

**z/OS V2R3 Communications Server
SMTPD compatibility
enhancements for CSSMTP**

Contents

List of Tables.....	v
Chapter 1: New Function Summary.....	7
SMTPD compatibility enhancements for CSSMTP.....	8
Chapter 2: IP Configuration Guide.....	9
Customizing the CSSMTP configuration file to handle undeliverable mail.....	10
Chapter 3: IP Configuration Reference.....	13
Communications Server SMTP application.....	14
General syntax rules for CSSMTP.....	14
Chapter 4: IP System Administrator's Commands.....	23
MODIFY command: Communications Server SMTP application (CSSMTP).....	24
Chapter 5: z/OS Summary of Message and Interface Changes.....	37
Communications Server interface changes for z/OS V2R3.....	38
Communications Server IP interface changes.....	38

List of Tables

Table 1: SMTPD compatibility enhancements for CSSMTP.....	8
Table 2: All related topics about SMTPD compatibility enhancements for CSSMTP.....	8
Table 3: CSSMTP configuration statements.....	16
Table 4: New and changed non-PROFILE.TCPIP configuration files for z/OS V2R3.....	38
Table 5: New and changed Communications Server operator commands for z/OS V2R3.....	39
Table 6: IP samples provided in MVS data set SEZAINST for z/OS V2R3.....	40

Chapter

1

New Function Summary

Topics:

- [SMTPD compatibility enhancements for CSSMTP](#)
-

SMTPD compatibility enhancements for CSSMTP

z/OS® V2R3 Communications Server with APAR PH18237, enhances the Communications Server SMTP (CSSMTP) application with three new configuration parameters to provide better compatibility with SMTPD for your migration from SMTPD to CSSMTP.

To enable SMTPD compatibility enhancements for CSSMTP, perform the tasks in [Table 1: SMTPD compatibility enhancements for CSSMTP](#) on page 8.

Table 1: SMTPD compatibility enhancements for CSSMTP

Task/Procedure	Reference
Configure ReportMailFrom to define a default email address for the "Mail From" field in the error report.	ReportMailFrom statement in Communications Server SMTP application in z/OS Communications Server: IP Configuration Reference
Configure ReportSysoutClass to assign a Sysout Class for error reports.	ReportSysoutClass statement in Communications Server SMTP application in z/OS Communications Server: IP Configuration Reference
Configure MailBoxCompatibility to define the mailbox length (Standard or Long).	MailBoxCompatibility statement in Communications Server SMTP application in z/OS Communications Server: IP Configuration Reference
Display the values for the ReportMailFrom, ReportSysoutClass, and MailBoxCompatibility.	MODIFY command: Communications Server SMTP application (CSSMTP) in z/OS Communications Server: IP System Administrator's Commands

To find all new and updated topics about SMTPD compatibility enhancements for CSSMTP, see [Table 2: All related topics about SMTPD compatibility enhancements for CSSMTP](#) on page 8.

Table 2: All related topics about SMTPD compatibility enhancements for CSSMTP

Book name	Topics
z/OS Communications Server: IP Configuration Guide	Customizing the CSSMTP configuration file to handle undeliverable mail
z/OS Communications Server: IP Configuration Reference	<ul style="list-style-type: none"> • Communications Server SMTP application <ul style="list-style-type: none"> • General syntax rules for CSSMTP • CSSMTP configuration statements <ul style="list-style-type: none"> • MailBoxCompatibility statement • ReportMailFrom statement • ReportSysoutClass statement
z/OS Communications Server: IP System Administrator's Commands	<ul style="list-style-type: none"> • MODIFY command: Communications Server SMTP application (CSSMTP)

Chapter

2

IP Configuration Guide

Topics:

- [Customizing the CSSMTP configuration file to handle undeliverable mail](#)
-

Customizing the CSSMTP configuration file to handle undeliverable mail

CSSMTP provides configuration options to indicate how it handles undeliverable mail messages. You can configure CSSMTP to send individual undeliverable mail notifications or not to send them. You can also configure CSSMTP to create a report describing errors that were found while processing mail messages; this report can be created on the spool or sent to the configured mail administrators.

The following examples describe the configuration options for handling undeliverable mail. For more information about the `BadSpoolDisp` statement, the `Undeliverable` statement, the `MailAdministrator` statement, [the `ReportMailFrom` statement](#), and the `Report` statement, see [z/OS Communications Server: IP Configuration Reference](#).

