

Documentation Updates for APAR PH45216

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Preface

This document describes the IBM publication changes made to z/OS Language Environment by APAR PH45216.

The text marked in yellow are the newly added sections.

z/OS Language Environment Programming Reference

Part 2. Language Environment callable services

Chapter 3. Quick reference tables for Language Environment services

General callable services

Table 12. General callable services

Callable service	Function
CEEUSGD	Allows high-level languages to call the IFAUSAGE service for usage data collection.
CEEMICT	Allows high level language programs to manage the interoperability state of current task.

Chapter 5. Callable services

CEEMICT— Manage the interoperability state of current task.

CEEMICT allows high level language programs to manage the interoperability state of current task. For its AMODE 64 equivalent, see `__le_ceemict()`.

```
Syntax  
|>>---CEEMICT---(---function_code---,---MICT_ptr ---,---fc---)----- ><|  
|_____|
```

function_code(input)

A required parameter, a fullword integer containing the function code of one of the following values:

- 1- QUERY: Get state_ptr and state_flag.
- 2- SET: Set the state_flag for current task.
- 3- UNSET: Unset the state_flag for current task.

MICT_ptr(input/output)

A pointer that points to the MICT_CB structure that describes the parameters to be input/output by CEEMICT.

MICT_CB structure:

Name	Description
state_flag	A 32-bit flag.
state_ptr	A full word pointer.

The usage of MICT_CB is decided by function_code, see the table below:

function_code	MICT_CB Description
1 QUERY	<p>state_flag(output): A 32-bit flag that is used to obtain or set the state flag.</p> <ul style="list-style-type: none"> Bit 0 (Leftmost bit): Current TCB is sharing a Db2 connection in the Java Interlanguage Batch environment using RRSAF. Bit 1-31: Reserved <p>All reserved bits are initialized to zero by Language Environment.</p> <p>state_ptr(output): A full word pointer containing the address of SW3164. If state_ptr is not zero, it means the current task is in AMODE 31 and AMODE 64 switching state.</p> <p>For more information about SW3164, see AMODE Switching Status Control Block in z/OS Language Environment Vendor Interfaces.</p>
2 SET	<p>state_flag(input): A 32-bit mask that is used to set the state flag. If a bit within the mask is set to 1, the corresponding flag bit will be turned ON; otherwise, it is unchanged.</p> <p>Refer to QUERY function code for the detailed layout of flag bits.</p> <p>state_ptr(output): Not used.</p>
3 UNSET	<p>state_flag(input): A 32-bit mask that is used to set the state flag. If a bit within the mask is set to 1, the corresponding flag bit will be turned OFF; otherwise, it is unchanged.</p> <p>Refer to QUERY function code for the detailed layout of flag bits.</p> <p>state_ptr(output): Not used.</p>

fc

A 12-byte Feedback Code indicating the results of this service. The following symbolic conditions can result from this service:

Code	Severity	Message number	Message text
CEE000	0	-	The service completed successfully.
CEE3LA	3	3754	Incorrect parameters detected.

z/OS Language Environment Programming Guide

Part 3. Language Environment concepts, services, and models

Chapter 23. General callable services

List of general callable services

Add CEEMICT to Related callable services:

CEEMICT

Allows high level language programs to manage the interoperability state of current task.

Add the description of CEEMICT.

CEEMICT callable service

CEEMICT callable service

CEEMICT is a callable service that allows high level language programs to manage the interoperability state of current task.

z/OS Language Environment Concepts Guide

Chapter 3. Language Environment callable services

Language Environment callable services

Table 6. General services for z/OS 2.4

Table 6. General services (continued) for z/OS 2.5

Service name	Description
CEEMICT (Manage the interoperability state of current task)	Allows high level language programs to manage the interoperability state of current task.

z/OS Language Environment Programming Guide for 64-bit Virtual Addressing Mode

Part 3. Language Environment concepts, services, and models

Chapter 19. General callable services

Understanding the basics

Related services

XL C/C++ APIs

`__le_ceemict()`

Manage the interoperability state of current task.

