



IBM CICS Transaction Server for z/OS feature packs further enhance service agility and operational efficiency by adding support for mobile devices and modern batch

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At a glance

Two new feature packs for CICS® Transaction Server for z/OS® (CICS TS) add support for mobile devices and modern batch:

- CICS TS Feature Pack for Mobile Extensions adds native support for the JSON data interchange format, along with runtime conversion to and from COBOL, C/C++, and PL/I language structures.
- CICS TS Feature Pack for Modern Batch delivers a batch container in CICS that can receive and process job requests alongside online transactions.

Additionally, CICS TS V5.1 is enhanced through the service channel to add support for the JAX-RS and JSON WebSphere® Liberty features. It enables CICS Java™ applications to interact RESTfully with mobile devices and other applications using the JSON data interchange format.

The CICS Explorer® V5.1.1 is updated to support Eclipse 4.2.2 and IBM® Explorer for z/OS (z/OS Explorer), V2.1. The plug-ins for five products in the IBM CICS Tools family are also updated. They deliver some updated capabilities, tolerating the latest CICS Explorer and Eclipse levels, and providing plug-ins in Installation Manager format.

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

Two new feature packs for IBM CICS Transaction Server for z/OS (CICS TS) further enhance service agility and operational efficiency by adding support for mobile applications and modern batch.

CICS TS Feature Pack for Mobile Extensions V1.0 adds support for web service requests with JavaScript™ Object Notation (JSON) and the conversion between JSON and high-level language data structures. Support for JSON greatly simplifies the use of existing CICS services by mobile applications, in particular those managed by IBM Worklight® Server.

CICS TS Feature Pack for Modern Batch V1.0 enables customers to run new Java batch applications in a CICS JVM server. It provides the infrastructure to enable IBM WebSphere Application Server V8.5 or above to schedule CICS applications. This feature pack reduces the need to take critical CICS applications offline in order to process bulk updates in batch efficiently. It helps to ease the pressure on many enterprises' batch window and improves the availability of their online CICS systems.

The CICS TS V5.1 web container is enhanced to enable CICS Java applications to interact in a RESTful manner with mobile devices and other applications that use the JSON data interchange format. This is available as APAR PM85279.

CICS Explorer V5.1.1 is updated to support Eclipse 4.2.2 and IBM Explorer for z/OS (z/OS Explorer), V2.1. The plug-ins for five products in the CICS Tools family are also updated. They deliver some updated capabilities, by tolerating the latest CICS Explorer and Eclipse levels, and providing plug-ins in Installation Manager format.

Key prerequisites

The CICS TS feature packs in this announcement are supported by CICS TS V4.2 and CICS TS V5.1.

For CICS TS V4.2, the minimum required level of operating system is IBM z/OS V1.11 (5694-A01). The minimum required level of Java is IBM 64-bit SDK for z/OS , Java Technology Edition V6.0.1, or later, is required if using Java application programs, enterprise beans, or the CICS Web Services Assistant.

For CICS TS V5.1, the minimum required level of operating system is IBM z/OS V1.13 (5694-A01). The minimum required level of Java is IBM 64-bit SDK for z/OS , Java Technology Edition, V7 SR1.

For further details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

June 14, 2013

Description

Two new feature packs for CICS TS add support for mobile applications and modern batch, and further enhance the service agility improvements introduced in CICS TS V5.1.

CICS TS Feature Pack for Mobile Extensions adds support for RESTful web service requests with JSON and the conversion between JSON and high-level language data structures. Support for JSON greatly simplifies the use of existing CICS services by mobile applications, in particular those managed by IBM Worklight Server.

This feature pack enables new and unchanged existing COBOL, C/C++, and PL/I programs to be JSON enabled web service providers. A batch utility is provided to create COBOL, C/C++, or PL/I language structures and a WSBIND mapping file from an existing JSON schema, or generate a JSON schema and a WSBIND file from existing language structures. Requests received by CICS are processed in a web service pipeline and the WSBIND file is used to transform the datastreams.

If customers are on earlier releases of CICS TS and wish to expose CICS programs to mobile applications through IBM Worklight , then they can use SOAP, or write an

adapter program that uses the Web API and processes one of the above formats themselves. Both of these are available in CICS TS V3.1, or later.