- Example 1 — Configuring CSSMTP to not return an undeliverable mail notification to the originator and to hold the original spool file on the JES spool data set:

```
BadSpoolDisp      Hold
Report            Admin
MailAdministrator myuserId@ibm.us.com
ReportMailFrom    userID@ibm.us.com
Undeliverable
{
  ReturnToMailFrom No
}
```

To configure the application to not send an undeliverable mail notification to the originator, you need to set the `ReturnToMailFrom` value to `No`. This example might be useful if the mail messages do not specify an originator, or if the spool file is for sending bulk mail that does not typically require a reply to the originator. This example has optionally configured that a report be sent to the specified mail administrator. [If the Mail From of the error report is empty, it will use the mail address in `ReportMailFrom` if it has been configured.](#)

Tips:

- The mail administrator can use the received report to determine which mail messages were undeliverable in the original spool file.
- When the examination of this JES spool file is complete, the mail administrator should delete the JES spool file, which is now in a hold state.

Results:

- CSSMTP tries to send all mail messages, and if any of the mail is undeliverable, CSSMTP does not create and send an undeliverable mail notification.
- Because the `BadSpoolDisp` statement is set to `Hold`, CSSMTP does not delete the JES spool file.
- Example 2 — Configure CSSMTP to send an undeliverable mail notification to the originator, and to hold the original spool file on the JES spool data set if necessary:

```
BadSpoolDisp      Hold
Report            None
Undeliverable
{
  ReturnToMailFrom Yes
  DeadLetterAction  Store
  DeadLetterDirectory /var/cssmtp/myDir/
}
```

```
}

```

This example is useful if the originator of the mail messages needs to be informed that the messages cannot be delivered. If you determine that it is not necessary to inform the originator of failed deliveries, set the ReturnToMailFrom value to No. No report is created in this example.

Tip: When spool files contain many mail messages, this configuration should be used with caution because a failure can cause many individual undeliverable mail notifications to be maintained in storage while trying to return them to the originator.

Results:

- CSSMTP builds an undeliverable mail notification and attempts to notify the originator of the mail message failure.
- Because the ReturnToMailFrom value is Yes, if the original spool file contains no errors other than undeliverable mail errors, CSSMTP always deletes the spool file even when the BadSpoolDisp value is set to Hold.
- If the original spool file contains both undeliverable mail errors and syntax errors, CSSMTP holds the spool file because the BadSpoolDisp value is set to Hold.
- If the undeliverable mail notification cannot be returned to the originator of the mail message, then this undeliverable mail notification becomes a dead letter. The action taken by CSSMTP is based on the value configured on the DeadLetterAction parameter. In this example, because the DeadLetterAction value is set to Store, CSSMTP stores the dead letters in the /var/cssmtp/myDir directory:

```
/var/cssmtp/myDir/TESTMAIL.SYS00006.Sep302008.160454.541437.1U
/var/cssmtp/myDir/TESTMAIL.SYS00006.Sep302008.160454.541999.1U

```

- Because None is specified on the Report statement, the log must be inspected for messages about any problems found in the JES spool file.

Chapter

3

IP Configuration Reference

Topics:

- [Communications Server SMTP application](#)

Communications Server SMTP application

The Communications Server SMTP (CSSMTP) application sends mail messages from a JES spool data set to an SMTP server.

For additional overview and configuration information about CSSMTP, see the information about the Communications Server SMTP (CSSMTP) application in [z/OS Communications Server: IP Configuration Guide](#).

This topic contains the following information:

- [General syntax rules for CSSMTP](#) on page 14
- [Starting CSSMTP](#)
- [CSSMTP sample started procedure](#)
- [CSSMTP configuration statements](#) on page 16
- [CSSMTP environment variables](#)
- [CSSMTP user exit version 3](#)

General syntax rules for CSSMTP

The following list shows the general syntax rules for CSSMTP:

- Specify CSSMTP configuration files using the code page set in the environment variable `CSSMTP_CODEPAGE_CONFIG` or use default value `IBM®-1047` for EBCDIC.
- Each statement must have a corresponding value and must be separated from its value by one or more blank spaces.
- Only one attribute and its value can be specified per line.
- Text beyond the specified attribute and value is ignored.
- If the first non-blank character on a line begins with the number sign (`#`), then the rest of the line is treated as a comment and is ignored.

