



IBM DB2 Analytics Accelerator Loader for z/OS, V2.1 leverages the security of IBM z/OS and the analytic capabilities of IBM DB2 Analytics Accelerator for z/OS

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At a glance

IBM^(R) DB2^(R) Analytics Accelerator Loader for z/OS^(R), V2.1 (5639-OLE) enables users to quickly load data from DB2 for z/OS and from external sources into IBM DB2 Analytics Accelerator for z/OS ("the Accelerator"). This new version provides new features to facilitate the loading of non-DB2 data into the Accelerator.

Overview

DB2 Analytics Accelerator Loader for z/OS, V2.1 (5639-OLE) extends the analytic capabilities of the DB2 Analytics Accelerator for z/OS with the ability to easily and efficiently bring non-DB2 data from other sources to the Accelerator and IBM z SystemsTM servers. The combined use of the Accelerator, z SystemsTM servers, and the DB2 Analytics Accelerator Loader for z/OS provides a single location with combined data sources such as IBM IMSTM, VSAM, sequential files, and Oracle to deliver faster insights for enhanced decision making and lower storage costs.

DB2 Analytics Accelerator Loader for z/OS, V2.1 provides these benefits:

- Minimized application impact when loading or refreshing external DB2 for z/OS data by loading in parallel to both DB2 for z/OS and DB2 Analytics Accelerator.
- Increased flexibility when performing business analytics by enabling the load of a consistent set of data with a historical point-in-time into DB2 Analytics Accelerator for query consideration.
- A z Systems solution to quickly load data directly to the Accelerator from many different data sources, including IMS, VSAM, sequential files, and Oracle, without the need to land or stage the data in intermediate files. The entire process from data extraction, conversion, and loading is automated in a single batch job step.
- An easy-to-use SQL interface to identify data to be loaded into the Accelerator, including the ability to join and load data from multiple sources to a single Accelerator table.
- Potential further reduction in CPU cost associated with data loading into DB2 Analytics Accelerator as DB2 Analytics Accelerator Loader directs such processing to be executed under an enclave Service Request Block and such processing is authorized to execute on a zIIP specialty engine¹
- Support for IBM Change Data Capture for z/OS (CDC) replication when loading to both a DB2 table and an Accelerator table.

- The ability to append data to an existing table. This LOAD RESUME capability can help to reduce elapsed time and CPU consumption by avoiding the need to reload the entire table to include the new data to be loaded.
 - The ability to automatically create the table on the DB2 Analytics Accelerator if it does not exist and to enable the table for acceleration after the load is successful. This can help to improve user efficiency and may reduce the manual steps required to prepare a table on the appliance for acceleration.
- 1** This information provides only general descriptions of the types and portions of workloads that are eligible for execution on specialty engines (SEs). IBM authorizes customers to use IBM SEs such as zIIPs, zAAPs, and IFLs only to execute the processing of Eligible Workloads of specific programs expressly authorized by IBM as specified in the [Authorized Use Table for IBM Machines](#) (AUT). No other workload processing is authorized for execution on an SE. IBM offers SEs at a lower price than General Processors/Central Processors because customers are authorized to use SEs only to process certain types or amounts of workloads as specified by IBM in the AUT.

Key prerequisites

IBM DB2 Analytics Accelerator for z/OS, V2.1 requires a z196, or higher, processor. Refer to the [Hardware requirements](#) and [Software requirements](#) sections for details.

Planned availability date

February 12, 2016

Description

DB2 Analytics Accelerator Loader for z/OS, V2.1 enables you to load operational DB2 for z/OS data into Analytics Accelerator for z/OS. This minimizes the application impact when loading related tables into DB2 Analytics Accelerator. It also gives you the flexibility to specify a historical point-in-time as of which you want a consistent set of data to be loaded into DB2 Analytics Accelerator to meet your business needs. DB2 Analytics Accelerator will use existing recovery assets to establish this consistent point-in-time data and then load it into the Accelerator. All of these features are available from the enhanced and improved task-based ISPF panel interface.