CICS TS Feature Pack for Modern Batch enables new Java batch applications to efficiently process large amounts of data in CICS along side existing online workloads. The Java batch applications are scheduled and monitored by WebSphere Application Server for z/OS , V8.5 or WebSphere Application Server V8.5 and execute in the CICS JVM server. The feature pack will regularly commit the resource updates made by the batch application together with the job state and progress information. This frees the resources for use by other applications, and if in the case of failures, to restart the batch application from the most recent successful commit point.

Customers who use CICS SupportPac *CN11: CICS TS support for WebSphere eXtended Deployment Compute Grid* are advised to upgrade to this feature pack, which is fully supported and provides additional capabilities.

The CICS TS V5.1 web container is enhanced to enable CICS Java applications to interact in a RESTful manner with mobile devices and other applications using the JSON data interchange format. This is made available as APAR PM85279.

CICS Explorer V5.1.1 is updated to support for Eclipse 4.2.2 and z/OS Explorer V2.1. The plug-ins for the following products in the CICS Tools family are also updated. They deliver some updated capabilities, tolerating the latest CICS Explorer and Eclipse levels, and providing plug-ins in Installation Manager format:

- CICS Configuration Manager for z/OS , V5.1.1
- CICS Deployment Assistant for z/OS , V5.1.1
- CICS Interdependency Analyzer for z/OS , V5.1.1
- CICS Performance Analyzer for z/OS , V5.1.1
- CICS Transaction Gateway for z/OS , V9.0.1

z/OS Explorer, previously an integral part of CICS Explorer , is now available as a separate component. It delivers unified, extensible, workstation connectivity to key IBM z/OS functionality by providing simple and secure access to z/OS datasets, zFS files, and JES jobs, and output from within an Eclipse-based Rich Client Platform (RCP). For more details on the z/OS Explorer, refer to Software Announcement [213-141](#), dated April 23, 2013.

Accessibility by people with disabilities

A US 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

Section 508 of the US Rehabilitation Act

CICS TS Feature Pack for Mobile Extensions V1.0 and CICS TS Feature Pack for Modern Batch V1.0 are capable as of June 14, 2013, when used in accordance with IBM associated 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

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 [Technical information](#) section.

Product positioning

IBM has a long history of delivering technologies that allow the reuse and service enablement of CICS applications, extending the reach of core CICS business applications to new channels. Access to core enterprise assets from mobile devices has rapidly become mainstream, with core CICS technologies such as XML, Web Services, HTML, and RESTful services playing a significant part in this evolution. Feature Packs for CICS TS deliver important new capabilities in a fully-supported manner outside of the normal release cycle.

As the mobile market has evolved and matured, JSON has emerged as the leading data interchange format between mobile devices and enterprise servers, delivering a powerful and flexible payload format without the formality of web services interfaces. Building on the proven CICS web services infrastructure, the CICS TS Feature Pack for Mobile Extensions delivers the ability to send and receive JSON payloads and to convert those payloads at run time to COBOL, C/C++, and PL/I language structures.

CICS applications often need to be taken offline to process bulk updates in batch efficiently. This puts pressure on many enterprises' batch window, often affecting the availability of their online CICS systems.

The Modern Batch Feature Pack enables CICS TS V4.2 and CICS V5.1 to act as a first-class batch container for work scheduled by WebSphere Application Server V8.5, which includes Compute Grid. Advanced development tools on the

workstation, such as CICS Explorer , Rational® Application Developer, and Rational Developer for System z can be used to develop these types of applications.

Statement of direction

IBM makes the following statements of general direction:

- IBM intends to deliver a new version of the IBM CICS Transaction Server (CICS TS) Feature Pack for Dynamic Scripting. This new version of the feature pack will add PHP support to CICS TS V5.1. Existing releases of this Feature Pack already provide PHP support for CICS TS V4.1 and CICS TS V4.2.
- IBM intends to deliver a new CICS TS Feature Pack for Security Token Extensions. This new feature pack will provide support for the open standard Security Assertion Markup Language (SAML) data format for exchanging authentication and authorization data between CICS TS and other parties.

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.

Reference information

For further information on CICS TS V5.1, refer to Software Announcement [212-325](#), dated October 3, 2012.

For further information on IBM Explorer for z/OS , V2.1, refer to Software Announcement [213-141](#), dated April 23, 2013.

For further information on IBM Worklight V6.0, refer to Software Announcement [213-147](#), dated April 23, 2013.

