

CICS Transaction Server for z/OS
Version 4 Release 1



CICSplex SM Application Programming Reference

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Version 4 Release 1



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Note

Before using this information and the product it supports, read the information in "Notices" on page 185.

This edition applies to Version 4 Release 1 of CICS Transaction Server for z/OS (product number 5655-S97) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Preface

This manual documents intended Programming Interfaces that allow the customer to write programs to obtain the services of Version 4 Release 1.

This book provides programming information for the CICSplex[®] System Manager (CICSplex SM) element of CICS[®] Transaction Server for z/OS[®]. It describes how to use the application programming interface (API) to access CICSplex SM data and services.

Who this book is for

This book is for application programmers who want to access the services of CICSplex SM.

What you need to know

It is assumed that you have experience writing programs in COBOL, C, PL/I, assembler language, or REXX.

You should also have knowledge of the CICSplex SM concepts and terminology.

How to use this book

This book contains reference information about the API commands.

Each command description includes:

- A description of what the command does
- The syntax of the command
- A description of the command options in alphabetical order
- A list of the command response values.

Terminology

In the text of this book, the term **CICSplex SM** (spelled with an uppercase letter 'P') means the IBM[®] CICSplex SM element of CICS Transaction Server for z/OS. The term **CICSplex** (spelled with a lowercase letter 'p') means the largest set of CICS systems to be managed by CICSplex SM as a single entity.

Other terms used in this book are:

Term Meaning

API Application programming interface

ASM Assembler language

CICS TS for OS/390[®]

The CICS element of the CICS TS for OS/390

MVS[™] MVS/Enterprise Systems Architecture SP (MVS)

CICS System Connectivity

This release of CICSplex SM can be used to control CICS systems that are directly connected to it.

For this release of CICSplex SM, the connectable CICS systems are:

- CICS Transaction Server for z/OS 3.1
- CICS Transaction Server for z/OS 2.3
- CICS Transaction Server for z/OS 2.2
- CICS Transaction Server for OS/390 1.3

You can use this release of CICSplex SM to control systems running supported releases of CICS that are connected to, and managed by, your previous release of CICSplex SM. However, if you have any directly-connectable release levels of CICS, as listed above, that are connected to a previous release of CICSplex SM, you are strongly recommended to migrate them to the current release of CICSplex SM, to take full advantage of the enhanced management services. See the *CICS Transaction Server for z/OS Migration from CICS TS Version 2.3* for information on how to do this.

Table 1 shows which supported CICS systems can be directly connected to which releases of CICSplex SM.

Table 1. Directly-connectable CICS systems by CICSplex SM release

CICS system	CICSplex SM component of CICS TS 3.1	CICSplex SM component of CICS TS 2.3	CICSplex SM component of CICS TS 2.2	CICSplex SM component of CICS TS 1.3
CICS TS 3.1	Yes	No	No	No
CICS TS 2.3	Yes	Yes	No	No
CICS TS 2.2	Yes	Yes	Yes	No
CICS TS 1.3	Yes	Yes	Yes	Yes
TXSeries 4.3.0.4	No	Yes	Yes	No
TXSeries 5.0	No	Yes	Yes	No

Changes in CICS Transaction Server for z/OS, Version 4 Release 1

For information about changes that have been made in this release, please refer to *What's New* in the information center, or the following publications:

- *CICS Transaction Server for z/OS What's New*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 3.2*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 3.1*
- *CICS Transaction Server for z/OS Upgrading from CICS TS Version 2.3*

Any technical changes that are made to the text after release are indicated by a vertical bar (|) to the left of each new or changed line of information.

Chapter 1. Introduction to the commands

This topic provides standard usage information about the CICSplex SM application programming interface (API) commands.

Using the command-level interface

This section describes how to use the CICSplex SM command-level interface.

Command format

The format of an API command when issued through the command-level interface is EXECUTE CPSM (or EXEC CPSM) followed by the name of the required command and possibly by one or more options.

The syntax is as follows:

```
EXEC CPSM command option(arg)....
```

where:

command

Describes the operation required (for example, CONNECT).

option Describes any of the required or optional facilities available with each command. Some options are followed by an argument in parentheses. You can write options (including those that require arguments) in any order.

arg Which is short for argument, is a value such as *data-value* or *data-ref*. A *data-value* can be a constant. This means that an argument that sends data to CICSplex SM is generally a *data-value*. An argument that receives data from CICSplex SM must be a *data-ref*.

Here is an example of an EXEC CPSM command:

```
EXEC CPSM CONNECT
          USER(JONES) VERSION(0310)
          CONTEXT(EYUPLX01) SCOPE(EYUCSG01)
          THREAD(THRDTKN)
          RESPONSE(RESVAR) REASON(REASVAR)
```

You must add an end-of-command delimiter that is valid for the programming language you are using. In COBOL programs, for example, the end-of-command delimiter is an END-EXEC statement. In PL/I and C programs, the delimiter is a semicolon (;).

Argument values

You must specify the parenthesized argument values that follow options in an API command.

These are as follows:

data-value

A sending argument used to pass data from your program to CICSplex SM.

The data you pass can be fullword binary data, fixed or variable length character data, or unspecified. If the data type is unspecified, CICSplex SM

assumes a composite data structure made up of multiple fields of varying data types. The argument can be in one of these forms:

- Variable name
- Self-defining term
- Expression.

data-value includes *data-ref* as a subset.

data-ref

A receiving (or sending and receiving) argument used primarily to pass data from CICSplex SM to your program.

The data can be any of the same types allowed for *data-value* arguments. However, the argument must be a named variable.

In some cases, you can use a *data-ref* argument to provide input to CICSplex SM before CICSplex SM returns its output to you (the COUNT option on the FETCH command is an example of this).

data-area

A sending or receiving argument used to identify a buffer that contains data. A *data-area* argument can be considered a *data-ref* argument with an unspecified data type. A *data-area* cannot be defined by a self-defining term or expression; it must be a named variable.

ptr-ref A receiving argument used to pass pointer values from CICSplex SM to your program.

A *ptr-ref* argument is a special form of *data-ref* argument. The data being passed is an address pointer, rather than binary or character data.

cpsm-token

A sending or receiving argument used to pass identifying tokens that are generated by CICSplex SM. A *cpsm-token* argument can be considered a *data-ref* argument with an unspecified data type.

Tokens are created by CICSplex SM to identify API processing threads, result sets, filters, and notifications.

Because token values are created by CICSplex SM, your program must receive a token into a variable before it can specify that token on subsequent commands. A token cannot be defined by a self-defining term or expression; it must be a named variable.

COBOL argument values

The COBOL argument values can be replaced.

data-value

Can be replaced by any COBOL data name of the correct data type for the argument, or by a constant that can be converted to the correct type for the argument. The data type can be specified as one of the following:

- Halfword binary — PIC S9(4) USAGE BINARY
- Fullword binary — PIC S9(8) USAGE BINARY
- Character string — PIC X(n) where “n” is the number of bytes.

data-value includes *data-ref* as a subset.

data-ref

Can be replaced by any COBOL data name of the correct data type for the argument. The data type can be specified as one of the following:

- Halfword binary — PIC S9(4) USAGE BINARY

- Fullword binary — PIC S9(8) USAGE BINARY
- Character string — PIC X(n) where “n” is the number of bytes.

Where the data type is unspecified, *data-ref* can refer to an elementary or group item.

data-area

Can be replaced by any COBOL data name with a data type of halfword binary (PIC S9(4) COMP), fullword binary (PIC S9(8) COMP), or character string (PIC X(n)).

ptr-ref Can be replaced by a pointer variable or an ADDRESS special register.

cpsm-token

Can be replaced by any COBOL data name with a data type of fullword binary, PIC S9(8) COMP.

C argument values

The C argument values can be replaced.

data-value

Can be replaced by any C expression that can be converted to the correct data type for the argument. The data type can be specified as one of the following:

- Halfword binary — short int
- Fullword binary — long int
- Character array — char[n] where “n” is the number of bytes in the field (the field must be padded with blank spaces).

data-value includes *data-ref* as a subset.

data-ref

Can be replaced by any C data reference that has the correct data type for the argument. The data type can be specified as one of the following:

- Halfword binary — short int
- Fullword binary — long int
- Character array — char[n] where “n” is the number of bytes in the field (the field is padded with blank spaces).

If the data type is unspecified, *data-ref* can refer to a scalar data type, array, or structure. The reference must be to contiguous storage.

data-area

Can be replaced by any named variable with a data type of halfword binary (short int), fullword binary (long int), or character array (char[n]).

ptr-ref Can be replaced by any C pointer type reference.

cpsm-token

Can be replaced by any named variable with a data type of fullword binary, long int.

PL/I argument values

The PL/I argument values can be replaced.

data-value

Can be replaced by any PL/I expression that can be converted to the correct data type for the argument. The data type can be specified as one of the following:

- Halfword binary — FIXED BIN(15)

- Fullword binary — FIXED BIN(31)
- Character string — CHAR(n) where “n” is the number of bytes.

data-value includes *data-ref* as a subset.

data-ref

Can be replaced by any PL/I data reference that has the correct data type for the argument. The data type can be specified as one of the following:

- Halfword binary — FIXED BIN(15)
- Fullword binary — FIXED BIN(31)
- Character string — CHAR(n) where “n” is the number of bytes.

If the data type is unspecified, *data-ref* can refer to an element, array, or structure; for example, FROM(P->STRUCTURE) LENGTH(LNG). The reference must be to connected storage.

The data area must also have the correct PL/I alignment attribute: ALIGNED for binary items, and UNALIGNED for strings.

If you use a varying data string without an explicit length, the data passed begins with two length bytes, and its length is the maximum length declared for the string. If you explicitly specify a length in the command, the data passed has this length; that is, the two length bytes followed by data up to the length you specified.

data-area

Can be replaced by any named variable with a data type of halfword binary (FIXED BIN(15)), fullword binary (FIXED BIN(31)), or character string (CHAR(n)).

ptr-ref Can be replaced by any PL/I reference of type POINTER ALIGNED.

cpsm-token

Can be replaced by any named variable with a data type of fullword binary, FIXED BIN(31).

Assembler language argument values

In general, an argument may be either the address of the data or the data itself (in assembler-language terms, either a relocatable expression or an absolute expression).

A relocatable expression must not contain unmatched brackets (outside quotation marks) or unmatched quotation marks (apart from length-attribute references). If this rule is obeyed, any expression can be used, including literal constants, such as =AL2(100), forms such as 20(0,R11), and forms that use the macro-replacement facilities.

An absolute expression must be a single term that is either a length-attribute reference, or a self-defining constant.

Care must be taken with equated symbols, which should be used only when referring to registers (pointer references). If an equated symbol is used for a length, for example, it is treated as the address of the length and an unpredictable error occurs.

The argument values can be replaced as follows:

data-value

Can be replaced by a relocatable expression that is an assembler-language reference to data of the correct type for the argument, or by a constant of the correct type for the argument.

data-ref

Can be replaced by a relocatable expression that is an assembler-language reference to data of the correct type for the argument.

data-area

Can be replaced by a relocatable expression that is an assembler-language reference to data with a type of halfword (DS H), fullword (DS F), or character string (CLn).

ptr-ref

Can be replaced by any absolute expression that is an assembler-language reference to a register.

cpsm-token

Can be replaced by a relocatable expression that is an assembler-language reference to data with a type of fullword, DS F.

Using CICSPlex SM with REXX

You can invoke CICSPlex SM API commands from a REXX program.

Command format

An API command can be passed from REXX to CICSPlex SM either by using the REXX ADDRESS command or by using the EYUAPI() function.

The format of the REXX ADDRESS command is as follows:

```
ADDRESS CPSM 'command option(arg)...'
```

This method of calling the API invokes a CICSPlex SM host subcommand environment.

Alternatively, you can use the EYUAPI() function supplied by CICSPlex SM:

```
var = EYUAPI('command option(arg)...')
```

This method invokes the CICSPlex SM REXX function package.

Note that with both methods you can enter text in either upper or lower case.

Here is an example of an API command as it would be issued from a REXX program:

```
var = EYUAPI('CONNECT'
            'CONTEXT('WCONTEXT')' ,
            'SCOPE('WSCOPE')' ,
            'VERSION(0310)' ,
            'THREAD(THRDTKN)' ,
            'RESPONSE(RESPVAR)' ,
            'REASON(REASVAR)')
:
```

Argument values

The CICSPlex SM API makes full use of the standard REXX variable interface.

A *data-value* argument is considered to be character input. Binary data (including EYUDA and CVDA values) is translated into the appropriate internal format. User tokens are not translated.

data-ref

A receiving (or sending and receiving) argument used primarily to pass data from CICSplex SM to your program.

A *data-ref* argument must be a named variable that can be used to receive the resulting output. The output data is translated as appropriate:

- Character data is not translated; the data is placed into the variable as is.
- Binary data is translated to display format (decimal) and placed into the variable.
- User tokens are not translated; the token value is placed into the variable as is.
- Address values are not translated; the specified storage buffer is placed directly into one or more variables.

In some cases, you can use a *data-ref* argument to provide input to CICSplex SM before CICSplex SM returns its output to you (the COUNT option on the FETCH command is an example of this). If a *data-ref* argument can be supplied as input, you must specify a variable for that argument. If you do not want to specify an input value, you should initialize the variable.

data-area

A sending or receiving argument used to identify a buffer that contains data. A *data-area* argument must be a named variable.

For output buffers that could receive multiple resource table records, CICSplex SM creates (or fills) stem variables to hold the data. The zero entry of the stem array indicates the number of entries in the array.

For example, in the stem variable called W_INT0_EVALDEF, the W_INT0_EVALDEF.0 entry contains the number of EVALDEF resource table records returned. The entries W_INT0_EVALDEF.1 through W_INT0_EVALDEF.n contain the actual resource table records.

A stem variable is created regardless of whether the actual output is a single record or multiple records.

ptr-ref A receiving argument used to pass pointer values from CICSplex SM to your program.

A *ptr-ref* argument must be a named variable that can be used to receive the resulting output. The data being passed is a character representation of a hexadecimal address.

cpsm-token

A sending or receiving argument used to pass identifying tokens that are generated by CICSplex SM.

A *cpsm-token* argument must be a named variable. Tokens are not translated; the token value is placed into the variable as is.

Note: Each variable (or stem variable) returned by CICSplex SM contains an entire resource table record. You can use the TPARSE command to break a record into individual fields. For a description of this command, see Chapter 3, "REXX functions and commands," on page 129.

Syntax notation used in this book

The CICSplex SM API commands are presented in a standard way. The EXEC CPSM that precedes the command name in the command-level interface is not shown, nor is the end-of-command delimiter. Likewise, the ADDRESS CPSM or var=EYUAPI() that is required for the REXX run-time interface is not shown.

To interpret the syntax diagrams follow the arrows from left to right. The conventions are:

Symbol	Meaning
	A set of mutually exclusive alternatives, one of which you <i>must</i> code.
	A set of mutually exclusive alternatives, one of which you <i>may</i> code.
	A set of alternatives, any number of which you may code.
	Alternatives where A is the default.
	See the separate syntax fragment whose name is shown.
Punctuation and uppercase characters	Code exactly as shown.
Lowercase italics	Code your own text, as appropriate (for example, <i>name</i>).

For example, with `CONNECT VERSION(data-value)` you must code `CONNECT VERSION` and `()` as they appear, but are free to code any four-character number that represents a valid release of CICSplex SM.

MVS restrictions

A number of general restrictions apply to all CICSplex SM API commands.

- The program must be in primary addressing mode when invoking any CICSplex SM service. The primary address space must be the home address space. All parameters passed to CICSplex SM must reside in the primary address space.
- CICSplex SM does not always preserve access registers across commands. If your program uses access registers, it should save them before invoking a CICSplex SM service, and restore them before reusing them.

Language considerations

All of the language considerations that apply to the various environments (CICS, MVS batch, TSO, and NetView®) also apply to CICSplex SM programs written to run in those environments.

CICS and CICSplex SM value data areas

The values for some CICSplex SM resource table attributes are maintained in an encoded form.

These values can be CICSplex SM value data areas (EYUDAs) or CICS value data areas (CVDAs). You can use one of two built-in translator functions to translate these values:

EYUDAs

Use the CICSplex SM translator function called EYUVALUE.

The EYUVALUE function is not available to programs written in REXX. You can use the **TPARSE** command, that is supplied specifically for REXX programs, to access and translate the attribute values in a resource table. For a description of this command, see Chapter 3, “REXX functions and commands,” on page 129.

CVDAs

Use the CICS translator function called DFHVALUE.

In some CICS environments, the DFHVALUE function might return incompatible CVDA values. Because these CVDA values conflict with values used in other CICS environments, CICSplex SM must modify them to retain their uniqueness. CICSplex SM adds 9000 to the value returned by DFHVALUE for each of these CVDA attributes.

For example, consider the following COBOL statement:

```
MOVE EYUVALUE(QUIESCING) TO EYUDATA
```

This statement translates the EYUDA character value of QUIESCING into its numeric equivalent of 48 when the program is translated. CICSplex SM also provides a **TRANSLATE** command to translate EYUDA and CVDA values at run time. You can use **TRANSLATE** to convert an EYUDA or CVDA value that is associated with a specific resource table and attribute:

```
EXEC CPSM TRANSLATE OBJECT(WLMAWAOR)
                     ATTRIBUTE(STATUS)
                     FROMCV(48)
                     TOCHAR(EYUCHAR)
                     RESPONSE(RESPDATA)
                     REASON(READATA)
```

This command translates the EYUDA value for the STATUS attribute of the WLMAWAOR resource table into its character value when the program runs.

For a description of the **TRANSLATE** command, see “TRANSLATE” on page 117. For a list of the EYUDA values used by CICSplex SM, see Chapter 5, “EYUDA values,” on page 145.

Length options

Many API commands involve the transfer of data between the application program and CICSplex SM.

In COBOL, PL/I, and Assembler language, the translator can default certain length options; this means they may be optional in programs that specify data areas. In C and REXX, all length options must be specified.

The CICSplex SM API allows most data-value arguments, which are only passed from your program to CICSplex SM, to default. The exception is the **LENGTH** option on the following commands:

- **CREATE**
- **REMOVE**
- **UPDATE**

On the other hand, data-ref arguments, which can be passed from your program to CICSplex SM and back again, must always be specified.

When an API command offers a length option, it is always expressed as a signed fullword binary value. This puts a theoretical upper limit of 2 147 483 647 bytes on the length. The achievable upper limit varies from command to command and with various language compilers, but the maximum limit of all input data areas on an API command is typically 16 124 bytes. When this limit is exceeded the API command fails with a response of **INVALIDCMD** and a reason of **LENGTH**.

RESPONSE and REASON options

Once an API command completes processing, it returns a response and, if appropriate, a reason. You must specify the **RESPONSE** and **REASON** options on each command to receive the response and reason values returned by that command.

Note: The **TBUILD** and **TPARSE** commands, which can be used only with the REXX run-time interface, do not use the **RESPONSE** and **REASON** options. The result of these REXX-specific processes is returned by their **STATUS** option. For more information, see the descriptions of the **TBUILD** and **TPARSE** commands in Chapter 3, “REXX functions and commands,” on page 129.

RESPONSE (*data-ref*)

data-ref is a user-defined variable. On return from the command, it contains a character value that describes the result of command processing. **RESPONSE** values are given in the description of each command.

REASON (*data-ref*)

data-ref is a user-defined variable. On return from the command, it contains a value that further qualifies the response to certain commands. **REASON** values are given with the **RESPONSE** values, for those responses that use them.

For more information about the **RESPONSE** and **REASON** options, see *CICSplex System Manager Application Programming Guide*. For a summary of **RESPONSE** and **REASON** values by command, see Chapter 4, “**RESPONSE** and **REASON** values,” on page 137.

Chapter 2. The API commands

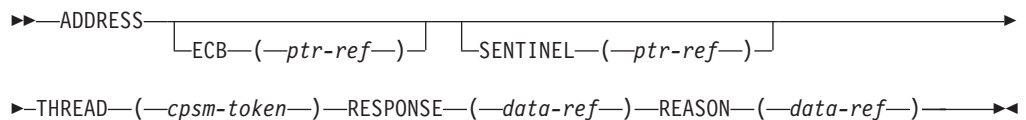
This section contains detailed descriptions of the CICSplex SM API commands. All of these commands can be used with either the command-level interface or the REXX run-time interface.

Each description includes the following, as appropriate:

- A description of the command
- Usage notes
- Related commands
- Syntax of the command
- Available options for the command
- Responses returned by the command

ADDRESS

Provide access to CICSplex SM storage areas.



Description

The ADDRESS command provides access to CICSplex SM storage areas.

- ADDRESS returns the addresses of two control fields that are associated with each API thread:
 - the event control block (ECB)
 - the sentinel.
- If your program is written in REXX, the ECB and sentinel values are returned as character representations of the hexadecimal addresses. You have to use the REXX STORAGE function to access the storage at those addresses.

Related commands

LISTEN, RECEIVE

Options

ECB(*ptr-ref*)

Names a variable to receive the address of the ECB that will be posted when asynchronous requests associated with this thread are awaiting processing. The ECB field is cleared whenever the counter value in the SENTINEL field reaches 0.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SENTINEL(*ptr-ref*)

Names a variable to receive the address of a 4-byte counter of completed asynchronous requests associated with this thread.

The sentinel value increases each time an asynchronous request completes. Examples of asynchronous requests include:

- A command is issued with the NOWAIT option
- An event occurs that is named in a LISTEN command.

The sentinel value decreases when a RECEIVE command is issued. If the counter value is 0, it means there are no outstanding asynchronous requests to be received.

Note: Each API processing thread can handle a maximum of 256 asynchronous requests (as indicated by the SENTINEL counter) at one time.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the ADDRESS command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- ECB
- SENTINEL
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

CANCEL

Cancel the notification request produced by a previous LISTEN command.

```
►►—CANCEL—NOTIFICATION—(—cpsm-token—)—THREAD—(—cpsm-token—)—————►
►—RESPONSE—(—data-ref—)—REASON—(—data-ref—)—————►►
```

Description

This command cancels the notification request produced by a previous LISTEN command.

Related commands

LISTEN

Options

NOTIFICATION(*cp_sm-token*)

Identifies the notification request to be cancelled. The *cp_sm-token* value that identifies a notification request is returned by the LISTEN command.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cp_sm-token*)

Identifies the API thread to be used for this operation. The *cp_sm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the CANCEL command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- NOTIFICATION
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

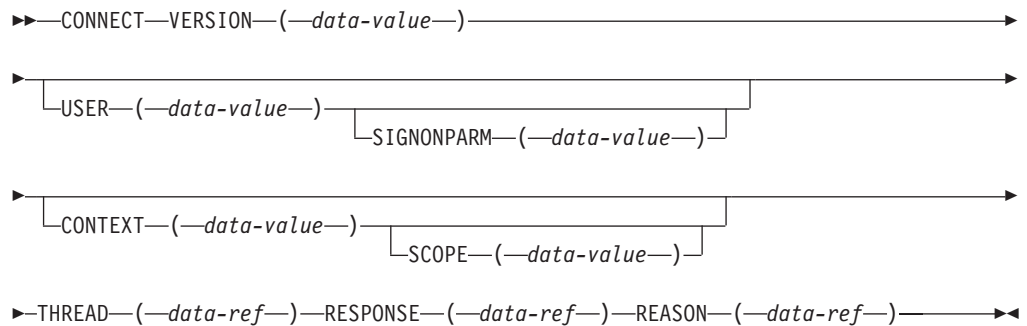
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

CONNECT

Establish a connection with CICSplex SM, defines an API processing thread, and provides default settings to be used by the thread.



Description

The specifics of the connection process depend upon the environment in which your program is running. For a complete description of the connection process, see *CICSplex System Manager Application Programming Guide*.

Related commands

DISCONNECT, QUALIFY, TERMINATE

Options

CONTEXT (*data-value*)

Identifies the default context for commands issued against this thread. The context must be the 1- to 8-character name of a CMAS or CICSplex.

The default context is in effect for all commands issued against the thread unless you override it for a specific command or change it by issuing the QUALIFY command. As an alternative to specifying a default context for the thread, you can specify the context for individual commands as they are processed.

If you do not specify the CONTEXT option, the default context for the thread is the CMAS to which the thread is connected.

REASON (*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE (*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SCOPE (*data-value*)

Identifies the default scope for commands issued against this thread.