In addition to DB2 for z/OS operational data, you can also load data from external sources with DB2 Analytics Accelerator Loader. Sources include data from other DB2 for z/OS systems, such as VSAM and IMS, and non-mainframe data, such as Oracle, to facilitate enterprise business analytics on System z^(R).

Version 2 introduces a new feature that simplifies the process of mapping the non-DB2 data source and directly loading the data into the Accelerator in a more streamlined and efficient manner. This new feature for loading non-DB2 data sources is supported from a modern GUI. As an alternative, when data has been extracted from another source into a format that is compatible with the IBM DB2 LOAD utility, it can then be loaded into DB2 for z/OS and also into DB2 Analytics Accelerator using the ISPF interface. This type of load operation may be performed in parallel, which may improve availability and reduce system resources, such as CPU.

The DB2 Analytics Accelerator Loader for z/OS allows SQL access to many data sources on and off z/OS for the purposes of loading data into the Accelerator. The initial list of supported data sources includes DB2, VSAM data sets, physical sequential data sets, and distributed relational database architecture (DRDA^(R)) data sources such as Oracle. The data that matches the SQL result set is extracted directly from the data sources and converted into the required format in memory and loaded into the Accelerator in one step. This eliminates the manual process required in the previously announced DB2 Analytics Accelerator Loader for z/OS product.

The entire process of reading the source data, converting it to the necessary format, and loading the data to the Accelerator is performed without landing or staging the data into intermediate datasets. This in-memory process can help to lower the cost of loading data to the Accelerator.

All of the DB2 features from the first DB2 Analytics Accelerator Loader for z/OS product are available from the enhanced and improved task-based ISPF panel interface. Users will still be able to load data directly into the DB2 Analytics Accelerator from a flat file that users created for external data. Users will also still be able to load historic data or consistent data into the Accelerator without impacting production objects.

Support for LOAD RESUME and Change Data Capture (CDC) are among the features included in this new product. The additional non-DB2 data sources are supported from a modern GUI.

LOAD RESUME support has been added to enable appending data to tables on the Accelerator en masse. This capability can help to reduce CPU consumption and elapsed time involved without reloading all table data into the Accelerator.

Integration with CDC has been implemented to enable replicated tables to be loaded in a more streamlined manner. This process improvement enables DBAs to administer all of their tables on the Accelerator in the same manner without treating these tables with exception.

Automated load for non-DB2 and off z/OS data

With DB2 Analytics Accelerator Loader for z/OS, users will be able to load data from sources other than DB2 and from platforms other than z/OS. Using the DB2 Analytics Accelerator Loader GUI, users will be able to quickly and efficiently select the data source, map it to the table on the DB2 Analytics Accelerator, and generate JCL to load the data.

Enhanced load from an external file

DB2 Analytics Accelerator Loader for z/OS users will still be able to use a file created by an UNLOAD utility for DB2 data as input into the load process through the ISPF panels. Now users can also use a file compatible with the LOAD utility that contains data from an external source. Users will still be able to optionally load DB2 in parallel with the DB2 Analytics Accelerator for z/OS. DB2 Analytics Accelerator Loader for z/OS removes the requirement to first load the data into DB2 before loading the data onto the Accelerator, which can result in less CPU consumption.

Consistent Data Load and Historic Data Load

Users will still be able to use the Consistent Data Load and Historic Data Load features through the ISPF panels. Users will be able to use the last full image copy of an object on DB2 and apply log records up to the current time or to a consistent historical time for multiple objects. DB2 Analytics Accelerator Loader for z/OS loads the data without stopping update activity to production tables.

Loading from an image copy has been extended to allow loading from a regular full image copy (SHRLEVEL REFERENCE) that originated from a DB2 for z/OS system that is not connected to the Accelerator that is to be loaded. This can help users to consolidate data from different DB2 for z/OS systems into the Accelerator without expending additional resources to first unload the data, and to reuse existing recovery assets.

