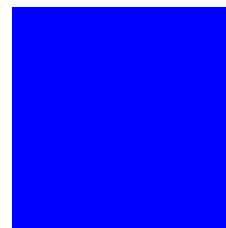


# **CIMS Lab, Inc.**

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## **CIMS Mainframe Data Collector and Chargeback System**

### **Release Notes**

Version 12.2

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# CIMS Mainframe Data Collector and Chargeback System 12.2 Release Notes

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## Overview

CIMS Mainframe Data Collector and Chargeback System 12.2 is a minor release that includes:

- Support for CIMS Server for DB2®.
- Enhanced user-controlled DB2 CPU calculation.
- Expanded DB2 detail record.
- Support for invalid timer flag fields (SMF30TFL) in CIMSACCT.

## CIMS Server for DB2 Support Added

CIMS Lab is pleased to announce a new component of the multi-platform CIMS Server product suite—CIMS Server for DB2. CIMS Server for DB2 integrates with CIMS Server and CIMS Server for UNIX to enable the applications to use a DB2 8 (Universal Database for z/OS®) database.

CIMS Mainframe 12.2 contains sample JCL that can load the DB2 database using the IBM® BPXBATCH program and the CIMSLoad program. Refer to “Loading the DB2 Database from CIMS Mainframe Data Collector and Chargeback System” in Chapter 1 of the *CIMS Server for DB2 Database Setup Guide* for more information.

For more information about CIMS Server for DB2, contact CIMS Lab at (800) 283-4267 or [info@cimslab.com](mailto:info@cimslab.com).

## DB2 Duplicate CPU Calculation Feature Added

When DB2 is called by a task, DB2 executes using the caller’s task control block (TCB). As a result, the CPU resources are reported in the caller’s TCB. When this situation occurs, the DB2 CPU resource can be reported twice because the resources are reported at the TCB level and then again in the DB2 SMF 101 record.

CIMS can now track duplicate CPU time as separate resources using the new `DUPLICATE CPU CONNECTION TYPES` control statement. This control statement is used to identify the DB2 connection system types that should be treated as duplicates. The CPU time reported for these connection system types are tracked in the Duplicate CPU Time field of the DB2 791/994 accounting record.

The duplicate CPU time can then be treated as a surcharge for using DB2 or the CPU time can be tracked separately for reporting purposes using a non-chargeable rate code.

For more information about this new feature, refer to the description of the `DUPLICATE CPU CONNECTION TYPES` control statement in Chapter 12 of the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

## DB2 Detail Record Expanded

Program CIMSDB2 can create a detail record in the DB2RECS DD. The DB2RECS file is optional and is provided so that you can report on data that is not provided in the standard 791 accounting record.

The QBAC section of the report will increase by 192 bytes to include three more QBAC sections at 64 bytes each.

## Invalid Timer Flag Fields (SMF30TFL) Support Added

A new method for CPU time validation has been added. The SMF 30 record contains the field SMF30TFL that indicates when CPU timer fields are invalid. (The SMF30TFL field and the CPU timer fields are in the Processor Accounting Section). The new control statement `SMF30TFL {ON | OFF}` specifies whether CIMSACCT uses the data in the SMF30TFL field when processing the SMF 30 record.

For more information about this new feature, refer to the description of the `SMF30TFL {ON | OFF}` control statement in Chapter 3 of the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

## Program Enhancements

### CIMSBILL

Prior to release 12.0, CIMSBill would automatically divide CPU time for the following rate codes by 60 and then further divide or multiply the time by the value specified in rate flag 3 (resource conversion) if included:

Z003, ZMVSCPU, Z004, ZMVSRESC, Z020, ZTSOCPU, ZVSECPUT, ZVSERESC

Effective for release 12.0 and later, CIMSBill does not automatically divide CPU time by 60. CIMSBill uses only the value in flag 3 to determine the resource conversion factor.

If you follow the conversion steps specified in *CIMS Rate File Conversion* on page 8, the current value in flag 3 is automatically converted appropriately. For example, if the current value for flag 3 is blank, the value is converted to 1 (divide total resources by 60).

### CIMSCMF2

The control statement `EXCEPTION FILE PROCESSING * OFF` has been added. This control statement is the same as `EXCEPTION FILE PROCESSING OFF` except that it removes the requirement that the account code field contain asterisks.

For more information about both control statements, refer to Chapter 3 of the *CIMS CICS Data Collector User Guide*.

## CIMSEXTR

- Report spacing has been changed to allow more data per page. Other minor report output changes were made to improve readability.
- The following control statements have been added:
  - `DATA REPLACE`. Replaces a hexadecimal value in an identifier with another hexadecimal value.
  - `DOUBLE QUOTE`. Replaces the quotation mark character around identifiers in CSR+ records with the specified character.

For more information about these control statements, refer to Chapter 4 of the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

## CIMSMULT

- The control statement `DOUBLE QUOTE` has been added. This control statement replaces the quotation mark character around identifiers in CSR+ records with the specified character.
- The `CIMSMSG DD` statement is now used for reporting messages. Additional input file validation has been added to check for proper data.

