

Technology Transition Offerings for the IBM z15 offer price-performance advantages

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Overview

Complementing the information in Hardware Announcement [AG19-0032](#), dated September 12, 2019, for the IBM^(R) z15 server, the following is delivered:

- A new Technology Transition Offering (TTO) called Technology Update Pricing for the z15 (TU7)
- One new (TC5) and two revised (TC4 and TC3) Transition Charges for Sysplexes or Multiplexes TTOs for actively coupled Parallel Sysplexes (z/OS^(R)), Country Multiplexes, and Loosely Coupled Complexes (z/TPF)

Technology Update Pricing for the z15 uses the reporting mechanisms and existing Millions of Service Units per hour (MSU) tiers of the Advanced Workload License Charges (AWLC) or Country Multiplex License Charges (CMLC) pricing metrics while extending the software price-performance provided for the z15.

Four Technology Transition Offerings apply only to eligible z/OS and z/TPF operating systems and their associated middleware programs (see the [Programs eligible for AWLC and CMLC](#) section) when running in the following configurations:

- On a stand-alone z15 server
- In an aggregated z/OS Parallel Sysplex^(R) or Country Multiplex, referred to as sysplex, with a z15 server
- In an aggregated z/TPF Loosely Coupled Complex, which is referred to as a complex, with a z15 server

Benefits of Technology Update Pricing for the z15:

- Reduces AWLC or CMLC pricing on the z15 as compared to AWLC or CMLC on the IBM z14TM or z13^(R), IBM zEnterprise^(R) EC12 (zEC12), and IBM zEnterprise 196 (z196) servers with greater than 3 MSUs.
- Offers sub-capacity or full-capacity implementation.

If you are operating a single, stand-alone z15 server, you may elect Technology Update Pricing for the z15 or Parallel Sysplex License Charges (PSLC) that are subject to all applicable terms and conditions.

If you are operating only z15 servers in an actively coupled z/OS Parallel Sysplex, Country Multiplex, or z/TPF Loosely Coupled Complex, you may elect aggregated Technology Update Pricing for the z15 or aggregated Parallel Sysplex License Charges (PSLC). Both options are subject to all applicable terms and conditions.

Benefits of new and revised Transition Charges for Sysplexes:

- Offers actively coupled Parallel Sysplexes, Country Multiplexes, and Loosely Coupled Complexes with different generations of server hardware technology partial benefits of Technology Update Pricing for the z15.

- Offers sub-capacity or full-capacity implementation.

The **Transition Charges for Sysplexes or Multiplexes (TC5)** program provides a reduction in aggregated AWLC or CMLC as you upgrade to z15 servers within actively coupled Parallel Sysplexes, Country Multiplexes, or Loosely Coupled Complexes with a mix of IBM Z^(R) server technologies that include one or more z15 servers with one or more z14 (all models) servers.

The **Transition Charges for Sysplexes or Multiplexes (TC4)** program provides a reduction in aggregated AWLC or CMLC as you upgrade to z15 servers within actively coupled Parallel Sysplexes, Country Multiplexes, or Loosely Coupled Complexes with a mix of Z server technologies that include one or more z15, z14 (all models), z13, or z13s^(R) servers.

The **Transition Charges for Multiplexes (TC3)** program provides a reduction in aggregated CMLC as you upgrade to z15 servers within actively coupled Country Multiplexes with a mix of Z server technologies that include one or more z15, z14 (all models), z13, z13s, zEC12, or zBC12 servers

Aggregated Technology Update Pricing for the z15 is not available for actively coupled Parallel Sysplexes, Country Multiplexes, or Loosely Coupled Complexes until all of the servers in the sysplex, multiplex, or complex are upgraded to z15 servers.

Key requirements

- Technology Update Pricing for the z15 is available only for:
 - Single, stand-alone z15 servers
 - Actively coupled z/OS Parallel Sysplexes that consist only of z15 servers
 - Country Multiplexes that consist only of z15 servers
 - z/TPF Loosely Coupled Complexes that consist only of z15 servers
- Technology Update Pricing for the z15 and Transition Charges for Sysplexes or Multiplexes apply only to specified eligible software programs that are included in the [Programs eligible for AWLC and CMLC](#) section.