- Characters that appear in statements must be printable characters, unless otherwise noted. The character set is limited to the 26 alphabetic characters (uppercase and lowercase), the 10 numeric digits, and the following 18 special characters:

- plus (+)
- asterisk (*)
- slash (/)
- comma (,)
- period (.)
- ampersand (&)
- left and right parentheses [()]
- straight single quote (')
- hyphen (-)
- equal (=)
- colon (:)
- straight double quote (")
- percent (%)
- less than (<)
- greater than (>)
- question mark (?)
- semicolon (;)

The following situations are exceptions to these rules:

- The MailAdministrator statement does not restrict any special characters
- **ReportMailFrom** statement does not restrict any special characters
- The ExtWrtName statement allows only the following special characters:
 - dollar sign (\$)
 - number sign (#)
 - at sign (@)
- Statements that are allowed only once must be specified only once. When a single statement is repeated, a warning message is written to the log file, and the last instance of the statement is used.
- Parameters that are allowed only once must be specified only once. If a single parameter is repeated, then the last instance of the parameter value is used.
- Specify multiple type statements and attributes based on the maximum allowed. When a statement or attribute is repeated more than the maximum number allowed, a warning message is written to the log file. The first instances, up to the maximum number of instances that are allowed, are used.
- Statements that contain braces ({ }) must specify the braces on separate lines. For example:

```
TargetServer
{
  TargetIp    9.66.103.222
}
```

- Any IP address reference can be either an IPv4 format or IPv6 format IP address when the stack is running in IPv6-enabled mode.
- At least one valid IP address or target name is required for the configuration to be valid. See [TargetServer statement](#) for details about configuration.
- Any warning that is detected during parsing causes messages to be written to the log and a single warning message to be written to the console. The new configuration is installed.
- You can use static system symbols in CSSMTP configuration file statements.

Results:

- If a configuration error is detected during startup, then CSSMTP writes an error message to the log and console, and exits.

- If a configuration error is detected during a dynamic refresh, then the entire refresh is rejected, an error message is written to the log and console, and CSSMTP continues running with the old configuration values.
- CSSMTP terminates in the following situations:
 - Start option errors are detected during initialization
 - Configuration file does not exist at initialization
 - Configuration file errors are detected during initialization
 - JES is not available during initialization
 - JES becomes unavailable while CSSMTP is processing the mail messages
 - The stop command is issued
 - The mail directory for extended retry becomes unusable

CSSMTP configuration statements

Table 3: [CSSMTP configuration statements](#) on page 16 lists CSSMTP configuration file statements.

Table 3: CSSMTP configuration statements

Configuration file statement	Default	Required or optional	Update allowed by modify refresh	Purpose
BadSpoolDisp	Hold	Optional	Yes	Specifies the action to be taken when errors are encountered while the JES spool file is being processed.
ChkPointSizeLimit	64000	Optional	No	Specifies the number of concurrent mail messages for which checkpoint information is saved.
ExtendedRetry	<ul style="list-style-type: none"> • Age 5 • Interval 30 • MailDirectory / var/ cssmtp/extwrtname/ mail/ 	Optional	Yes (except MailDirectory)	Specifies the limits that CSSMTP uses when it attempts to resend mail messages that are not immediately deliverable after RetryLimit processing.
ExtWrtName	task job name	Optional	No	Specifies the external writer name that is used by CSSMTP for selection criteria when interfacing with the JES2 or JES3 subsystems.
Header	<ul style="list-style-type: none"> • Date Yes • UserInfo Yes 	Optional	Yes	Specifies the action to be taken when creating RFC 2822 mail headers.

Configuration file statement	Default	Required or optional	Update allowed by modify refresh	Purpose
JESJobSize	0 (unlimited)	Optional	Yes	Specifies the maximum data set size that is accepted from the JES spool file in thousands of bytes.
JESMsgSize	0 (unlimited)	Optional	Yes	Specifies the maximum mail message size that is accepted from a JES spool file, in thousands of bytes.
JESSyntaxErrLimit	5	Optional	Yes	Specifies the maximum number of syntax errors that are acceptable in a JES spool file before the rest of the JES spool file processing is stopped.
LogLevel	7	Optional	Yes	Specifies the level of logging and tracing.
MailAdministrator	No e-mail address is configured to send a report.	Optional	Yes	Specifies an e-mail address to which CSSMTP delivers reports for certain errors. This statement can be specified up to four times in a configuration file to deliver reports to multiple administrators.
MailBoxCompatibility Standard		Optional	Yes	Specifies the size of the mailbox. The standard length is 64.
MBCS	No	Optional	No	Specifies whether or not CSSMTP supports multi-byte character sets.
Options	<ul style="list-style-type: none"> • AtSign @ • DataLineTrunc No • NullTrnc No • TestMode No • TLSEhlo No 	Optional	Yes (except TestMode)	CSSMTP options

