# IBM Mobile Workload Pricing for z/OS can reduce the cost of growth for mobile transactions

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## At a glance

Mobile Workload Pricing for z/OS(R) can:

- Mitigate the impact of mobile workloads on sub-capacity license charges
- Provide a more cost-competitive software pricing model for extending System z(R) environments to mobile devices

## Overview

Mobile Workload Pricing (MWP) for z/OS can reduce the cost of growth for mobile transactions processed by programs such as CICS(R), IMS™, and DB2(R) for z/OS. This enhancement to sub-capacity reporting can mitigate the impact of mobile workloads on sub-capacity license charges, specifically in the cases where higher mobile transaction volumes may cause a spike in machine utilization. This can normalize the rate of transaction growth and reduce the reported peak capacity values used for sub-capacity charges.

If using certain eligible programs to process mobile transactions, contact your sales team to help you understand how you can meet the tracking requirements for mobile workloads. MWP does not require you to isolate the mobile work in separate partitions, but rather is an enhanced way of reporting.

For a list of the programs eligible to define the MWP adjustment, refer to Mobile Workload Pricing Defining Programs in the Description section.

## Key prerequisites

Prerequisites for enabling Mobile Workload Pricing (MWP) for z/OS include the following:

- Run one or more of the Mobile Workload Pricing Defining Programs on a zEnterprise(R) EC12 (zEC12) or zEnterprise BC12 (zBC12) server that has implemented sub-capacity pricing under AWLC, AEWLC, or System z New Application License Charges (zNALC) terms and conditions, as specified in the IBM(R) Addendum for System z Mobile Workload Pricing (Z126-6300) contract.
  - Alternatively, if you install and operate a zEC12 or zBC12 anywhere in your enterprise you will be eligible for MWP when running a Mobile Workload Pricing Defining Program on a zEnterprise 196 (z196) or zEnterprise 114 (z114) server that has implemented sub-capacity pricing under AWLC, AEWLC, or zNALC terms and conditions.
- Run z/OS V1 (5694-A01) or z/OS V2 (5650-ZOS).

- Agree to measure and provide the required mobile transaction data on a monthly basis, inclusive of CPU seconds. IBM must approve the process used to capture the records for mobile transactions that will be used for monthly reporting.
- Install and use the Mobile Workload Reporting Tool (MWRT) on a Microsoft™ Windows™ based system.
- Run MWRT for each sub-capacity reporting period and submit the results to IBM on a monthly basis in place of the Sub-Capacity Reporting Tool (SCRT) results.

## MWP billing effective date

Sub-capacity licenses, including the MWP adjustment cannot be billed until you submit an MWRT sub-capacity report containing programs with MSUs adjusted by MWP. MWRT availability is June 30, 2014.

You may generate the first MWRT sub-capacity report containing MSUs adjusted by MWP on July 2, 2014. This report, for data collected during the June reporting period, may be submitted between July 2 and July 9, 2014, and will have a billing effective date of August 1, 2014. Therefore, the earliest billing effective date for programs with MSUs adjusted by MWP is August 1, 2014.

## Description

MWP provides an enhanced way of reporting z/OS system utilization, which can improve price/performance for sub-capacity eligible programs when running in the same LPAR as mobile workloads processed by select Mobile Workload Pricing Defining Programs. Mobile workloads are defined as the transactions processed by a named mobile application, or transactions that can be identified as originating from a mobile device.

You must be able to track and report the general purpose processor time (CPU Time) for mobile transactions and report those values in a pre-defined format to IBM each month in order to take advantage of this pricing offering. MWRT will use the reported mobile transaction data to adjust the 4-hour rolling average sub-capacity MSUs for sub-capacity eligible programs on a given machine.

By mitigating the impact of mobile transactions on the peak MSU values reported for the programs on a given machine, MWP can provide a benefit when higher mobile transaction volumes cause a spike in machine utilization.

### Determining eligibility for Mobile Workload Pricing

MWP requires the implementation of sub-capacity AWLC, sub-capacity AEWLC, or sub-capacity zNALC.