A solution from end to end

DB2 Analytics Accelerator Loader for z/OS provides an automated solution that can help users to quickly load data from DB2 and non-DB2 sources onto the DB2 Analytics Accelerator without interrupting access to production objects. This is accomplished while reducing the complexities of the extract and load process, and can help reduce CPU consumption and elapsed time.

The DB2 Analytics Accelerator Loader for z/OS can help users to load non-DB2 data in a more streamlined and efficient manner. In addition to DB2 for z/OS, it can help users to load data from non-DB2 and remote DB2 for z/OS sources into the Accelerator with less effort and time.

Program number

Program number	VRM	Program name
5639-OLE	2.1.0	IBM DB2 Analytics Accelerator Loader for z/OS
5639-OLB	1.1.0	IBM DB2 Analytics Accelerator Loader for z/OS Subscription and Support

Product identification number

Program PID number	Subscription and Support PID number
5639-OLE	5639-OLB

Offering Information

Product information is available on the [IBM Offering Information](#) website.

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 216-015](#)

Publications

The following publications are shipped with the products in this announcement:

Title	Order number
IBM DB2 Analytics Accelerator Loader for z/OS, V2.1 (5639-OLE)	
License Information	GC27-6776
Program Directory	GI13-4613

The following publications for the product in this announcement cannot be ordered in hardcopy. These publications will be available on the product availability dates, on the [DB2 Tools Product Documentation page](#).

Title	Order number
DB2 Analytics Accelerator Loader for z/OS, V2.1	
User's Guide	SC27-6777

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, go to the [IBM Software Services](#) website.

Technical information

Specified operating environment

Hardware requirements

The products in this announcement requires a z196, or higher, processor hardware configuration that supports the required versions of DB2 and z/OS.

Software requirements

Mandatory installation requirements

IBM DB2 Analytics Accelerator Loader for z/OS, V2.1 (5639-OLE) requires:

- z/OS, V1.13 (5694-A01), with the following PTFs:
 - UA75045
 - UA75272
- z/OS, V2.1 (5650-ZOS), or later, with the following PTFs:
 - UA75046
 - UA75273
- z/OS, V2.2 (5650-ZOS), or later
- IBM SMP/E for z/OS, V3.6 (5655-G44), or later
One of the following:
 - IBM DB2 for z/OS, V10.1 (5605-DB2)
 - IBM DB2 for z/OS Value Unit Edition, V10.1 (5697-P31) with the following PTFs applied
 - AI25214
 - PI10162
 - PM93789
 - UI24304
 - UI24305
 - IBM DB2 for z/OS, V11.1 (5615-DB2)
 - IBM DB2 for z/OS Value Unit Edition, V11.1 (5697-P43)
 - AI26321
 - PI10162
 - UI24306
 - UI24308

FEC Common Code 1.3 (FMID H25F132) with the latest maintenance level

Mandatory operational requirements

DB2 Analytics Accelerator Loader for z/OS, V2.1 requires:

- One of the following:
 - IBM DB2 Analytics Accelerator for z/OS, V3.1 (5697-DAA)
 - IBM DB2 Analytics Accelerator for z/OS, V4.1 (5697-DAB)
 - IBM DB2 Analytics Accelerator for z/OS, V5.1 (5697-DA5)
- The Change Data Capture (CDC) and the LOAD RESUME features require DB2 Analytics Accelerator for z/OS, V4.1 with PTF 5, or a later version of the product.
- IBM DB2 Utilities Suite for z/OS, V10.1 (5655-V41), or later.
- IBM DB2 Tools Base for z/OS, V1.4 (5655-V93), or later.
- IBM Data Studio for z/OS, V4.1 (5724-DST) available for download at the [Shopz](#) website.
- One of the following:
 - IBM DB2 for z/OS, V10 (5605-DB2)
 - IBM DB2 for z/OS Value Unit Edition, V10.1 (5697-P31)
 - IBM DB2 for z/OS, V11.1 (5615-DB2)
 - IBM DB2 for z/OS Value Unit Edition, V11.1 (5697-P43)
- For post-installation customization, FMID HTCZ110 IBM Tools Customizer for z/OS at the latest maintenance level is required. It is delivered in IBM Tools Base, V1.4 (5655-V93), or later.