The SCOPE option qualifies the CONTEXT option. When the context is a CICSplex, the scope can be:

- The 1- to 8-character name of the CICSplex itself
- A CICS system or CICS system group within the CICSplex
- A logical scope, as defined in a CICSplex SM resource description (RESDESC).

When the context is a CMAS, this option has no meaning and is ignored.

The default scope is in effect for all commands issued against the thread unless you override it for a specific command or change it by issuing the QUALIFY command. If you do not specify the SCOPE option, no default scope is assumed.

Note: Certain API commands require a valid scope when the context is a CICSplex. If you do not specify a scope on a CONNECT or QUALIFY command, then you must specify the SCOPE option when you issue any of these commands for a resource table that represents a CICS resource:

- GET
- PERFORM OBJECT
- PERFORM SET
- REFRESH
- SET.

SIGNONPARM(*data-value*)

Identifies a 1- to 8-character signon parameter to be passed to the API security exit routine (EYU9XESV) at your enterprise.

If CMAS security is active and CICSplex SM finds no security defined in the environment where the API program is running, it passes the USER and SIGNONPARM values from the CONNECT command to EYU9XESV. For more information about API security, see *CICSplex System Manager Application Programming Guide*.

THREAD(*data-ref*)

Names a variable to receive the fullword token that CICSplex SM assigns to this processing thread.

This identifying token must be specified on all subsequent commands issued against this thread.

USER(*data-value*)

Identifies a 1- to 8-character user ID to be passed to the API security exit routine (EYU9XESV) at your enterprise.

If CMAS security is active and CICSplex SM finds no security defined in the environment where the API program is running, it passes the USER and SIGNONPARM values from the CONNECT command to EYU9XESV. For more information about API security, see *CICSplex System Manager Application Programming Guide*.

VERSION(*data-value*)

Identifies the release of CICSplex SM resource table data that you want to be available to your program. The VERSION value must be the 4-character number of a valid CICSplex SM release, such as 0410 for CICS TS 4.1.

Note:

1. The VERSION value must be 0120 or greater. The API cannot access data from a release of CICSplex SM earlier than Release 2.
2. The VERSION value must be less than or equal to the version of the CICSplex SM runtime environment.
3. You can specify a VERSION value that is greater than the release under which your API program was originally written, provided:
 - You compile your program using the appropriate copy books for the version specified.
 - Your program is compatible with the copy books for the version specified.

For complete details on things to consider when running under a different release, see *CICSplex System Manager Application Programming Guide*.

Conditions

The following is a list of the RESPONSE values that can be returned by the CONNECT command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

ENVIRONERROR

An environment error occurred for one of the following reasons:

APITASKERR

The API control subtask encountered an error during startup.

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOERESOURCE

A required resource that is owned by the Environment Services System Services (ESSS) address space is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- SCOPE
- SIGNONPARM
- USRID
- VERSION.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

CPSMSERVER

The CMAS to which the processing thread was trying to connect is not available.

CPSMSYSTEM

No CICSplex SM systems are available.

CPSMVERSION

No CICSplex SM system at the specified version is available.

NOTPERMIT

A not permitted condition occurred for one of the following reasons:

EXPIRED

The security authorization of the specified user ID has expired.

SIGNONPARM

The specified signon parameter is not authorized for the user ID.

USRID

The specified user ID does not have the required security authorization.

VERSIONINVL

A version conflict occurred for one of the following reasons:

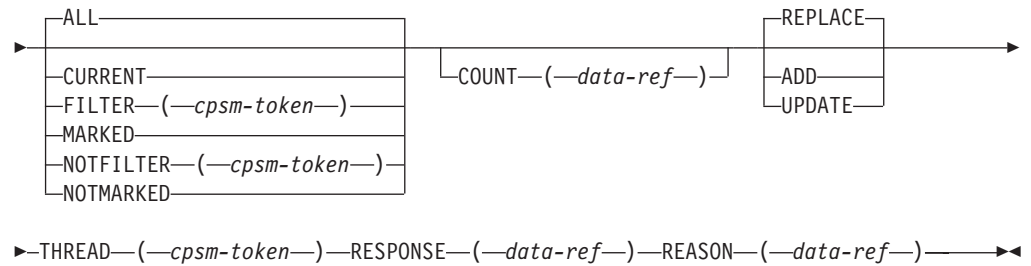
NOTSUPPORTED

The version of the application stub program used for this command is not supported.

COPY

Copy resource table records.

►►—COPY—FROM—(*—cpsm-token—*)—TO—(*—cpsm-token—*)—►►



Description

This command copies some or all of the resource table records in one result set to another result set on the same processin thread.

- The COPY command always begins processing with the last record that was fetched, rather than the next one in the result set.
- The target result set can be an existing result set or a new one that is created by this process. If you specify an existing result set as the target, you can either overwrite the existing records or add to them.
- A result set can contain only one record for a given resource. If duplicate records are found during the copy process, the ADD, REPLACE or UPDATE option you specified determines which record is retained.
- To copy selected records from a source result set, you can use:
 - The SPECIFY FILTER command to define a filter for the source result set.
 - The MARK and UNMARK commands to mark records in the source result set. Any marks you place on records in the source result set are not retained when those records are copied to the target result set.
- The relative position of records in the target result set may not be the same as it was in the source result set. The position can be affected by:
 - Deleted records being left in the source result set (when COPY ALL is specified) and other records assuming their position in the target result set.
 - The sort order associated with the target result set, if any. If the target result set does not exist, records are copied in the same order as they appeared in the source result set. If an existing result set is named as the target, records are copied and then sorted according to the sort order that was in effect for that result set.

Related commands

DELETE, DISCARD, GET, GETDEF, LOCATE, MARK, ORDER, PERFORM OBJECT, QUERY, SPECIFY FILTER

Options

ADD

Adds the resource table records from the source result set to an existing target result set. If duplicate records are found, the record in the target result set is retained.

If no existing result set is specified as the target, the ADD option is ignored.

ALL

Copies all the resource table records in the source result set to the target result set.

Any records that have been deleted from the source result set are not copied. In effect, the ALL option compresses a result set by leaving deleted records in the source result set and copying the remaining records to a new result set.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the target result set after the copy process is complete.

CURRENT

Copies only the current resource table record in the source result set to the target result set.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option copies only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FROM(*cpsm-token*)

Identifies the source result set for this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- PERFORM OBJECT.

MARKED

Copies only those resource table records that are marked in the source result set. You can mark resource table records by using the MARK and UNMARK commands.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option copies only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Copies only those resource table records that are not marked in the source result set. You can mark resource table records by using the MARK and UNMARK commands.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

REPLACE

Deletes the resource table records in an existing target result set and replaces them with the results of this copy operation. If the copy operation does not result in any resource table records being copied, the target result set is discarded.

If no existing result set is specified as the target, the REPLACE option is ignored.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TO(*cpsm-token*)

Identifies the target result set for this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- PERFORM OBJECT.

Note: The target result set cannot be the same as the source result set that you specified on the FROM option.

If this field is:

- Set to binary zero (in COBOL, C, PL/I or Assembler)
- An uninitialized variable (in REXX).

CICSplex SM creates a new result set and returns its identifying token in the same field.

UPDATE

Updates an existing target result set with resource table records from the source result set. If duplicate records are found, the record in the source result set replaces the record in the target result set.

If no existing result set is specified as the target, the UPDATE option is ignored.

Conditions

The following is a list of the RESPONSE values that can be returned by the COPY command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria.

BUSY A busy condition occurred for one of the following reasons:

FROM

The source result set specified on the FROM option is being processed by another command.

TO

The target result set specified on the TO option is being processed by another command. This condition can occur if you specified the same result set on the FROM and TO options.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INCOMPATIBLE

An incompatible condition occurred for one of the following reasons:

INVALIDOBJ

The target result set specified on the TO option is not compatible with the source result set specified on the FROM option. The result sets must contain the same type of resource table records.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- FILTER
- FROM
- NOTFILTER
- THREAD
- TO.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

CREATE

Create a new CICSplex SM or CICS definition.

```
►► CREATE OBJECT (—data-value—) FROM (—data-area—)
► LENGTH (—data-value—)
► [ PARM (—data-area—) PARMLEN (—data-value—) ]
► [ CONTEXT (—data-value—) ] [ SCOPE (—data-value—) ]
► THREAD (—cpsm-token—) RESPONSE (—data-ref—) REASON (—data-ref—) ►►
```

Description

This command creates a new CICSplex SM or CICS definition using the attribute values you specify. The new definition is stored in the CICSplex SM data repository. For definitions that have a CICSplex as their context (such as workload management or real-time analysis definitions), the new definition is automatically distributed to all the CMASs involved in managing the CICSplex.

Related commands

REMOVE, UPDATE

Options

CONTEXT (data-value)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

FROM (data-area)

Identifies a buffer containing a resource table record that represents the definition to be created.

The record must include all of the attributes for the resource table specified on the OBJECT option. For optional attributes that you do not want to specify, set the field to null (that is, zero) values .

See the *CICSplex System Manager Resource Tables Reference* for a list of all permitted null values

LENGTH (data-value)

A fullword value that specifies the length of the FROM buffer.

OBJECT (data-value)

Identifies the resource table that represents the definition being created. This value must be the 1- to 8-character name of a valid CICSplex SM definition or CICS definition resource table. For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*.

PARM (data-area)

Identifies a buffer containing the parameter expression to be used in creating the definition.

For details on how to use a parameter expression with the CREATE command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that are valid for a given resource table, see *CICSplex System Manager Resource Tables Reference*.

PARMLEN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SCOPE(*data-value*)

Identifies the scope for this command.

If the current context (as set by this command or a previous CONNECT or QUALIFY command) is a CICSplex and the OBJECT option identifies a CICS definitional resource and the PARM option includes the CSD parameter, a valid scope can be specified.

The scope can be a CICS system within the CICSplex. If the current context is a CMAS or the OBJECT option identifies any other type of resource table, or the CSD parameter is not specified on a CICS definitional resource, this option has no meaning and is ignored.

If SCOPE applies to the command and you do not specify the SCOPE option, the default scope for the thread is assumed. If the current context is a CICSplex and no default scope has been set on a CONNECT or QUALIFY command, you receive an INVALIDPARM response for the SCOPE option.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the CREATE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- FROM
- LENGTH
- OBJECT
- PARM
- PARMLEN
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

CSDAPI

Support for the CICSplex SM API to access the CICS CSD is not available.

MAINTPOINT

The maintenance point for the current context is not available.

NOTPERMIT

A not permitted condition occurred for one of the following reasons:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if:

- The resource table is missing required attributes, contains one or more conflicting attributes, or is a duplicate.
- A CICS resource definition contains attributes that would cause the EXEC CICS CREATE command to issue warnings.

Use the FEEDBACK command to retrieve additional data about this error.

INVALIDATTR

One of the resource table attributes is invalid.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

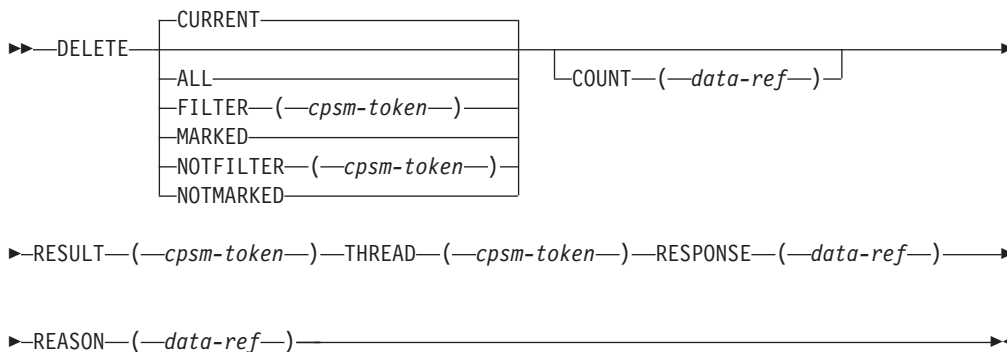
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

DELETE

Delete resource table records.



Description

This command deletes one or more resource table records from a result set.

- The DELETE command always begins processing with the last record that was fetched, rather than the next one in the result set.
- The records you delete are marked as deleted, but they retain their positions in the result set. The remaining records also retain their positions; they are not

renumbered. Any API commands that you issue after a DELETE command skip over the deleted records in a result set. One exception is the ORDER command, which sorts all the records in a result set, including deleted records. If you try to issue a command against a deleted record, you receive a RESPONSE value of NODATA.

- To remove deleted records and compress a result set, you can copy the remaining records to a new result set. Use the COPY command with the ALL option to copy all the records in a result set except those that have been deleted.

Note: Deleted records are also removed and the remaining records renumbered when you issue a REFRESH command.

Related commands

COPY, DISCARD, GET, GROUP, LOCATE, MARK, ORDER, PERFORM OBJECT, REFRESH, SPECIFY FILTER

Options

ALL

Deletes all the resource table records in the result set.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the result set after the delete process is complete.

CURRENT

Deletes only the current resource table record in the result set.

Note: The record pointer remains positioned on the deleted record. If you issue another API command with the CURRENT option before repositioning the pointer, you receive a RESPONSE value of NODATA.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option deletes only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

MARKED

Deletes only those resource table records that are marked in the result set. You can mark resource table records by using the MARK and UNMARK commands.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option deletes only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Deletes only those resource table records that are not marked in the result set. You can mark resource table records by using the MARK and UNMARK commands.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the DELETE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- FILTER
- NOTFILTER
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

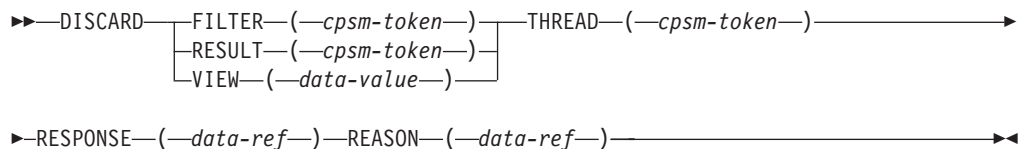
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

DISCARD

Discard a result set, filter, or view.



Description

This command discards a result set, filter, or view.

Related commands

COPY, GET, GETDEF, GROUP, PERFORM OBJECT, SPECIFY FILTER, SPECIFY VIEW

Options

FILTER(*cpsm-token*)

Identifies the filter to be discarded. The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be discarded. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

Note: If you discard a result set that was summarized by the GROUP command, all of the summarized result sets are also discarded.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

VIEW(*data-value*)

Identifies the view to be discarded. This value must be the 1- to 8-character name of a view as defined on a SPECIFY VIEW command.

Conditions

The following is a list of the RESPONSE values that can be returned by the DISCARD command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INUSE

An in use condition occurred for one of the following reasons:

FILTER

The specified filter is currently in use and cannot be discarded.

VIEW The specified view is currently in use and cannot be discarded.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- FILTER
- RESULT
- THREAD
- VIEW.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

DISCONNECT

Disconnect an API processing thread from CICSplex SM.

►►—DISCONNECT—THREAD—(*—cpsm-token—*)—RESPONSE—(*—data-ref—*)—►►

Description

Any resources that are associated with the thread are released, including result sets, filters, views, diagnostic data, and outstanding asynchronous requests.

Related commands

CONNECT, TERMINATE

Options

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be disconnected. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the DISCONNECT command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

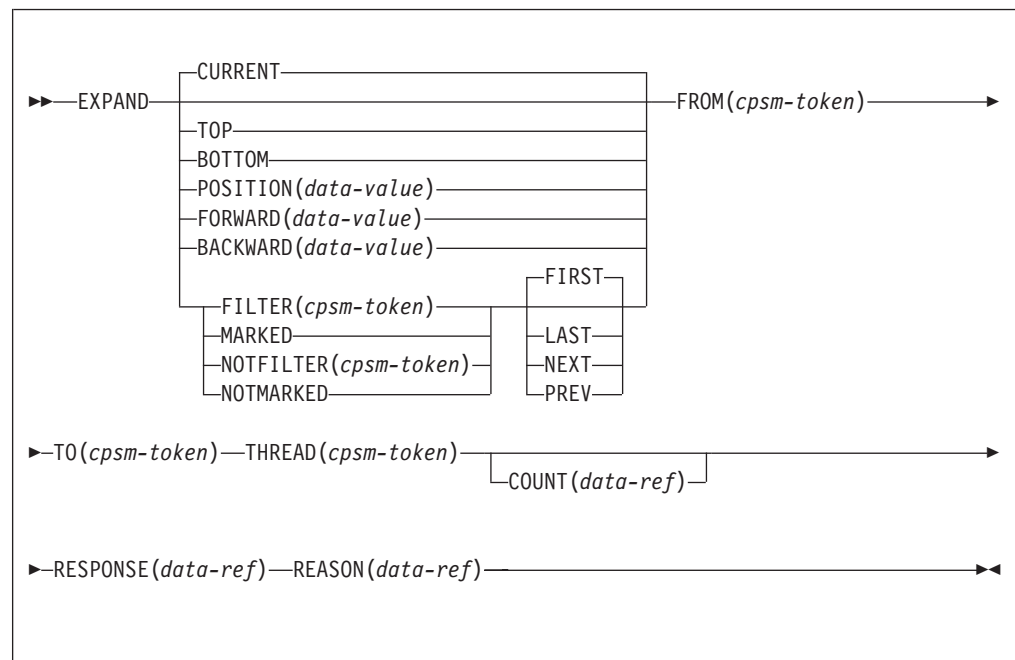
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

EXPAND

Return a result set containing all of the records summarized in a summary record.



Description

This command supports the expansion of summary result sets. The command accepts a token from a summarized result set produced by the GROUP command,

and a selected record identified by the position of the record pointer in the result set to be expanded. The position of the record pointer depends on the options that you specify on the command. It creates a new result set that contains all the records that are summarized in a summary record.

Related commands

FETCH, GET, GROUP, LOCATE, MARK, ORDER, QUERY, REFRESH, SPECIFY FILTER, UNMARK

Options

BACKWARD(*data-value*)

Expands the record at the position arrived at by moving backwards from the current pointer position for *data-value* number of records. If the *data-value* value is greater than the remaining number of records, the first record in the summary result set is expanded.

BOTTOM

Expands the last record in the summary result set.

COUNT(*data-ref*)

The number of resource table records in the TO result set after this operation is complete. This parameter is output-only.

CURRENT

Expands the current record in the FROM result set.

FILTER(*cpsm-token*)

Identifies the filter to be used for this operation and performs an EXPAND operation on the record or records that match the filter criteria. It is used with the FIRST, LAST, NEXT and PREV options.

FIRST

Expands either the first marked record in the result set or the first record that matches the filter criteria. If no record is found, a NODATA code is returned.

FORWARD(*data-value*)

Expands the record at the position arrived at by moving forwards from the current pointer position for *data-value* number of records. If the *data-value* value is greater than the remaining number of records in the summary result set, the last record is expanded.

FROM (*cpsm-token*)

The summary result set on which the EXPAND command is to operate. If no matching result set can be found, an INVALIDPARM return code is issued with a reason code of FROM.

LAST

Expands either the last marked record in the result set or the last record that matches the filter criteria. If no record is found, a NODATA code is returned.

MARKED

Expands one or more records that have been selected using the MARK command. It is used in conjunction with the FIRST, LAST, NEXT, and PREV options.

You can mark resource table records by using the MARK and UNMARK commands.

NEXT

Starting at the record currently selected and moving forward through the result

set, NEXT expands either the next marked record or the next record that matches the filter criteria. If no record is found, a NODATA code is returned.

NOTFILTER(*cpsm-token*)

Identifies the filter that is to be used for this operation and performs an EXPAND operation on the record or records that do not match the filter criteria. It is used in conjunction with the FIRST, LAST, NEXT and PREV options.

NOTMARKED

Expands one or more records that have been left unselected by the MARK command. It is used in conjunction with the FIRST, LAST, NEXT and PREV options.

You can mark resource table records by using the MARK and UNMARK commands.

POSITION(*data-value*)

Expands the record at a position in the summary result set indicated by the supplied value.

PREVIOUS

Starting at the record currently selected and moving backwards through the result set, PREVIOUS expands either the next marked record in the result set or the next record that matches the filter criteria. If no record is found, a NODATA code is returned.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

The API thread to be used for the EXPAND operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TO (*cpsm-token*)

Identifies the summary result set to contain the expanded records on which the EXPAND command operates. If this result set already exists, any existing resource table records that relate to it are replaced by the resource table records produced by this EXPAND command.

TOP

Expands the first record in the summary result set.

Conditions

The following RESPONSE values can be returned by the EXPAND command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified criteria, for one of the following reasons:

BACKWARD

No more records satisfy the search criteria in the backward direction.

FORWARD

There are no more records that satisfy the search criteria in the forward direction.

BUSY A busy condition occurred for one of the following reasons:

FROM

The result set specified on the FROM option is being processed by another command.

TO

The result set specified on the TO option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing ended abnormally.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- BACKWARD
- FORWARD
- POSITION
- FILTER
- NOTFILTER
- FROM
- TO
- THREAD
- COUNT

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

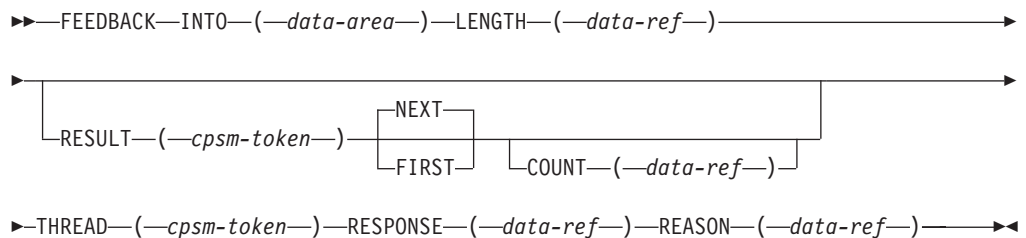
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

FEEDBACK

Retrieve diagnostic data.



Description

This command retrieves diagnostic data about a previously issued API command.

- The diagnostic data is returned as FEEDBACK resource table records.
- If the previous command involved processing a result set and it returned a RESPONSE value other than OK, a FEEDBACK resource table record is appended to the end of each resource table record in the result set that had an error associated with it causing the non-OK RESPONSE to be sent. The diagnostic data is available to the FEEDBACK command until another command processes the same result set. At that point, the data is replaced with FEEDBACK records for the subsequent command.

Note: If a command that processed a result set returned a RESPONSE value of OK, FEEDBACK records are produced if CICS returns additional information in the EIBRESP2 field.

- If the previous command did not process a result set, the FEEDBACK resource table records are returned in a separate feedback area. The records in that feedback area are cleared and refreshed for each command that is not result set-oriented. So for commands that place their diagnostic data in the feedback area rather than in a result set, FEEDBACK can retrieve data only for the most recently issued command.

- Once you have issued the FEEDBACK command to retrieve diagnostic data for a command, the feedback record or area is cleared. You cannot request the same FEEDBACK resource table records more than once.
- If a command is processed asynchronously (that is, you specify the NOWAIT option) the diagnostic data for that command is returned in the ASYNCREQ notification resource table. No FEEDBACK resource table records are produced for an asynchronous request.
- Diagnostic data is not available for these commands:
 - DISCONNECT
 - FEEDBACK
 - TERMINATE
- The TBUILD and TPARSE commands supplied for use in REXX programs do not provide any useful FEEDBACK information.

For a complete description of the FEEDBACK resource table, see *CICSplex System Manager Resource Tables Reference*.

Options

COUNT (*data-ref*)

Specifies the number of feedback records to be retrieved from the result set named in the RESULT option. If you do not specify the COUNT option, only one feedback record is retrieved.

If you are retrieving multiple feedback records, they are placed one after another in the INTO buffer. The INTO buffer must be long enough to hold all the feedback records being retrieved.

The value that CICSplex SM returns in this field depends on the RESPONSE value for the FEEDBACK command:

OK The actual number of records returned in the INTO buffer.

WARNING AREATOOSMALL

The number of records returned in the INTO buffer, which is not the total number of records requested.

INVALIDPARM LENGTH

The field is not set because the INTO buffer was not long enough to hold even one resource table record.

FIRST

Retrieves the first feedback record from the result set named in the RESULT option.

If you specify the COUNT option, FIRST retrieves the specified number of records, beginning with the first record in the result set.

INTO (*data-area*)

Identifies a buffer (or stem variable, in REXX) to receive the feedback data. This buffer must be long enough to hold all the feedback data being retrieved.

LENGTH (*data-ref*)

A fullword value that specifies the length of the INTO buffer.