Effective date

September 12, 2019

Description

Four TTOs consist of:

- Technology Update Pricing for the z15
- One new and two revised Transition Charges for Sysplexes or Multiplexes programs

Within this announcement, a "TTO-eligible environment" refers to eligible z/OS and z/TPF operating systems and their associated middleware programs, which are listed in the Programs eligible for [Programs eligible for AWLC and CMLC](#) section, and running in the following configurations priced with AWLC or CMLC:

- On a stand-alone z15 server
- In a Country Multiplex with a z15 server
- In an aggregated z/OS Parallel Sysplex with a z15 server
- In an aggregated z/TPF Loosely Coupled Complex with a z15 server

Technology Update Pricing for the z15 (TU7)

z15 servers that receive a reduction to AWLC or CMLC pricing, which is called Technology Update Pricing for the z15, are those that are:

- Stand-alone z15 servers that are priced with AWLC
- All servers in an actively coupled Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex

Technology Update Pricing for the z15 is a monthly-license-charge price structure that is available for eligible software programs that run on a z15 server. The pricing update applies to z/OS operating system software and many of its associated middleware software programs, such as:

- IBM CICS^(R)
- IBM Db2^(R)
- IBM IMS

Technology Update Pricing for the z15 also applies to z/TPF and its associated z/TPFDF monthly-license-charge programs. Other IBM operating systems and associated middleware software programs continue to be licensed and priced that are based on previously announced charge structures.

For details, see the [Programs eligible for AWLC and CMLC](#) section.

As an enhancement to AWLC that was previously announced in Software Announcement [AP10-0220](#), dated July 22, 2010, Technology Update Pricing for the z15 may be implemented in full-capacity or sub-capacity mode under the previously announced terms.

- Full-capacity
Monthly charges for Technology Update Pricing for the z15-priced programs are based on the total MSU capacity of the z15 server. To view the IBM MSU ratings for the z15 servers, see the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.
- Sub-capacity
Monthly charges for Technology Update Pricing for the z15-priced software programs are based on the highest number of MSUs utilized by the combined Logical Partitions (LPARs) in which the Technology Update Pricing for the z15 program executes during a reporting period. LPAR MSU utilization is measured by the Sub-Capacity Reporting Tool (SCRT) by using the highest observed rolling, four-hour average MSUs utilization. If you choose sub-capacity, pricing must use SCRT to generate sub-capacity reports and submit these reports to IBM each month. Additional client responsibilities under sub-capacity pricing are specified in the:
 - IBM Attachment for IBM System z^(R) AWLC (Z125-8538)
 - IBM Attachment for IBM Country Multiplex Pricing (Z126-6965)

For more information about SCRT, see the **Sub-capacity Corner** section of the [IBM Z software pricing tools](#) website.

Schedule of AWLC and CMLC reductions for Technology Update Pricing for the z15 (TU7)

Quantity of z15 full-capacity MSUs for a stand-alone server, or the sum of full-capacity MSUs in an actively coupled z/OS Parallel Sysplex, Country Multiplex, or z/TPF Loosely Coupled Complex made up entirely of z15 servers	Reduction in monthly AWLC or CMLC
1 - 3 MSUs	0.0 %
4 - 45 MSUs	8.0 %

Quantity of z15 full-capacity MSUs for a stand-alone server, or the sum of full-capacity MSUs in an actively coupled z/OS Parallel Sysplex, Country Multiplex, or z/TPF Loosely Coupled Complex made up entirely of z15 servers	Reduction in monthly AWLC or CMLC
46 - 315 MSUs	16.0 %
316 - 1315 MSUs	18.0 %
1316 - 2676 MSUs	20.0 %
2677 - 5476 MSUs	24.0 %
5477 - more MSUs	28.0 %

The number of MSUs that are used to determine either the MSUs of a stand-alone z15 server or the total MSUs of a z15 Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex is based on the announced IBM full-capacity ratings that can be found on the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.

Transition Charges for Sysplex offerings

Transition Charges for Sysplexes or Multiplexes (TC5)

When two or more servers comprise a TTO-eligible environment that consists of only one or more z15 servers with one or more z14 (all models) servers, those servers receive a reduction to AWLC or CMLC pricing. This reduction provides a portion of the price-performance benefit related to Technology Update Pricing for the z15 that is based on the total full-capacity MSUs of all z15 and z14 machines in the TTO-eligible environment.

The number of MSUs used to determine the total MSUs for the Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex is based on the announced IBM full-capacity ratings that can be found on the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.

