	
Program Directory	GI13-3359
Data Sheet	GI13-3365
CICS Interdependency Analyzer for z/OS, V5.3	
Program Directory	GI13-3357
Data Sheet	GI13-3363
CICS Performance Analyzer for z/OS, V5.3	
Program Directory	GI13-3360
Data Sheet	GI13-3366
CICS Optimization Solution Pack for z/OS, V5.3	
Program Directory	GI13-3362
Data Sheet	GI13-3368

National language versions

Some documentation is translated into languages other than English. For more information, refer to the IBM Publications Center at

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

Services

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, refer to

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

Technical information

Specified operating environment

Hardware requirements

The CICS Tools V5.3 products run on any S/390 or IBM z Systems™ machine on which the applicable operating system and software will run.

For CICS Explorer requirements, refer to

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

Software requirements

For details of system requirements for the CICS Tools products, refer to

<http://www.ibm.com/software/htp/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.

Planning information

Packaging

The CICS Tools V5.3 products are shipped via CBPDO or other customized offerings, on 3590 tape.

Also shipped with each CICS Tools offering is a License Information DVD and IBM Knowledge Center (local install) DVD:

- CICS CM V5.3 - License Information DVD (GC34-7323)
- CICS DA V5.3 - License Information DVD (GC34-7324)
- CICS IA V5.3 - License Information DVD (GC34-7322)
- CICS PA V5.3 - License Information DVD (GC34-7325)
- CICS Optimization Solution Pack for z/OS, V5.3 - License Information DVD (GC34-7327)
- IBM Knowledge Center for CICS (local install) - License Information DVD (GC34-7460)
- IBM Knowledge Center for CICS DVD (local install for Microsoft Windows, AIX, and Linux) (GC34-7459)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

CICS Tools V5.3 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.

Ordering information

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

Program number	Program name	Value Unit Exhibit
5697-CIC	CICS Configuration Manager for z/OS, V5.3	VUE007
5655-Y22	CICS Interdependency Analyzer for z/OS, V5.3	VUE007
5655-Y29	CICS Deployment Assistant for z/OS, V5.3	VUE007
5655-Y23	CICS Performance Analyzer for z/OS, V5.3	VUE007
5655-CD1	CICS Optimization Solution Pack for z/OS, V5.3	VUE007

For each z Systems 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 z Systems 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

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 z Systems 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 upgrade, 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, refer to the ShopzSeries website at

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

Charge metric

Program name	PID number	Charge metric
CICS CM V5.3	5697-CIC	Per Value Unit
CICS CM - Software Subscription and Support	5697-I79	Per Value Unit
CICS DA V5.3	5655-Y29	Per Value Unit
CICS DA - Software Subscription and Support	5655-W62	Per Value Unit
CICS IA V5.3	5655-Y22	Per Value Unit
CICS IA - Software Subscription and Support	5655-G77	Per Value Unit
CICS PA V5.3	5655-Y23	Per Value Unit
CICS PA - Software Subscription and Support	5655-G43	Per Value Unit
CICS Optimization Solution Pack for z/OS, V5.3	5655-CD1	Per Value Unit
CICS Optimization Solution Pack for z/OS - Software Subscription and Support	5655-CD2	Per Value Unit

Basic license

On/Off CoD

All of the CICS Tools V5.3 products and CICS Optimization Solution Pack for z/OS, V5.3, are eligible for On/Off CoD with a temporary use charge, calculated based on MSUs per-day usage.

Program name: CICS Configuration Manager for z/OS, V5.3

Program PID: 5697-CIC

Entitlement ID	Description	License option/Pricing metric
S0172DR	CICS Configuration Manager for z/OS, V5.3	Basic OTC, Per MSU-day TUC

Program name: CICS Deployment Assistant for z/OS V5.3

Program PID: 5655-Y29

Entitlement ID	Description	License option/Pricing metric
S0172DW	CICS Deployment Assistant for z/OS, V5.3	Basic OTC, Per MSU-day TUC

Program name: CICS Interdependency Analyzer for z/OS, V5.3

Program PID: 5655-Y22

Entitlement ID	Description	License option/Pricing metric
S0172F0	CICS Interdependency Analyzer for z/OS, V5.3	Basic OTC, Per MSU-day TUC

Program name: CICS Performance Analyzer for z/OS V5.3

Program PID: 5655-Y23

Entitlement ID	Description	License option/Pricing metric
S0172F3	CICS Performance Analyzer for z/OS, V5.3	Basic OTC, Per MSU-day TUC

Program name: CICS Optimization Solution Pack for z/OS, V5.3

Program PID: 5655-CD1

Entitlement ID	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.3	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 Configuration Manager for z/OS, V5.3

Program PID: 5697-CIC

Entitlement ID	Description	License option/Pricing metric
S0172DR	CICS Configuration Manager for z/OS V5.3	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 ID	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 Deployment Assistant for z/OS, V5.3

