

CMS Manual System	Department of Health & Human Services (DHHS)
Pub 100-20 One-Time Notification	Centers for Medicare & Medicaid Services (CMS)
Transmittal 1569	Date: November 6, 2015
	Change Request 9425

SUBJECT: Shared System Enhancement 2015: Combined Common Edits/Enhancements Module (CEEM) Claim Tracking and Logging.

I. SUMMARY OF CHANGES: The Centers for Medicare & Medicaid Services (CMS) requests that the Multi-Carrier System (MCS) Maintainer update the claim tracking and logging systems for CCEM. Logging is a method used for debugging or capturing performance and error information from an application during execution. Logging works by having log statements inserted into application code. When an anomalous processing condition is encountered, the related processing information is written to a log file for later analysis and debugging purposes.

The CCEM Java application currently uses the Log4j utility, version 1.2.17. A newer version of the Log4j logger named Log4j 2 is now available. Log4j 2 contains next-generation lock-free Asynchronous Loggers. In multi-threaded scenarios Asynchronous Loggers have 10-times higher throughput and orders of magnitude lower latency than Log4j. It provides a real improvement in efficiency for logging application performance.

By moving to the Log4j 2 version of the logging utility, CCEM will see improved performance for logging. The change also moves the applications to using the new version of the logging utility which is recommended for long-term application sustainability.

The Simple Logging Facade for Java (SLF4J) serves as a simple facade or abstraction for various logging frameworks. SLF4J allows the end-user to plug in the desired logging framework at *deployment* time.

A separate Healthcare Integrated General Ledger Accounting System (HIGLAS) Change Request (CR) will be issued for MCS and Fiscal Intermediary Shared System (FISS) for these Java changes.

EFFECTIVE DATE: April 1, 2016

**Unless otherwise specified, the effective date is the date of service.*

IMPLEMENTATION DATE: April 4, 2016

Disclaimer for manual changes only: The revision date and transmittal number apply only to red italicized material. Any other material was previously published and remains unchanged. However, if this revision contains a table of contents, you will receive the new/revised information only, and not the entire table of contents.

II. CHANGES IN MANUAL INSTRUCTIONS: (N/A if manual is not updated)

R=REVISED, N=NEW, D=DELETED-Only One Per Row.

R/N/D	CHAPTER / SECTION / SUBSECTION / TITLE
N/A	

III. FUNDING:

For Medicare Administrative Contractors (MACs):

The Medicare Administrative Contractor is hereby advised that this constitutes technical direction as defined in your contract. CMS does not construe this as a change to the MAC Statement of Work. The contractor is not obligated to incur costs in excess of the amounts allotted in your contract unless and until specifically authorized by the Contracting Officer. If the contractor considers anything provided, as described above, to be outside the current scope of work, the contractor shall withhold performance on the part(s) in question and immediately notify the Contracting Officer, in writing or by e-mail, and request formal directions regarding continued performance requirements.

IV. ATTACHMENTS:

One Time Notification

Attachment - One-Time Notification

Pub. 100-20	Transmittal: 1569	Date: November 6, 2015	Change Request: 9425
--------------------	--------------------------	-------------------------------	-----------------------------

SUBJECT: Shared System Enhancement 2015: Combined Common Edits/Enhancements Module (CCEM) Claim Tracking and Logging.

EFFECTIVE DATE: April 1, 2016

**Unless otherwise specified, the effective date is the date of service.*

IMPLEMENTATION DATE: April 4, 2016

I. GENERAL INFORMATION

A. Background: The Centers for Medicare & Medicaid Services (CMS) requests that the Multi-Carrier System (MCS) Maintainer update the claim tracking and logging systems for CCEM. Logging is a method used for debugging or capturing performance and error information from an application during execution. Logging works by having log statements inserted into application code. When an anomalous processing condition is encountered, the related processing information is written to a log file for later analysis and debugging purposes.

The CCEM Java application currently uses the Log4j utility, version 1.2.17. A newer version of the Log4j logger named Log4j 2 is now available. Log4j 2 contains next-generation lock-free Asynchronous Loggers. In multi-threaded scenarios Asynchronous Loggers have 10-times higher throughput and orders of magnitude lower latency than Log4j. It provides a real improvement in efficiency for logging application performance.

By moving to the Log4j 2 version of the logging utility, CCEM will see improved performance for logging. The change also moves the applications to using the new version of the logging utility which is recommended for long-term application sustainability.

The Simple Logging Facade for Java (SLF4J) serves as a simple facade or abstraction for various logging frameworks. SLF4J allows the end-user to plug in the desired logging framework at *deployment* time.

A separate Healthcare Integrated General Ledger Accounting System (HIGLAS) Change Request (CR) will be issued for MCS and Fiscal Intermediary Shared System (FISS) for these Java changes.

B. Policy: N/A

II. BUSINESS REQUIREMENTS TABLE

"Shall" denotes a mandatory requirement, and "should" denotes an optional requirement.

Number	Requirement	Responsibility										
		A/B MAC			D M E	Shared- System Maintainers				Other		
		A	B	H H H		M A C	F I S S	M C S	V M S		C W F	
9425.1	The contractor shall update the CCEM to use the current version of the Log4J 2 application.							X				CEM

III. PROVIDER EDUCATION TABLE

Number	Requirement	Responsibility				
		A/B MAC			D M E	C E D I
		A	B	H H H		
	None					

IV. SUPPORTING INFORMATION

Section A: Recommendations and supporting information associated with listed requirements: N/A

"Should" denotes a recommendation.

X-Ref Requirement Number	Recommendations or other supporting information:

Section B: All other recommendations and supporting information: N/A

V. CONTACTS

Pre-Implementation Contact(s): Rae Ann Sprecher-Frey, 410-786-3110 or rae.sprecher-frey@cms.hhs.gov

Post-Implementation Contact(s): Contact your Contracting Officer's Representative (COR).

VI. FUNDING

Section A: For Medicare Administrative Contractors (MACs):

The Medicare Administrative Contractor is hereby advised that this constitutes technical direction as defined in your contract. CMS does not construe this as a change to the MAC Statement of Work. The contractor is not obligated to incur costs in excess of the amounts allotted in your contract unless and until specifically authorized by the Contracting Officer. If the contractor considers anything provided, as described above, to be outside the current scope of work, the contractor shall withhold performance on the part(s) in question and immediately notify the Contracting Officer, in writing or by e-mail, and request formal directions regarding continued performance requirements.

ATTACHMENTS: 0