CIMS Lab, Inc.

CIMS Mainframe Data Collector and Chargeback System

Release Notes

Version 12.0

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CIMS Mainframe Data Collector and Chargeback System 12.0 Release Notes

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Overview

CIMS Mainframe Data Collector and Chargeback System 12.0 is a major release with many enhancements and processing changes, including the following. Detailed information about these enhancements and changes are provided in the following sections.

- A new chargeback program, CIMSMONY, has been added to support the CIMS 79x accounting records (791, 792, 793, and 799) created by the CIMS interface programs (CIMSACCT, CIMSCMF2, CIMSDB2, CIMSDISK, CIMSTAPE, CIMSUNIV, and CIMSUN02).

  The 79x records from the CIMS interface programs are processed by CIMSEXTR, which creates an output file (see the following bullet) that is processed by CIMSMONY. The output file from CIMSEXTR can also be processed by CIMS Server 3.3.

  CIMSEXTR and CIMSMONY enable you to process 79x records on the mainframe.

  Note • The CIMS interface programs have been updated to build both the 79x records and the CIMSBILL 6, 30, and 991–999 records by default. New control statements have been added to suppress the output of either the 79x or the 6, 30, and 991–999 records.

- The output file from the Extract and Aggregation Program (CIMSEXTR) has changed. CIMSEXTR now produces a CIMS Server Resource Plus (CSR+) file. The format of the CSR+ file is the same as the CIMS Server Resource (CSR) file previously produced by CIMSEXTR with the exception that the records in the CSR+ file contain an additional header at the beginning of the record.

  The CSR+ file can be processed by CIMSMONY and/or by CIMS Server 3.3. *The CSR+ file is not supported by CIMS Server releases earlier than 3.3.*

- For CIMS 79x accounting records, support for an account code of up to 128-bytes has been added.

- The CIMS Rate and Client files have been updated.

- The CIMSMSG output for most of the CIMS programs has been enhanced.

The upgrade to release 12.0 can be very involved depending on how you are going to implement CIMS. For the different upgrade options and their implications, refer to the Upgrade Instructions chapter in the *CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide*.

New Chargeback Program—CIMSMONY

CIMSMONY is similar to program CIMSBILL in that it can generate invoices for chargeback. However, with CIMSMONY, you can also generate files that can be loaded into a CIMS Server database for Web reporting and into other database applications supported in future CIMS releases.

CIMSMONY runs in one of two modes: Invoice or Server. The mode that you should use depends on whether you want to produce an invoice on the mainframe or whether you want to produce invoices and other reports from CIMS Server.

For more information about CIMSMONY, refer to the Computer Center Chargeback Program—CIMSMONY chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

New Output File from CIMSEXTR

CIMSEXTR produces the CSR+ file, which can be processed by CIMSMONY and/or CIMS Server 3.3.

When the CSR+ file is sent to CIMS Server, it is processed through the CIMS Server CIMSACCT and CIMSBILL programs.

When the CSR+ file is sent to CIMSMONY, CIMSMONY processes the file and produces a mainframe invoice (CIMSMONY in Invoice mode) or produces files that are loaded into the CIMS Server database for Web reporting (CIMSMONY in Server mode).

For more information about the CSR+ file, refer to the Extract and Aggregation Program—CIMSEXTR chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

New 128-Byte Account Code Support

The CIMS 79x accounting records support 128-byte account codes. The `DEFINE FIELD` and `DEFINE MOVEFLD` control statement lengths have been increased from an 8-byte maximum to a 128-byte maximum. All identifiers in the 79x records are saved so that multiple passes can be performed against the account code and/or the original identifiers.

Updated CIMS Rate and Client Files

The CIMS Rate and Client files have been changed. You need to convert both of these files for 12.0 (see *Conversion* on page 13).