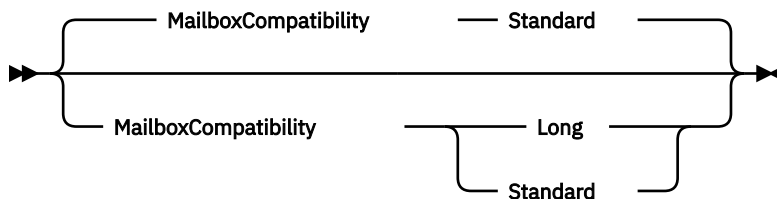
Configuration file statement	Default	Required or optional	Update allowed by modify refresh	Purpose
Report	Sysout	Optional	Yes	Specifies the action to be taken when problems are reported with JES spool files.
ReportMailFrom	No email address is configured to send a report	Optional	Yes	Specify a default mail sender to be used in the MAIL FROM field in reports when the REPORT statement specifies Admin.
ReportSysoutClass	Use the same class as the spool file	Optional	Yes	This provides the ability to specify the SYSOUT class for reports when the REPORT statement specifies Sysout.
RetryLimit	Interval 1 Count 5	Optional	Yes	Specifies the limits that CSSMTP uses when attempting to re-send mail messages that are not immediately deliverable.
SMF119	No SMF recording	Optional	Yes	Specifies the records to be written to SMF.
TargetServer	<ul style="list-style-type: none"> • Charset ISO8859-1 • ConnectPort 25 • ConnectLimit 5 • MaxMsgSent 0 • MBCharset (no default) • MessageSize 524288 • Secure No <p>You must provide a value for TargetIP, TargetName, or TargetMx.</p>	Required	Yes	Specify one or multiple TargetServer statements to define target servers (resolved or configured IP addresses) and their connection attributes to which CSSMTP connects for sending mail.

Configuration file statement	Default	Required or optional	Update allowed by modify refresh	Purpose
Timeout	<ul style="list-style-type: none"> • AnyCmd 300 • ConnectRetry 120 • DataBlock 180 • DATACmd 120 • DataTerm 600 • InitialMsg 300 • MAILCmd 300 • RCPTCmd 300 • ConnectIdle 0 	Optional	Yes	Specifies the timeout values, in seconds, for the interaction between CSSMTP and a target server.
Translate	IBM-1047	Optional	No	Specifies the translation code page of the records read from the JES spool data set.
Undeliverable	ReturnToMailFrom Yes DeadLetterAction Store DeadLetterDirectory / var/ cssmtp/extwrtname/ deadletter/	Optional	Yes	Specifies the method to use for handling undeliverable mail.
UserExit	None	Optional	Yes	Controls whether this CSSMTP calls CSSMTP exit program provided by the customer to examine data being sent to CSSMTP from the JES spool data set.

MailBoxCompatibility statement

Use the MailBoxCompatibility statement to specify the maximum mailbox length. The standard maximum mailbox length is 64. You can specify whether the mailbox should be Standard or Long.

Syntax



Parameters

Standard

Indicates that the maximum mailbox length is 64, which is the standard maximum length.

Long

Indicates that the maximum mailbox length is 256.

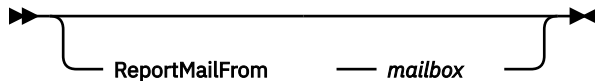
Results:

- The MailBoxCompatibility value can be either Standard or Long.
- If you specify the MailBoxCompatibility value as Standard, the maximum mailbox length is 64. If you specify the MailBoxCompatibility value as Long, the maximum mailbox length is 256.

ReportMailFrom statement

Use the ReportMailFrom statement to specify the email address with the format *userid@host.domain* (mailbox) that Communications Server SMTP (CSSMTP) uses in the MAIL FROM field when it delivers error reports to the mail administrator. Error reports are generated by CSSMTP when a problem is detected while processing a spool file from the JES subsystem. See [REPORT statement](#).

Syntax



Parameters

mailbox

mailbox is an e-mail address that CSSMTP uses in the MAIL FROM field when it delivers error reports. There is no default value.