The value that CICSplex SM returns in this field depends on the RESPONSE value for the FEEDBACK command:

OK The actual length of the data returned in the INTO buffer.

WARNING AREATOOSMALL

The buffer length that would be required to hold all the requested records.

INVALIDPARM LENGTH

The field is not set because the INTO buffer was not long enough to hold even one resource table record.

NEXT

Retrieves the next available feedback record from the result set named in the RESULT option.

If you specify the COUNT option, NEXT retrieves the specified number of records, beginning with the next record in the result set.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies an API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

Use the RESULT option to retrieve feedback data about a previously issued command that processed a result set. Use FEEDBACK without the RESULT option to retrieve data about the most recently issued command that did not process a result set.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the FEEDBACK command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria, or a command that processed a result set returned a RESPONSE of OK.

WARNING

The command completed processing with a warning, for the following reason:

AREATOOSMALL

The INTO buffer is not long enough to hold the number of records requested and available.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- COUNT
- INTO
- LENGTH
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

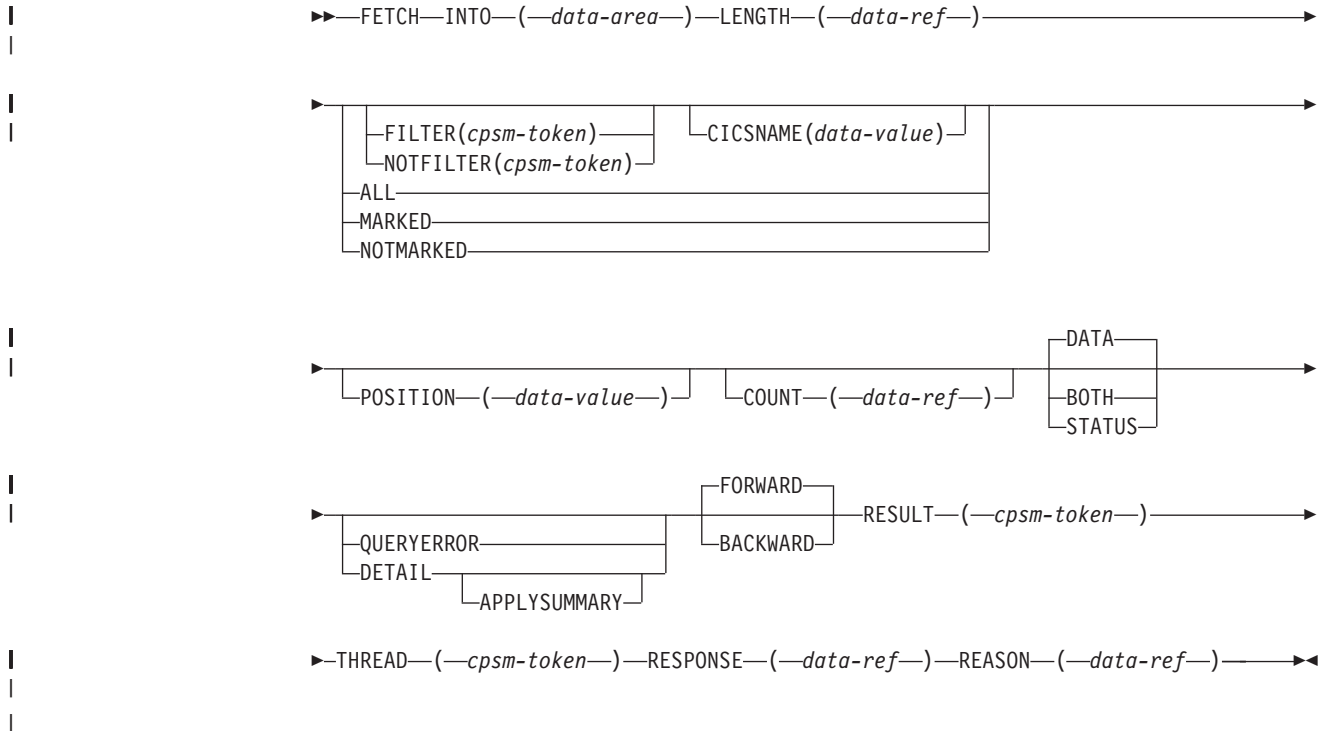
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

FETCH

Retrieve data and status information for resource table records.



Description

This command retrieves data and status information for one or more resource table records in a result set.

- After a FETCH command, the record pointer is usually positioned to the next record in the result set (that is, the record following the last record fetched in whichever direction the pointer was moving, forward or backward). However, the following API commands always act upon the last record that was fetched (that is, the record pointer is not advanced):
 - COPY
 - DELETE
 - EXPAND
 - MARK
 - UNMARK
 - PERFORM SET CURRENT
 - REFRESH CURRENT
 - SET CURRENT
- If no records were fetched (because no records matched the specified criteria), the pointer is positioned to the top or bottom of the result set, depending on which direction it was moving.

Related commands

COPY, GET, GETDEF, GROUP, LOCATE, MARK, ORDER, PERFORM OBJECT, QUERY, SPECIFY FILTER

Options

ALL

Retrieves all the resource table records in the result set. When you specify ALL, the POSITION and COUNT options are ignored.

APPLYSUMMARY

Apply any, some, or all of the following options to the summary records and retrieve the detail records associated with the summary records selected.

- MARKED
- NOTMARKED
- FILTER
- NOTFILTER

The APPLYSUMMARY option is only valid if the DETAIL option is also specified.

If the DETAIL option is specified without the APPLYSUMMARY option the result will be as described under the DETAIL option.

If neither the DETAIL option nor the APPLYSUMMARY option are specified but any combination of some or all of the following record selection options: MARKED, NOTMARKED, FILTER, and NOTFILTER are issued against a summary result set, the record selection options are applied to the summary result set and the selected summary records are retrieved.

BACKWARD

Begins the retrieval process with the last record fetched and continues in a backward direction through the specified result set.

BOTH

Retrieves both the resource table data and the OBJSTAT status information about the last action performed against the resource table. Each record contains OBJSTAT information followed by resource table data.

CICSNAME (*data-value*)

Specifies a 1- to 8-character specific or generic CICS system name to be used for this operation.

The CICSNAME option indicates that only those resource table records that originate from CICS systems that match the specified name pattern should be considered for retrieval. When CICSNAME is specified in conjunction with FILTER or NOTFILTER, only records which meet the FILTER or NOTFILTER requirements and also match the CICSNAME pattern will be considered. The number of records retrieved is determined by the COUNT option.

When you specify CICSNAME, the result set named on the RESULT option must not be a summarized result set and must contain resource table records that have an EYU_CICSNAME attribute. If the result set specified by RESULT contains summarized records or resource table records that do not have an EYU_CICSNAME attribute, you receive an INVALIDPARM response for the CICSNAME option.

COUNT (*data-ref*)

Specifies the number of resource table records to be processed.

The COUNT option applies to the result set named in the RESULT option. When you also specify the DETAIL option, COUNT provides the number of summary records in the summarized result set in RESULT for which source

records are returned. The OBJSTAT table for each summary record contains the number of source records that will be returned for that record if the DETAIL option is specified.

If you do not specify the COUNT option, the default is one.

If the COUNT option is specified, COUNT contains the number of records processed. In most cases this is also the number of records returned. However, if you also specify the DETAIL option, all source records associated with the requested number of summary record are retrieved. This is normally greater than the number specified in the COUNT option.

If you are retrieving multiple records, they are placed one after another in the INTO buffer. The INTO buffer should be long enough to hold all the records being retrieved.

The value that CICSPlex SM returns in this field depends on the RESPONSE value for the FETCH command as follows:

OK The actual number of records returned in the INTO buffer.

WARNING AREATOOSMALL

The number of records returned in the INTO buffer, which is not the total number of records requested.

INVALIDPARM LENGTH

The field is not set because the INTO buffer was not long enough to hold even one resource table record.

DATA

Retrieves only the specified resource table data. The records do not contain any OBJSTAT status information about the last action performed against the resource table.

Note: The OBJSTAT information includes a summary count field that is set when resource table records are summarized using the GROUP command. If you plan to GROUP the resource table records and you want to know how many records are combined to form a summary record, you should specify BOTH to obtain both data and OBJSTAT information when the records are fetched.

DETAIL

Retrieves the source records associated with specific summary resource table records.

When you specify DETAIL, the result set named in the RESULT option must be a summarized result set. DETAIL expands the summary record by retrieving the resource table records associated with it from the source result set. If you do not specify DETAIL when a summarized result set is being processed, the summary records themselves are retrieved. If the result set is not a summarized result set, this option has no meaning and is ignored.

You can use the FORWARD or BACKWARD options along with DETAIL to select which summary record you want to expand. The FORWARD and BACKWARD options also control the direction in which records are retrieved from the source result set.

By default, all the source records associated with the summary record or records are retrieved. However, you can use the FILTER or NOTFILTER option to limit the records retrieved from the source result set. You can also use the

MARKED or NOTMARKED option to retrieve only those records associated with the summary record that are marked (or not marked) in the source result set.

You cannot explicitly position the record pointer in the source result set. When you specify DETAIL, the POSITION option refers to the record in the summary result set. If the APPLYSUMMARY option is specified, FILTER, NOTFILTER, MARKED, and NOTMARKED options are applied to records in the summary result set rather than to the source records.

For more information on processing summarized result sets, see *CICSplex System Manager Application Programming Guide*. For a description of the GROUP command, which creates summarized result sets, see "GROUP" on page 59.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option indicates that only those resource table records that meet the specified filter criteria should be considered for retrieval. The number of records that are retrieved is determined by the COUNT option.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FORWARD

Begins the retrieval process with the next record (that is, the record that follows the last record fetched) and continues in a forward direction through the specified result set.

INTO(*data-area*)

Identifies a buffer (or stem variable, in REXX) to receive the resource table records. This buffer must be long enough to hold all the records being retrieved.

LENGTH(*data-ref*)

A fullword value that specifies the length of the INTO buffer.

The value that CICSplex SM returns in this field depends on the RESPONSE value for the FETCH command:

OK The actual length of the data returned in the INTO buffer.

NODATA

The length is set to zero.

WARNING AREATOOSMALL

The buffer length that would be required to hold all the requested records.

INVALIDPARM LENGTH

The field is not set because the INTO buffer was not long enough to hold even one resource table record.

MARKED

Indicates that only those resource table records that are marked in the result set should be considered for retrieval. The number of records that are retrieved is determined by the COUNT option.

You can mark resource table records by using the MARK and UNMARK commands.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option indicates that only those resource table records that do not meet the specified

filter criteria should be considered for retrieval. The number of records that are retrieved is determined by the COUNT option.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Indicates that only those resource table records that are not marked in the result set should be considered for retrieval. The number of records that are retrieved is determined by the COUNT option.

You can mark resource table records by using the MARK and UNMARK commands.

POSITION(*data-value*)

Begins the retrieval process with the *n*th resource table record in the result set.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to begin the retrieval process with the fifth resource table record in a result set, you would specify POSITION(5).

Note: When the POSITION option is used with the DETAIL option to retrieve source records for a specific summarized result set record, the value of the COUNT option is forced to one (1). In this case, the value returned by the COUNT option is the number of source records summarized in the specified result set record.

QUERYERROR

Indicates that this request is to return MASQRYER resources generated by the last GET, PERFORM, or SET command to act on the result set.

Note: The data selection options FILTER, NOFILTER, MARKED, NOTMARKED, and CICSNAME are ignored if you specify the QUERYERROR option.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

STATUS

Retrieves only the OBJSTAT status information for the last action performed against the resource table. The records do not contain any resource table data.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the FETCH command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria, for one of the following reasons:

BACKWARD

There are no more records that satisfy the search criteria in the backward direction.

FORWARD

There are no more records that satisfy the search criteria in the forward direction.

WARNING

The command completed processing with a warning, for the following reason:

AREATOOSMALL

The INTO buffer is not long enough to hold the number of records requested and available.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- COUNT
- FILTER
- INTO
- LENGTH
- NOTFILTER
- POSITION
- RESULT
- THREAD
- CICSNAME

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

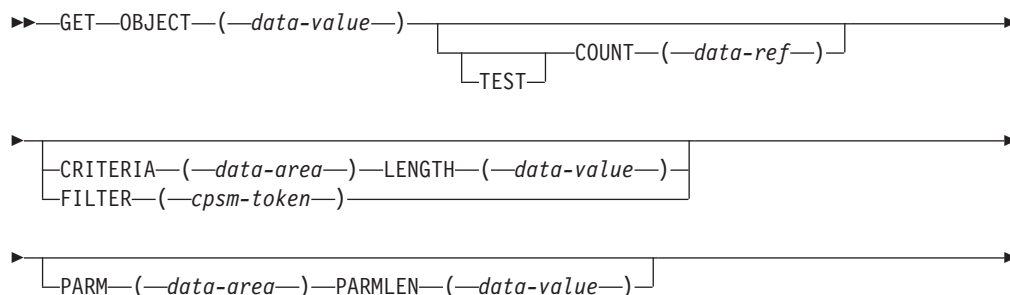
The version of the application stub program used for this command is not supported.

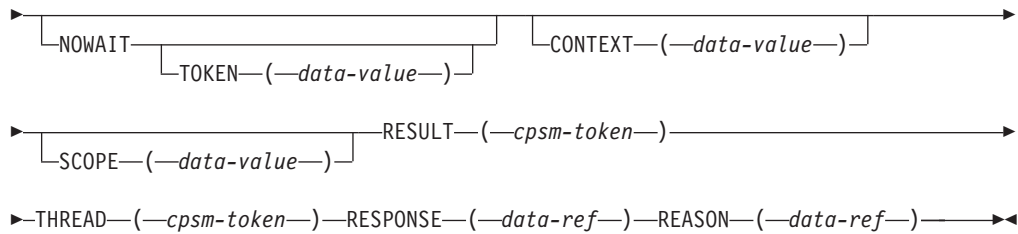
NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

GET

Identify and optionally return a result set containing selected resource table records.





Description

This command identifies a result set containing selected resource table records. The command returns the identified records, or a count of the identified records, or both the records and the count.

- The resource table can be one that represents a CICS resource, a CICSplex SM or CICS definition, or a CICSplex SM run-time object.
- After a GET command, the record pointer is positioned to the top of the result set (that is, the first record in the result set).
- If the context and scope in effect when you issue a GET command include CICS systems that do not support the requested resource table, the request is ignored for those CICS systems.
- In some CICS environments, the resource table attribute values that are returned by CICSplex SM for:

Resource table	Attribute value	CICS Environment
LOCTRAN	RESSEC(RESSECEXT)	CICS/MVS

do not match the CVDA values returned by CICS. The values returned by CICS conflict with CVDA values in other CICS environments. In order to retain the attributes' uniqueness, CICSplex SM adds 9000 to the values returned by CICS.

Related commands

DISCARD, FETCH, GETDEF, QUERY, RECEIVE, REFRESH, SPECIFY FILTER, SPECIFY VIEW

Options

CONTEXT (data-value)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

COUNT (data-ref)

Names a variable to receive the number of resource table records in the target result set after this operation is complete.

CRITERIA (data-area)

Identifies a buffer containing the filter expression to be used for this operation. The CRITERIA option retrieves only those resource table records that meet the specified filter criteria.

For details on how to form a filter expression, see the *CICSplex System Manager Application Programming Guide*.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option retrieves only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

LENGTH(*data-value*)

A fullword value that specifies the length of the CRITERIA buffer.

Note: The buffer length you specify should not include any data other than a filter expression.

NOWAIT

Returns control to your program as soon as the GET command has been accepted, which allows the command to be processed asynchronously.

If you specify the NOWAIT option, you must use a subsequent RECEIVE command to test for the completion of this request. The results of an asynchronous request are returned as ASYNCREQ resource table records. For a complete description of asynchronous processing, see the *CICSplex System Manager Application Programming Guide*.

Note: If you specify the TOKEN option, the NOWAIT option is assumed by default.

OBJECT(*data-value*)

Identifies the resource table for which records are to be retrieved. This value must be the 1- to 8-character name of either a valid resource table or a valid view.

If you are using the TEST parameter, you must specify a CICS resource table name for **OBJECT**. Specifying any other value, including a view name, results in an error.

PARM(*data-area*)

Identifies a buffer containing the parameter expression to be used in preselecting resource table records.

For details on how to use a parameter expression with the GET command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that can be specified for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

PARMLN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP

- PERFORM OBJECT.

CICSplex SM replaces the contents of the existing result set with the resource table records requested by this GET command.

If this field is:

- Set to binary zero (in COBOL, C, PL/I or Assembler)
- An uninitialized variable (in REXX).

CICSplex SM creates a new result set and returns its identifying token in the same field.

SCOPE(*data-value*)

Identifies the scope for this command.

If the current context (as set by this command or a previous CONNECT or QUALIFY command) is a CICSplex and the OBJECT option identifies a CICS resource, a valid scope is required. The scope can be:

- The 1- to 8-character name of the CICSplex itself
- A CICS system or CICS system group in the CICSplex
- A logical scope, as defined in a CICSplex SM resource description (RESDESC).

If OBJECT identifies a CICS definitional resource and the PARM option includes the CSDGROUP parameter, a valid scope can be specified. The scope can be:

- A CICS system in the CICSplex.

If the current context is a CMAS or the OBJECT option identifies any other type of resource table this option has no meaning and is ignored.

If you do not specify the SCOPE option, the default scope for the thread is assumed. If the current context is a CICSplex and no default scope has been set on a CONNECT or QUALIFY command, you receive an INVALIDPARM response for the SCOPE option.

STATE(*cpsm-token*)

Returns active or inactive topology objects. The default is to return both.

TEST

Returns only a count of the records that match the request. If you specify TEST, the request returns no records. If you specify TEST, you must specify a CICS resource name for the **OBJECT** parameter, and a zero value for the **RESULT** parameter.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate an asynchronous GET request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when this GET request is complete.

Conditions

The following is a list of the RESPONSE values that can be returned by the GET command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

SCHEDULED

The command has been scheduled for processing.

NODATA

No records were found that matched the specified search criteria.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

If only some of the CMASs or MASs did not respond, the GET command can still yield a valid result. COUNT might be greater than zero and RESULT might be non-zero. Such a result set contains data from those CMASs and MASs that did respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

Invalid data was detected. The parameter that contains invalid data is returned as the reason value:

CRITERIA

An attribute value listed in the CRITERIA buffer is not valid for the specified attribute.

INVALIDCMD

The command is invalid for one of the following reasons:

FILTER

The filter expression passed on the operation is too large or complex.

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- CRITERIA
- FILTER
- LENGTH
- OBJECT
- PARM
- PARMLLEN
- RESULT
- SCOPE
- TOKEN
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

MAINTPOINT

The maintenance point for the current context is not available.

SCOPE

Either none of the MASs in the specified scope are available or none of them support the requested resource table.

WORKLOAD

The workload identified on the API request is not available on the local CMAS.

NOTFOUND

A not found condition occurred for the following reason:

ATTRIBUTE

An attribute specified in the CRITERIA buffer was not found for the specified resource table.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for the following reason:

DATAERROR

The value associated with one or more resource table attributes is invalid. Use the FEEDBACK command to retrieve additional data about this error.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

WARNING

The command completed processing with a warning, for the following reason:

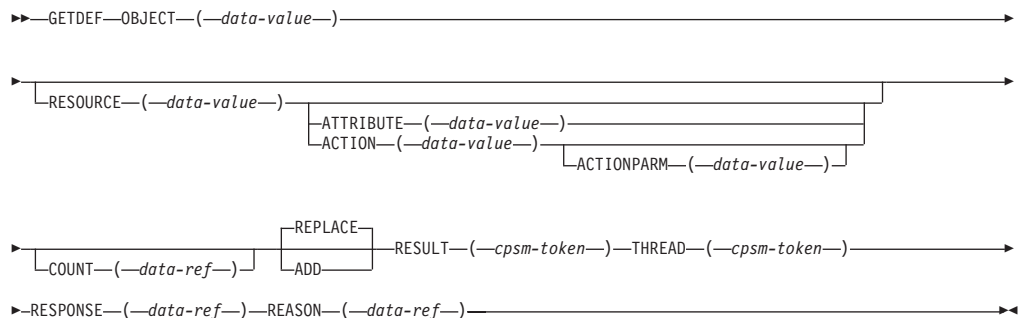
MAXRECORDS

The number of records added to the result set by a MAS would have exceeded the MAXHISTRECS value for that MAS. Records within the MAXHISTRECS limit have been added to the result set. Modify the FILTER or PARM parameter values to increase or reduce the number of records the MAS should add to the result set.

Note: If a scope is specified that contains more than one MAS, the total number of records collected can exceed the MASHISTRECS value for an individual MAS.

GETDEF

Return a result set containing selected descriptive records for a resource table.



Description

This command returns a result set containing selected descriptive records for a resource table.

- GETDEF is a variation of the GET command. GET retrieves data records for the resource represented by a table. GETDEF, on the other hand, retrieves internal data that describes the resource table itself.
- The GETDEF command retrieves its data, which is called meta-data, from internal resource tables that describe each of the external resource tables. These internal resource tables are called CPSM MetaData tables. The attributes of a CPSM MetaData table are the characteristics of the external table, not the resource that it represents. For a list of the CPSM MetaData resource tables that can be retrieved by GETDEF, see the description of the OBJECT option on page Object.
- You can use GETDEF to find out what resource tables are available for processing by other commands. In addition, you can identify the attributes of a resource table, the values allowed for its modifiable attributes, and the actions that can be performed on it. You can also use GETDEF to request descriptions of the CPSM MetaData resource tables themselves.
- You can use the GETDEF command only with resource tables supplied by CICSplex SM. GETDEF is not valid for user-defined views of a resource table that were created by the SPECIFY VIEW command.
- You cannot use the REFRESH command to refresh the data records retrieved by GETDEF.

Related commands

DISCARD, FETCH, GET, LOCATE, QUERY

Options

ACTION(*data-value*)

The 12-character name of an action against the resource table for which CPSM MetaData records are to be retrieved.

ACTIONPARM(*data-value*)

The 12-character name of a parameter to an action against the resource table for which CPSM MetaData records are to be retrieved, as it appears in the API parameter string.

ADD

Adds the CPSM MetaData resource table records that are being retrieved to an existing target result set. If no existing result set is specified as the target, the ADD option is ignored.

ATTRIBUTE(*data-value*)

Identifies one or more attributes of the resource table specified on the RESOURCE option for which CPSM MetaData records are to be retrieved.

Depending on which CPSM MetaData table is named in the OBJECT option, this value can be the 1- to 12-character name of a specific attribute or an asterisk (*), for all attributes in the resource table. If you do not specify the ATTRIBUTE option for an OBJECT that does not require it, data is retrieved for all attributes in the resource table.

For details on the CPSM MetaData resource tables and the valid ATTRIBUTE values for each, see the description of the OBJECT option.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the target result set after this operation is complete.

OBJECT (*data-value*)

Identifies the type of meta-data to be retrieved for the resource table specified on the RESOURCE option. This value must be one of the following CPSM MetaData resource table names:

OBJECT

One record is returned for each instance of the resource table specified on the RESOURCE option. The record describes the resource table's general characteristics. Related options and restrictions include:

- ACTION is ignored.
- ATTRIBUTE is ignored.
- ACTIONPARM is ignored.
- RESOURCE must be a specific resource table name or * for all resource tables.

OBJECT

One record is returned for each action that is available for the resource table specified on the RESOURCE option.

Related options and restrictions include:

- ACTION is normally omitted. If present, it may specify the name of an action or *.
- ATTRIBUTE is ignored.
- ACTIONPARM is ignored.
- RESOURCE must be a specific resource table name; a value of * is not allowed.

METADESC

One record is returned for each attribute of the resource table specified on the RESOURCE option. Each record provides only the basic structure of the attribute, including the name, data type, length, and offset in the resource table. Such information might be useful for accessing the attribute fields in a buffer returned by the FETCH command.

Related options and restrictions include:

- ACTION is ignored.
- ATTRIBUTE can be a specific attribute name or * for all attributes in the resource table.
- ACTIONPARM is ignored.
- RESOURCE must be a specific resource table name; a value of * is not allowed.

ATTR One record is returned for each attribute of the resource table specified on the RESOURCE option. Each record provides complete information about the attribute.

Related options and restrictions include:

- ATTRIBUTE can be a specific attribute name or * for all attributes in the resource table.
- RESOURCE must be a specific resource table name; a value of * is not allowed.

ATTRAVA

One record is returned for each of the EYUDA or CVDA values that are valid for the specified attribute.