Program PID: 5655-Y29

Entitlement ID	Description	License option/Pricing metric
S0172DW	CICS Deployment Assistant for z/OS, V5.3	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution Medium
S0172DV	English	3590 tape

Subscription and Support PID: 5655-W62

Entitlement ID	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 Interdependency Analyzer for z/OS, V5.3

Program PID: 5655-Y22

Entitlement ID	Description	License option/Pricing metric
S0172F0	CICS Interdependency Analyzer for z/OS, V5.3	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 ID	Description	License option/Pricing metric
S00W1MW	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 Performance Analyzer for z/OS, V5.3

Program PID: 5655-Y23

Entitlement ID	Description	License option/Pricing metric
S0172F3	CICS Performance Analyzer for z/OS, V5.3	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 ID	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 Optimization Solution Pack for z/OS, V5.3

Program PID: 5655-CD1

Entitlement ID	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.3	Basic OTC, Value Units
	Trade up from 5697-CIC (CICS CM)	
	Trade up from 5655-Y29 (CICS DA)	
	Trade up from 5655-Y22 (CICSIA)	
	Trade up from 5655-Y23 (CICS PA)	
Orderable Supply ID	Language	Distribution Medium
S017CZ9	English	3590 tape

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

Subscription and Support PID: 5655-CD2

Entitlement ID	Description	License option/Pricing metric
S017CZF	CICS Optimization Solution Pack 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
S017CZD	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 z Systems 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

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, refer to the Help section on the Shopz website at

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

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 7, 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.

Terms and conditions

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^(R) 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) agreement 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 z Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

License number	Program name
L-APIG-9TKFSG	IBM CICS Configuration Manager for z/OS, V5.3
L-APIG-9TKFW8	IBM CICS Deployment Assistant for z/OS, V5.3
L-APIG-9TKFMC	IBM CICS Interdependency Analyzer for z/OS, V5.3
L-APIG-9TKEXH	IBM CICS Performance Analyzer for z/OS, V5.3
L-APIG-9TKHJL	IBM CICS Optimization Solution Pack for z/OS, V5.3
L-APIG-9U5DA7	IBM Knowledge Center for IBM CICS products V1.5

The programs' License Information documents will be available for review on the IBM Software License Agreement website

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

Trade-in terms for CICS Tools solution packs

IBM may offer trade-in terms for customers who have separately licensed one or more of the individual products that are included in a CICS solution pack, and who wish to trade in the licenses to one or more such individual products when licensing a solution pack. If IBM offers such trade-in terms, then as part of any such trade in, all entitlements to the products being traded in will be terminated. In some cases, the entitlements to the solution packs being licensed by the customer as part of the trade-in arrangement may not be equal to the entitlements being terminated. For example, if the customer holds entitlement to 100 Value Units of product A which has been included in a solution pack, and is trading in its license to product A in return for 90 Value Units of the solution pack, then, in keeping with the specific trade-in terms, the customer agrees to terminate all its entitlements to product A (100 VUs).

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

Yes. During the S&S period, for the unmodified portion of a Program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the Program and documentation.
- Technical assistance: A reasonable amount of remote assistance via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the Customer's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the *IBM Software Supportat*

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

S&S does not include assistance for:

- The design and development of applications
- Customer's use of Programs in other than their specified operating environment, or
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

S&S is provided only if the Program is within its support timeframe as specified in the Software Support Lifecycle policy for the Program.

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, refer to

<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.

For each z Systems 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 z Systems 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 z Systems IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5697-CIC	CICS Configuration Manager for z/OS, V5.3	Reference-based	5655-Y04
5655-Y29	CICS Deployment Assistant for z/OS, V5.3	Reference-based	5655-Y04
5655-Y22	CICS Interdependency Analyzer for z/OS, V5.3	Reference-based	5655-Y04
5655-Y23	CICS Performance Analyzer for z/OS, V5.3	Reference-based	5655-Y04
5655-CD1	CICS Optimization Solution Pack for z/OS, V5.3	Reference-based	5655-Y04

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 z Systems IPLA program with these terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to

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

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

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

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

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

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

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

When a z Systems IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the z Systems 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 z Systems 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 z Systems (or equivalent). On that machine:

- All instances of the OS/390^(R) operating system must be upgraded 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^(R) (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, refer to the z Systems 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 z Systems Workload License Charges(Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM z Systems 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 z Systems z9^(R) and z Systems Programs Sub-Capacity Pricing*(Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous z Systems IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

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

On/Off CoD

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 z Systems On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Statement of good security practices

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.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Now integrated into the base operating system of AIX V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select `Configure Electronic Service Agent`. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in

resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent™ tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool is designed to securely transmit either via the Internet (HTTPS or VPN) or modem to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system.

For additional information, please refer to IBM Electronic Service Agent

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

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or refer to

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

Prices

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or refer to

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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

For more financing information, refer to

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

Order now

To order, contact your Americas Call Centers, local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

Mail:

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Markham, Ontario
Canada L3R 2Z1

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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