Schedule of AWLC and CMLC reductions for Transition Charges for Sysplexes or Multiplexes (TC5)

Quantity of z15 and z14 (all models) full-capacity MSUs in an actively coupled Parallel Sysplex or Country Multiplex	Reduction in monthly AWLC or CMLC
1 - 3 MSUs	0.0 %
4 - 45 MSUs	7.0 %
46 - 315 MSUs	14.0 %
316 - 1315 MSUs	16.0 %
1316 - 2676 MSUs	17.0 %
2677 - 5476 MSUs	21.0
5477 - more MSUs	24.0 %

Transition Charges for Sysplexes or Multiplexes (TC4)

The Transition Charges for Sysplexes or Multiplexes (TC4) offering that was previously announced in Software Announcements [AP12-0297](#), dated August 28, 2012, and [AP12-0413](#), dated October 3, 2012, is updated to include the z15.

When two or more servers comprise a TTO-eligible environment that consists of only one or more z15 servers with one or more z14 (all models), z13, or z13s servers, those servers receive a reduction to AWLC pricing. This reduction provides a portion of the price-performance benefit that is related to Technology Update Pricing for the z15 that is based on the total full-capacity MSUs of all z14, (all models), z13, and z13s machines in the TTO-eligible environment. The number of MSUs used to determine the total MSUs for the Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex is based on the announced IBM full-capacity ratings. They can be found on the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.

Schedule of AWLC and CMLC reductions for Transition Charges for Sysplexes or Multiplexes (TC4)

Quantity of z15, z14 (all models), z13, and z13s full-capacity MSUs in an actively coupled Parallel Sysplex or Country Multiplex	Reduction in monthly AWLC or CMLC
1 - 3 MSUs	0.0 %
4 - 45 MSUs	5.0 %
46 - 315 MSUs	10.0 %
316 - 1315 MSUs	11.0 %
1316 - 2676 MSUs	13.0 %
2677 - 5476 MSUs	15.0 %
5477 - more MSUs	18.0 %

Transition Charges for Multiplexes (TC3)

The Transition Charges for Multiplexes (TC3) offering that were previously announced in Software Announcements [AP12-0297](#), dated August 28, 2012, and [AP12-0413](#), dated October 3, 2012, is updated to include the z15 in an existing qualified Country Multiplex.

When two or more servers comprise an existing qualified Country Multiplex eligible environment that consists of only of one or more z15, z14 (all models), z13, z13s, zEC12, or zBC12 servers, those servers receive a reduction to CMLC pricing. This reduction provides a portion of the price-performance benefit related to Technology Update Pricing (TU1), based on the total full-capacity MSUs of all based on the proportion of z15, z14 (all models), z13, z13s, zEC12, or zBC12 server capacity within the TTO-eligible environment. z15 in a Parallel Sysplex or Loosely Coupled Complex is not supported in TC3. A z15 may only be added to a currently qualified Country Multiplex that includes an existing zEC12 or zBC12 server.

The number of MSUs used to determine the total MSUs for the Country Multiplex is based on the announced IBM full-capacity ratings that can be found on the **Mainframe Exhibits** section of the [z Systems[®] Software Contracts](#) website.

Schedule of CMLC reductions for Transition Charges for Multiplexes (TC3)

Quantity of z15, z14 (all models), z13, z13s, zEC12, and zBC12 full-capacity MSUs in an actively coupled Parallel Sysplex or Country Multiplex	Reduction in monthly CMLC
1 - 3 MSUs	0.0 %
4 - 45 MSUs	2.8 %
46 - 315 MSUs	5.6 %
316 - 1315 MSUs	6.3 %
1316 - 2676 MSUs	7.0 %
2677 - 5476 MSUs	8.4 %
5477 - more MSUs	9.8 %

The number of MSUs that are used to determine the total MSUs for the Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex is based on the announced IBM full-capacity ratings that can be found on the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.

Transition Charges for Sysplexes (TC2)

The TC2 offering is unaffected by this announcement. For details, refer to Software Announcements:

- [AP18-0147](#), dated April 10, 2018
- [AP17-0265](#), dated July 17, 2017
- [AP16-0007](#), dated February 16, 2016

- [AP15-0001](#), dated January 14, 2015

Transition Charges for Sysplexes (TC1)

The TC1 offering is unaffected by this announcement. For details, see Software Announcements [AP12-0413](#), dated October 3, 2012, and [AP12-0297](#), dated August 28, 2012.