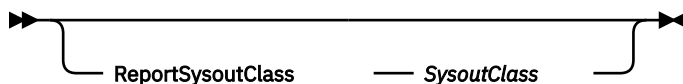
Restrictions:

- The *mailbox* value is case sensitive.
- The *mailbox* value must be defined as *userid@host.domain* for the mail address.
- The *userid* value can be 1 - 64 characters in length. The *host.domain* value can be 1 - 255 characters in length.

ReportSysoutClass statement

Use the ReportSysoutClass statement to specify the SYSOUT class to which Communications Server SMTP (CSSMTP) delivers error reports. The class has to be single character that can be A - Z or 0 - 9. Error reports are generated by CSSMTP when a problem is detected while processing a spool file from the JES subsystem. See [REPORT statement](#).

Syntax



Parameters

SysoutClass

The SYSOUT class to which the CSSMTP delivers error reports.

Results:

- Only one ReportSysoutClass can be defined.

- When configured, a report is sent to the specified SYSOUT class for each spool file that contains errors. See [REPORT statement](#).

Restriction:

- The SysoutClass value must be defined as a single character. The valid character can be A - Z or 0 - 9.

Chapter

4

IP System Administrator's Commands

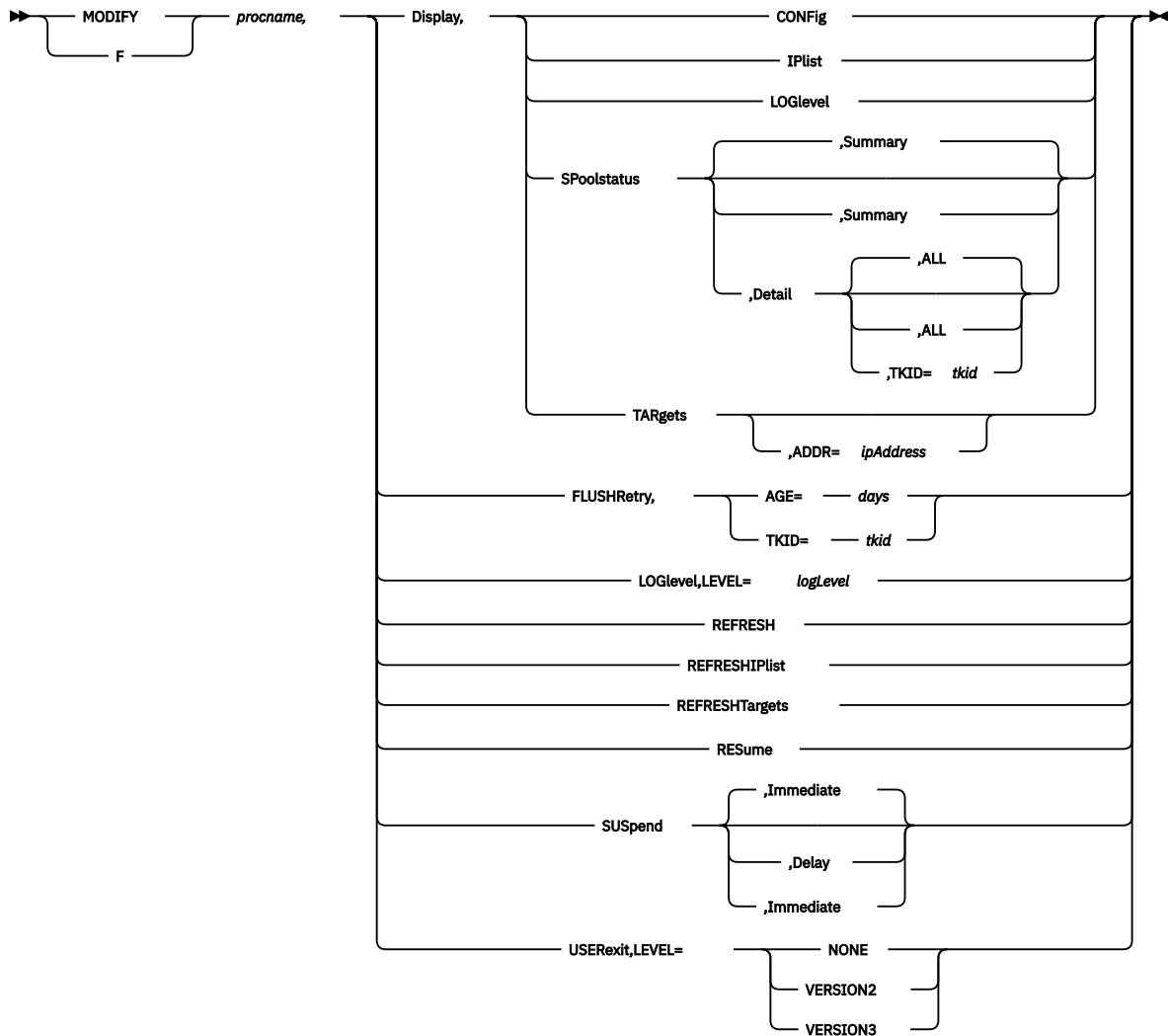
Topics:

- [MODIFY command: Communications Server SMTP application \(CSSMTP\)](#)

MODIFY command: Communications Server SMTP application (CSSMTP)

Use the MODIFY command to control the Communications Server SMTP (CSSMTP) application from the operator console. For descriptions of terms that are used in this section, see the CSSMTP information in [z/OS Communications Server: IP Configuration Guide](#).

Format:



Parameters:

procname

The member name of the cataloged procedure that is used to start the CSSMTP application.

Display,CONFig

Display the CSSMTP application configuration and global values that are used for processing mail.

Display,IPIlist

Display all target server IP addresses and their preferences that are used by CSSMTP. A target server is the resolved or configured IP addresses from TargetServer statements. See the TargetServer statement information in [z/OS Communications Server: IP Configuration Reference](#) for details about how the target server addresses are obtained.

DISplay,LOGlevel

Display CSSMTP active log levels.

Display,SPOOLstatusDisplay,SPOOLstatus,Summary

Display summary information for all tasks that are processing spool files for CSSMTP. You can use this display to determine the number of mail messages that are pending or you can use it on the long-retry queue for each spool file that is being processed. The summary option is the default for the MODIFY DISPLAY,SPOOLSTATUS command.

Tip: Use this command to obtain the task ID to use on other modify commands that use task ID values as options.

Display,SPOOLstatus,DetailDisplay,SPOOLstatus,Detail,ALL

Display detailed information for all tasks that are not idle. The ALL option is the default for the MODIFY DISPLAY,SPOOLSTATUS,DETAIL command.

Display,SPOOLstatus,Detail,TKID=*tkid*

Display detailed information for this specific task that processes spool files for CSSMTP.

Tip: You can use the MODIFY DISPLAY,SPOOLSTATUS command to obtain a valid TKID value.

Display,TARgets[,ADDR=*ipAddress*]

Display global and specific information about target servers. If the ADDR parameter is not specified, all configured target servers are displayed. If the ADDR parameter is specified, then the IP address value must match the IP address of an existing target server that is in use by CSSMTP.

Tip: You can use the MODIFY DISPLAY IPLIST command to obtain IP addresses for the list of target servers that are being used by CSSMTP.

FLUSHRetry,TKID=*tkid*

Initiate a request for the CSSMTP application to remove mail messages from the long retry queue, and send those mail messages to the list of target servers. If CSSMTP cannot send a mail message, that mail message becomes subject to long-term retry processing; if any mail message is not defined, it becomes an undeliverable mail message. For more information about undeliverable mail, see [z/OS Communications Server: IP Configuration Guide](#).

A nonzero TKID (task ID) value requests that only the mail messages for the specified TKID value is flushed. A TKID value 0 requests that all mail messages in the long-retry queue be flushed.

Tip: You can use the MODIFY DISPLAY,SPOOLSTATUS command to obtain a valid TKID value.

FLUSHRetry,AGE=*days*

Initiate a request for the CSSMTP application to remove the mail messages that are older than *days* days from the extended retry queue, and send those mail messages to the list of target servers. If CSSMTP cannot send a mail message, that message becomes an undeliverable mail message. To make this command effective, the target servers must be available. For details, see the information about extended retry mail in [z/OS Communications Server: IP Configuration Reference](#) and the information about undeliverable mail in [z/OS Communications Server: IP Configuration Guide](#).

A days value of 0 specifies that all messages in the extended retry list are to be processed.

Tip: You can use the command to monitor the number of the mail messages in the extended retry list and the state of the target servers used by CSSMTP.

LOGlevel,LEVEL=*logLevel*

Change the CSSMTP application log level. The *logLevel* value specifies the log level. If a *logLevel* value is not specified, then the current log level remains in effect. See the LogLevel statement information in [z/OS Communications Server: IP Configuration Reference](#) for details about defining the CSSMTP application log level.