Updated CIMSMSG DD Output

Messages that appear in the CIMSMSG DD output have been updated to include a level indicator (W- Warning, I- Informational, or E-Error), a message number, and the program that issued the message. See the following example.

```
********************************************************************************
                          Message Section for Program: CIMSMONY
********************************************************************************
MONY205I Server Mode On - No Invoice will be produced
MONY238I Client Update Turned Off Because Server Mode was Specified

MN0120OI CIMSMN01 Compile Date: 2003/12/18    Compile Time: 12:05:23

BL0120OI CIMSBL01 Compile Date: 2003/09/23    Compile Time: 09:54:53
MN01101W Rate Code: Num_Rcds Value: 37,567.0000 Not Defined in the Rate Table: STANDARD
********************************** End of Message Section ************************
```

Program Enhancements

CIMSACCT

CIMSACCT has been changed significantly. Changes include:

- CIMSACCT creates CIMS 79x accounting records and CIMS 6 and 30 accounting records. You can use the `WRITE 79X RECORDS {OFF | ONLY}` control statement to turn off either output.
- Support for the 128-byte account code in the 79x records has been added.
- Support for up to 128 bytes from the z/OS job account code has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- All identifiers are available in account code conversion when 79x records are processed using the `PROCESS CIMS MAINTENANCE` control statement.
- The following control statements have been added:
  - `PARSE ACCOUNT CODE FIELD` and `SMF USER DATA IS SECURITY ID`. The `PARSE ACCOUNT CODE FIELD` statement specifies how incoming SMF accounting fields are parsed to form the account code. The `SMF USER DATA IS SECURITY ID` statement specifies that the SMF user data field in CIMS accounting records is set from the RACF ID. You can use these statement to replace some `PARSE ACCOUNT CODE` statements that might have been customized for your organization.
  - `NON-PRIME SHIFT CODE = n`. The default non-prime shift is set to 4. The control statement enables you to change the default.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the Accounting File Creation Program—CIMSACCT chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSBILL

CIMSBill includes the following changes:

- Supports the new CIMS Rate and Client files; however, it does not use the new fields in the files.
- 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 13, 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).

CIMSCICS

CIMSCICS has been changed to support the new CIMS Rate and Client files; however, it does not use the new fields in the files.

If you use the new chargeback program, CIMSMONY, CIMSCICS is no longer required. CIMSCMF2 creates the 791 records required for CIMSMONY.

CIMSCLNT

CIMSCLNT has been changed significantly. Changes include:

- Supports the 128-byte account code in the CIMS 79x accounting records.
- Supports the CurrentCloseDate option in the configuration record.
- Supports the database load ID in the configuration record.

CIMSCMF2

CIMSCMF2 has been changed significantly. Changes include:

- CIMSCMF2 creates CIMS 791 accounting records and CIMS 804 accounting records. You can use the `WRITE {804 | 791} OFF` control statement to turn off either output.
- Support for the 128-byte account code in the 791 records has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- With CIMSMONY, there is only one set of CICS rate codes. There is no longer a set of prime rate codes (ZCS*) and non-prime rate codes (ZCX*). *This change is not applicable to CIMSBILL.*

  The ZCS* rate records have been pre-defined in the `CIMSRATE` member in `CIMS.DATAFILE` to contain a rate value for shift 1 (prime) and a rate value for shift 2 (non-prime).
- The following control statements have been added:
  - `NON-PRIME SHIFT CODE = n`. This control statement enables you to change the non-prime shift from the default shift 2 to another shift.
  - `NON-PRIME DAY yyyyddd/yyyymmdd`. The Julian or Gregorian Date specified by this control statement is considered a non-prime processing day. If the `NON-PRIME SHIFT CODE` control statement is not present, all work processed on this day is assigned to the default shift 2.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the CIMS CICS Account Code Creation Program—CIMSCMF2 chapter in the *CIMS CICS Data Collector User Guide*.