## CIMSUN01

- The `CIMSMSG DD` statement is now used for reporting messages.
- Added additional support for reporting and validating IDMS log records.
- Added the following control statements:
  - `IDMS LOG16 REC`. Supports IDMS 16.
  - `ON EMPTY OUTPUT SET RC TO nnnn`. Specifies that CIMSUN01 will end with a specified return code when no valid output records are written to the `CIMSACCT` or `CIMSACT2 DD`. The default return code is 4.

## CIMS Report Writer

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**Note** • CIMS Report Writer release 2.8 has been included since CIMS Mainframe release 11.4.

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- Made minor format changes to report SPWRP050.
- The following reports were added to access CIMS Server data in a DB2 database:
  - SPDB2101 (Invoice by Account Level)
  - SPDB2202 (Account Summary YTD)
  - SPDB2301 (Top 10 by Rate Code, Build Summarized File)
  - SPDB2301 (Top 10 by Rate Code, Build Summarized Report)
  - SPDB2804 (Client Report)
  - SPDB2805 (Rate Report)
- The following reports were added to support the new DB2 duplicate CPU time feature:
  - CIMRC791, CIMSRC994, SPWRP140, SPWRP143, SPWTR140, SPWTR146, SPWTR791
- Added new DB2 detail record DB2RECS3 and modified report SPWTR141.

## CIMS.DATAFILE Changes

The following changes were made to CIMS.DATAFILE:

- Support for new DB2 duplicate CPU time feature added to CIMS RATE, CIMSRT01, CIMSRT02, and DCTNDB2.
- Support for new DB2 detail record (DB2RECS3) added to CIMSDB2 and SUBDB21.
- Support for writing messages to the CIMSMSG DD added to CIMS MULT, CIMS RJE, IDMSJCL1, IDMSJCL2, IDMSJCL3, and M204JCL1.
- Support for ON EMPTY OUTPUT SET RC TO nnnn control statement in program CIMSUN01 added to CIMS RJE, IDMSCNT1, IDMSCNT3, IDMSCNT5, M204CNT1.

## Conversion from Release 12.0 or 12.1

### CIMS Dictionary

The CIMS Dictionary was updated for the DB2 duplicate CPU time feature. A new DB2 791 record will be produced with a version of 02. This new DB2 record version must be added to the dictionary. To convert the existing DB2 791 record definition, use the CIMSD122 JCL. Any customization to the DB2 791 definition will be converted into the new 02 version.

The CIMSD122 JCL also adds a radix to the IMSDUR field (IMS® response time) in the IMS 791 record definition (DCTNIMS).

### CIMS Rate File

The DB2 duplicate CPU time feature uses the rate code ZZ39 (Duplicate Transaction CPU Minutes). This rate code is added to the CIMS Dictionary during file conversion performed by the CIMSD122 JCL.

## Conversion from Releases Prior to 12.0

The CIMS Rate and Client files were changed in 12.0 and must be converted. The CIMS Dictionary file was changed in release 11.6 and again in 12.0 and must be converted for both releases. Follow the appropriate release conversion instructions in the *CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide*.

To use CIMSMONY (added in release 12.0), you must convert your historical data.

### CIMS Rate File Conversion

The CIMS Rate file was changed to include a new rate flag (CPU Flag), nine shift codes, a comments field, and a termination and effective date. The termination and effective date are not used, they are for a future release. The CIMS Rate file must be converted. Sample job control to convert the CIMS Rate file is contained in member ACNVJCL1 in CIMS.DATFILE.

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**Note** • During conversion, the current value in flag 3 is automatically converted appropriately for the CPU rate codes specified under *CIMSBILL* on page 5 . For example, if the current value for flag 3 is blank, the value is converted to 1 (divide total resources by 60).

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### Client File Conversion

The CIMS Client file was changed to support the 128-byte account code and to also store the Current Close Date and Load ID in the configuration record for CIMSMONY processing. The CIMS Client file must be converted. Sample job control to convert the CIMS Client file is contained in member ACNVJCL2 in CIMS.DATFILE.



## **CIMS Dictionary File Conversion**

If you are upgrading from release 11.5, you need to upgrade the CIMS Dictionary file as follows:

- If you have a standard CIMS Dictionary (no user modifications), run the CIMSDTLD JCL in CIMS.DATAFILE to add to 01 version of the dictionary records.
- If you have made updates to your CIMS Dictionary, run the CIMSDTUL JCL in CIMS.DATAFILE to upgrade the dictionary.

If you are upgrading from release 11.6, run the CIMSDV12 JCL in CIMS.DATAFILE to upgrade the dictionary.

## **CIMS Historical Data Conversion**

If you are going to implement CIMSMONY, you need to convert your historical data to the 79x accounting record format. You need to run CIMSACCT with the control statement `CONVERT TO CIMS SERVER`. Sample job control is contained in member `CONVERTA` in CIMS.DATAFILE.

There were no changes to the accounting records since release 11.6. There were minor changes in releases before that. All of the CIMS programs handle the changes “on the fly” while processing them.