Related options and restrictions include:

- **ATTRIBUTE** must be the name of a specific attribute that has a data type of EYUDA, CVDAS, or CVDAT.
- **RESOURCE** must be a specific resource table name; a value of * is not allowed.

Note: The AVAAVAIL attribute of the ATTR internal resource table indicates whether an AVA list is available for a given attribute.

METANAME

One record is returned for each CVDA and EYUDA. The **RESOURCE**, **ATTRIBUTE**, **ACTION** and **ACTIONPARM** keywords are ignored.

METAPARM

One record is returned for every parameter for the specified **RESOURCE** and **ACTION**.

- **ACTION** must be a specific action name; a value of * is not allowed.
- **ACTIONPARM** is ignored.
- **RESOURCE** must be a specific table; a value of * is not allowed.

PARMAVA

One record is returned for the specified **RESOURCE**, **ACTION**, and **ACTIONPARM**.

- **ACTION** must be a specific action name; a value of * is not allowed.
- **ACTIONPARM** must be a specific parameter name; a value of * is not allowed.
- **RESOURCE** must be a specific table; a value of * is not allowed.

REASON (*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

REPLACE

Deletes the contents of an existing target result set and replaces them with the results of this operation. If the operation does not result in any CPSM MetaData resource table records being selected, the target result set is discarded.

If no existing result set is specified as the target, the **REPLACE** option is ignored.

RESOURCE (*data-value*)

Identifies the resource table for which CPSM MetaData records are to be retrieved.

If you specify the **ATTRIBUTE** option, this value must be the 1- to 8-character name of a specific CICSPlex SM resource table. Otherwise, you can specify a value of asterisk (*) to retrieve data for all resource tables.

Note: You can use **GETDEF** only with resource tables supplied by CICSPlex SM. **GETDEF** is not valid for user-defined views of a resource table that were created by the **SPECIFY VIEW** command.

RESPONSE (*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT (*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

CICSplex SM replaces the contents of the existing result set with the resource table records requested by this GETDEF command. If the operation does not result in any resource table records being selected, the target result set is discarded.

If this field is:

- Set to binary zero (in COBOL, C, PL/I or Assembler)
- An uninitialized variable (in REXX).

CICSplex SM creates a new result set and returns its identifying token in the same field.

THREAD (*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the GETDEF command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

OBJECT was specified with the OBJECT option, but there are no actions defined for the specified RESOURCE.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INCOMPATIBLE

An incompatible condition occurred for the following reason:

INVALIDOBJ

The target result set specified on the RESULT option is not compatible with the output of this command. The result set must contain the same type of meta-data (as specified on the OBJECT option) as the command produces.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- ACTION
- ACTIONPARM
- ATTRIBUTE
- OBJECT
- RESOURCE
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. Use the FEEDBACK command to retrieve additional data about this error.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

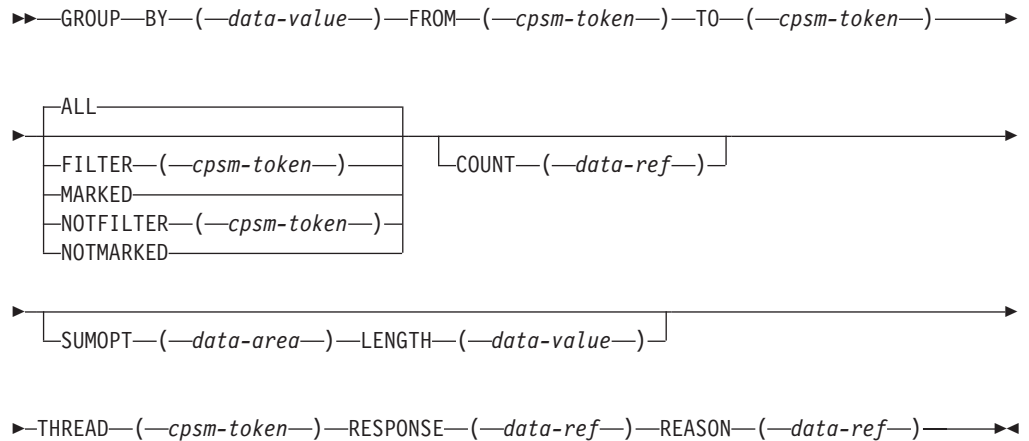
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

GROUP

Return a summarized result set.



Description

This command returns a summarized result set by grouping some or all of the resource table records in a result set.

- The target result set can be an existing result set or a new one that is created by this process. If you specify an existing result set as the target of a GROUP command:
 - It must be a summarized result set that was produced by a previous GROUP command against the same source result set.
 - It must contain the same type of resource table records currently found in the source result set.
 - The existing records in the result set are overwritten.
- To create a summarized result set from selected records of a source result set, you can use:
 - The SPECIFY FILTER command to define a filter for the source result set.
 - The MARK and UNMARK commands to mark records in the source result set.
- The GROUP command may be used only for attributes with a length of 251 or less. A RESPONSE(INVALIDPARM) REASON(BY) error occurs for attribute lengths greater than 251.
- For more information on processing summarized result sets, see *CICSplex System Manager Application Programming Guide*.

Related commands

DISCARD, EXPAND, FETCH, GET, LOCATE, MARK, ORDER, QUERY, SPECIFY FILTER

Options

ALL

Summarizes all the resource table records in the source result set.

BY(*data-value*)

Identifies the resource table attribute whose value is to be used as the grouping factor for this operation. This value must be the 1- to 12-character name of a valid attribute for the resource table.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the target result set after this operation is complete.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option summarizes only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FROM(*cpsm-token*)

Identifies the source result set for this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- PERFORM OBJECT.

Note: If you discard the source result set, all of the summarized result sets that were created from it are also discarded.

LENGTH(*data-value*)

A fullword value that specifies the length of the SUMOPT buffer.

Note: The buffer length you specify should not include any data other than a summary expression.

MARKED

Summarizes only those resource table records that are marked in the source result set. You can mark resource table records by using the MARK and UNMARK commands.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option summarizes only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Summarizes only those resource table records that are not marked in the source result set. You can mark resource table records by using the MARK and UNMARK commands.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SUMOPT (*data-area*)

Identifies a buffer containing the summary expression to be used for this operation. The SUMOPT value overrides the default summary options for the resource table attributes.

For details on how to form a summary expression, see *CICSplex System Manager Application Programming Guide*. For a list of the default summary options for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

THREAD (*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TO (*cpsm-token*)

Identifies the target result set for this operation.

If this field is:

- Set to binary zero (in COBOL, C, PL/I or Assembler)
- An uninitialized variable (in REXX).

CICSplex SM creates a new summarized result set and returns its identifying token in the same field.

Otherwise, you can specify an existing summarized result that was produced by a previous GROUP command against the result set specified in the FROM option. That is, you can reuse a summarized result set, but only to resummarize the records in the same result set.

Note: If you specify the token of a previously produced summarized result set, make sure the result set still exists. When you discard a source result set, all of the summarized result sets that were created from it are also discarded.

Conditions

The following is a list of the RESPONSE values that can be returned by the GROUP command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria.

BUSY A busy condition occurred for one of the following reasons:

FROM

The source result set specified on the FROM option is being processed by another command.

TO

The target result set specified on the TO option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- BY
- FILTER
- FROM
- LENGTH
- NOTFILTER
- SUMOPT
- THREAD
- TO.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

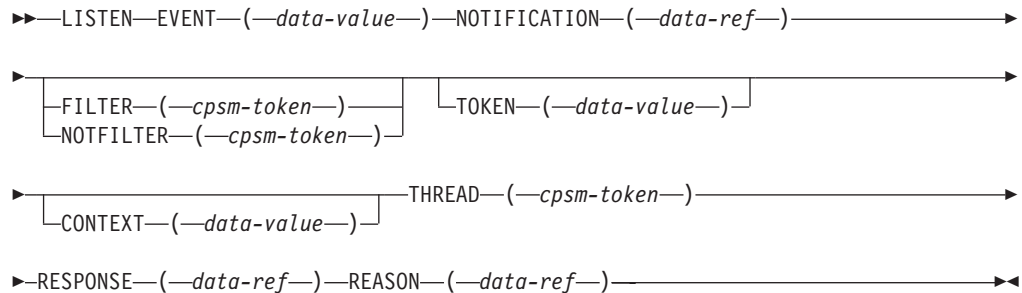
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

LISTEN

Request a notification be sent to the processing thread.



Description

This command requests that a notification be sent to the processing thread when a specific event occurs in the CICSplex.

- An event is represented by a resource table with a type of CPSM Notification.
- The LISTEN command is used in conjunction with the RECEIVE command. If you use LISTEN to request notification of an event, you must use a subsequent RECEIVE command to retrieve information about the event.
- An API processing thread can have a maximum of 256 completed asynchronous requests outstanding at one time. If you do not issue the RECEIVE command at regular intervals and your processing thread reaches its maximum of 256, asynchronous requests are discarded and are not processed. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Related commands

ADDRESS, CANCEL, RECEIVE

Options

CONTEXT (*data-value*)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

EVENT (*data-value*)

Identifies the resource table that represents the event to be listened for. This value must be the 1- to 8-character name of a valid CPSM Notification resource table. For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*.

FILTER (*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option listens for only those events that meet the specified filter criteria.

Using the FILTER option, you can limit the notifications you receive to events that are associated with a specific CMAS or CICSplex. For example, you could create a filter like this:

```
PLEXNAME=EYUPLX01.
```

and specify that filter on the LISTEN command to be notified only of events generated by CICSplex EYUPLX01.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option listens for only those events that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTIFICATION(*data-ref*)

Names a variable to receive the fullword token that CICSplex SM assigns to this notification request.

This identifying token must be specified on the CANCEL command when you want to cancel the notification request.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate this LISTEN request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when an event of the specified type occurs.

Conditions

The following is a list of the RESPONSE values that can be returned by the LISTEN command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INCOMPATIBLE

An incompatible condition occurred for the following reason:

INVALIDEVT

The specified event is not compatible with the filter specified on the FILTER or NOTFILTER option.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- EVENT
- FILTER
- NOTFILTER
- NOTIFICATION
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread was trying to connect is not available for API processing.

PLEXMGR

The CMAS to which the processing thread is currently connected does not participate in managing the specified CICSplex and no other CMAS is available that does manage the CICSplex.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

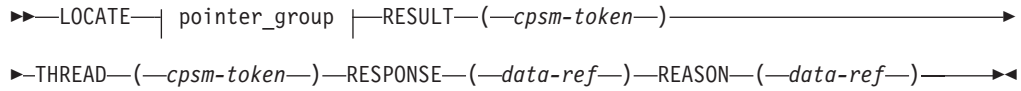
The version of the application stub program used for this command is not supported.

NOTVSNCONN

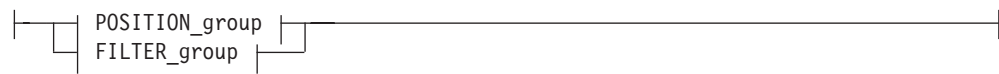
The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

LOCATE

Position the record pointer within a result set.



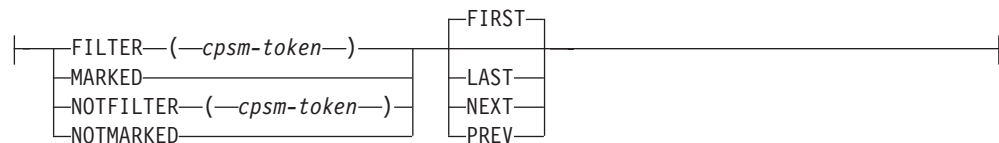
pointer_group



POSITION_group



FILTER_group



Description

This command positions the record pointer within a result set.

- API commands that manipulate records or update the data in a result set affect the position of the record pointer:
 - After a GET command, the pointer is positioned to the top of the result set.
 - After a FETCH command, the pointer is positioned to the next record in the result set (that is, the record following the last record fetched in whichever direction the pointer was moving, forward or backward). If no records were fetched (because no records matched the specified criteria), the pointer is positioned to the top or bottom of the result set, depending on which direction it was moving.

After issuing any other command that manipulates records or updates data, the position of the record pointer depends on a combination of factors, including the options that you specified on the command. To be certain of the pointer's location, you should use the LOCATE command to explicitly position it within the result set.

- The LOCATE command skips over any deleted records in the result set. If you try to position the record pointer to a deleted record, you receive a RESPONSE value of NODATA.

Related commands

COPY, DELETE, FETCH, GETDEF, GROUP, MARK, ORDER, PERFORM OBJECT, PERFORM SET, REFRESH, SET, SPECIFY FILTER, UNMARK

Options

BACKWARD(*data-value*)

Moves the record pointer backward by the specified number of resource table records.

If the pointer reaches the top of the result set, it remains positioned on the first resource table record. The pointer does not continue moving backward to the bottom of the result set.

BOTTOM

Moves the record pointer to the the last resource table record in the result set.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation.

The FILTER option positions the record pointer to a resource table record that meets the specified filter criteria. The FIRST, LAST, NEXT, or PREV option determines where in the result set the search begins and in what direction it continues.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FIRST

Begins a search based upon filter or marking criteria with the first resource table record in the result set. The search continues in a forward direction through the result set until a match is found.

FORWARD(*data-value*)

Moves the record pointer forward by the specified number of resource table records.

If the pointer reaches the bottom of the result set, it remains positioned on the last resource table record. The pointer does not continue moving forward to the top of the result set.

LAST

Begins a search based upon filter or marking criteria with the last resource table record in the result set. The search continues in a backward direction through the result set until a match is found.

MARKED

Positions the record pointer to a resource table record that is marked. The FIRST, LAST, NEXT, or PREV option determines where in the result set the search begins and in what direction it continues.

You can mark resource table records by using the MARK and UNMARK commands.

NEXT

Begins a search based upon filter or marking criteria with the current resource

table record in the result set. The search continues in a forward direction through the result set until a match is found.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation.

The NOTFILTER option positions the record pointer to a resource table record that does not meet the specified filter criteria. The FIRST, LAST, NEXT, or PREV option determines where in the result set the search begins and in what direction it continues.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Positions the record pointer to a resource table record that is not marked. The FIRST, LAST, NEXT, or PREV option determines where in the result set the search begins and in what direction it continues.

You can mark resource table records by using the MARK and UNMARK commands.

POSITION(*data-value*)

Moves the record pointer to the nth resource table record in the result set.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to move the record pointer to the fifth resource table record in a result set, you would specify POSITION(5).

PREV

Begins a search based upon filter or marking criteria with the previous resource table record in the result set. The search continues in a backward direction through the result set until a match is found.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOP

Moves the record pointer to the first resource table record in the result set.

Conditions

The following is a list of the RESPONSE values that can be returned by the LOCATE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria, for one of the following reasons:

BACKWARD

There are no more records that satisfy the search criteria in the backward direction.

FORWARD

There are no more records that satisfy the search criteria in the forward direction.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- BACKWARD
- FILTER
- FORWARD
- NOTFILTER

- POSITION
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread was trying to connect is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

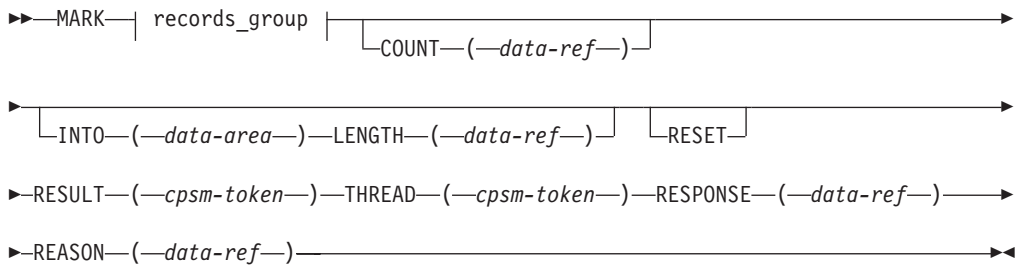
The version of the application stub program used for this command is not supported.

NOTVSNCONN

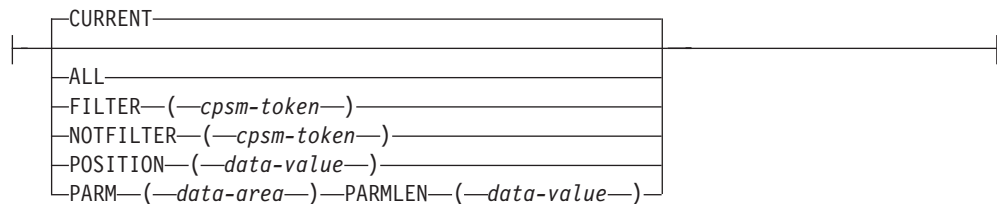
The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

MARK

Mark selected resource table records in a result set.



records_group



Description

This command marks selected resource table records in a result set.

- The MARK command always begins processing with the last record that was fetched, rather than the next one in the result set.
- Any resource table records that you marked in the result set previously remain marked unless you use the RESET option.

Related commands

COPY, DELETE, EXPAND, FETCH, GROUP, LOCATE, PERFORM SET, REFRESH, SET, SPECIFY FILTER, UNMARK

Options

ALL

Marks all the resource table records in the result set. When you specify ALL, the RESET option is ignored.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records that could not be marked.

CURRENT

Marks only the current resource table record.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option marks only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

INTO(*data-area*)

Identifies a buffer to receive a list of resource table records that could not be marked.

This buffer must be long enough to hold the maximum number of record numbers that could result from your MARK request (if none of them can be marked). Record numbers are listed individually (not by range) in the INTO buffer and are separated by commas.

Note: If you receive a RESPONSE value of WARNING AREATOOSMALL (because the buffer was not long enough), the data returned in this buffer represents a partial list of the records that could not be marked.

LENGTH(*data-ref*)

A fullword value that specifies the length of the INTO buffer.

The value that CICSPlex SM returns in this field depends on the RESPONSE value for the MARK command:

OK The actual length of the data returned in the INTO buffer.

WARNING AREATOOSMALL

The buffer length that would be required to hold a complete list of records that could not be marked.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option marks only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

PARM(*data-area*)

Identifies a buffer containing the parameter expression that lists the resource table records to be marked.

The parameter expression for the MARK command is a character string of record numbers. For example:

```
PARM('1,3,6:9,24.')
```

To specify individual records, separate the record numbers with a comma. To specify a range of records, separate the low and high record numbers with a colon. The whole parameter expression must end with a period.

For details on how to use a parameter expression with the MARK command, see *CICSplex System Manager Application Programming Guide*.

PARMLEN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

POSITION(*data-value*)

Marks the *n*th resource table record in the result set.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to mark the fifth resource table record in a result set, you would specify POSITION(5).

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESET

Removes any marks previously placed on resource table records in the result set and marks only those records you identify in the current MARK request.

If you do not use the RESET option, any records that you marked previously remain marked. That is, the records identified in the current MARK request are marked in addition to any previously marked records.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the MARK command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria.

WARNING

The command completed processing with a warning, for one of the following reasons:

AREATOOSMALL

You specified the INTO and LENGTH options, but the buffer was not long enough to hold the string of records that could not be marked.

DATAERROR

One or more of the records specified in the PARM buffer could not be found to be marked. If you specified the COUNT option, the number of records that could not be marked is returned. If you specified the INTO and LENGTH options, a list of the records is returned in the buffer.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- COUNT
- FILTER
- INTO

- LENGTH
- NOTFILTER
- PARM
- PARMLEN
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

ORDER

Sort the resource table records in a result set.

```
►►—ORDER—BY—(—data-area—)—LENGTH—(—data-value—)—————►
►—RESULT—(—cpm-token—)—THREAD—(—cpm-token—)—RESPONSE—(—data-ref—)————►
►—REASON—(—data-ref—)—————►◄◄
```

Description

This command sorts the resource table records in a result set into a user-specified order.

- By default, records are sorted by the key attributes for the resource table.
- The sort order you specify for a result set remains in effect until you issue another ORDER command.
- If the result set contains deleted records, those records are included in the sorting process. They are sorted by the same attributes as other records and their position in the newly ordered result set may be difficult to determine. To prevent this happening, issue the REFRESH command before issuing ORDER; REFRESH removes any deleted records from the result set.

Related commands

COPY, GET, GETDEF, GROUP, LOCATE, PERFORM OBJECT

Options

BY(*data-area*)

Identifies a buffer containing the order expression to be used for this operation.

An order expression is a list of attributes to be used in sorting the resource table records. For example:

```
CICSSYS,TRANID.
```

where the attribute names are separated by commas or blank spaces and the whole expression ends with a period.

In this example, the resource table records are sorted using CICS system name as the primary sort key and transaction ID as the secondary key. The default sort order is ascending. To sort attribute values in descending order, add /D to the end of the attribute name.

For more information on using order expressions with the ORDER command, see *CICSplex System Manager Application Programming Guide*.

Note: You cannot specify the EYU_CICSNAME or EYU_CICSREL attributes in an order expression.

LENGTH(*data-value*)

A fullword value that specifies the length of the BY buffer.

Note: The buffer length you specify should not include any data other than an order expression.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the ORDER command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

BUSY A busy condition occurred for the following reason:

RESULT
The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR
An environment error occurred for one of the following reasons:

NOSERVICE
The application stub program could not load the API service module.

NOSTORAGE
The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE
A required resource that is owned by the CMAS is not available.

FAILED
The command failed for one of the following reasons:

ABENDED
Command processing abended.

EXCEPTION
Command processing encountered an exceptional condition.

INVALIDCMD
The command is invalid for the following reason:

LENGTH
The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM
An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- BY
- LENGTH
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE
A not available condition occurred for one of the following reasons:

APITASK
The API control subtask is not active.

CPSMAPI
The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE
The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

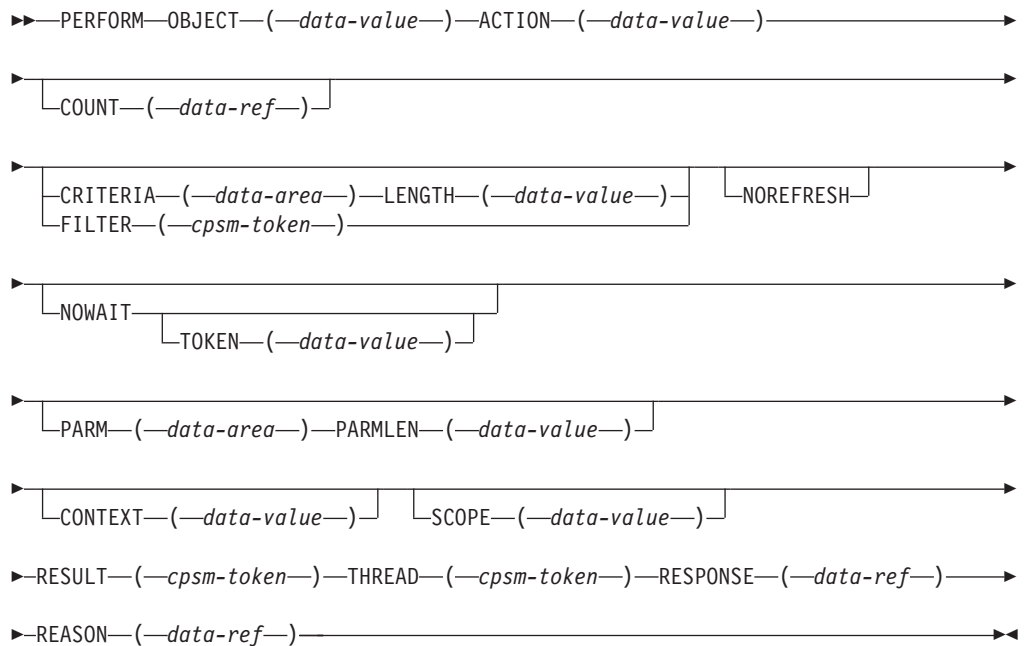
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

PERFORM OBJECT

Perform an action on one or more resources.



Description

This command performs an action on one or more resources.

- The resources to be acted upon by PERFORM OBJECT do not have to exist as records in a result set; a result set is implicitly created by this process.
- If the context and scope in effect when you issue a PERFORM OBJECT command include CICS systems that do not support the requested action, the request is ignored for those CICS systems.
- The PERFORM OBJECT command contains two phases; the first is to build the result set, and the second is to take the requested action against the records in the result set. If an error occurs during the building of the result set, but the result set is not empty, the requested action will still be attempted on the records that are present in the result set.

Related commands

DISCARD, GET, LOCATE, PERFORM SET, QUERY, SET, SPECIFY FILTER

Options

ACTION(*data-value*)

Identifies the action to be performed. This value must be the 1- to 12-character name of a valid action for the resource table.