REFRESH

Initiate a dynamic reconfiguration using the configuration file that is defined at initialization. If a configuration error is detected during a dynamic refresh, the entire refresh is rejected, the error message is written to the log and console, and the CSSMTP application continues to run with the old configuration values.

Results:

- While the new configuration file is being processed, the existing log level is used, regardless of how it was set (using the last configuration file or with the MODIFY LOGLEVEL command). After the new configuration file has been successfully processed, the value that is specified on the LogLevel statement of the new configuration file takes effect. If the LogLevel statement is not specified in the new configuration file, the log level defaults to level 7 (ERROR, WARNING, and EVENT). If the new configuration file contains errors that cause it to be rejected, the log level that was in effect prior to the dynamic reconfiguration is used.
- If an update to the ExtWrtName statement is detected during a dynamic refresh, then the CSSMTP application continues to run with the old external writer name and a warning message is written to the log and console.
- If an update to the Translate statement is detected during a dynamic refresh, then the CSSMTP application continues to run with the old *translate* value and a warning message is written to the log and console.
- If an update to the ChkPointSizeLimit statement is detected during a dynamic refresh, then the CSSMTP application continues to run with the old ChkPointSizeLimit value and a warning message is written to the log and console.
- While the new configuration file is being processed, the existing UserExit value is used, regardless of how it was set (using the last configuration file or with the MODIFY USEREXIT command). After the new configuration file has been successfully processed, the value that is specified on the UserExit statement of the new configuration file takes effect when the next JES spool file is opened. If the new configuration file contains errors that cause it to be rejected, the UserExit value that was in effect prior to the dynamic reconfiguration is used.
- An update to the TargetServer statement can force CSSMTP to stop and restart connections on the affected IP addresses. If CSSMTP is in the process of sending a mail message on the affected IP address, the mail message is retried at another IP address or placed in the long retry queue. For more information about the TargetServer statement, see the TargetServer statement information in [z/OS Communications Server: IP Configuration Reference](#).

REFRESHIPlist

Initiates a dynamic DNS refresh of the target that is identified by the configured TargetName or TargetMx parameter value. This parameter does not cause the configuration file to be reprocessed.

Result: If a TargetServer statement has TargetName or TargetMx parameters configured, new IP addresses might be resolved. If the IP address list is changed, CSSMTP might be forced to stop and restart connections on the affected IP addresses. If CSSMTP is in the process of sending a mail message on the affected IP address, the mail message is retried at another IP address or placed in the long retry queue.

REFRESHTargets

Reinitiates a connection to all target servers. The CSSMTP application can learn about any capability changes from the target servers.

Tip: This command causes all active connections to all target servers to be stopped and restarted; therefore, use this command only when there is a change in the network topology and no work is being done by the CSSMTP application because the command interrupts all active connections.

Result: If you issue this command while CSSMTP is in the process of sending a mail message on the connection, the mail message is retried at another IP address or placed in the long retry queue.

RESume

Resumes processing of any JES spool files whose processing was suspended with the MODIFY SUSPEND operator command.

SUSpendSUSpend,Immediate

Suspends the reading of mail messages immediately for all active spool files. To resume this processing, issue the MODIFY RESUME operator command. The IMMEDIATE option is the default for the MODIFY SUSPEND command.

SUSpend,Delay

Suspends the reading of any new spool files immediately but completes reading any spool files that are already in process. To resume reading of spool files, issue the MODIFY RESUME operator command.

USERexit,LEVEL=*userExitValue*

Change the CSSMTP application user exit value. The USEREXIT keyword can be set to NONE, VERSION2, or VERSION3. If a *userExitValue* parameter value is not specified, then the current user exit value remains in effect. See the USEREXIT statement information in [z/OS Communications Server: IP Configuration Reference](#) for details about how to define the CSSMTP application user exit value.

Result: The user exit value does not change until the next JES spool file is opened.