Program number

Program number	VRM	Program name
5655-Y48	1.0	IBM CICS TS Feature Pack for Mobile Extensions
5655-Y53	1.0	IBM CICS TS Feature Pack for Mobile Extensions Subscription and Support
5655-Y50	1.0	IBM CICS TS Feature Pack for Modern Batch
5655-Y51	1.0	IBM CICS TS Feature Pack for Modern Batch Subscription and Support

Product identification number

Program PID number	Subscription and Support PID number
5655-Y48	5655-Y53
5655-Y50	5655-Y51

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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-177>

Publications

The IBM Publications Center

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

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 US) 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.

The following Program Directories are available as softcopy only and can be downloaded from the Publications Center:

Publication	Form number
CICS TS Feature Pack for Mobile Extensions V1.0	GI13-3322
CICS TS Feature Pack for Modern Batch V1.0	GI13-3324

The following translated editions of the What's New publication are also available in softcopy only, from the IBM Publications Center:

Title	Form number
What's New (Brazilian Portuguese)	G517-0216
What's New (Japanese)	GA88-4839
What's New (Simplified Chinese)	G151-1833
What's New (Spanish)	GC11-8127

z/OS software products collection kit: The collection kit contains books in PDF format for a range of IBM z/OS products, including members of the CICS family, and is available for download from the Publications Center (current form number SK3T-4271). Visit

<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

Technical information

Specified operating environment

Hardware requirements

Processor: CICS TS runs on any IBM System z machine that supports the required z/OS operating system.

Parallel Sysplex® support: A Parallel Sysplex environment is not required for CICS TS but can be exploited by each of the following data-sharing facilities supported by CICS , and by the usage of the MVS™ system logger's log stream merging facility:

- CICS temporary storage
- Coupling facility data tables
- DB2® databases
- IMS™ databases
- Named counter server
- VSAM data sets

System z cryptographic hardware: If the customer wants to exploit signature verification functions with WS-Security, then appropriate System z cryptographic hardware is required. For System z 800 and 900, this hardware is the Cryptographic Coprocessor Feature and the PCI Cryptographic Coprocessor. For System z 890, 990, z9® and z10™ , it is the CP Assist for Cryptographic Functions and the Crypto Express® 2 Coprocessor. For System z196 it is CP Assist for Cryptographic Functions and the Crypto Express 3 Coprocessor. For zEnterprise® EC12 it is the CP Assist for Cryptographic Functions and the Crypto Express4S.

Katakana terminal devices: CICS TS has to issue certain messages in mixed-case, and is therefore not supported with displays or terminal emulators that are restricted to the non-extended, single-byte character set (SBCS) Katakana part of code page 930.

Software requirements

Operating environment

For CICS TS V4.2:

- IBM z/OS V1.11 or later is required. CICS TS V4.2 will not initialize in an environment with a lower level of operating system.
- APAR PM82511 must be applied in order for CICS TS Feature Pack for Mobile Extensions V1.0 and CICS TS Feature Pack for Modern Batch V1.0 to operate.

For CICS TS V5.1:

- IBM z/OS V1.13 or later is required. CICS TS V5.1 will not initialize in an environment with a lower level of operating system.
- APAR PM82519 must be applied in order for CICS TS Feature Pack for Mobile Extensions V1.0 and CICS TS Feature Pack for Modern Batch V1.0 to operate.

Java Runtime Environment

For CICS TS V4.2, the IBM 64-bit SDK for z/OS , Java Technology Edition V6.0.1, or later, is required if using Java application programs, enterprise beans, or the CICS Web Services Assistant.

For CICS TS V5.1, the IBM 64-bit SDK for z/OS , Java Technology Edition V7 SR1, or later, is required if using Java application programs, the CICS Web Services Assistant, or the CICS XML Assistant.

The IBM SDK for z/OS is available, without charge, on tape or by download. Visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

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.

Limitations

For additional information, refer to [Usage restriction](#) in the [Terms and conditions](#) section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

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

User group requirements

Customer and User Group requirements

Requirements for CICS TS, and Feature Packs for CICS TS can be created, viewed, and voted for in the IBM Request For Enhancement (RFE) community. Visit

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

Planning information

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

Packaging

Physical delivery

The following hardcopy documents and CD-ROM are shipped, together with the basic machine-readable material for the product:

- CICS Transaction Server Feature Pack for Mobile Extensions V1.0 License Information CD (GC34-2931)
- CICS Transaction Server Feature Pack for Modern Batch V1.0 License Information CD (GC34-2933)
- CICS Information Center Flyer (GI13-3302)

Certain other items, such as specification sheets of related IBM products, might be included.