Rules for MSUs under Technology Transition Offerings

All MSUs that are used in determining Technology Update Pricing for the z15, Transition Charges for Sysplexes or Multiplexes (TC5), Transition Charges for Sysplexes or Multiplexes (TC4), and Transition Charges for Multiplexes (TC3) exclude capacity related to specialty engines, unassigned capacity, and temporary capacity such as, but not limited to:

- Capacity Back Up
- Capacity for Planned Events
- On/Off CoD

Rules for aggregation under Technology Transition Offerings

Aggregation of product MSUs across multiple Z servers is allowed if the servers meet the actively coupled z/OS Parallel Sysplex definition rules in:

- Attachment for System z AWLC (Z125-8538)
- IBM Attachment for IBM Country Multiplex Pricing (Z126-6965)
- z/TPF Loosely Coupled Complex definition rules in the Amendment for Aggregation of Charges for z/TPF (Z125-7357)

z/OS or z/TPF must be licensed and running in z/Architecture[®] (64-bit) mode on each of the Z servers of a Parallel Sysplex, Country Multiplex, or Loosely Coupled Complex that receive aggregated Technology Update Pricing for the z15, or aggregated AWLC or CMLC under Transition Charges for Multiplexes (TC3), Transition Charges for Sysplexes or Multiplexes (TC4), or Transition Charges for Sysplexes or Multiplexes (TC5). Flat Workload License Charges (FWLC) products do not aggregate MSUs because their charge is independent of machine size or LPAR utilization.

Programs eligible for AWLC and CMLC

Note: Program eligibility is subject to product availability. This includes new programs that become eligible for AWLC and CMLC.

Software Offering (SWO)	Entitlement Entity (EE)	Description
5695-068	S000BKC	Airline Control System - Airline Control System V2
5655-147	S001CVJ	CICS [®] TS for OS/390 [®]
5697-E93	S00T7FK	CICS TS for z/OS V2
5655-M15	S0118T7	CICS TS for z/OS V3
5655-S97	S015H9T	CICS TS for z/OS V4
5655-Y04	S0172DF	CICS TS for z/OS V5
5655-018	S00151M	CICS/ESA V4 -CICS ONC RPC
5655-018	S00151N	CICS/ESA V4 -CICS/ESA V4
5605-DB2	S015SW2	DB2 [®] 10 for z/OS
5605-DB2	S015SW4	DB2 10 for z/OS- QMF Classic Edition V10
5605-DB2	S015SW3	DB2 10 for z/OS- QMF Enterprise Edition V10

Software Offering (SWO)	Entitlement Entity (EE)	Description
5605-DB2	S017HFV	DB2 10 for z/OS- QMF V11 Classic Edition
5605-DB2	S017HFT	DB2 10 for z/OS- QMF V11 Enterprise Edition
5615-DB2	S0171R2	Db2 ^(R) 11 for z/OS-Db2 11 for z/OS
5615-DB2	S018852	Db2 11 for z/OS- Enterprise Advisor for Db2 z
5615-DB2	S0171R3	Db2 11 for z/OS- QMF Classic Edition V11
5615-DB2	S0181TL	Db2 11 for z/OS- QMF Classic Edition V12
5615-DB2	S0171R4	Db2 11 for z/OS- QMF Enterprise Edition V11
5615-DB2	S0181TM	Db2 11 for z/OS- QMF Enterprise Edition V12
5650-DB2	S017GWJ	Db2 12 for z/OS
5650-DB2	S018851	Db2 12 for z/OS- Enterprise Advisor Db2 z
5650-DB2	S01822F	Db2 12 for z/OS- QMF Classic Edition 12
5650-DB2	S01822D	Db2 12 for z/OS- QMF Enterprise Edition 12
5650-DB2	S018BZC	Db2 12 for z/OS- QMF Enterprise Edition Advanced
5695-DB2	S00184N	DB2 FOR MVS™/ESA V4
5655-DB2	S001FJ7	DB2 for OS/390 V5
5645-DB2	S00087N	Db2 UDB for OS/390-DB2 UDB for OS/390
5645-DB2	S00V5XB	Db2 UDB for OS/390- Net Search Extender
5645-DB2	S00087P	Db2 UDB for OS/390- QMF for OS/390
5645-DB2	S00VWVP	Db2 UDB for OS/390- QMF for OS/390 V7
5645-DB2	S00VWVT	Db2 UDB for OS/390- QMF for Windows™ V7 (Feature of DB2)
5645-DB2	S00VWVW	Db2 UDB for OS/390- QMF for Windows V7 (Feature of QMF)
5645-DB2	S00087M	Db2 UDB for OS/390- QMF for Windows with QMF License
5645-DB2	S00087J	Db2 UDB for OS/390- QMF for Windows-No QMF License
5645-DB2	S00087G	Db2 UDB for OS/390- QMF HPO Buy
5645-DB2	S00VWVZ	Db2 UDB for OS/390- QMF HPO V7
5675-DB2	S00TZJH	DB2 UDB for OS/390 V7 - DB2 Net Search Extender
5675-DB2	S00SN65	DB2 UDB for OS/390 V7 - DB2 UDB for OS/390
5675-DB2	S00SN6L	DB2 UDB for OS/390 V7 - DB2 Warehouse Manager
5675-DB2	S00SN6M	DB2 UDB for OS/390 V7 - QMF for OS/390 (feature of DB2)