For a description of the actions that are valid for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

CONTEXT(*data-value*)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the target result set after this operation is complete.

CRITERIA(*data-area*)

Identifies a buffer containing the filter expression to be used for this operation. The CRITERIA option retrieves only those resource table records that meet the specified filter criteria.

For details on how to form a filter expression, see *CICSplex System Manager Application Programming Guide*.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option retrieves only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

LENGTH(*data-value*)

A fullword value that specifies the length of the CRITERIA buffer.

Note: The buffer length you specify should not include any data other than a filter expression.

NOREFRESH

Specifies that the resource table records in the result set created by PERFORM OBJECT should not be refreshed. The records reflect the status of the resources when the result set was created.

If you do not specify the NOREFRESH option, the resource table records are refreshed to reflect the resource status after this operation is complete.

NOWAIT

Returns control to your program as soon as the PERFORM OBJECT command has been accepted, which allows the command to be processed asynchronously.

If you specify the NOWAIT option, you must use a subsequent RECEIVE command to test for the completion of this request. The results of an asynchronous request are returned as ASYNCREQ resource table records. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Note: If you specify the TOKEN option, the NOWAIT option is assumed by default.

OBJECT (*data-value*)

Identifies the resource table against which the action is to be performed. This value must be the 8-character name of a valid resource table.

PARM (*data-area*)

Identifies a buffer containing the parameter expression to be used in performing the action.

For details on how to use a parameter expression with the PERFORM OBJECT command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that are required for a given resource table action, see the *CICSplex System Manager Resource Tables Reference*.

PARMLEN (*data-value*)

A fullword value that specifies the length of the PARM buffer.

REASON (*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE (*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT (*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

CICSplex SM replaces the contents of the existing result set with the resource table records requested by this PERFORM OBJECT command.

If this field is:

- Set to binary zero (in COBOL, C, PL/I or Assembler)
- An uninitialized variable (in REXX).

CICSplex SM creates a new result set and returns its identifying token in the same field.

SCOPE (*data-value*)

Identifies the scope for this command.

To use the SCOPE option, the current context (as set by this command or a previous CONNECT or QUALIFY command) must be a CICSplex. The scope can be:

- The 1- to 8-character name of the CICSplex itself
- A CICS system or CICS system group within the CICSplex
- A logical scope, as defined in a CICSplex SM resource description (RESDESC).

If OBJECT identifies a CICS definitional resource and the PARM option includes the CSDGROUP parameter, a valid scope can be specified. The scope can be:

- A CICS system in the CICSplex.

If the current context is a CMAS or the OBJECT option identifies any other type of resource table, this option has no meaning and is ignored.

If you do not specify the SCOPE option, the default scope for the thread is assumed. If the current context is a CICSplex and no default scope has been set on a CONNECT or QUALIFY command, you receive an INVALIDPARM response for the SCOPE option.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate an asynchronous PERFORM OBJECT request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when this PERFORM OBJECT request is complete.

Conditions

The following is a list of the RESPONSE values that can be returned by the PERFORM OBJECT command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

SCHEDULED

The command has been scheduled for processing.

NODATA

No records were found that matched the specified search criteria.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

Invalid data was detected. The parameter that contains invalid data is returned as the reason value:

PARM An attribute value listed in the PARM buffer is not valid for the specified attribute.

CRITERIA

An attribute value listed in the CRITERIA buffer is not valid for the specified attribute.

INVALIDCMD

The command is invalid for one of the following reasons:

FILTER

The filter expression passed on the operation is too large or complex.

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- ACTION
- CONTEXT
- CRITERIA
- FILTER
- LENGTH
- OBJECT
- PARM
- PARMLEN
- RESULT
- SCOPE
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

MAINTPOINT

The maintenance point for the current context is not available.

PLEXMGR

The CMAS to which the processing thread is currently connected does not participate in managing the specified CICSplex and no other CMAS is available that does manage the CICSplex.

SCOPE

Either none of the MASs in the specified scope are available or none of them support the requested action.

WORKLOAD

The workload identified on the API request is not available on the local CMAS.

NOTFOUND

A not found condition occurred for one of the following reasons:

ACTION

The action specified on the ACTION option was not found for the specified resource table.

ATTRIBUTE

An attribute specified in the CRITERIA or PARM buffer was not found for the specified resource table.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

TABLEERROR

A resource table record is invalid for the following reason:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required fields, contains one or more conflicting fields, or is a duplicate. For BAS this error can also occur if you do not have the required security authorization. Use the FEEDBACK command to retrieve additional data about this error.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

WARNING

The PERFORM OBJECT command may have only partially completed for one of the following reasons:

RESULT

During the building of the result set to be used on the command, a non-OK response was received. However some result set records were available and the requested action was successfully performed against them. Use the FEEDBACK command without the RESULT option to obtain information about the non-OK response.

ACTION

During the building of the result set to be used on the command, a non-OK response was received. However some result set records were available and the requested action was attempted. The action specified did not complete successfully on, at least one result set record due to a TABLEERROR or DATAERROR CICSPlex SM response or reason.

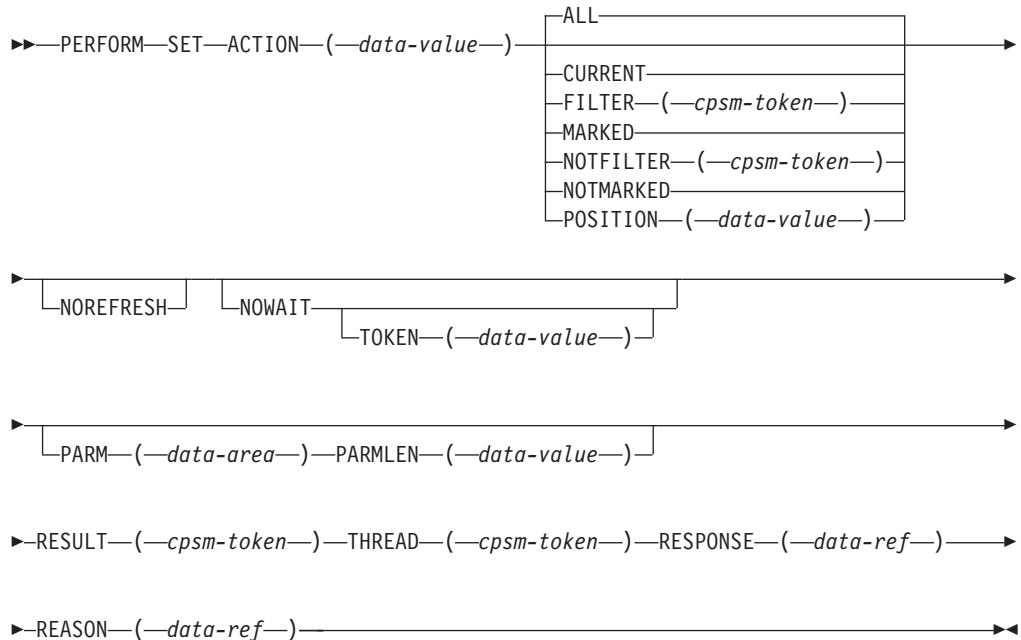
Use the FEEDBACK command without the RESULT option to obtain information about the error that occurred during the building of the result set. Use the FEEDBACK command with the RESULT option to obtain information about records that caused the TABLEERROR or DATAERROR response or reason.

WORKLOAD

The workload identified on the API request is not available on the local CMAS.

PERFORM SET

Perform an action on one or more resources.



Description

This command performs an action on one or more resources as represented by resource table records in an existing result set. If the context and scope in effect

when you issue a PERFORM SET command include CICS systems that do not support the requested action, the request is ignored for those CICS systems.

Related commands

LOCATE, MARK, PERFORM OBJECT, SET, SPECIFY FILTER

Options

ACTION(*data-value*)

Identifies the action to be performed. This value must be the 1- to 12-character name of a valid action for the resource table.

For a description of the actions that are valid for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

ALL

Performs the specified action against all the resource table records in the result set.

CURRENT

Performs the specified action against only the current resource table record.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option performs the action against only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

MARKED

Performs the specified action against only those resource table records that are marked in the result set. You can mark resource table records by using the MARK and UNMARK commands.

NOREFRESH

Specifies that the resource table records in the source result set should not be refreshed. The records reflect the status of the resources before the PERFORM SET command was processed.

If you do not specify the NOREFRESH option, the resource table records are refreshed to reflect the resource status after this operation is complete.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option performs the action against only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Performs the specified action against only those resource table records that are not marked in the result set. You can mark resource table records by using the MARK and UNMARK commands.

NOWAIT

Returns control to your program as soon as the PERFORM SET command has been accepted, which allows the command to be processed asynchronously.

If you specify the NOWAIT option, you must use a subsequent RECEIVE command to test for the completion of this request. The results of an

asynchronous request are returned as ASYNCREQ resource table records. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Note: If you specify the TOKEN option, the NOWAIT option is assumed by default.

PARM(*data-area*)

Identifies a buffer containing the parameter expression to be used in performing the action.

For details on how to use a parameter expression with the PERFORM SET command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that are required for a given resource table action, see the *CICSplex System Manager Resource Tables Reference*.

PARMLEN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

POSITION(*data-value*)

Performs the specified action against the nth resource table record in the result set.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to perform the specified action on the fifth resource table record in a result set, you would specify POSITION(5).

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate an asynchronous PERFORM SET request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when this PERFORM SET request is complete.

Conditions

The following is a list of the RESPONSE values that can be returned by the PERFORM SET command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

SCHEDULED

The command has been scheduled for processing.

NODATA

No records were found that matched the specified search criteria. If the ALL option was specified, the following reason may be returned:

FORWARD

There are no more records that satisfy the search criteria in the forward direction.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

Invalid data was detected. The parameter that contains invalid data is returned as the reason value:

PARM An attribute value listed in the PARM buffer is not valid for the specified attribute.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- ACTION
- FILTER
- NOTFILTER
- PARM
- PARMLEN
- POSITION
- RESULT
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

MAINTPOINT

The maintenance point for the current context is not available.

PLEXMGR

The CMAS to which the processing thread is currently connected does not participate in managing the specified CICSplex and no other CMAS is available that does manage the CICSplex.

SCOPE

Either none of the MASs in the specified scope are available or none of them support the requested action.

WORKLOAD

The workload identified on the API request is not available on the local CMAS.

NOTFOUND

A not found condition occurred for one of the following reasons:

ACTION

The action specified on the ACTION option was not found for the specified resource table.

ATTRIBUTE

An attribute specified in the CRITERIA or PARM buffer was not found for the specified resource table.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for the following reason:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required fields, contains one or more conflicting fields, or is a duplicate. For BAS this error can also occur if you do not have the required security authorization. Use the FEEDBACK command to retrieve additional data about this error.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

QUALIFY

Define the CICSplex SM context and scope.

```

▶▶—QUALIFY—CONTEXT—(—data-value—)————→
                                     └──SCOPE—(—data-value—)──┘
▶—THREAD—(—cpsm-token—)—RESPONSE—(—data-ref—)—REASON—(—data-ref—)—▶▶

```

Related commands

CONNECT

Description

This command defines the CICSplex SM context and scope for subsequent commands issued by an API processing thread.

Options**CONTEXT** (*data-value*)

Identifies the context for subsequent commands issued against this thread. The context must be the 1- to 8-character name of a CMAS or CICSplex.

The specified context remains in effect for the thread until you override it or change it on a subsequent command.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SCOPE(*data-value*)

Identifies the scope for subsequent commands issued against this thread.

The SCOPE option qualifies the CONTEXT option. When the context is a CICSplex, the scope can be:

- The 1- to 8-character name of the CICSplex itself
- A CICS system or CICS system group within the CICSplex
- A logical scope, as defined in a CICSplex SM resource description (RESDESC).

When the context is a CMAS, this option has no meaning and is ignored.

The specified scope remains in effect for the thread unless you override it for a specific command or change it by issuing another QUALIFY command. If you do not specify the SCOPE option, no scope value is assumed (that is, the default scope established for the thread by the CONNECT command is not retained).

Note: Certain API commands require a valid scope when the context is a CICSplex. If you do not specify a scope on the QUALIFY command, then you must specify the SCOPE option when you issue any of these commands for a resource table that represents a CICS resource:

- GET
- PERFORM OBJECT
- PERFORM SET
- REFRESH
- SET.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the QUALIFY command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- SCOPE
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

PLEXMGR

The CMAS to which the processing thread is currently connected does not participate in managing the specified CICSplex and no other CMAS is available that does manage the CICSplex.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

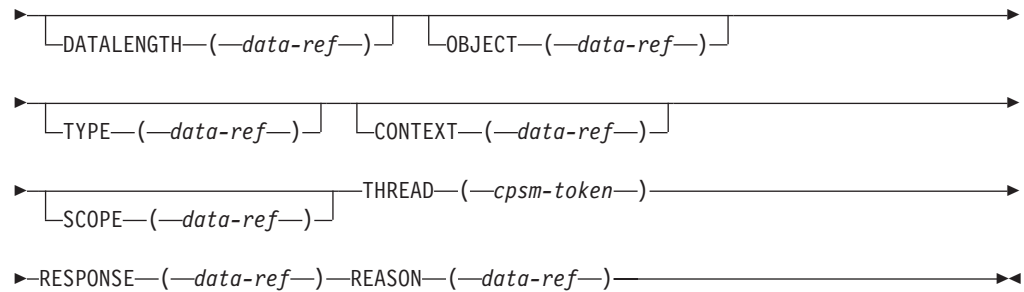
NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

QUERY

Retrieve information about a result set and the resource table records it contains.

►►—QUERY—RESULT—(—*cpsm-token*—)———┐———┐
 └───QUERYERROR──┘ └──COUNT—(—*data-ref*—)──┘



Description

This command retrieves information about a result set and the resource table records it contains.

- You can use the QUERY command to determine:
 - The context and scope of the result set
 - The type of resource table records the result set contains
 - Whether the records are from the CICSplex SM resource table or a user-defined view of that table
 - The number of resource table records in the result set
 - The length of the resource table records
- For programs written in REXX, issuing the QUERY command is the only way to determine the length of a given resource table record.

Related commands

COPY, GET, GETDEF, GROUP, PERFORM OBJECT

Options

CONTEXT(*data-ref*)

Names a variable to receive the context associated with the result set.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records in the result set.

DATALength(*data-ref*)

Names a variable to receive the length of the resource table records in the result set.

OBJECT(*data-ref*)

Names a variable to receive the name of the resource table currently associated with the result set.

Note: If QUERYERROR is specified, the OBJECT returned is MASQRYER, not the object or view contained in the result set.

QUERYERROR

Indicates that this request is to return information on MASQRYER resources generated by the last GET, PERFORM, or SET command to act on the result set.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

SCOPE(*data-ref*)

Names a variable to receive the scope associated with the result set. This value may be blank for result sets containing CMAS type resources.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TYPE(*data-ref*)

Names a variable to receive a 1-character value that indicates what type of records are in the result set:

- | | |
|----------|--|
| T | Resource tables supplied by CICSplex SM. |
| V | Views of a resource table created by a SPECIFY VIEW command issued previously on this processing thread. |

Conditions

The following is a list of the RESPONSE values that can be returned by the QUERY command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- DATALENGTH
- OBJECT
- RESULT
- THREAD
- TYPE.

Check the command description for valid parameter syntax.

NODATA

The command requested information about MASQRYER resources generated by the last command to process the result set, but the last command completed successfully, and there are no MASQRYER resources. If COUNT was requested a value of zero is returned.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

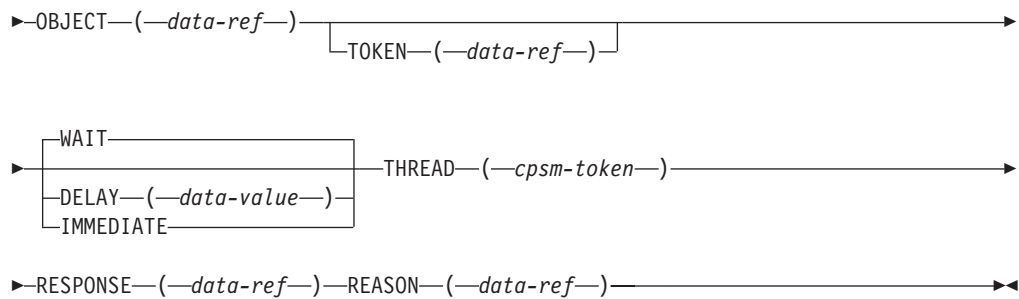
NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

RECEIVE

Receive the output from completed asynchronous requests.

►►—RECEIVE—INTO—(*—data-area—*)—LENGTH—(*—data-ref—*)——————►



Description

This command receives the output from completed asynchronous requests associated with the processing thread.

- Asynchronous output can result if you previously issued either a LISTEN command or one of these commands with the NOWAIT option:
 - GET
 - PERFORM OBJECT
 - PERFORM SET
 - REFRESH
 - SET.
- To determine if there is any asynchronous output to be received, issue the ADDRESS command and check the SENTINEL value before you issue the RECEIVE command.
- An API processing thread can have a maximum of 256 completed asynchronous requests outstanding at one time. If you do not issue the RECEIVE command at regular intervals and your processing thread reaches its maximum of 256, asynchronous requests are discarded and are not processed. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Related commands

ADDRESS, GET, LISTEN, PERFORM OBJECT, PERFORM SET, REFRESH, SET

Options

DELAY(*data-value*)

Specifies the number of seconds that processing will wait if no output is available when the RECEIVE command is issued. At the end of the specified number of seconds, control returns to the processing thread, whether or not any output becomes available. If output becomes available during the delay period, control returns to the processing thread. If output is immediately available, there is no delay; control returns immediately to the processing thread.

DELAY must specify a non-zero value. If you want to make sure that your program never enters a wait, use the IMMEDIATE option instead of DELAY.

IMMEDIATE

Returns control to the processing thread immediately, whether or not any output is available.

INTO(*data-area*)

Identifies a buffer to receive asynchronous output, if any is available for this thread. This buffer must be long enough to hold all the output being received.

The output returned can be:

- A resource table record representing an event named in a previous LISTEN command
- An ASYNCREQ resource table record representing completion of an asynchronous GET, PERFORM, REFRESH, or SET request.

LENGTH(*data-ref*)

A fullword value that specifies the length of the INTO buffer.

After the operation is complete, this field is set to the actual length of the data returned in the INTO buffer. If the operation cannot complete because the buffer is not long enough, this field is set to the length that is required.

OBJECT(*data-ref*)

Names a variable to receive a resource table name, if output is available for this thread.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

WAIT

Waits until asynchronous output becomes available before returning control to the processing thread.

Note: The WAIT option waits indefinitely for asynchronous output. Be sure to verify that there are completed asynchronous requests outstanding by issuing the ADDRESS command before you issue RECEIVE.

TOKEN(*data-ref*)

Names a variable to receive the user-defined token associated with the asynchronous output. This value is the token you defined on the GET, LISTEN, PERFORM, REFRESH or SET command that produced the output.

Conditions

The following is a list of the RESPONSE values that can be returned by the RECEIVE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

There was no data to receive.

WARNING

The command completed processing with a warning, for the following reason:

AREATOOSMALL

The INTO buffer is not long enough to hold the number of records requested and available.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- DELAY
- INTO
- LENGTH
- OBJECT
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

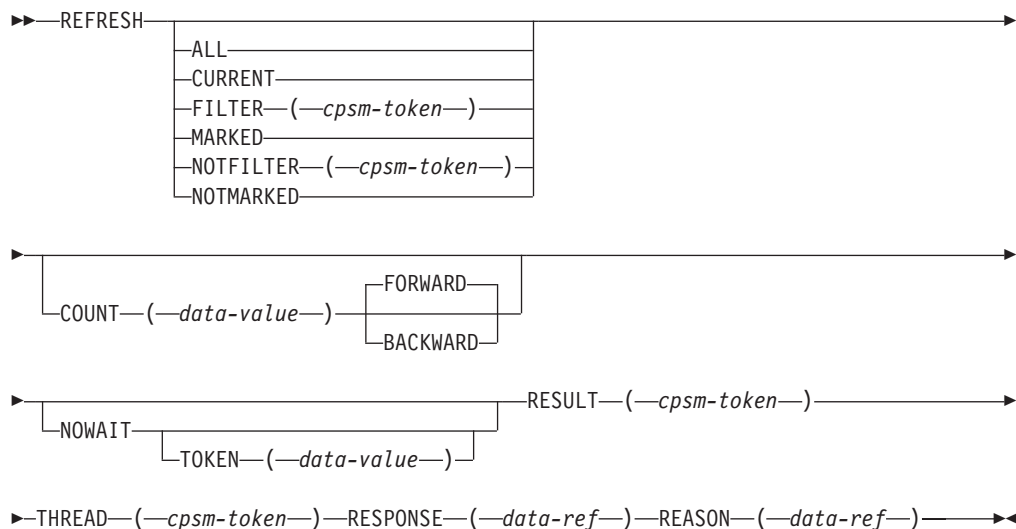
The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

REFRESH

Refresh the data for resource table records.



Description

- This command refreshes the data for some or all of the resource table records in a result set.
- For the MAS resource table, REFRESH provides data only if the MAS was active when the result set was last built.

Related commands

COPY, GET, LOCATE, MARK, PERFORM OBJECT, SPECIFY FILTER

Options

ALL

Refreshes all the resource table records in the result set. When you specify ALL:

- The COUNT option is ignored.
- Any records that have been deleted are removed from the result set. Any positions previously held by deleted records are filled in and the remaining records are renumbered. Therefore, the relative position of a given record in a result set may be different after a refresh.

BACKWARD

Refreshes the previous resource table record and continues in a backward direction through the result set refreshing as many records as the COUNT option specifies.

Note: If the record pointer is at the bottom of the result set, using BACKWARD refreshes the current record (which is the last record) and then continues on to previous records.

COUNT(*data-value*)

Specifies the number of resource table records to be refreshed. If you do not specify the COUNT option, only one record is refreshed.

If you do not specify the FORWARD or BACKWARD option, the refresh process moves in a forward direction through the result set.

CURRENT

Refreshes only the current resource table record. When you specify CURRENT, the COUNT option is ignored.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option indicates that only those resource table records that meet the specified filter criteria should be considered for refresh.

The number of records that are refreshed is determined by the COUNT option. If you do not specify the COUNT option, only the first record that meets the filter criteria is refreshed.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FORWARD

Refreshes the current resource table record and continues in a forward direction through the result set refreshing as many records as the COUNT option specifies.

MARKED

Indicates that only those resource table records that are marked in the result set should be considered for refresh.

The number of records that are refreshed is determined by the COUNT option. If you do not specify the COUNT option, only the first record that is marked is refreshed.

You can mark resource table records by using the MARK and UNMARK commands.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option indicates that only those resource table records that do not meet the specified filter criteria should be considered for refresh.

The number of records that are refreshed is determined by the COUNT option. If you do not specify the COUNT option, only the first record that does not meet the filter criteria is refreshed.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Indicates that only those resource table records that are not marked in the result set should be considered for refresh.

The number of records that are refreshed is determined by the COUNT option. If you do not specify the COUNT option, only the first record that is not marked is refreshed.

You can mark resource table records by using the MARK and UNMARK commands.

NOWAIT

Returns control to your program as soon as the REFRESH command has been accepted, which allows the command to be processed asynchronously.

If you specify the NOWAIT option, you must use a subsequent RECEIVE command to test for the completion of this request. The results of an asynchronous request are returned as ASYNCREQ resource table records. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Note: If you specify the TOKEN option, the NOWAIT option is assumed by default.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate an asynchronous REFRESH request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when this REFRESH request is complete.

Conditions

The following is a list of the RESPONSE values that can be returned by the REFRESH command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

SCHEDULED

The command has been scheduled for processing.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- COUNT
- FILTER
- NOTFILTER
- RESULT
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

MAINTPOINT

The maintenance point for the current context is not available.

SCOPE

None of the MASs in the specified scope are available.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for the following reason:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required attributes, contains one or more conflicting attributes, or does not exist. Use the FEEDBACK command to retrieve additional data about this error.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

REMOVE

Remove a CICSplex SM or CICS definition from the data repository.

```
▶▶ REMOVE OBJECT (—data-value—) FROM (—data-area—)
▶ LENGTH (—data-value—)
▶ [ PARM (—data-area—) PARMLEN (—data-value—) ]
▶ [ CONTEXT (—data-value—) ] [ SCOPE (—data-value—) ]
▶▶ THREAD (—cpsm-token—) RESPONSE (—data-ref—) REASON (—data-ref—) ▶▶
```

Description

This commands removes a CICSplex SM or CICS definition from the data repository. For definitions that have a CICSplex as their context (such as workload management or real-time analysis definitions), the definition is also removed from the data repositories of all CMASs involved in managing the CICSplex.

