CIMS Lab, Inc.

CIMS Mainframe Data Collector and Chargeback System

Release Notes

Version 12.1

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Overview

CIMS Mainframe Data Collector and Chargeback System 12.1 is a minor release that includes:

- The removal of account code table size constraints.
- Generic layout support for CIMS Server Resource (CSR) records.
- WebSphere support.
- CIMS Server and Mainframe rate table synchronization.

There have been no record changes or VSAM file changes since release 12.0.

Account Code Table Size Constraints Removed

Storage constraints have been removed from the CIMS programs. Account code conversion tables are now limited only by the amount of extend private storage (about 2 GB). Extremely large, random account code conversion tables will be supported.

Generic Layout Support for CSR Feeds Added

In release 12.0, member `DCNTZZZZ` was added to `CIMS.DATAFILE`. This member was documented as a model to use when defining a new feed to CIMS. When CIMSACCT encounters a CSR record that is not a standard mainframe feed (S390R792, S390R793, S390DB2, S390CICS, S390DASD, S390TAPE, etc.), it defaults to using the generic layout in the `DCNTZZZZ` member.

In release 12.0, the resource section of member `DCNTZZZZ` could not be changed; it contained 10 resources all packed with a length of 9 and a scale of 6: S9(9)V9(6). In release 12.1, any of the following definitions can be used when defining the resources:

- 4 byte comp (word) - 9(8) COMP
- 8 byte comp (double word) – 9(16) COMP
- 4 byte comp 2 decimal places – 9(6)V99 COMP
- 9 byte packed 6 decimal places - S9(11)V9(6) COMP-3
- 9 byte packed 2 decimal places – S9(15)V9(2) COMP-3

There are 90 bytes reserved in each record for the resources. You can now get up to 22 4-byte comp fields into one 791 record, instead of the previous limitation of 10 9-byte packed fields.

WebSphere Support Added

Implementations of IBM's WebSphere software platform can now be included in your CIMS chargeback. Resource usage is reported by WebSphere using an SMF 120 record. CIMS Mainframe has been enhanced to process the SMF 120 record and convert the data into a format suitable for reporting and processing by CIMS' software. CIMS' extensive account code conversion and table lookup capabilities can be used to convert the WebSphere information to suit your reporting needs.

The CIMSDATA program can be directed to isolate the SMF 120 records into a file that will be processed by the new subsystem interface program, CIMSWEBS. This program is responsible for extracting and formatting the data. All the features of account code conversion can be used to convert the WebSphere data into elements used for reporting and chargeback.

Server and Mainframe Rate Table Synchronization Added

Processing of data can be done on the mainframe or in the distributed environment using CIMS Server. It is possible to use a combination of both environments. If you are using both environments, common rate tables must be used. One environment should be selected as a primary and all updates should be done to the rate tables in that environment. The rate tables on the other system become secondary and will need to be updated with any changes made to the primary tables.

Two new JCL members have been added to `CIMS.DATAFILE` to allow for synchronization of the primary and secondary records.

- Member `CIMSRTSC` provides updating of the mainframe rate tables when the mainframe is the secondary environment. In `CIMSRTSC`, the CIMS Server rate tables are used to populate the mainframe CIMS Rate file. The CIMS Server rate tables are written to a file by a script provided with CIMS Server.
- Member `CIMSRTPR` provides updating of the CIMS Server rate tables when the mainframe is the primary environment. In `CIMSRTPR`, the mainframe CIMS Rate file is used to build a file that is used to recreate the CIMS Server rate tables.

CA-Dispatch Support for Pseudo Type-6 Added

CA-Dispatch can produce a pseudo type-6 record that contains chargeback information related to a recipient of a report. CIMS already supports this record using the program CIMSBDSP. Support has been extended with the addition of a Report Writer report, SPWRP210. This report was created to allow full account code conversion support of the CA-Dispatch information. The CA-Dispatch data is converted into a 793 record that is fully supported by the CIMSACCT and CIMSEXTR programs. All the identifiers included in the CA-Dispatch pseudo type-6 are now available for processing by CIMS.

Program Enhancements

CIMSACCT

This program has had minor changes that include:

- The control statement `MOVE PARSED ACCOUNTING DATA` was added to move the parsed account code into the CIMRC792-SMF-Acctng-Info field instead of the raw SMF30-Account section.
- All non-mainframe CSR record feeds had to be translated to 791 records where only 10 resources could be defined with an internal layout of packed decimal: Cobol Format: S9(11)V9(6) COMP-3. The resources can now be defined as any of the following:
  - 4 byte comp (word) - Cobol Format: 9(8) COMP
  - 8 byte comp (double word) – Cobol Format: 9(16) COMP
  - 4 byte comp 2 decimal places – Cobol Format: 9(6)V99 COMP
  - 9 byte packed 6 decimal places - Cobol Format: S9(11)V9(6) COMP-3
  - 9 byte packed 2 decimal places – Cobol Format: S9(15)V9(2) COMP-3

  This allows for more resources to be defined in a single 791 record. For example, if all the resource fields in a CSR record are integers, the resources can be defined as 4-byte comp fields in the 791 record, allowing for up to 22 resources to be defined.

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).

CIMSCMFP

This program has had minor changes that include a check that was added to see if the CICS records are non-standard. If they are non-standard and the control statement `TABLE FILE DEFAULTS OFF` was not specified, CIMSCMFP will end with a return code 16. This will prevent invalid data from being produced.

CIMSDATA

This program has had minor changes that include the following new control statements that were added to write CA-DISPATCH and WebSphere SMF records to separate DD statements.

- The `WEBSPHERE` control statement will write the WebSphere SMF120 records to the CIMSWEBS DD.
- The `DISPATCH` control statement will write the CA-DISPATCH pseudo type SMF 6 records to the CIMSCADS DD.

CIMSEXTR

This program has had minor changes that include a new header format for the CIMS Server Resource Plus (CSR+) record. The header is now enclosed in quotes.

CIMSIMS1 and CIMSIMS2

This program has had minor changes that include support for IMS release 8.1.

CIMSMONY

This program has had minor changes that include support for the updated CSR+ record header format.

CIMSWEBS

This is a new program that supports the WebSphere SMF 120 records. Member `CIMSWEBS` in `CIMS.DATAFILE` contains execution JCL that can be incorporated into the daily SMF processing.

CIMS Report Writer

CIMS Report Writer release 2.8 has been included since CIMS Mainframe release 11.4. There were minor changes to some reports.

Conversions from Release 12.0

No conversions are necessary from release 12.0.

Conversions 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.DATAFILE`.

Note • During conversion, the current value in flag 3 is automatically converted appropriately for the CPU rate codes specified under *CIMSBILL* on page 6 . For example, if the current value for flag 3 is blank, the value is converted to 1 (divide total resources by 60).

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.DATAFILE`.

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.