Software Offering (SWO)	Entitlement Entity (EE)	Description
5675-DB2	S00SN6X	DB2 UDB for OS/390 V7 - QMF for Windows feature of DB2
5675-DB2	S00SN6S	DB2 UDB for OS/390 V7 - QMF for Windows feature of QMF
5675-DB2	S00VWTB	DB2 UDB for OS/390 V7 - QMF HPO V7.1.1
5625-DB2	S00X44M	DB2 UDB for z/OS
5625-DB2	S010TGB	DB2 UDB for z/OS-DB2 Net Search Extender
5625-DB2	S00X44R	DB2 UDB for z/OS- QMF Classic Edition
5625-DB2	S00X44P	DB2 UDB for z/OS- QMF Distributed Edition
5625-DB2	S00X44N	DB2 UDB for z/OS- QMF Enterprise Edition
5655-DB2	S001FJ8	DB2 V5 Performance Monitor
5635-DB2	S011XS0	DB2 V9.1 for z/OS-DB2 V9 for z/OS
5635-DB2	S012J7R	DB2 V9.1 for z/OS- QMF Classic Edition z/OS
5635-DB2	S015SLK	DB2 V9.1 for z/OS- QMF Classic Edition: V10
5635-DB2	S012J7P	DB2 V9.1 for z/OS- QMF Enterprise Edition z
5635-DB2	S015SLL	DB2 V9.1 for z/OS- QMF Enterprise Edition: V10
5655-DB2	S00MVJ4	DB2 Version 5 - QMF Win V6 with Host QMF prerequisite
5655-H32	S00X8FN	Debug Tool for z/OS and OS/390
5655-L24	S0109LN	Debug Tool V4
5655-M18	S011CMT	Debug Tool V5
5655-P14	S0121TL	Debug Tool V6
5655-R44	S012PVX	Debug Tool V7
5655-S17	S01489W	Debug Tool V8
5655-P97	S01256T	Encryption Facil dss Encryption
5655-P97	S01243R	Encryption Facil Encryption Server
5648-A25	S001FGH	COBOL for OS/390 and VM V2R2
5648-A25	S001FGK	COBOL for OS/390 and VM V2R2 Enterprise Workstation Feature
5655-G53	S00VXNM	Enterprise COBOL
5655-G53	S00VXNN	Enterprise COBOL - COBOL Alternate Function
5655-W32	S0177FX	Enterprise COBOL for z/OS V5
5655-S71	S014DVZ	Enterprise COBOL V4
5655-EC6	S017RBR	Enterprise COBOL z/OS V6
5655-H31	S00W184	Enterprise PL/I - Alternate Function
5655-H31	S00W183	Enterprise PL/I - Full Function
5655-PL5	S017ZPT	Enterprise PL/I for z/OS V5

Software Offering (SWO)	Entitlement Entity (EE)	Description
5655-W67	S0166DJ	Enterprise PL/I V4
5655-DB2	S00MVJ2	IBM DB2 QMF Windows V6 F/C of DB2 V5
5655-B01	S00TBG7	IMS - IMS V7 Database Manager
5655-B01	S00TBG6	IMS - IMS V7 Extended Terminal Optimizer
5655-B01	S00TBG9	IMS - IMS V7 RSR DB- Level Tracking
5655-B01	S00TBG8	IMS - IMS V7 RSR- Recovery Level Tracking
5655-B01	S00TBGB	IMS - IMS V7 Transaction Manager
5635-A01	S012K9W	IMS V10 - IMS V10 Database Manager
5635-A01	S012K9X	IMS V10 - IMS V10 DB- Level Tracking
5635-A01	S012KB0	IMS V10 - IMS V10 Extended Terminal Optimizer
5635-A01	S012K9Z	IMS V10 - IMS V10 Recovery Level Tracking
5635-A01	S012K9B	IMS V10 - IMS V10 Transaction Manager
5635-A02	S0152Z1	IMS V11 - IMS Database Manager
5635-A02	S0152Z2	IMS V11 - IMS DB-Level Tracking
5635-A02	S0152XX	IMS V11 - IMS Extended Terminal Optimizer
5635-A02	S0152XZ	IMS V11 - IMS Recovery Level Tracking
5635-A02	S0152Z0	IMS V11 - IMS Transaction Manager
5635-A03	S0166J4	IMS V12 - IMS V12 Database Manager
5635-A03	S0166J5	IMS V12 - IMS V12 DB- Level Tracking
5635-A03	S0166J1	IMS V12 - IMS V12 Extended Terminal Optimizer
5635-A03	S0166J2	IMS V12 - IMS V12 Recovery Level Tracking
5635-A03	S0166J3	IMS V12 - IMS V12 Transaction Manager
5635-A04	S0171RS	IMS V13 - IMS Database Manager V13
5635-A04	S0171RT	IMS V13 - IMS DB-Level Tracking V13
5635-A04	S0171RV	IMS V13 - IMS Extended Terminal Optimizer V13
5635-A04	S0171RW	IMS V13 - IMS Recovery Level Tracking V13
5635-A04	S0171RX	IMS V13 - IMS Transaction Manager V13
5635-A05	S017K88	IMS V14 - IMS Database Manager V14
5635-A05	S017K89	IMS V14 - IMS DB-Level Tracking V14
5635-A05	S017K8B	IMS V14 - IMS Extended Terminal Optimizer V14