Related commands

CREATE, UPDATE

Options

CONTEXT (*data-value*)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

FROM(*data-area*)

Identifies a buffer containing a resource table record that represents the definition to be removed. The record must include all of the attributes for the resource table specified on the OBJECT option.

LENGTH(*data-value*)

A fullword value that specifies the length of the FROM buffer.

OBJECT(*data-value*)

Identifies the resource table that represents the definition being removed. This value must be the 1- to 8-character name of a valid CPSM Definition or CICS Definition resource table. For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*.

PARM(*data-area*)

Identifies a buffer containing the parameter expression to be used in removing the definition.

For details on how to use a parameter expression with the REMOVE command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that are valid for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

PARMLEN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

SCOPE(*data-value*)

Identifies the scope for this command.

If the current context (as set by this command or a previous CONNECT or QUALIFY command) is a CICSplex and the OBJECT option identifies a CICS definitional resource and the PARM option includes the CSD parameter, a valid scope can be specified.

The scope can be a CICS system within the CICSplex. If the current context is a CMAS or the OBJECT option identifies any other type of resource table, or the CSD parameter is not specified on a CICS definitional resource, this option has no meaning and is ignored.

If SCOPE applies to the command and you do not specify the SCOPE option, the default scope for the thread is assumed. If the current context is a CICSplex and no default scope has been set on a CONNECT or QUALIFY command, you receive an INVALIDPARM response for the SCOPE option.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the REMOVE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- FROM
- LENGTH
- OBJECT
- PARM
- PARMLEN
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

CSDAPI

Support for the CICSplex SM API to access the CICS CSD is not available.

MAINTPOINT

The maintenance point for the current context is not available.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required attributes, contains one or more conflicting attributes, or does not exist. Use the FEEDBACK command to retrieve additional data about this error.

INVALIDATTR

One of the resource table attributes is invalid.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

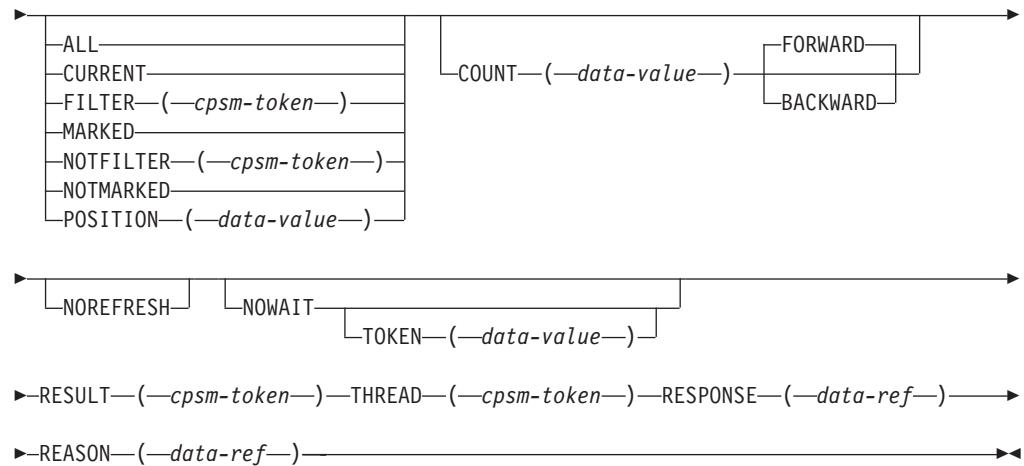
NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

SET

Modify the attributes of one or more resources.

►►—SET—MODIFY—(—*data-area*—)—LENGTH—(—*data-value*—)—————►



Description

This command modifies the attributes of one or more resources as represented by resource table records in an existing result set.

- The SET command is valid only for CICS Resource and some CPSM Manager resource tables.
- If the context and scope in effect when you issue a SET command include CICS systems that do not support the requested modification, the request is ignored for those CICS systems.

Related commands

COPY, GET, GROUP, LOCATE, MARK, PERFORM OBJECT, PERFORM SET, SPECIFY FILTER

Options

ALL

Modifies all the resource table records in the result set. When you specify ALL, the COUNT option is ignored.

BACKWARD

Modifies the previous resource table record and continues in a backward direction through the result set modifying as many records as the COUNT option specifies.

Note: If the record pointer is at the bottom of the result set, using BACKWARD modifies the current record (which is the last record) and then continues on to previous records.

COUNT (*data-value*)

Specifies the number of resource table records to be modified. If you do not specify the COUNT option, only one record is refreshed.

If you do not specify the FORWARD or BACKWARD option, the modification process moves in a forward direction through the result set.

CURRENT

Modifies only the current resource table record. When you specify CURRENT, the COUNT option is ignored.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option indicates that only those resource table records that meet the specified filter criteria should be considered for modification.

The number of records that are modified is determined by the COUNT option. If you do not specify the COUNT option, only the first record that meets the filter criteria is modified.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

FORWARD

Modifies the current resource table record and continues in a forward direction through the result set modifying as many records as the COUNT option specifies.

LENGTH(*data-value*)

A fullword value that specifies the length of the MODIFY buffer.

Note: The buffer length you specify should not include any data other than a modification expression.

MARKED

Indicates that only those resource table records that are marked in the result set should be considered for modification.

The number of records that are modified is determined by the COUNT option. If you do not specify the COUNT option, only the first record that is marked is modified.

You can mark resource table records by using the MARK and UNMARK commands.

MODIFY(*data-area*)

Identifies a buffer containing the modification expression to be used in modifying the resource table records.

For details on how to form a modification expression, see *CICSplex System Manager Application Programming Guide*.

NOREFRESH

Specifies that the resource table records in the source result set should not be refreshed. The records reflect the status of the resources before the SET command was processed.

If you do not specify the NOREFRESH option, the resource table records are refreshed to reflect the resource status after this operation is complete.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option indicates that only those resource table records that do not meet the specified filter criteria should be considered for modification.

The number of records that are modified is determined by the COUNT option. If you do not specify the COUNT option, only the first record that does not meet the filter criteria is modified.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

NOTMARKED

Indicates that only those resource table records that are not marked in the result set should be considered for modification.

The number of records that are modified is determined by the COUNT option. If you do not specify the COUNT option, only the first record that is not marked is modified.

You can mark resource table records by using the MARK and UNMARK commands.

NOWAIT

Returns control to your program as soon as the SET command has been accepted, which allows the command to be processed asynchronously.

If you specify the NOWAIT option, you must use a subsequent RECEIVE command to test for the completion of this request. The results of an asynchronous request are returned as ASYNCREQ resource table records. For a complete description of asynchronous processing, see *CICSplex System Manager Application Programming Guide*.

Note: If you specify the TOKEN option, the NOWAIT option is assumed by default.

POSITION(*data-value*)

Modifies the nth resource table record in the result set. When you specify POSITION, the COUNT option is ignored.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to modify the fifth resource table record in a result set, you would specify POSITION(5).

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOKEN(*data-value*)

Defines a 1- to 4-character token that you choose to correlate an asynchronous SET request with the result of a subsequent RECEIVE command. This token is for use by your program; CICSplex SM makes no use of the value. The token is returned by the RECEIVE command when this SET request is complete.

Conditions

The following is a list of the RESPONSE values that can be returned by the SET command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

SCHEDULED

The command has been scheduled for processing.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

An invalid data error occurred for one of the following reasons:

MODIFY

An attribute value listed in the MODIFY buffer is not valid for the specified attribute.

NOTSUPPORTED

An attribute listed in the MODIFY buffer is not modifiable.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected in either the command string or the MODIFY buffer. The parameter that is invalid is returned as the reason value:

- ATTRIBUTE
- COUNT
- FILTER
- LENGTH
- MODIFY
- NOTFILTER
- POSITION
- RESULT
- THREAD
- TOKEN.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

MAINTPOINT

The maintenance point for the current context is not available.

SCOPE

Either none of the MASs in the specified scope are available or none of them support the requested modification.

NOTFOUND

A not found condition occurred for one of the following reasons:

ACTION

An action requested in the MODIFY buffer was not found for the specified resource table.

ATTRIBUTE

An attribute specified in the MODIFY buffer was not found for the specified resource table.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required attributes, contains one or more conflicting attributes, or is a duplicate. Use the FEEDBACK command to retrieve additional data about this error.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

SPECIFY FILTER

Define an attribute or value filter and assign an identifying token to it.

```
►►—SPECIFY—FILTER—(—data-ref—)—CRITERIA—(—data-area—)—►►
►—LENGTH—(—data-value—)—OBJECT—(—data-value—)—THREAD—(—cpsm-token—)—►
►—RESPONSE—(—data-ref—)—REASON—(—data-ref—)—►►
```

Description

This command defines an attribute or value filter and assigns an identifying token to it.

- Filters are associated with the specific processing thread on which they are defined; they cannot be shared by other processing threads.
- You can define multiple filters for use by a processing thread; CICSplex SM assigns a unique identifying token to each one.
- When a processing thread is terminated, any filters defined by it are discarded.

Related commands

COPY, DELETE, DISCARD, FETCH, GET, GROUP, LISTEN, LOCATE, MARK, PERFORM OBJECT, PERFORM SET, REFRESH, SET, UNMARK

Options

CRITERIA(*data-area*)

Identifies a buffer containing the filter expression to be used for this operation. The CRITERIA option filters only those resource table records that meet the specified criteria.

For details on how to form a filter expression, see *CICSplex System Manager Application Programming Guide*.

Note: You cannot specify the EYU_CICSNAME or EYU_CICSREL attributes in a filter expression.

FILTER(*data-ref*)

Names a variable to receive the token that CICSplex SM assigns to this filter.

This identifying token must be specified on all subsequent commands that use this filter.

LENGTH(*data-value*)

A fullword value that specifies the length of the CRITERIA buffer.

Note: The buffer length you specify should not include any data other than a filter expression.

OBJECT(*data-value*)

Identifies the resource table for which a filter is being created. This value must be the 8-character name of a valid resource table.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the SPECIFY FILTER command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

Invalid data was detected. The parameter that contains invalid data is returned as the reason value:

CRITERIA

An attribute value listed in the CRITERIA buffer is not valid for the specified attribute.

INVALIDCMD

The command is invalid for one of the following reasons:

FILTER

The filter expression passed on the operation is too large or complex.

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CRITERIA
- FILTER
- LENGTH
- OBJECT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

NOTFOUND

A not found condition occurred for the following reason:

ATTRIBUTE

An attribute specified in the CRITERIA buffer was not found for the specified resource table.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

SPECIFY VIEW

Build a customized view of a given resource table.

```
►—SPECIFY—VIEW—(—data-value—)—FIELDS—(—data-area—)—————►
►—LENGTH—(—data-value—)—OBJECT—(—data-value—)—THREAD—(—cpsm-token—)————►
►—RESPONSE—(—data-ref—)—REASON—(—data-ref—)—————►◀
```

Description

This command builds a customized view of a given resource table.

- Views can be built only for resource tables with a type of CICS Resource.
- Views are associated with the specific processing thread on which they are built; they cannot be shared by other processing threads.
- When a processing thread is terminated, any views built by it are deleted.
- The name you assign to a view takes precedence over any existing resource table names. You can redefine an existing resource table name to represent a customized view of that resource table.
- You are recommended to use names for customized views that are not already assigned either to other customized views or to CICSplex SM-supplied resource tables. If you do use a name that is already assigned, you should be aware that your processing could be affected. For more details, see *CICSplex System Manager Application Programming Guide*.
- When you upgrade to a later version of CICSplex SM, you should check that any new resource tables do not have the same names as any customized views. For more details, see *CICSplex System Manager Application Programming Guide*.

Related commands

DISCARD, GET

Options

FIELDS(*data-area*)

Identifies a buffer containing the order expression to be used for this operation.

For details on how to use an order expression with the SPECIFY VIEW command, see *CICSplex System Manager Application Programming Guide*.

Note: You cannot specify the EYU_CICSNAME or EYU_CICSREL attributes in an order expression.

LENGTH(*data-value*)

A fullword value that specifies the length of the FIELDS buffer.

Note: The buffer length you specify should not include any data other than an order expression.

OBJECT (*data-value*)

Identifies the resource table for which a view is being created. This value must be the 1- to 8-character name of a valid CICS Resource table. For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*.

REASON (*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE (*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD (*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

VIEW (*data-value*)

Defines a 1- to 8-character name for the view being built.

Conditions

The following is a list of the RESPONSE values that can be returned by the SPECIFY VIEW command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

DUPE A duplicate condition occurred for the following reason:

VIEW The specified view already exists and cannot be built.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected in either the command string or the FIELDS buffer. The parameter that is invalid is returned as the reason value:

- ATTRIBUTE
- FIELDS
- LENGTH
- OBJECT
- THREAD
- VIEW.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

NOTFOUND

A not found condition occurred for the following reason:

ATTRIBUTE

An attribute specified in the FIELDS buffer was not found for the specified resource table.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if the resource table is missing required attributes, contains one or more conflicting attributes, or does not exist. Use the FEEDBACK command to retrieve additional data about this error.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

TERMINATE

Terminate all API processing on all active threads.

►—TERMINATE—RESPONSE—(*data-ref*)—REASON—(*data-ref*)—►

Description

This command terminates all API processing on all active threads created by the CICS or MVS task that issues the command.

- Issuing TERMINATE is equivalent to issuing the DISCONNECT command for each active thread individually.
- Any resources that are associated with the thread are released, including result sets, filters, views, diagnostic data, and outstanding asynchronous requests.

Related commands

CONNECT, DISCONNECT

Options

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

Conditions

The following is a list of the RESPONSE values that can be returned by the TERMINATE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

TRANSLATE

Translate resource table attribute values.

```
▶—TRANSLATE—OBJECT—(—data-value—)—ATTRIBUTE—(—data-value—)—▶
▶—FROMCV—(—data-value—)—TOCHAR—(—data-ref—)—▶
  |—FROMCHAR—(—data-value—)—TOCV—(—data-ref—)—▶
▶—THREAD—(—cpasm-token—)—RESPONSE—(—data-ref—)—REASON—(—data-ref—)—▶▶
```

Description

This command translates resource table attribute values that are maintained in an encoded form (such as EYUDA and CVDA values) between their internal coded format and an external display format.

- If your program is written in REXX, you can use the TPARSE command to access a resource table record and translate its attribute values. However, if you use the ASIS option with TPARSE, attribute values are not translated into their external format; in that case, you would need to use TRANSLATE after using TPARSE to receive the formatted display values. For a description of the TPARSE command, see Chapter 3, “REXX functions and commands,” on page 129.
- In some CICS environments, the DFHVALUE function returns incompatible CVDA values for the following resource table attribute:

Resource table	Attribute value	CICS Environment
LOCTRAN	RESSEC(RESSECEXT)	CICS/MVS

Because these CVDA values conflict with values used in other CICS environments, CICSplex SM must modify them to retain their uniqueness. CICSplex SM adds 9000 to the value returned by DFHVALUE for each of these CICS CVDA attributes.

If you want to translate any of these attributes in a CICS environment, you must add 9000 to the value you received from DFHVALUE before presenting the attribute to CICSplex SM.

Options

ATTRIBUTE(*data-value*)

Identifies the resource table attribute that is to be translated. This value must be the 1- to 12-character name of a valid attribute for the resource table.

FROMCHAR(*data-value*)

Specifies the 1- to 12-character value for the specified attribute.

FROMCV(*data-value*)

Specifies the 4-byte internal coded value for the specified attribute.

OBJECT(*data-value*)

Identifies the resource table to which the attribute being translated belongs. This value must be the 8-character name of a valid resource table.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

TOCHAR(*data-ref*)

Names a variable to receive the result of translating an internal coded value to the 1- to 12-character value for the specified attribute.

TOCV(*data-ref*)

Names a variable to receive the result of translating a character value to the 4-byte internal coded value for the specified attribute.

Conditions

The following is a list of the RESPONSE values that can be returned by the TRANSLATE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- ATTRIBUTE
- FROMCHAR
- FROMCV
- OBJECT
- THREAD
- TOCHAR
- TOCV.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for the following reason:

INVALIDVER

The specified version of the resource table is not supported by CICSPlex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

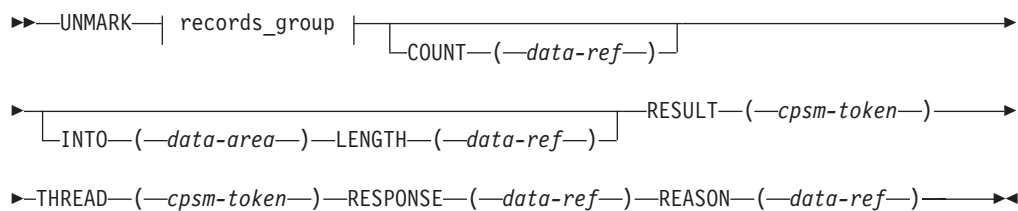
The version of the application stub program used for this command is not supported.

NOTVSNCONN

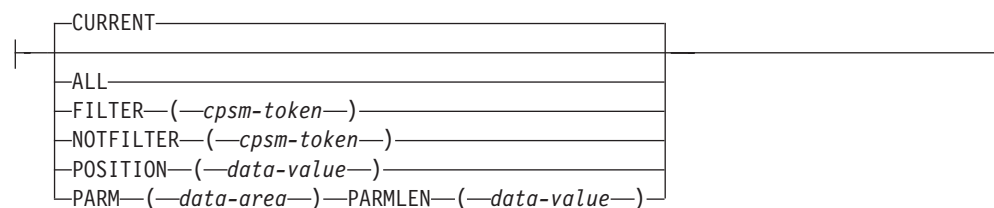
The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

UNMARK

Remove the marks placed on resource table records.



records_group



Description

This command removes the marks placed on resource table records by a previous MARK command. The UNMARK command always begins processing with the last

record that was fetched, rather than the next one in the result set.

Related commands

EXPAND, LOCATE, MARK

Options

ALL

Removes the marks from all resource table records in the result set.

COUNT(*data-ref*)

Names a variable to receive the number of resource table records that could not be unmarked.

CURRENT

Removes the mark from only the current resource table record.

FILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The FILTER option removes the marks from only those resource table records that meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

INTO(*data-area*)

Identifies a buffer to receive a list of resource table records that could not be unmarked.

This buffer must be long enough to hold the maximum number of record numbers that could result from your UNMARK request (in the event that none of them can be unmarked). Record numbers are listed individually (not by range) in the INTO buffer and are separated by commas.

Note: If you receive a RESPONSE value of WARNING AREATOOSMALL (because the buffer was not long enough), the data returned in this buffer represents a partial list of the records that could not be unmarked.

LENGTH(*data-ref*)

A fullword value that specifies the length of the INTO buffer.

The value that CICSPlex SM returns in this field depends on the RESPONSE value for the UNMARK command:

OK The actual length of the data returned in the INTO buffer.

WARNING AREATOOSMALL

The buffer length that would be required to hold a complete list of records that could not be unmarked.

NOTFILTER(*cpsm-token*)

Identifies a filter to be used for this operation. The NOTFILTER option removes the marks from only those resource table records that do not meet the specified filter criteria.

The *cpsm-token* value that identifies a filter is returned by the SPECIFY FILTER command.

PARM(*data-area*)

Identifies a buffer containing the parameter expression that lists the resource table records to be unmarked.

The parameter expression for the UNMARK command is a character string of record numbers. For example:

```
PARM('1,3,6:9,24.')
```

To specify individual records, separate the record numbers with a comma. To specify a range of records, separate the low and high record numbers with a colon. The whole parameter expression must end with a period.

For details on how to use a parameter expression with the UNMARK command, see *CICSplex System Manager Application Programming Guide*.

PARMLEN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

POSITION(*data-value*)

Removes the mark from the *n*th resource table record in the result set.

This value must be a number that identifies the record's relative position in the result set. The first record in a result set is identified by the number 1.

For example, to unmark the fifth resource table record in a result set, you would specify POSITION(5).

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set can be one produced by any of these commands:

- COPY
- GET
- GETDEF
- GROUP
- PERFORM OBJECT.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the UNMARK command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

NODATA

No records were found that matched the specified search criteria.

WARNING

The command completed processing with a warning, for one of the following reasons:

AREATOOSMALL

You specified the INTO and LENGTH options, but the buffer was not long enough to hold the string of records that could not be unmarked.

DATAERROR

One or more of the records specified in the PARM buffer could not be found to be unmarked. If you specified the COUNT option, the number of records that could not be unmarked is returned. If you specified the INTO and LENGTH options, a list of the records is returned in the buffer.

BUSY A busy condition occurred for the following reason:

RESULT

The result set specified on the RESULT option is being processed by another command.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

SOLRESOURCE

A required resource that is locally owned (that is, owned by the address space where the processing thread is running) is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- COUNT
- FILTER
- INTO
- LENGTH
- NOTFILTER

- PARM
- PARMLEN
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

UPDATE

Update an existing CICSplex SM or CICS definition.

```

▶—UPDATE—OBJECT—(—data-value—)—————▶
▶—FROM—(—data-area—)——┐
└—RESULT—(—cpm-token—)—MODIFY—(—data-area—)——┘
└—PARM—(—data-area—)—PARMLEN—(—data-value—)——┘
▶—LENGTH—(—data-value—)——┐
└—CONTEXT—(—data-value—)——┘ └—SCOPE—(—data-value—)——┘
▶—THREAD—(—cpm-token—)—RESPONSE—(—data-ref—)—REASON—(—data-ref—)————▶

```

Description

This command updates an existing CICSplex SM or CICS definition according to the attribute values you specify.

- The updated definition replaces the existing definition in the CICSplex SM data repository.
- For definitions that have a CICSplex as their context (such as workload management or real-time analysis definitions), the definition is also updated in the data repositories of all CMASs involved in managing the CICSplex.

Related commands

CREATE, REMOVE

Options

CONTEXT(*data-value*)

Identifies the context for this command. The context must be the 1- to 8-character name of a CMAS or CICSplex.

If you do not specify the CONTEXT option, the default context for the thread is assumed.

FROM(*data-area*)

Identifies a buffer containing a resource table record that represents the definition to be updated.

The record must include all of the attributes for the resource table specified on the OBJECT option. For optional attributes that you do not want to specify, set the field to null (that is, zero) values .

LENGTH(*data-value*)

A fullword value that specifies the length of the FROM or MODIFY buffer.

Note: The buffer length you specify should not include any data other than a resource table record or modification expression.

MODIFY(*data-area*)

Identifies a buffer containing the modification expression to be used in modifying CICS Definition resource table records.

For details on how to form a modification expression, see *CICSplex System Manager Application Programming Guide*.

OBJECT(*data-value*)

Identifies the resource table that represents the definition being updated. This value must be the 8-character name of a valid CPSM Definition or CICS Definition resource table. For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*.

PARM(*data-area*)

Identifies a buffer containing a parameter expression to be used in updating the definition.

For details on how to use a parameter expression with the UPDATE command, see *CICSplex System Manager Application Programming Guide*. For a description of the parameters that are valid for a given resource table, see the *CICSplex System Manager Resource Tables Reference*.

PARMLN(*data-value*)

A fullword value that specifies the length of the PARM buffer.

REASON(*data-ref*)

Names a variable to receive the fullword reason value returned by this command.

RESPONSE(*data-ref*)

Names a variable to receive the fullword response value returned by this command.

RESULT(*cpsm-token*)

Identifies the API result set to be processed by this operation. The result set

must contain CICS Definition resource table records. The records are updated according to the modification expression you supply in the MODIFY buffer.

The result set can be one produced by any of these commands:

- COPY
- GET
- GROUP
- PERFORM OBJECT.

| **SCOPE**(*data-value*)

| Identifies the scope for this command.

| If the current context (as set by this command or a previous CONNECT or
| QUALIFY command) is a CICSplex and the OBJECT option identifies a CICS
| definitional resource and the PARM option includes the CSD parameter, a valid
| scope can be specified.

| The scope can be a CICS system within the CICSplex. If the current context is a
| CMAS or the OBJECT option identifies any other type of resource table, or the
| CSD parameter is not specified on a CICS definitional resource, this option has
| no meaning and is ignored.

| If SCOPE applies to the command and you do not specify the SCOPE option,
| the default scope for the thread is assumed. If the current context is a CICSplex
| and no default scope has been set on a CONNECT or QUALIFY command,
| you receive an INVALIDPARM response for the SCOPE option.

| **THREAD**(*cpsm-token*)

| Identifies the API thread to be used for this operation. The *cpsm-token* value
| that identifies a thread is returned by the CONNECT command.