CIMSDB2

CIMSDB2 has been changed significantly. Changes include:

- CIMSDB2 creates CIMS 791 accounting records and CIMS 994 accounting records. You can use the `WRITE {791 | 994} OFF` control statement to turn off either output.
- Support for the 128-byte account code in the 791 record has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- The `NON-PRIME SHIFT CODE =` control statement has been added. This statement enables you to change the default non-prime shift, which is set to 4.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the DB2 Transaction Accounting Program—CIMSDB2 chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSDISK

CIMSDISK has been changed significantly. Changes include:

- CIMSDISK creates CIMS 791 accounting records and CIMS 991 accounting records. You can use the `WRITE {791 | 991} OFF` control statement to turn off either output.
- Support for the 128-byte account code in the 791 record has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the DASD Space Chargeback Program—CIMSDISK chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSEXTR

CIMSEXTR has been changed significantly. Changes include:

- A new Status and Statistics file has been built to store statistics and to allow CIMSEXTR to be restarted from a valid checkpoint if the previous execution terminated abnormally.
- Added the ability to produce two new outputs: CSR+ records and aggregated 79x records. CSR+ records can be processed by CIMSMONY and/or CIMS Server 3.3. CIMSEXTR no longer produces CSR records.
- New default aggregation points have been added for the 79x records. The System ID (CIMSSID) has been added as a default aggregation point for all records.

For more information about these changes, refer to the Extract and Aggregation Program—CIMSEXTR chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSMONY

CIMSMONY is a new chargeback program. CIMSMONY has two main purposes:

- To provide a mainframe type invoice as CIMSBILL does.
- To provide files that can be loaded into the CIMS Server database for Web reporting.

For more information about CIMSMONY, refer to the Computer Center Chargeback Program—CIMSMONY chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

If you want to migrate from CIMSBILL to CIMSMONY, refer to the CIMSMONY Upgrade Instructions chapter in the *CIMS Mainframe Data Collector and Chargeback System Installation and Upgrade Guide*.

CIMSMULT

CIMSMULT has been changed to support the new CIMSMONY summary record and the CIMSBILL summary record. CIMSMULT detects the record version and processes the record accordingly. If CIMSMULT detects that it is processing summary records from CIMSMONY, it produces CSR+ records.

CIMSPRAT

CIMSPRAT is a new utility program that prorates resources in CSR+ records. It is identical in function to the `Prorate.wsf` script delivered with CIMS Server. For more information about CIMSPRAT, refer to the Multiple Account Chargeback System—CIMSMULT and CIMSPRAT chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSTAPE

CIMSTAPE has been changed significantly. Changes include:

- CIMSTAPE creates CIMS 791 accounting records and CIMS 991 accounting records. You can use the `WRITE {791 | 991} OFF` control statement to turn off either output.
- Support for the 128-byte account code in the 791 record has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the Tape Storage Chargeback Program—CIMSTAPE chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMSUNIV and CIMSUN02

CIMSUNIV and CIMSUN02 have been changed significantly. Changes include:

- CIMSUNIV and CIMSUN02 create CIMS 791 accounting records and CIMS 991 accounting records. You can use the `WRITE {791 | 991} OFF` control statement to turn off either output.
- Support for the 128-byte account code in the 791 record has been added.
- The maximum length for the `DEFINE FIELD` and `DEFINE MOVEFLD` control statements is now 128 bytes.
- The format for the messages in the CIMSMSG DD output has been updated (see *Updated CIMSMSG DD Output* on page 6).

For more information about these changes, refer to the Universal Chargeback Program—CIMSUNIV chapter in the *CIMS Mainframe Data Collector and Chargeback System User Guide*.

CIMS Report Writer

There were minor changes to some CIMS Report Writer reports.

Conversion

The CIMS Rate, Client, and Dictionary VSAM files have been changed in 12.0 and must be converted as described in the following sections.

If you want to use the new chargeback program, CIMSMONY, you must convert your historical data.

CIMS Rate File Conversion

The CIMS Rate file has been changed to include a new rate flag for CPU normalization, nine shift codes, a comments field, and a termination and effective date. The termination and effective dates are for future use.

Member ACNVJCL1 in CIMS.DATAFILE contains sample JCL to convert the CIMS Rate file.

Note • During conversion, the current value in flag 3 is automatically converted appropriately for the CPU rate codes specified under *CIMSBILL* on page 8 . For example, if the current value for flag 3 is blank, the value is converted to 1 (divide total resources by 60).