Software Offering (SWO)	Entitlement Entity (EE)	Description
5635-A05	S017K8C	IMS V14 - IMS Recovery Level Tracking V14
5635-A05	S017K8D	IMS V14 - IMS Transaction Manager V14
5635-A06	S018214	IMS V15 - IMS DB Manager V15
5635-A06	S018212	IMS V15 - IMS Extended Terminal Optimizer 15
5635-A06	S018211	IMS V15 - IMS TM V15
5655-C56	S00W276	IMS V8 - IMS V8 Database Manager
5655-C56	S00W275	IMS V8 - IMS V8 DB-Level Tracking
5655-C56	S00W277	IMS V8 - IMS V8 Extended Terminal Optimizer
5655-C56	S00W278	IMS V8 - IMS V8 Recovery Level Tracking
5655-C56	S00W274	IMS V8 - IMS V8 Transaction Manager
5655-J38	S0108VK	IMS V9 - IMS V9 Database Manager
5655-J38	S0108VM	IMS V9 - IMS V9 DB-Level Tracking
5655-J38	S0108VP	IMS V9 - IMS V9 Extended Terminal Optimizer
5655-J38	S0108VS	IMS V9 - IMS V9 Recovery Level Tracking
5655-J38	S0108VV	IMS V9 - IMS V9 Transaction Manager
5695-176	S00150G	IMS/ESA ^(R) V5 -IMS/ESA V5 Database Manager
5695-176	S00150J	IMS/ESA V5 -IMS/ESA V5 DB-Level Tracking
5695-176	S00150H	IMS/ESA V5 -IMS/ESA V5 Extended Terminal Optimizer
5695-176	S00150F	IMS/ESA V5 -IMS/ESA V5 RSR-Recovery Level Tracking
5695-176	S00150K	IMS/ESA V5 -IMS/ESA V5 Surveyor Feature
5695-176	S00150D	IMS/ESA V5 -IMS/ESA V5 Transaction Manager
5655-158	S001CFS	IMS/ESA V6 -IMS/ESA V6 DB-Level Tracking
5655-158	S001CFP	IMS/ESA V6 -IMS/ESA V6 DB Manager
5655-158	S001CFR	IMS/ESA V6 -IMS/ESA V6 Extended Terminal Optimizer
5655-158	S001CFN	IMS/ESA V6 -IMS/ESA V6 Recovery Level Tracking
5655-158	S001CFT	IMS/ESA V6 -IMS/ESA V6 Transaction Manager
5655-B86	S00RXVG	Lotus ^(R) Domino ^(R) for S/390 ^(R) V5
5655-S73	S0144DV	Lotus Domino for z/OS
5655-K36	S00XJ4K	Lotus Domino for z/OS V6
5655-N14	S011DT8	Lotus Domino for z/OS V7
5706-254	S00066K	Query Management Facility V3