Conditional operational requirements

DB2 Analytics Accelerator Loader for z/OS, V2.1 requires:

- To load data from distributed relational database architecture (DRDA) sources, one of the following is required:
 - IBM DB2 Advanced Enterprise Server Edition, V10.5 (5725-L47)
 - IBM InfoSphere^(R) Federation Server, V9.7 (5724-N97)
 - IBM InfoSphere BigInsights^(R) (IBM Big SQL), V1.0 (5725-C09)

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 programs in this announcement are distributed with the following content:

- Basic machine-readable material
- Program Directory
- IBM International Program License Agreement (IPLA)
- IBM Agreement for Acquisition of Software Maintenance (IAASM)

Security, auditability, and control

The programs in this announcement use the security and auditability features of the host operating system software.

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

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 go to the [Shopz](#) website.

Charge metric

Program name	Part number or PID number	Charge metric
IBM DB2 Analytics Accelerator Loader for z/OS	5639-OLE	Per PVU

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip (socket). A dual-core processor chip, for example, has two processor cores. The PVU table can be found on the [PVU licensing for Distributed Software](#) page. Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage^(R) Sub-Capacity Licensing Terms found on the [Virtualization Capacity License Counting Rules](#) page. If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores² in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules that can be found on the [Virtualization Capacity License Counting Rules](#) page.

²

An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes:

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

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: IBM DB2 Analytics Accelerator Loader for z/OS

Program PID: 5639-OLE

Entitlement identifier	Description	License option/Pricing metric
S017WT8	DB2 Analytics Accelerator Loader for z/OS, V2	Basic OTC, per PVU
Orderable supply ID	Language	Distribution medium
S017WT7	US English	3590 Tape cartridge

Subscription and Support PID: 5639-OLB

Entitlement identifier	Description	License option/Pricing metric
S017B80	DB2 Analytics Accelerator Loader for z/OS, S&S	Basic ASC, per PVU
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017B7Z	US English	Hardcopy pub

Customized Offerings

Product deliverables are shipped only through 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, go to the Help section on the [Shopz](#) website.

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 through 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, go to the Help section on the [Shopz](#) website.

For additional information about 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 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 following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

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 Information: GC27-6776

The program's License Information will be available for review on the [License Information documents](#) website.

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, see the [IBM Software 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 by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the [IBM Software Support Handbook](#).

S&S does not include assistance for:

- The design and development of applications
- Organization's use of program 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, go to the [Supported product list](#) website.

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

Yes

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 lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

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

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: IBM DB2 Analytics Accelerator Loader for z/OS

Program PID: 5639-OLE

Entitlement identifier	Description	License option/Pricing metric
S017WT8	DB2 Analytics Accelerator Loader for z/OS, V2	Basic OTC, per PVU
Orderable supply ID	Language	Distribution medium
S017WT7	US English	3592 Tape cartridge

Subscription and Support PID: 5639-OLB

Entitlement identifier	Description	License option/Pricing metric
S017B80	DB2 Analytics Accelerator Loader for z/OS, S&S	Basic ASC, per PVU
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017B7Z	US English	Hardcopy pub

Information about charges is available at the [Support Portal](#) website.

Variable charges: The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use.

If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

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Order now

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

For IBM representative: callserv@ca.ibm.com

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

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Reference:

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Note: Shipments will begin after the planned availability date.

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<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on February 15, 2017)

The Key prerequisites section and the Hardware requirements section were revised.

(Corrected on February 10, 2016)

The entitlement identifier was revised for IBM DB2 Analytics Accelerator Loader for z/OS Subscription & Support, V1.1.0 (5639-OLB).