CIMS Rate File Conversion for CIMSMONY

If you are going to implement the new chargeback program, CIMSMONY, there are two additional steps that you might need to complete to fully convert the CIMS Rate file after running ACNVJCL1. *These steps are not needed for CIMSBILL.*

1 In CIMS releases prior to release 12.0, the rate codes Z009– Z013 could be used for different resources (SIOs or Service Units) depending on the CIMSBILL options specified.

  In release 12.0, the Z009–Z013 rate codes are used only for SIOs. New rate codes SMF30SRV, SMF30CSU, SMF30SRB, SMF30IO, and SMF30MSO have been added for the Service Units.

  If you were reporting on SIOs, then release 12.0 will correctly report them. If you were using Service Units, then you need to add the SMF30SRV, SMF30CSU, SMF30SRB, SMF30IO, and SMF30MSO rate codes to the CIMS Rate file. Refer to the CIMSRATE member in the CIMS.DATAFILE for the rate code definitions.

2 With CIMSMONY, there is only one set of CICS rate codes. There is no longer a set of prime rate codes (ZCS*) and non-prime rate codes (ZCX*). The ZCS* rate records have been pre-defined in the CIMSRATE member in CIMS.DATAFILE to contain a rate value for shift 1 (prime) and a rate value for shift 2 (non-prime).

  If you were using non-prime CICS rate codes in a release prior to 12.0, then you will need to modify the rate records for the ZCS* rate codes to include the non-prime rate. For example, assume that you had the following CICS non-prime rates defined in a release prior to 12.0:

```
RATE,420,ZCX1,00.120,CICS Transaction Minutes (Non-Prime),,,1,,2,,,
RATE,422,ZCX2,25.000,CICS Cpu Minutes         (Non-Prime),,,1,,2,,,
```

```
RATE,424,ZCX3,00.012,CICS Transactions        (Non-Prime),F,,,0,,,
RATE,426,ZCX4,00.012,CICS Input Messages      (Non-Prime),F,,,,0,,,

RATE,428,ZCX5,00.012,CICS Output Messages     (Non-Prime),F,,,,0,,,
RATE,430,ZCX6,00.012,CICS Messages            (Non-Prime),F,,,,0,,,

RATE,432,ZCX7,00.600,CICS File Access Count   (Non-Prime),,M,,,0,,,
```

You need to make the following changes to the ZCS* CICS rates:

```
RATE,400,ZCS1,00.180:00.120,CICS Transaction Minutes,,,1,,2,,,1
RATE,402,ZCS2,30.000:25.000,CICS Cpu Minutes,,,1,,2,,,1

RATE,404,ZCS3,00.015:00.012,CICS Transactions,F,,,,0,,,1
RATE,406,ZCS4,00.015:00.012,CICS Input Messages,F,,,,0,,,1

RATE,408,ZCS5,00.015:00.012,CICS Output Messages,F,,,,0,,,1
RATE,410,ZCS6,00.015:00.012,CICS Messages,F,,,,0,,,1

RATE,412,ZCS7,00.750:00.600,CICS File Access Count,,M,,,0,,,1
```

The second shift rate value contains the non-prime rate.

CIMS Client File Conversion

The CIMS Client file has been changed to:

- Support the 128-byte account code in the CIMS 79x accounting records.
- Store the current close date and load ID in the configuration record. The current close date and load ID are used by CIMSMONY.

Member ACNVJCL2 in CIMS.DATAFILE contains sample JCL to convert the CIMS Client file.

CIMS Server Dictionary File Conversion

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

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

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

CIMS Historical Data Conversion

Should you convert CIMS data from older releases to the CIMS 12.0 format?

If you are going to implement CIMSMONY, you need to convert your historical data to the CIMS 79x accounting record format. You need to run CIMSACCT using the `CONVERT TO CIMS SERVER` control statement. Member `CONVERTA` in `CIMS.DATAFILE` contains sample JCL for converting your data.

There have been no changes to the CIMS accounting records since release 11.6. There were minor changes in earlier releases. All CIMS programs handle record changes "on the fly" during processing.