Software Offering (SWO)	Entitlement Entity (EE)	Description
5706-254	S00066J	Query Management Facility V3 - HPO Compiler
5706-254	S00066H	Query Management Facility V3 - HPO Complete
5706-254	S00066F	Query Management Facility V3 - HPO Manager
5706-254	S00066G	Query Management Facility V3 - QMF for Windows
5645-005	S000V5N	System Auto. for OS/390
5645-006	S00SNWR	Systems Automation z/OS
5697-ENV	S00WM20	Tivoli ^(R) NetView ^(R) for z/OS
5697-NV6	S016RPV	Tivoli NetView for z/OS
5697-ENV	S0148PZ	Tivoli NetView for z/OS-TEMA
5697-NV6	S016RPM	Tivoli NetView for z/OS-TEMA
5697-B82	S001FFC	Tivoli NetView NetView Enterprise
5655-043	S00135C	Tivoli NetView PM - Netview Performance Monitor
5655-043	S00135D	Tivoli NetView PM - NRDC
5697-B82	S001FFF	Tivoli NetView Procedural
5697-B82	S001FFD	Tivoli NetView Unattended
5697-OPC	S001FDX	Tivoli Operations Planning and Control (OPC) - OPC 2.3 Tracker
5697-OPC	S001FDW	Tivoli OPC - OPC Agent and Enabler
5697-OPC	S001FDV	Tivoli OPC - OPC Controller Communication + Language
5697-WSZ	S00W0CW	Tivoli Workstation (WS) for z/OS- END2END Enabler
5697-WSZ	S00W0CV	Tivoli WS for z/OS- Engine + Language
5697-WSZ	S00W0CT	Tivoli WS for z/OS-z/OS Agent
5655-B22	S00S8F5	VisualAge ^(R) PL/I for OS/390 Full Function
5655-B22	S00S8F4	VisualAge PL/I OS/390 V2
5697-MQZ	S010N7W	WebSphere ^(R) MQ Extended Security Edition
5697-MQZ	S010N7T	WebSphere MQ Extended Security Edition - Client Attachment Feature
5697-NQZ	S012B7X	WebSphere MQ Extended Security Edition V6
5697-NQZ	S012B80	WebSphere MQ Extended Security Edition V6 - Client Attachment Feature
5695-137	S000PX4	WebSphere MQ for MVS/ESA
5695-137	S000PX3	WebSphere MQ for MVS/ESA - Client Attachment Feature
5799-GKY	S00TN86	WebSphere MQ for OS/390- PRPQ - Base
5655-F10	S00TDF5	WebSphere MQ for z/OS

Software Offering (SWO)	Entitlement Entity (EE)	Description
5655-F10	S00TDFD	WebSphere MQ for z/OS-Client Attachment Feature
5655-L82	S011P8R	WebSphere MQ for z/OS V6
5655-L82	S011P8T	WebSphere MQ for z/OS V6 - Client Attachment Feature
5655-R36	S014V9Z	WebSphere MQ for z/OS V7 - MQ Base for z/OS
5655-R36	S014VB0	WebSphere MQ for z/OS V7 - Client Attachment Feature
5655-W97	S017F7P	WebSphere MQ for z/OS V8
5655-MQ9	S017ZPX	WebSphere MQ for z/OS V9
5655-A95	S00NB8K	WebSphere MQ V.2 - Client Attachment Feature
5655-A95	S00NB8L	WebSphere MQ V2
5694-A01	S00T4FS	z/OS-z/OS V1 Alternate Base
5694-A01	S00T4FR	z/OS-z/OS V1 Base
5694-A01	S00T4FT	z/OS-z/OS V1 BDT FTF
5694-A01	S00T4FV	z/OS-z/OS V1 BDT SNA NJE
5694-A01	S00T4FW	z/OS-z/OS V1 BookManager ^(R) Build
5694-A01	S00T4FX	z/OS-z/OS V1 C/C++ with Debug
5694-A01	S00T4FZ	z/OS-z/OS V1 C/C++ without Debug
5694-A01	S00T4G2	z/OS-z/OS V1 DFSMS dss
5694-A01	S00T4G0	z/OS-z/OS V1 DFSMS dsshsm
5694-A01	S00T4G1	z/OS-z/OS V1 DFSMS rmm
5694-A01	S010776	z/OS-z/OS V1 DFSMStvs
5694-A01	S00T4G3	z/OS-z/OS V1 DFSORT
5694-A01	S00T4G4	z/OS-z/OS V1 GDDM-PGF
5694-A01	S00T4G5	z/OS-z/OS V1 GDDM-REXX
5694-A01	S00T4G8	z/OS-z/OS V1 Infoprint Server
5694-A01	S00T4G9	z/OS-z/OS V1 JES3
5694-A01	S00T4GB	z/OS-z/OS V1 RMF
5694-A01	S00T4GC	z/OS-z/OS V1 SDSF
5694-A01	S00T4GF	z/OS-z/OS V1 Security Server
5694-A01	S00T4GD	z/OS-z/OS V1 SOMobjects ADE
5650-ZOS	S01728S	z/OS-z/OS V2 Alternate Base
5650-ZOS	S01728T	z/OS-z/OS V2 Base
5650-ZOS	S01728V	z/OS-z/OS V2 BDT FTF
5650-ZOS	S01728W	z/OS-z/OS V2 BDT SNA NJE
5650-ZOS	S01728X	z/OS-z/OS V2 BookManager Build
5650-ZOS	S017290	z/OS-z/OS V2 DFSMS dss
5650-ZOS	S017291	z/OS-z/OS V2 DFSMS dsshsm