`__le_ceemict()`

The `__le_ceemict()` function allows high level language programs to manage the interoperability state of current task. For more information about the `__le_ceemict()` function, see `__le_ceemict()` — Manage the interoperability state of current task in z/OS XL C/C++ Runtime Library Reference.

z/OS XL C/C++ Runtime Library Reference

Chapter 2. Header files

`__le_api.h` — AMODE 64 C functions in Language Environment

The `__le_api.h` header file declares the following AMODE 64 C functions in Language Environment:

<code>__le_ceegtjs()</code>	<code>__le_ceedsgd()</code>	<code>__le_cib_get()</code>
<code>__le_condition_token_build()</code>	<code>__le_msg_add_insert()</code>	<code>__le_msg_get()</code>
<code>__le_msg_get_and_write()</code>	<code>__le_msg_write()</code>	<code>__le_set_debug_resume_mch()</code>
<code>__le_ceemict()</code>		

Chapter 3. Library functions

`__le_ceemict()` — Manage the interoperability state of current task

Standards

Standards / Extensions	C or C++	Dependencies
Language Environment	both	AMODE 64

Format

```
#include <__le_api.h>
```

```
void __le_ceemict (_INT4 *function_code, POINTER *MICT_ptr, FEED_BACK *fc)
```

Compile requirement: N/A.

For its AMODE 31 equivalent, see CEEMICT.

General description

`function_code`(input)

A required parameter, a fullword integer containing the function code of one of the following values:

- 1- QUERY: Get `state_ptr` and `state_flag`.
- 2- SET: Set the `state_flag` for current task.
- 3- UNSET: Unset the `state_flag` for current task.

`MICT_ptr`(input/output)

A pointer that points to the `MICT_CB` structure that describes the parameters to be input/output by `__le_ceemict()`.

MICT_CB structure:

Name	Description
state_flag	A 32-bit flag.
state_ptr	A full word pointer.

The usage of MICT_CB is decided by function_code, see the table below:

function_code	MICT_CB Description
1 QUERY	<p>state_flag(output): A 32-bit flag that is used to obtain or set the state flag.</p> <ul style="list-style-type: none"> Bit 0 (Leftmost bit): Current TCB is sharing a Db2 connection in the Java Interlanguage Batch environment using RRSAP. Bit 1-31: Reserved <p>All reserved bits are initialized to zero by Language Environment.</p> <p>state_ptr(output): A full word pointer containing the address of SW3164. If state_ptr is not zero, it means the current task is in AMODE 31 and AMODE 64 switching state.</p> <p>For more information about SW3164, see AMODE Switching Status Control Block in z/OS Language Environment Vendor Interfaces.</p>
2 SET	<p>state_flag(input): A 32-bit mask that is used to set the state flag. If a bit within the mask is set to 1, the corresponding flag bit will be turned ON; otherwise, it is unchanged.</p> <p>Refer to QUERY function code for the detailed layout of flag bits.</p> <p>state_ptr(output): Not used.</p>
3 UNSET	<p>state_flag(input): A 32-bit mask that is used to set the state flag. If a bit within the mask is set to 1, the corresponding flag bit will be turned OFF; otherwise, it is unchanged.</p> <p>Refer to QUERY function code for the detailed layout of flag bits.</p> <p>state_ptr(output): Not used.</p>

fc

A 12-byte Feedback Code indicating the results of this service. The following symbolic conditions can result from this service:

Code	Severity	Message number	Message text
------	----------	----------------	--------------

CEE000	0	-	The service completed successfully.
CEE3LA	3	3754	Incorrect parameters detected.

Appendix B. Function support table

Library function support

Table 68. Library function support table (continued) for z/OS 2.4

Table 69. Library function support table (continued) for z/OS 2.5

Function	Enhanced ASCII Support Level	Minimum Value for _ENHANCED_ASCII_EXT Feature Test Macro	Preinitialized Environments for Authorized Programs Support Level	Notes
__le_ceemict()	No		Yes	

z/OS Language Environment Runtime Messages

Chapter 1. Language Environment runtime messages

CEE3754S Incorrect parameters detected.

Explanation

Add this new explanation to CEE3754S.

If this message was returned by CEEMICT or `__le_ceemict()`, one or more of the following may be true:

- The `function_code` is not valid.

- The `MICT_ptr` is not valid.