**Mobile Workload Pricing Defining Programs**

| Program ID | Program name |
|---|---|
| 5655-S97 | IBM CICS Transaction Server for z/OS, V4 |
| 5655-Y04 | CICS Transaction Server for z/OS, V5 |
| 5722-DFJ | CICS Value Unit Edition (VUE) V5 |
| 5635-DB2 | IBM DB2 V9 for z/OS |
| 5605-DB2 | DB2 V10 for z/OS |
| 5615-DB2 | DB2 V11 for z/OS |
| 5697-P12 | DB2 VUE V9 |
| 5697-P31 | DB2 10 VUE |
| 5697-P43 | DB2 11 VUE |
| 5635-A02 | IBM IMS V11 |
| 5635-A03 | IMS V12 |
| 5635-A04 | IMS V13 |
| 5655-DSQ | IMS Database VUE V12 |

| | |
|---|---|
| 5655-DSM | IMS Database VUE V13 |
| 5655-L82 | IBM WebSphere(R) MQ for z/OS, V6 |
| 5655-R36 | WebSphere MQ for z/OS, V7 |
| 5655-W97 | WebSphere MQ for z/OS, V8 |
| 5655-VUE | WebSphere MQ VUE V7 |
| 5655-VU8 | WebSphere MQ VUE V8 |
| 5655-N02 | IBM WebSphere Application Server for z/OS, V7 |
| 5655-W65 | WebSphere Application Server for z/OS, V8 |

**Mobile Workload Reporting Tool (MWRT)**

The Mobile Workload Reporting Tool (MWRT), a new Windows-based reporting tool that supports MWP for z/OS, is planned to be available June 30, 2014. MWRT provides similar function to SCRT with the addition of new functionality for mobile workloads. MWRT replaces SCRT when you take advantage of MWP for z/OS. All other sub-capacity terms and conditions will continue to apply.

**Calculating the billable MSUs for sub-capacity eligible programs**

MWRT will calculate the 4-hour rolling average of the reported mobile transaction general purpose processor time consumed by the Mobile Workload Pricing Defining Programs and subtract 60% of those values from the traditional sub-capacity MSUs for all sub-capacity eligible programs running in the same LPAR(s) as the mobile workloads, on an hour-by-hour basis, per LPAR. The program values for the same hour are summed across all of the LPARs (and any z/OS guest systems running under z/VM(R)) in which the program runs to create an adjusted sub-capacity value for the program, for the given machine, for each hour. MWRT will determine the billable MSU peak for a given program on a machine using the adjusted MSU values.

**Data collection requirements**

You are required to collect SMF 70 and SMF 89 records for all machines each month. In addition, you must collect and retain the source data for the mobile transactions that will be used in monthly reporting. The SMF records and mobile transaction data must be retained for six months after the billing period for auditing purposes.

You are responsible for pre-processing your mobile transaction data into a pre-defined format to be loaded into MWRT for each sub-capacity reporting period. The data must consist of general purpose processor CPU seconds for mobile transactions summarized by hour by LPAR for all machines processing mobile transactions. Detailed instructions will be available in the MWRT user's guide.

**Monthly reporting process**

When utilizing MWP, you are responsible for the following reporting requirements each month:

- Track mobile transactions, including CPU seconds, per program on an hourly basis per LPAR.
- Produce a comma-separated value (CSV) file showing mobile CPU consumption each month for each program.
- Load the resulting data files along with the SMF 70 and SMF 89 records into MWRT each month (requires FTP of the files from the System z server to MWRT running on a Windows machine).
- Run the MWRT and submit the results to IBM for each sub-capacity reporting period.

## Terms and conditions

Your agreement to MWP terms and conditions is required for the receipt of MWP benefits. You must have a valid license to IBM authorized Mobile Workload Pricing

Defining Programs installed on a zEC12 or zBC12 server that has implemented sub-capacity pricing. Alternatively, you may qualify for MWP by installing authorized Mobile Workload Pricing Defining Programs on a z196 or z114 server if a zEC12 or zBC12 server is being operated in your enterprise. All terms and conditions associated with MWP sub-capacity pricing, and the IBM Customer Agreement apply.

Agreement to the terms of the IBM Addendum for System z Mobile Workload Pricing (Z126-6300) is required.

AWLC, AEWLC, or zNALC terms and conditions described in the following documents also apply:

- IBM 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 System z Advanced Entry Workload License Charges (Z125-8755)
- IBM Attachment for zNALC License Charges on IBM System z (Z125-7454)
- IBM Exhibit for zNALC License Charges on IBM System z (Z125-7455)

## Announcement countries

All European, Middle Eastern, and African countries.

### *Trademarks*



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## Corrections

**(Corrected on June 26, 2014)**
Text was revised in several sections.