Software Offering (SWO)	Entitlement Entity (EE)	Description
5650-ZOS	S017292	z/OS-z/OS V2 DFSMS rmm
5650-ZOS	S017293	z/OS-z/OS V2 DFSMStvs
5650-ZOS	S017294	z/OS-z/OS V2 DFSORT
5650-ZOS	S017295	z/OS-z/OS V2 GDDM-PGF
5650-ZOS	S017296	z/OS-z/OS V2 GDDM-REXX
5650-ZOS	S017297	z/OS-z/OS V2 HCM
5650-ZOS	S017298	z/OS-z/OS V2 HLASM Toolkit
5650-ZOS	S017299	z/OS-z/OS V2 Infoprint Server
5650-ZOS	S01729B	z/OS-z/OS V2 JES3
5650-ZOS	S01729C	z/OS-z/OS V2 RMF
5650-ZOS	S01729D	z/OS-z/OS V2 SDSF
5650-ZOS	S01729F	z/OS-z/OS V2 Security Server
5650-ZOS	S01728Z	z/OS-z/OS V2 XL C/C++
5650-ZOS	S01780D	z/OS-z/OS V2 zEDC
5748-F15	S011DWP	z/TPF DF - z/TPF DF V1
5748-T15	S011DWN	z/TPF EE
5748-T15	S011DWM	z/TPF EE - V1 HPO

Terms and conditions

The terms and conditions that are associated with Technology Update Pricing for the z15 apply for the following:

- Sub-capacity pricing
- Transition Charges for Sysplexes or Multiplexes
- The Attachment for System z^(R) AWLC
- The IBM Attachment for IBM Country Multiplex Pricing
- The IBM Customer Agreement
- The Client Relationship Agreement

In conjunction with software programs that are implemented with Technology Update Pricing for the z15, programs that have FWLC will continue to be charged by using FWLC. These programs have one flat monthly charge per IBM Z server, independent of the size of the machine to which the program is licensed.

System z New Application License Charges (zNALC) and Select Application License Charges (SALC) remain available for their respective eligible programs under their respective terms and conditions on servers with Technology Update Pricing for the z15.

The *Supplement for Technology Transition Offerings to Attachment for IBM System z Advanced Workload License Charges (Z125-8994)* is updated specifically for the four Technology Transition Offerings, which consist of Technology Update Pricing for the z15 and the new and revised Transition Charges for Sysplexes or Multiplexes program variations.

AWLC and CMLC terms and conditions that are described in the following documents, apply to Technology Update Pricing for the z15 and all Transition Charges for Sysplexes or Multiplexes program variations:

- Attachment for IBM System z Advanced Workload License Charges (Z125-8538)
- IBM System z Advanced Workload License Charges Exhibit (Z125-8539)

- IBM Attachment for IBM Country Multiplex Pricing (Z126-6965)

Parallel Sysplex License Charges (PSLC) are available as an alternative charge metric for eligible software programs running on a z15 server. If available for your specific configuration, you have a choice of selecting either AWLC, CMLC, or PSLC, but not a combination of charges for your IBM software programs within the z/OS or z/TPF operating system families on a z15 server. In conjunction with software programs implemented with PSLC, z Systems^(R) Usage Pricing Charges remain available for your respective eligible programs under z Systems Usage Pricing Charges terms and conditions.

Reference information

For a list of software programs that are eligible for ALWC, see the [Programs eligible for AWLC and CMLC](#) section in this announcement.

For information about machine exhibits, see the **Mainframe Exhibits** section of the [IBM Z software pricing resources](#) website.

For information about the z15, see Hardware Announcement [AG19-0032](#), dated September 12, 2019.

For Technology Update Pricing for AWLC previously announced, see Software Announcements [AP12-0297](#), dated August 28, 2012, and [AP12-0413](#), dated October 3, 2012.

AP distribution

Country/Region	Announced
AP	
ASEAN *	Yes
India/South Asia **	Yes
Australia	Yes
Hong Kong	Yes
Macao SAR of the PRC	Yes
Mongolia	Yes
New Zealand	Yes
People's Republic of China	Yes
South Korea	Yes
Taiwan	Yes

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