Conditions

The following is a list of the RESPONSE values that can be returned by the UPDATE command. The description of each RESPONSE includes a list of associated REASON values, if appropriate.

OK The command completed processing successfully.

ENVIRONERROR

An environment error occurred for one of the following reasons:

NOSERVICE

The application stub program could not load the API service module.

NOSTORAGE

The application stub program could not obtain the necessary storage in the address space where the processing thread is running.

REQTIMEOUT

One of the CMASs or MASs to which the request was directed did not respond.

SOCRESOURCE

A required resource that is owned by the CMAS is not available.

FAILED

The command failed for one of the following reasons:

ABENDED

Command processing abended.

EXCEPTION

Command processing encountered an exceptional condition.

INVALIDDATA

An invalid data error occurred for one of the following reasons:

MODIFY

An attribute value listed in the MODIFY buffer is not valid for the specified attribute.

NOTSUPPORTED

An attribute listed in the MODIFY buffer is not modifiable.

INVALIDCMD

The command is invalid for the following reason:

LENGTH

The total length of all the options on the command exceeds the maximum limit.

INVALIDPARM

An invalid parameter was detected. The parameter that is invalid is returned as the reason value:

- CONTEXT
- FROM
- LENGTH
- MODIFY
- OBJECT
- PARM
- PARMLEN
- RESULT
- THREAD.

Check the command description for valid parameter syntax.

NOTAVAILABLE

A not available condition occurred for one of the following reasons:

APITASK

The API control subtask is not active.

CMAS

A CMAS to which the request was directed is not available.

CPSMAPI

The CMAS to which the processing thread is connected is not available for API processing.

CSDAPI

Support for the CICSplex SM API to access the CICS CSD is not available.

MAINTPOINT

The maintenance point for the current context is not available.

NOTPERMIT

A not permitted condition occurred for the following reason:

USRID

The user ID associated with the processing thread does not have the required security authorization.

SERVERGONE

The CMAS to which the processing thread was connected is no longer active.

TABLEERROR

A resource table record is invalid for one of the following reasons:

DATAERROR

The value associated with one or more resource table attributes is invalid. This error can occur if:

- The resource table is missing required attributes, contains one or more conflicting attributes, or does not exist.
- A CICS resource definition contains attributes that would cause the EXEC CICS CREATE command to issue warnings.

Use the FEEDBACK command to retrieve additional data about this error.

INVALIDATTR

One of the resource table attributes is invalid.

INVALIDVER

The specified version of the resource table is not supported by CICSplex SM.

VERSIONINVL

A version conflict occurred for one of the following reasons:

NOTSUPPORTED

The version of the application stub program used for this command is not supported.

NOTVSNCONN

The version of the application stub program used for this command is not the same as the version used with the CONNECT command.

Chapter 3. REXX functions and commands

This section contains detailed descriptions of the REXX functions and commands supplied with CICSplex SM. These functions and commands can be used only with the REXX run-time interface.

Each description includes the following

- A description of the command
- Purpose
- Syntax of command (*var* represents a variable)
- Available options for the command
- REXX response codes returned by the command

The functions are presented in alphabetical order:

- “EYUAPI()”
- “EYUINIT()” on page 130
- “EYUREAS()” on page 130
- “EYURESP()” on page 131
- “EYUTERM()” on page 131

Functions

The REXX functions supplied with CICSplex SM make use of standard REXX variable substitution rules.

In addition to REXX return codes, these functions can produce EYUARnnnn messages. For descriptions of those messages, see *CICSplex System Manager Messages and Codes*.

EYUAPI()

Pass an API command to CICSplex SM.

```
var = EYUAPI(command string)
```

OR

```
var = EYUAPI('command string')
```

Description

This function passes an API command to CICSplex SM. You must issue an EYUAPI or EYUINIT function before you can use the ADDRESS CPSM command to pass API commands to REXX.

Options

command string

Identifies the API command and options to be passed.

Return codes

The following is a list of the REXX return codes that can be returned by the EYUAPI function in its assigned variable (*var*).

These return codes indicate what REXX did with the EYUAPI function; they do not indicate whether the API command that was passed was successfully processed by CICSplex SM. For that information, you must refer to the RESPONSE and REASON values returned by the command.

- 0 The EYUAPI function was successful.
- 1 The EYUAPI function failed.

EYUINIT()

Initialize the CICSplex SM API environment and allocate the necessary resources.

```
var = EYUINIT()
```

Description

This command initializes the CICSplex SM API environment and allocates the necessary resources. EYUINIT should be the first function issued in a REXX program.

Note: You must issue an EYUINIT or EYUAPI function before you can use the ADDRESS CPSM command to pass API commands to REXX.

Return codes

The following is a list of the REXX return codes that can be returned by the EYUINIT function in its assigned variable (*var*).

- 0 The EYUINIT function was successful.
- 1 The EYUINIT function failed.

EYUREAS()

Translate the numeric value returned by the REASON option of an API command.

```
var = EYUREAS(reason)
```

Description

This command translates the numeric value returned by the REASON option of an API command into its character equivalent and vice versa.

Options

reason

Is the REASON value to be translated.

Return codes

The following is a list of the REXX return codes that can be returned by the EYUREAS function in its assigned variable (*var*).

- nnnn** The numeric or character equivalent of the specified REASON value.
- 1** The specified REASON value is invalid and could not be translated.

EYURESP()

Translate the numeric value returned by the RESPONSE option of an API command.

```
var = EYURESP(response)
```

Description

This command translates the numeric value returned by the RESPONSE option of an API command into its character equivalent and vice versa.

Options

response

Is the RESPONSE value to be translated.

Return codes

The following is a list of the REXX return codes that can be returned by the EYURESP function in its assigned variable (*var*).

- nnnn** The numeric or character equivalent of the specified RESPONSE value.
- 1** The specified RESPONSE value is invalid and could not be translated.

EYUTERM()

Terminate the CICSplex SM API environment and release any allocated resources.

```
var = EYUTERM()
```

Description

This command terminates the CICSplex SM API environment and releases any allocated resources. EYUTERM should be the last function issued in a REXX program.

Note: If the CICSplex SM host subcommand environment is installed at your enterprise (as opposed to being called from the function package), you may not need to use EYUTERM at the end of every program. The resources that remain allocated can be reused by the next program that accesses the host subcommand environment.

Return codes

The following is a list of the REXX return codes that can be returned by the EYUTERM function in its assigned variable (*var*).

- 0 The EYUTERM function was successful.
- 1 The EYUTERM function failed.

Commands

The REXX-specific commands supplied with CICSplex SM perform a series of API commands internally and return the results to REXX.

The commands are presented here in alphabetical order. Each description includes the purpose, syntax, and available options for the command.

Note:

1. You cannot use these commands to process user-defined views of a resource table that were created by the SPECIFY VIEW command. If you create a view with the same name as a supplied resource table and then specify that name on one of these commands, the command fails.
2. These commands do not use the RESPONSE and REASON options. The result of these REXX-specific processes is returned by the STATUS option.
3. These commands do not provide any useful FEEDBACK information. The API commands that are issued internally reuse the same feedback area. So, when one of these commands finishes processing, the feedback area does not represent the entire sequence of events.

The commands are:

- "TBUILD"
- "TPARSE" on page 134

TBUILD

Build a resource table record from a set of variables.

```
►►—TBUILD—OBJECT—(—data-value—)—PREFIX—(—data-value—)——————►
►—STATUS—(—data-ref—)—VAR—(—data-area—)—[ASIS]—————►
►—THREAD—(—cpm-token—)——————►◄
```

Description

This command builds a resource table record from a set of variables that represent the individual attributes of a CICSplex SM or CICS definition. A definition is represented by a resource table with a type of CPM Definition or CICS Definition.

You form the attribute variables by adding a prefix to the attribute name, like this:

```
prefix_attribute
```

where *prefix* is a text string that you supply and *attribute* is the name of an attribute in the resource table. You must insert an underscore character (`_`) between the prefix and the attribute name.

The resource table record can be placed in any valid REXX variable, including a stem variable.

TBUILD only uses the attributes that you specify; it does not assume any default values for optional attributes. If you do not supply a variable for an attribute that is optional, the corresponding field in the resource table record is initialized according to its data type (that is, character fields are set to blanks, binary data and EYUDA values are set to zeroes).

Note: For a list of the CICSplex SM resource tables by type, see *CICSplex System Manager Application Programming Guide*. For a complete description of a particular resource table and its attributes, see the *CICSplex System Manager Resource Tables Reference*.

Options

ASIS

Indicates that the resource table attribute values are already in their internal format; they are to be processed as is, rather than translated.

You must use the ASIS option to rebuild a CICSplex SM or CICS definition that you previously parsed (with the TPARSE ASIS command).

OBJECT(*data-value*)

Identifies the resource table for which a record is to be built. This value must be the 1- to 8-character name of a valid CPSM Definition or CICS Definition resource table.

Note: You cannot use the TBUILD command to process a resource table view that was created by the SPECIFY VIEW command. If you create a view with the same name as a supplied resource table and then specify that name on a TBUILD command, the command fails.

PREFIX(*data-value*)

Specifies the prefix you used to name the variables that contain the resource table attributes.

Note: The maximum allowable length for a prefix is determined by REXX and the environment in which the program runs.

STATUS(*data-ref*)

Names a variable to receive the REXX status value returned for this command. The status is returned in character form as one of the following:

OK The TBUILD command completed processing successfully.

SYNTAX ERROR

The TBUILD command could not be processed because of a syntax error. EYUARnnnn messages that describe the error are written to the destination defined on your system for IRXSAY WRITEERR output.

FAILURE

The TBUILD command failed because some of the data it was attempting to process is invalid. Trace data is written to a REXX stem variable called EYUTRACE. EYUARnnnn messages that describe the failure may also be written to the destination defined on your system for IRXSAY WRITEERR output.

Note: For more information about the EYUTRACE stem variable, see *CICSplex System Manager Application Programming Guide*.

THREAD(*cpsm-token*)

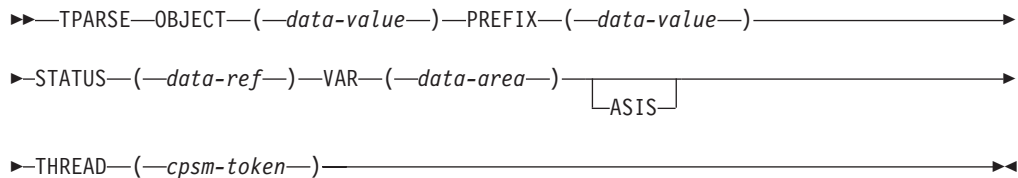
Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

VAR(*data-area*)

Names a variable to receive the resource table record that is built by TBUILD.

TPARSE

Parse a resource table record from a variable into a set of variables.



Description

This command parses a resource table record from a variable into a set of variables that represent the individual attributes of the table. You can use TPARSE with any type of CICSplex SM resource table.

The resource table variable can be any valid REXX variable, including a stem variable. The output variables are formed by adding a prefix to the attribute name, like this:

```
prefix_attribute
```

where *prefix* is a text string that you supply and *attribute* is the name of an attribute in the resource table. An underscore (`_`) is inserted between the prefix and the attribute name.

Note: For complete descriptions of the resource tables and their attributes, see the *CICSplex System Manager Resource Tables Reference*.

Options

ASIS

Specifies that the resource table attribute values are not to be translated into their external format; they are to be returned as is. Attribute values are presented as follows:

- Character values have trailing blanks.
- Binary values have leading zeroes and are not converted to display format.
- EYUDA and CVDA values are not converted to character format.

You must use the ASIS option to parse a CPSM Definition or CICS Definition resource table that you want to rebuild (with the TBUILD ASIS command).

Note: If you use the ASIS option with EYUDA or CVDA values, you can use the TRANSLATE command to convert the coded numeric value into a character value.

OBJECT(*data-value*)

Identifies the resource table that is to be parsed. This value must be the 1- to 8-character name of a valid resource table.

Note: You cannot use the TPARSE command to process a resource table view that was created by the SPECIFY VIEW command. If you create a view with the same name as a supplied resource table and then specify that name on a PARSE command, the command fails.

PREFIX(*data-value*)

Specifies the prefix you want to use to name the attribute variables returned by TPARSE.

Note: The maximum allowable length for a prefix is determined by REXX and the environment in which the program runs.

STATUS(*data-ref*)

Names a variable to receive the REXX status value returned for this command. The status is returned in character form as one of the following:

OK The TPARSE command completed processing successfully.

SYNTAX ERROR

The TPARSE command could not be processed because of a syntax error. EYUARnnnn messages that describe the error are written to the destination defined on your system for IRXSAY WRITEERR output.

FAILURE

The TPARSE command failed because some of the data it was attempting to process is invalid. Trace data is written to a REXX stem variable called EYU_TRACE. EYUARnnnn messages that describe the failure may also be written to the destination defined on your system for IRXSAY WRITEERR output.

Note: For more information about the EYUTRACE stem variable, see *CICSplex System Manager Application Programming Guide*.

THREAD(*cpsm-token*)

Identifies the API thread to be used for this operation. The *cpsm-token* value that identifies a thread is returned by the CONNECT command.

VAR(*data-area*)

Names a variable that contains the resource table record to be parsed.

Chapter 4. RESPONSE and REASON values

This section provides a summary of the RESPONSE and REASON values returned by each API command.

For descriptions of these values, refer to the description of the command that returns them. For a list of RESPONSE and REASON character values and their numeric equivalents, see Chapter 5, “EYUDA values,” on page 145. For a discussion of the RESPONSE and REASON options, see *CICSplex System Manager Application Programming Guide*.

COMMAND ADDRESS	RESPONSE	REASONS
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	ECB, SENTINEL, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
CANCEL		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	NOTIFICATION, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
CONNECT		
	OK	
	ENVIRONERROR	APITASKERR, NOSERVICE, NOSTORAGE, SOCRESOURCE, SOERESOURCE, SOLRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	CONTEXT, SCOPE, SIGNONPARM, USRID, VERSION
	NOTAVAILABLE	APITASK, CPSMAPI, CPSMSERVER, CPSMSYSTEM, CPSMVERSION
	NOTPERMIT	USRID
	VERSIONINVL	NOTSUPPORTED
COPY		
	OK	
	NODATA	
	BUSY	FROM, TO
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INCOMPATIBLE	INVALIDOBJ
	INVALIDPARM	FILTER, FROM, NOTFILTER, THREAD, TO
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	TABLEERROR	INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
CREATE		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION

COMMAND	RESPONSE	REASONS
	INVALIDCMD	LENGTH
	INVALIDPARM	CONTEXT, FROM, LENGTH, OBJECT, PARM, PARMLN, THREAD
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, CSDAPI, MAINTPOINT
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDATTR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
DELETE		
	OK	
	NODATA	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE, SOLRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	FILTER, NOTFILTER, RESULT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
DISCARD		
	OK	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INUSE	FILTER, VIEW
	INVALIDPARM	FILTER, RESULT, THREAD, VIEW
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
DISCONNECT		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
FEEDBACK		
	OK	
	NODATA	
	WARNING	AREATOOSMALL
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	COUNT, INTO, LENGTH, RESULT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
FETCH		
	OK	
	NODATA	BACKWARD, FORWARD
	WARNING	AREATOOSMALL
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE, SOLRESOURCE
	FAILED	ABENDED, EXCEPTION

COMMAND	RESPONSE	REASONS
	INVALIDPARM	COUNT, FILTER, INTO, LENGTH, NOTFILTER, POSITION, RESULT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
GET	OK	
	SCHEDULED	
	NODATA	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDDATA	CRITERIA
	INVALIDCMD	FILTER,LENGTH
	INVALIDPARM	CONTEXT, CRITERIA, FILTER, LENGTH, OBJECT, PARM, PARMLEN, RESULT, SCOPE, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, CSDAPI, MAINTPOINT, SCOPE, WORKLOAD
	NOTFOUND	ATTRIBUTE
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
GETDEF	OK	
	NODATA	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INCOMPATIBLE	INVALIDOBJ
	INVALIDPARM	ATTRIBUTE, OBJECT, RESOURCE, RESULT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
GROUP	OK	
	NODATA	
	BUSY	FROM, TO
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDCMD	LENGTH
	INVALIDPARM	BY, FILTER, FROM, LENGTH, NOTFILTER, SUMOPT, THREAD, TO
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	TABLEERROR	INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
LISTEN	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INCOMPATIBLE	INVALIDEVT
	INVALIDPARM	CONTEXT, EVENT, FILTER, NOTFILTER, NOTIFICATION, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CPSMAPI, PLEXMGR

COMMAND	RESPONSE	REASONS
	SERVERGONE VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
LOCATE	OK NODATA BUSY ENVIRONERROR FAILED INVALIDPARM NOTAVAILABLE SERVERGONE VERSIONINVL	BACKWARD, FORWARD RESULT NOSERVICE, NOSTORAGE, SOCRESOURCE, SOLRESOURCE ABENDED, EXCEPTION BACKWARD, FILTER, FORWARD, NOTFILTER, POSITION, RESULT, THREAD APITASK, CPSMAPI NOTSUPPORTED, NOTVSNCONN
MARK	OK NODATA WARNING BUSY ENVIRONERROR FAILED INVALIDPARM NOTAVAILABLE SERVERGONE VERSIONINVL	AREATOOSMALL, DATAERROR RESULT NOSERVICE, NOSTORAGE, SOCRESOURCE, SOLRESOURCE ABENDED, EXCEPTION COUNT, FILTER, INTO, LENGTH, NOTFILTER, PARM, PARMLEN, RESULT, THREAD APITASK, CPSMAPI NOTSUPPORTED, NOTVSNCONN
ORDER	OK BUSY ENVIRONERROR FAILED INVALIDCMD INVALIDPARM NOTAVAILABLE SERVERGONE VERSIONINVL	RESULT NOSERVICE, NOSTORAGE SOCRESOURCE ABENDED, EXCEPTION LENGTH BY, LENGTH, RESULT, THREAD APITASK, CPSMAPI NOTSUPPORTED, NOTVSNCONN
PERFORM OBJECT	OK SCHEDULED NODATA BUSY ENVIRONERROR FAILED INVALIDDATA INVALIDCMD INVALIDPARM NOTAVAILABLE NOTFOUND NOTPERMIT SERVERGONE TABLEERROR VERSIONINVL WARNING	BACKWARD, FORWARD RESULT NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE ABENDED, EXCEPTION PARM, CRITERIA FILTER,LENGTH ACTION, CONTEXT, CRITERIA, FILTER, LENGTH, OBJECT, PARM, PARMLEN, RESULT, SCOPE, THREAD, TOKEN APITASK, CMAS, CPSMAPI, CSDAPI, MAINTPOINT, PLEXMGR, SCOPE, WORKLOAD ACTION, ATTRIBUTE USRID DATAERROR NOTSUPPORTED, NOTVSNCONN RESULT, ACTION
PERFORM SET		

COMMAND	RESPONSE	REASONS
	OK	
	SCHEDULED	
	NODATA	BACKWARD, FORWARD
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDDATA	PARM, CRITERIA
	INVALIDCMD	LENGTH
	INVALIDPARM	ACTION, FILTER, NOTFILTER, PARM, PARMLEN, POSITION, RESULT, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, MAINTPOINT, PLEXMGR, SCOPE, WORKLOAD
	NOTFOUND	ACTION, ATTRIBUTE
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
QUALIFY		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	CONTEXT, SCOPE, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI, PLEXMGR
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
QUERY		
	OK	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	CONTEXT, DATALENGTH, OBJECT, RESULT, THREAD, TYPE
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
RECEIVE		
	OK	
	NODATA	
	WARNING	AREATOOSMALL
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	DELAY, INTO, LENGTH, OBJECT, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
REFRESH		
	OK	
	SCHEDULED	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	COUNT, FILTER, NOTFILTER, RESULT, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, MAINTPOINT, SCOPE
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR

COMMAND	RESPONSE	REASONS
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
REMOVE		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDCMD	LENGTH
	INVALIDPARM	CONTEXT, FROM, LENGTH, OBJECT, PARM, PARMLEN, THREAD
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, CSDAPI, MAINTPOINT
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDATTR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
SET		
	OK	
	SCHEDULED	
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDDATA	MODIFY, NOTSUPPORTED
	INVALIDCMD	LENGTH
	INVALIDPARM	ATTRIBUTE, COUNT, FILTER, LENGTH, MODIFY, NOTFILTER, POSITION, RESULT, THREAD, TOKEN
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, MAINTPOINT, SCOPE
	NOTFOUND	ACTION, ATTRIBUTE
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
SPECIFY FILTER		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDCMD	FILTER,LENGTH
	INVALIDPARM	CRITERIA, FILTER, LENGTH, OBJECT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	NOTFOUND	ATTRIBUTE
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
SPECIFY VIEW		
	OK	
	DUPE	VIEW
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDDATA	CRITERIA
	INVALIDCMD	LENGTH
	INVALIDPARM	ATTRIBUTE, FIELDS, LENGTH, OBJECT, THREAD, VIEW
	NOTAVAILABLE	APITASK, CPSMAPI
	NOTFOUND	ATTRIBUTE
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
TERMINATE		
	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE

COMMAND	RESPONSE	REASONS
	FAILED	ABENDED, EXCEPTION
TRANSLATE	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDPARM	ATTRIBUTE, FROMCHAR, FROMCV, OBJECT, THREAD, TOCHAR, TOCV
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	TABLEERROR	INVALIDVER, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
UNMARK	OK	
	NODATA	
	WARNING	AREATOOSMALL, DATAERROR
	BUSY	RESULT
	ENVIRONERROR	NOSERVICE, NOSTORAGE, SOCRESOURCE, SOLRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDCMD	LENGTH
	INVALIDPARM	COUNT, FILTER, INTO, LENGTH, NOTFILTER, PARM, PARMLEN, RESULT, THREAD
	NOTAVAILABLE	APITASK, CPSMAPI
	SERVERGONE	
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN
UPDATE	OK	
	ENVIRONERROR	NOSERVICE, NOSTORAGE, REQTIMEOUT, SOCRESOURCE
	FAILED	ABENDED, EXCEPTION
	INVALIDCMD	LENGTH
	INVALIDPARM	CONTEXT, FROM, LENGTH, MODIFY, OBJECT, PARM, PARMLEN, RESULT, THREAD
	NOTAVAILABLE	APITASK, CMAS, CPSMAPI, CSDAPI, MAINTPOINT
	NOTPERMIT	USRID
	SERVERGONE	
	TABLEERROR	DATAERROR, INVALIDATTR, INVALIDVER
	VERSIONINVL	NOTSUPPORTED, NOTVSNCONN

Chapter 5. EYUDA values

This section lists the CICSplex SM API EYUDA values and their numeric equivalents.

There are three types of EYUDAs:

General

Values that CICSplex SM uses to describe or define a resource. These EYUDAs have numeric values in the range of 1– 474. See “EYUDA general values in numerical order.”

RESPONSE

Values returned by the RESPONSE option of an API command. These EYUDAs have numeric values in the range of 1024 – 1042. See “EYUDA RESPONSE values in numerical order” on page 177.

REASON

Values returned by the REASON option of an API command. These EYUDAs have numeric values in the range of 1280 – 1370. See “EYUDA REASON values in numerical order” on page 178.

Note: The EYUDA values and their numeric equivalents listed for SUMMUNLIKE are only returned for an EYUDA attribute in an API GROUP command result set, or a WUI summary tabular view. In previous releases this was set to N_a.

Note: The EYUDA values and their numeric equivalents listed for HOTPOOL are valid only in CICS Transaction Server 2.3.

EYUDA general values in numerical order

This section lists the general EYUDAs in numerical order and shows the character value for each.