Electronic and physical delivery

To download a CICS Information Center, visit the IBM Publications Center. Search for the form number, then select download. Visit

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

If preferred, a CD-ROM of the required Information Center can be ordered (for a fee). The latest orderable versions will be published on July 12, 2013.

- CICS Information Center for AIX® (SK4T-2692)
- CICS Information Center for Linux™ Intel™ (SK4T-2693)
- CICS Information Center for Microsoft™ Windows™ (SK4T-2694)
- CICS Information Center for z/OS (SK4T-2695)

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 TS feature packs use the security and auditability features of the supported underlying operating systems. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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/>

Ordering information

Ordering z/OS through the Internet

Shopz 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). Shopz is available in the US and several countries in Europe. In countries where Shopz 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 Shopz website at

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

Charge metric

Program name	PID number	Charge metric
CICS TS Feature Pack for Mobile Extensions V1.0	5655-Y48	Unlimited Installs
CICS TS Feature Pack for Mobile Extensions - Software Subscription & Support	5655-Y53	Unlimited Installs
CICS TS Feature Pack for Modern Batch V1.0	5655-Y50	Unlimited Installs
CICS TS Feature Pack for Modern Batch - Software Subscription & Support	5655-Y51	Unlimited Installs

Basic license

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 TS Feature Pack for Mobile Extensions V1.0
Program PID: 5655-Y48

Entitlement identifier	Description	License option/Pricing metric
S0177DL	CICS TS Feature Pack for Mobile Extensions V1.0	No charge Unlimited installs

Orderable supply ID	Language	Distribution medium
S0177DK	English	3590 Tape

Subscription and Support PID: 5655-Y53

Entitlement identifier	Description	License option/Pricing metric
S0177F1	CICS TS Feature Pack for Mobile Extensions Subscription & Support	No charge, Unlimited installs SW S&S registration

Orderable supply ID	Language	Distribution medium
S0177F0	English	Hardcopy publication

Program name: CICS TS Feature Pack for Modern Batch V1.0
Program PID: 5655-Y50

Entitlement identifier	Description	License option/Pricing metric
S0177DT	CICS TS Feature Pack for Modern Batch V1.0	No charge Unlimited installs

Orderable supply ID	Language	Distribution medium
S0177DS	English	3590 Tape

Subscription and Support PID: 5655-Y51

Entitlement identifier	Description	License option/Pricing metric
S0177DX	CICS TS Feature Pack for Modern Batch Subscription & Support	No charge, Unlimited installs SW S&S registration

Orderable supply ID	Language	Distribution medium
S0177DW	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. 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

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries 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>

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

License Information form number

Program name	LI Form Number
CICS TS Feature Pack for Mobile Extensions V1.0	L-ACRR-95GGCG
CICS TS Feature Pack for Modern Batch V1.0	L-ACRR-95GJSA

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

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

Usage restriction

Yes

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>

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

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.

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

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 TS Feature Pack for Mobile Extensions V1.0

Program PID: 5655-Y48

Entitlement identifier	Description	License option/Pricing metric
S0177DL	CICS TS Feature Pack for Mobile Extensions V1.0	No charge unlimited installs
Orderable supply ID	Language	Distribution medium
S0177DK	English	3590 Tape

Subscription and Support PID: 5655-Y53

Entitlement identifier	Description	License option/Pricing metric
S0177F1	CICS TS Feature Pack for Mobile Extensions Subscription & Support	No charge, Unlimited installs SW S&S registration

Orderable supply ID	Language	Distribution medium
S0177F0	English	Hardcopy publication

Program name: CICS TS Feature Pack for Modern Batch V1.0
Program PID: 5655-Y50

Entitlement identifier	Description	License option/Pricing metric
S0177DT	CICS TS Feature Pack for Modern Batch V1.0	No charge Unlimited installs

Orderable supply ID	Language	Distribution medium
S0177DS	English	3590 Tape

Subscription and Support PID: 5655-Y51

Entitlement identifier	Description	License option/Pricing metric
S0177DX	CICS TS Feature Pack for Modern Batch Subscription & Support	No charge, Unlimited installs SW S&S registration

Orderable supply ID	Language	Distribution medium
S0177DW	English	Hardcopy publication

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 visit

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