Value	EYUDA
0	N_A
0	NA
1	YES
2	NO
3	ON
4	OFF
5	VALID
6	INVALID
7	TRUE
8	FALSE
9	VLS
10	LS
11	LW

12	NM
13	HW
14	HS
15	VHS
16	EQ
17	NE
18	GT
19	LT
20	LOW
21	HIGH
22	NORMAL
23	IMMEDIATE
24	TAKEOVER
25	SHUT
26	NOSHUT
27	GLOBAL
28	SYSTEM
30	SUSPEND
33	VALUE
34	THRESHOLD
35	SAM
36	APM
37	MRM
38	TRANID
39	TERMID
40	SIGNID
41	RACFGID
42	USERID
43	NULL
44	CHARSTR
45	ACTIVE
46	INACTIVE
47	WAITING
48	QUIESCING
49	POOL
50	LTRAN
51	RTRAN

53	GOAL
54	QUEUE
55	LUNAME
58	DELIMIT
59	PCONV
60	LOGON
61	SIGNON
63	PERMANENT
64	MCICS
65	MGLBL
66	MDBX
67	MCONN
68	MFILE
69	MJRNL
70	MPROG
71	MTERM
72	MTDQS
73	MTRAN
74	MAPPL
75	ABOVE
76	BELOW
77	NOCOPY
78	DSA
79	CDSA
80	UDSA
81	LPA
82	EDSA
83	ECDSA
84	EUDSA
85	ERDSA
86	ELPA
87	CICS
88	USER
89	READONLY
90	LU61
91	LU62
92	INDIRECT

93	MRO
94	NOTAPPLIC
95	LFILE
96	RFILE
97	CTABL
98	UTABL
99	INSTALLED
100	PENDING
101	INHERIT
102	EXPLICIT
103	CICSSYS
104	SYSGROUP
105	KEEP
106	NAME
107	FORCE
108	NONE
109	UNASSIGNED
110	DROP
111	LOCAL
112	REMOTE
113	DEFAULT
114	REMOVE
115	DORMANT
116	START
117	END
118	ADJACENT
119	LOSTCON
120	CREATING
121	REMOVING
122	QUIESCED
123	LINKACTIVE
124	LINKDOWN
125	ESSS
126	CONACT
127	RESET
128	SYSDUMP
129	TRANDUMP

130	MAXTASK
131	STALLED
132	SOSUDSA
133	SOSCDSA
134	SOSEUDSA
135	SOSECDSA
136	SOSERDSA
137	SOSSDSA
138	SOSESDSA
139	SOSRDSA
140	QUIESCE
141	PRIMARY
142	SECONDARY
143	DUPLICATE
144	FROZEN
145	ALL
146	ANY
147	SUM
148	MIN
149	MAX
150	AVG
151	CNT
152	LE
153	GE
154	SDSA
155	ESDSA
156	RDSA
157	SOSMVS
158	SOSBELOW
159	SOSABOVE
161	EXECUTE
162	CHECK
163	LOSTCMAS
164	LOSTMAS
165	AASTERISK
166	BLANK
167	INDEX

168	DATA
169	BOTH
170	NETBIOS
171	TCPIP
172	AFTER
173	ALLREQS
174	ASA
177	ASIS
178	ASSEMBLER
179	BACKOUTONLY
180	BEFORE
181	BLUE
182	C
183	CLEARCONV
184	CLOSE
185	COBOL
186	COLD
187	CYCLIC
188	DEFERRED
189	DIP
190	DISK
191	EODS
192	EXTA
193	FILE
194	FIRSTREF
195	GREEN
196	IDENTIFY
197	IGNORE
198	INITIAL
199	INOUT
200	INPUT
201	LEAVE
202	LE370
203	LINEAR
204	LINK
205	LMS
206	LOGICAL

207	LOGOFF
208	LRU
209	MACHINE
210	MESSAGE
211	MIXIDPE
212	MOD
213	MODIFYREQS
214	MSRE
215	NEUTRAL
216	NEW
217	NOFORCE
218	NONVTAM
219	OLD
220	ONLY
221	OPEN
222	OPID
223	OUTPUT
224	PERSISTENT
225	PHYSICAL
226	PINK
227	PLI
228	PRINTER
229	RED
230	RECOVERY
231	REJECT
232	RELEASESESS
233	REREAD
234	RPG
235	SCS
236	SECURITY
237	SHR
238	SKIP
239	SPECIFIC
240	STARTIO
241	STARTUP
242	STRFIELD
243	SYSDEFAULT

244 TAPE
245 TERMINAL
246 TRANSACTION
247 TRANSIENT
248 TURQUOISE
249 U
250 UNCONDREL
251 UPDATEONLY
252 VB
253 VERIFY
254 VTAM
255 YELLOW
256 3270
257 AUTO
258 DYNAM
259 EXTRA
260 INTRA
261 IND
262 STAT
263 RELATED
264 TARGET
265 NEVER
266 ALWAYS
267 COLDONLY
268 WARMONLY
269 PROMPT
270 CONTINUE
271 TERMINATE
272 SHUTDOWN
273 RTADEF
274 STATDEF
275 CONNDEF
276 FILEDEF
277 JRNLDEF
278 JRNMDEF
279 LSRDEF
280 MAPDEF

281	PARTDEF
282	PRTNDEF
283	PROFDEF
284	PROGDEF
285	SESSDEF
286	TDQDEF
287	TERMDEF
288	TRANDEF
289	TRNCLDEF
290	TSQDEF
291	TYPTMDEF
292	MPSYNCCR
293	ASSOCIATIONS
294	MEMBERS
295	DB2CDEF
296	DB2EDEF
297	DB2TDEF
298	FSEGDEF
299	TSMDEF
300	ENQMDEF
301	TCPDEF
302	DOCDEF
303	FULL
304	RELEASE
305	PA1
306	PA2
307	PA3
308	PF1
309	PF2
310	PF3
311	PF4
312	PF5
313	PF6
314	PF7
315	PF8
316	PF9
317	PF10

318	PF11
319	PF12
320	PF13
321	PF14
322	PF15
323	PF16
324	PF17
325	PF18
326	PF19
327	PF20
328	PF21
329	PF22
330	PF23
331	PF24
332	STANDARD
333	APPC
334	BATCHDI
335	BCHLU
336	CONSOLE
337	CONTLU
338	INTLU
339	LUTYPE2
340	LUTYPE3
341	LUTYPE4
342	L3277
343	L3284
344	L3286
345	PIPELINE
346	SCSPRINT
347	TLX
348	TWX
349	USERPROG
350	3270P
351	3275
352	3277
353	3277CM
354	3284

355 3284CM
356 3286
357 3286CM
358 3600
359 3614
360 3650
361 3653
362 3767
363 3767C
364 3767I
365 3770
366 3770B
367 3770C
368 3770I
369 3790
370 BLINK
371 REVERSE
372 UNDERLINE
373 INSTALL
374 RESDEF
375 RASINDSC
376 RESTYPE
377 SCOPETYP
378 REBUILD
379 RECONNECT
380 CONNECTING
381 TWAIT
382 NOTWAIT
383 DISCONNING
384 CFTBL
385 CF
386 QUASIRENT
387 THREADSAFE
388 PROCDEF
389 BAPPL
390 ACTIVITY
391 PROCESS

393 PMWINDOW
394 FULLSCREEN
395 COM1
396 COM2
397 COM3
398 COM4
399 COM5
400 COM6
401 COM7
402 COM8
403 CLIENTAUTH
404 RQMDEF
405 3270TERM
406 3270PRNT
407 3270DBTM
408 3270DBPR
409 3151TERM
410 SEQTERM
411 EOF
412 EOT
413 FEPOODEF
414 FETRGDEF
415 FENODDEF
416 FEPRODEF
417 DEBUG
418 LEVSE
419 KEY
420 RBA
423 EJCODEF
424 EJDJDEF
425 BASIC
426 CERTIFICATE
427 AUTOREGISTER
428 AUTOMATIC
429 CLIENTCERT
430 LINK3270
431 FACILITY

432 NOTOPEN
433 UNKNOWN
434 REENTPROT
435 NOREENTPROT
436 ASSERTED
437 MIRROR
438 DPL
439 ONCRPC
440 WEB
441 BRIDGE
442 CICSBTS
443 TDQUEUE
444 TERMSTART
445 XMRUN
446 SOCKET
447 RRS
448 IIRQRECVR
449 RZSTTRPT
450 IIOP
451 ECI
452 HOTPOOL
453 JVM
454 HTASK
455 IOERROR
456 INVALIDFILE
457 SUSPENDED
458 SUSPENDING
459 HISTORY
460 REALTIME
461 VELOCITY
462 DISCRETIONRY
463 CONNECTED
464 NOTCONNECTED
465 RESUMING
466 URIMPDEF
467 PIPEDEF
468 WEBSVDEF

469	STARTED	
470	STOPPED	
471	XPLINK	
472	SSL	
473	CICSAPI	
474	OPENAPI	
475	IPCONDEF	
480	SOSGCDSA	
481	JCL	
482	REGION	
483	IEFUSI	
484	SMF	
485	ABOVEBAR	
486	LIBDEF	
	492	ATOMDEF
	493	BUNDDEF
	494	MQCONDEF
	495	JVMSVDEF
	496	THREADED
	497	CSDLIST
	498	CSDGROUP
	500	CSDINLST
	566	SUMMUNLIKE

EYUDA general values in alphabetic order

This section lists the general EYUDAs in alphabetic order by their character values.

EYUDA	Value
AASTERISK	165
ABOVE	75
ABOVEBAR	485
ACTIVE	45
ACTIVITY	390
ADJACENT	118

AFTER 172
ALL 145
ALLREQS 173
ALWAYS 266
ANY 146
APM 36
APPC 333
ASA 174
ASIS 177
ASSEMBLER 178
ASSERTED 436
ASSOCIATIONS 293
ATOMDEF 492
AUTO 257
AUTOMATIC 428
AUTOREGISTER 427
AVG 150
BACKOUTONLY 179
BAPPL 389
BASIC 425
BATCHDI 334
BCHLU 335
BEFORE 180
BELOW 76
BLANK 166

BLINK 370
BLUE 181
BOTH 169
BRIDGE 441
BUNDEF 493
C 182
CDSA 79
CERTIFICATE 426
CF 385
CFTBL 384
CHARSTR 44
CHECK 162
CICS 87
CICSAPI 473
CICSBTS 442
CICSSYS 103
CLEARCONV 183
CLIENTAUTH 403
CLIENTCERT 429
CLOSE 184
CNT 151
COBOL 185
COLD 186
COLDONLY 267
COM1 395

COM2 396
COM3 397
COM4 398
COM5 399
COM6 400
COM7 401
COM8 402
CONACT 126
CONNDEF 275
CONNECTED 463
CONNECTING 380
CONSOLE 336
CONTINUE 270
CONTLU 337
CREATING 120
CSDLIST 497
CSDGROUP 498
CSDINLST 500
CTABL 97
CYCLIC 187
DATA 168
DB2CDEF 295
DB2EDEF 296

DB2TDEF 297
DEBUG 417
DEFAULT 113
DEFERRED 188
DELIMIT 58
DIP 189
DISCONNING 383
DISCRETIONRY 462
DISK 190
DOCDEF 302
DORMANT 115
DPL 438
DROP 110
DSA 78
DUPLICATE 143
DYNAM 258
ECDSA 83
ECI 451
EDSA 82
EJCODEF 423
EJDJDEF 424
ELPA 86
END 117
ENQMDEF 300
EODS 191
EOF 411
EOT 412

EQ	16
ERDSA	85
ESDSA	155
ESSS	125
EUDSA	84
EXECUTE	161
EXPLICIT	102
EXTA	192
EXTRA	259
FACILITY	431
FALSE	8
FENODDEF	415
FEPODEF	413
FEPRODEF	416
FETRGDEF	414
FILE	193
FILEDEF	276
FIRSTREF	194
FORCE	107
FROZEN	144
FSEGDEF	298
FULL	303
FULLSCREEN	394
GE	153
GLOBAL	27

GOAL 53
GREEN 195
GT 18
HIGH 21
HISTORY 459
HOTPOOL 452
HS 14
HTASK 454
HW 13
IDENTIFY 196
IEFUSI 483
IGNORE 197
IIOP 450
IIRQRECVR 448
IMMEDIATE 23
INACTIVE 46
IND 261
INDEX 167
INDIRECT 92
INHERIT 101
INITIAL 198
INOUT 199
INPUT 200
INSTALL 373
INSTALLED 99

INTLU 338
INTRA 260
INVALID 6
INVALIDFILE 456
IOERROR 455
IPCONDEF 475
JCL 481
JRNLDEF 277
JRNMDEF 278
JVM 453
JVMVDEF 495
KEEP 105
KEY 419
LE 152
LEAVE 201
LEVSE 418
LE370 202
LFILE 95
LIBDEF 486
LINEAR 203
LINK 204
LINKACTIVE 123
LINKDOWN 124
LINK3270 430
LMS 205
LOCAL 111

LOGICAL 206
LOGOFF 207
LOGON 60
LOSTCMAS 163
LOSTCON 119
LOSTMAS 164
LOW 20
LPA 81
LRU 208
LS 10
LSRDEF 279
LT 19
LTRAN 50
LUNAME 55
LUTYPE2 339
LUTYPE3 340
LUTYPE4 341
LU61 90
LU62 91
LW 11
L3277 342
L3284 343
L3286 344
MACHINE 209
MAPDEF 280
MAPPL 74
MAX 149

MAXTASK 130
MCICS 64
MCONN 67
MDBX 66
MEMBERS 294
MESSAGE 210
MFILE 68
MGLBL 65
MIN 148
MIRROR 437
MIXIDPE 211
MJRNL 69
MOD 212
MODIFYREQS 213
MPROG 70
MPSYNCCR 292
MQCONDEF 494
MRM 37
MRO 93
MSRE 214
MTDQS 72
MTERM 71
MTRAN 73
N_A 0
NA 0

|
|

NAME 106
NE 17
NETBIOS 170
NEUTRAL 215
NEVER 265
NEW 216
NM 12
NO 2
NOCOPY 77
NOFORCE 217
NONE 108
NONVTAM 218
NOREENTPROT 435
NORMAL 22
NOSHUT 26
NOTAPPLIC 94
NOTCONNECTED 464
NOTOPEN 432
NOTWAIT 382
NULL 43
OFF 4
OLD 219
ON 3
ONCRPC 439
ONLY 220
OPEN 221

OPENAPI	
	474
OPID	222
OUTPUT	
	223
PARTDEF	
	281
PA1	305
PA2	306
PA3	307
PCONV	
	59
PENDING	
	100
PERMANENT	
	63
PERSISTENT	
	224
PF1	308
PF10	317
PF11	318
PF12	319
PF13	320
PF14	321
PF15	322
PF16	323
PF17	324
PF18	325
PF19	326
PF2	309
PF20	327
PF21	328
PF22	329
PF23	330
PF24	331
PF3	310
PF4	311
PF5	312
PF6	313
PF7	314

PF8 315
PF9 316
PHYSICAL 225
PINK 226
PIPEDEF 467
PIPELINE 345
PLI 227
PMWINDOW 393
POOL 49
PRIMARY 141
PRINTER 228
PROCDEF 388
PROCESS 391
PROFDEF 283
PROGDEF 284
PROMPT 269
PRTNDEF 282
QUASIRENT 386
QUEUE 54
QUIESCE 140
QUIESCED 122
QUIESCING 48
RACFGID 41
RASINDSC 375
RBA 420

RDSA 156
READONLY
89
REALTIME
460
REBUILD
378
RECONNECT
379
RECOVERY
230
RED 229
REENTPROT
434
REGION
482
REJECT
231
RELATED
263
RELEASE
304
RELEASESESS
232
REMOTE
112
REMOVE
114
REMOVING
121
REREAD
233
RESDEF
374
RESET
127
RESTYPE
376
RESUMING
465
REVERSE
371
RFILE 96
RPG 234

RQMDEF
404

RRS 447

RTADEF
273

RTRAN
51

RZSTRPT
449

SAM 35

SCOPETYP
377

SCS 235

SCSPRINT
346

SDSA 154

SECONDARY
142

SECURITY
236

SEQTERM
410

SESSDEF
285

SHR 237

SHUT 25

SHUTDOWN
272

SIGNID
40

SIGNON
61

SKIP 238

SMF 484

SOCKET
446

SOSABOVE
159

SOSBELOW
158

SOSCDSA
133

SOSECDSA
135

SOSERDSA
136

SOSESDSA
138

SOSEUDSA
134

SOSGCDSA
480

SOSMVS
157

SOSRDSA
139

SOSSDSA
137

SOSUDSA
132

SPECIFIC
239

SSL 472

STALLED
131

STANDARD
332

START
116

STARTED
469

STARTIO
240

STARTUP
241

STAT 262

STATDEF
274

STOPPED
470

STRFIELD
242

SUM 147

SUMMUNLIKE
566

SUSPEND
30

SUSPENDED
457

SUSPENDING
458

SYSDEFAULT
243

SYSDUMP
128

SYSGROUP
104

SYSTEM
28

TAKEOVER
24

TAPE 244

TARGET
264

TCPDEF
301

TCPIP 171

TDQDEF
286

TDQUEUE
443

TERMDEF
287

TERMINAL
245

TERMINATE
271

TERMSTART
444

THREADED
496

THREADSAFE
387

THRESHOLD
34

TLX 347

|
|

TRANDEF
288

TRANDUMP
129

TRANID
38

TRANSACTION
246

TRANSIENT
247

TRNCLDEF
289

TRUE 7

TSMDEF
299

TSQDEF
290

TURQUOISE
248

TWAIT
381

TWX 348

TYPTMDEF
291

U 249

UDSA 80

UNASSIGNED
109

UNCONDREL
250

UNDERLINE
372

UNKNOWN
433

UPDATEONLY
251

URIMPDEF
466

USER 88

USERID
42

USERPROG
349

UTABL 98
VALID 5
VALUE 33
VB 252
VELOCITY 461
VERIFY 253
VHS 15
VLS 9
VTAM 254
WAITING 47
WARONLY 268
WEB 440
WEBSVDEF 468
XMRUN 445
XPLINK 471
YELLOW 255
YES 1
3151TERM 409
3270 256
3270DBPR 408
3270DBTM 407
3270P 350
3270PRNT 406
3270TERM 405
3275 351
3277 352

3277CM	353
3284	354
3284CM	355
3286	356
3286CM	357
3600	358
3614	359
3650	360
3653	361
3767	362
3767C	363
3767I	364
3770	365
3770B	366
3770C	367
3770I	368
3790	369

EYUDA RESPONSE values in numerical order

This section lists the RESPONSE EYUDAs in numerical order.

Value	EYUDA
1024	OK
1025	SCHEDULED
1026	NOTFOUND
1027	NODATA
1028	INVALIDPARM
1029	FAILED
1030	ENVIRONERROR
1031	NOTPERMIT
1032	BUSY
1033	SERVERGONE
1034	NOTAVAILABLE
1035	VERSIONINVL
1036	INVALIDCMD
1037	WARNING
1038	TABLEERROR

1039 INCOMPATIBLE
 1040 INUSE
 1041 INVALIDATA
 1042 DUPE

EYUDA RESPONSE values in alphabetic order

This section lists the RESPONSE EYUDAs in alphabetic order.

EYUDA
Value

1032 BUSY
 1042 DUPE
 1030 ENVIRONERROR
 1029 FAILED
 1039 INCOMPATIBLE
 1040 INUSE
 1041 INVALIDATA
 1036 INVALIDCMD
 1028 INVALIDPARM
 1027 NODATA
 1034 NOTAVAILABLE
 1026 NOTFOUND
 1031 NOTPERMIT
 1024 OK
 1025 SCHEDULED
 1033 SERVERGONE
 1038 TABLEERROR
 1035 VERSIONINVL
 1037 WARNING

EYUDA REASON values in numerical order

This section lists the REASON EYUDAs in numerical order.

Value	EYUDA
1280	THREAD
1281	OBJECT
1282	CONTEXT
1283	RESULT
1284	COUNT
1285	LENGTH
1286	FILTER

Value	EYUDA
1287	NOTFILTER
1288	FORWARD
1289	BACKWARD
1290	POSITION
1291	DELAY
1292	NOTIFICATION
1293	SIGNONPARM
1294	SCOPE
1295	RESOURCE
1296	FROM
1297	TO
1298	INTO
1299	CRITERIA
1300	BY
1301	ACTION
1302	ECB
1303	SENTINEL
1304	FEEDBACK
1305	EVENT
1306	TOKEN
1307	MODIFY
1308	VIEW
1309	FIELDS
1310	ATTRIBUTE
1311	FROMCV
1312	TOCHAR
1313	FROMCHAR
1314	TOCV
1315	PARM
1316	PARMLEN
1317	SUMOPT
1318	TYPE
1319	DATALENGTH
1320	SOLRESOURCE
1321	SOCRESOURCE
1322	SOERESOURCE
1323	MAINTPOINT
1324	SYSNOTACT
1325	SYSLVLBAD
1326	SYSNOTLCL
1327	CICSRELBAD

Value	EYUDA
1328	ARMNOTREG
1329	ARMNOTACT
1330	ARMPOLCHK
1331	ABENDED
1332	CPSMSYSTEM
1333	CPSMVERSION
1334	CPSMAPI
1335	NOTSUPPORTED
1336	NOTVSNCONN
1337	INVALIDATTR
1338	APITASKERR
1339	CPSMSERVER
1340	APITASK
1341	PLEXMGR
1342	REQTIMEOUT
1344	AREATOOSMALL
1345	USRID
1348	VERSION
1352	FILTERMATCH
1353	INVALIDOBJ
1354	INVALIDVER
1355	TASKDATAKEY
1356	INVALIDVERB
1357	NOSTORAGE
1358	NOSERVICE
1359	EXCEPTION
1360	INVALIDEVT
1361	DATAERROR
1362	CMAS
1363	FIRST
1364	NEXT
1365	EXPIRED
1366	WORKLOAD
1367	ACTIONPARM
1368	CICSNAME
1369	MAXRECORDS
1370	QUERY
1371	EXPAND
1372	XINTO
1373	XLENGTH
1374	APICMD

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Value	EYUDA
1375	CSDAPI

EYUDA REASON values in alphabetic order

This section lists the REASON EYUDAs in alphabetic order.

EYUDA

	Value
1331	ABENDED
1301	ACTION
1367	ACTIONPARM
1340	APITASK
1338	APITASKERR
1344	AREATOOSMALL
1329	ARMNOTACT
1328	ARMNOTREG
1330	ARMPOLCHK
1310	ATTRIBUTE
1289	BACKWARD
1300	BY
1368	CICSNAME
1327	CICSRELBAD
1362	CMAS
1282	CONTEXT
1284	COUNT
1334	CPSMAPI
1339	CPSMSERVER
1332	CPSMSYSTEM
1333	CPSMVERSION
1299	CRITERIA
1375	CSDAPI
1361	DATAERROR
1319	DATALLENGTH
1291	DELAY
1302	ECB
1305	EVENT
1359	EXCEPTION
1365	EXPIRED

1304 FEEDBACK
1309 FIELDS
1286 FILTER
1352 FILTERMATCH
1363 FIRST
1288 FORWARD
1296 FROM
1313 FROMCHAR
1311 FROMCV
1298 INTO
1337 INVALIDATTR
1360 INVALIDEVT
1353 INVALIDOBJ
1354 INVALIDVER
1356 INVALIDVERB
1285 LENGTH
1323 MAINTPOINT
1369 MAXRECORDS
1307 MODIFY
1364 NEXT
1358 NOSERVICE
1357 NOSTORAGE
1287 NOTFILTER
1292 NOTIFICATION
1335 NOTSUPPORTED
1336 NOTVSNCONN
1281 OBJECT
1315 PARM
1316 PARMLEN
1341 PLEXMGR
1290 POSITION
1370 QUERY
1342 REQTIMEOUT
1295 RESOURCE
1283 RESULT
1294 SCOPE
1303 SENTINEL

1293 SIGNONPARM
1321 SOCRESOURCE
1322 SOERESOURCE
1320 SOLRESOURCE
1317 SUMOPT
1325 SYSLVLBAD
1324 SYSNOTACT
1326 SYSNOTLCL
1355 TASKDATAKEY
1280 THREAD
1297 TO
1312 TOCHAR
1314 TOCV
1306 TOKEN
1318 TYPE
1345 USRID
1348 VERSION
1308 VIEW
1366 WORKLOAD
1372 XINTO
1373 XLENGTH

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Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully.

You can perform most tasks required to set up, run, and maintain your CICS system in one of these ways:

- using a 3270 emulator logged on to CICS
- using a 3270 emulator logged on to TSO
- using a 3270 emulator as an MVS system console

IBM Personal Communications provides 3270 emulation with accessibility features for people with disabilities. You can use this product to provide the accessibility features you need in your CICS system.

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Version 4 Release 1
CICSplex SM Application Programming Reference

Publication No. SC34-7031-02

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