Examples:

Example 1: The MODIFY DISPLAY,LOGLEVEL command displays the current logging level that is being used by CSSMTP.

```
F CSSMTP, DISPLAY, LOGLEVEL
EZD1828I CSSMTP DISPLAY LOGLEVEL = 15
```

Example 2: The MODIFY DISPLAY,CONFIG command displays the current configuration that is being used by CSSMTP.

```
F CSSMTP, DISPLAY, CONFIG
EZD1829I CSSMTP CONFIGURATION: 730
CONFIGFILENAME      : //'USER1.CSSMTP.CNTL(CSSMTP) '
LOGFILENAME         : /tmp/cssmtp.log
CHKPOINTFILENAME    : 'USER1.CSSMTP.CHKPOINT '
PID                 : 67108878
LOGLEVEL            : 7                      USEREXIT          : VERSION3
CHKPOINTSIZELIMIT  : 64000                   CHKPOINT           : WARM
CONFIG CODEPAGE     : IBM-1047
TRANSLATE           : ibm-1047
TRANSLATE           : IBM-930                 MBCS               : YES
START OPTION TCPNAME : N/A                   IPV6 ENABLED      : YES
EXTWRTRNAME        : CSSMTP                   HOST NAME         : SY1
DOMAIN NAME         : example.com
HEADER:
  DATE               : YES
  USERINFO           : YES
  JESJOBSize         : 0                       JESMSGSize        : 0
  JESSYNTAXERRLIMIT : 6
  BADSPOOLDISP       : HOLD                    REPORT            : ADMIN
OPTIONS:
  NULLTRNC          : YES                      DATALINETRUNC     : NO
  TESTMODE          : NO                      ATSIGN           : 7C
  TLSEHLO           : NO
UNDELIVERABLE:
  RETURNTOMAILFROM  : YES                     DEADLETTERACTION  : STORE
  DEADLETTERDIRECTORY : /var/cssmtp/deadletter/
SMF119:
  CONFIG            : YES                      CONNECT          : YES
  MAIL              : YES                      SPOOL           : YES
  STATS             : YES
RETRYLIMIT:
```

```

COUNT                : 5                INTERVAL           : 1
EXTENDEDRETRY: ACTIVE
AGE                   : 5                INTERVAL           : 30
MAILDIRECTORY         : /var/cssmtp/mail/
TARGETSERVER:
TARGETNAME            : mail.example.com
CONNECTPORT          : 25                CONNECTLIMIT       : 5
MAXMSGSENT           : 0                MESSAGE SIZE       : 524288
SECURE                : NO                CHARSET            : ISO8859-1
MBCHARSET            : IBM-5053
TARGETIP              : 9.17.195.167
CONNECTPORT          : 25                CONNECTLIMIT       : 5
MAXMSGSENT           : 0                MESSAGE SIZE       : 524288
SECURE                : NO                CHARSET            : ISO8859-1
MBCHARSET            : IBM-5053
TIMEOUT:
ANYCMD                : 300                CONNECTRETRY       : 120
DATABLOCK            : 180                DATACMD            : 120
DATATERM             : 600                INITIALMSG         : 300
MAILCMD              : 300                RCPTCMD            : 300
CONNECTIDLE          : 60
MAILBOXCOMPATIBILITY : STANDARD
REPORTSYOUTCLASS     : B
REPORTMAILFROM        : USER5@US.IBM.COM
MAILADMINISTRATOR    : postmaster@example.com
                     : user1@example.com
                     : user2@example.com

```

For definitions of statements and parameters that are obtained from configuration file, see the CSSMTP information in [z/OS Communications Server: IP Configuration Reference](#).

CONFIGFILENAME

The configuration name from the CONFIG DD statement in the started procedure.

LOGFILENAME

The configured log file name from LOGFILE DD statement in the started procedure.

PID

The process ID.

LOGLEVEL

The logging level.

CHKPOINT

Indicates whether checkpointing is active.

WARM

Checkpointing was initiated using the CHKPOINT DD statement.

COLD

Checkpointing was initiated using the `-f` start option.

NONE

There was no CHKPOINT DD statement.

CONFIG CODEPAGE

The code page value specified on the CSSMTP_CODEPAGE_CONFIG statement or the default value.

TRANSLATE

The code page value that is configured on the Translate statement.

CHKPOINT FILENAME

The name of the configured checkpoint file, if a CHKPOINT DD statement is configured in the started procedure.

START OPTION TCPNAME

The TCP name that is passed on the `-p` start option or the value N/A if the `-p` start option is not used.

IPV6 ENABLED

Indicates whether IPV6 is supported.

EXTENDEDRETRY

Indicates whether extended retry processing is ACTIVE or INACTIVE.

ATSIGN

The hex value of the configured AtSign symbol.

Result: Code page IBM-1047 is always used for the CSSMTP display. The CSSMTP_CODEPAGE_CONFIG environment variable is not used for the display. The value displayed is the hex value that is defined in the IBM-1047 code page for the configured symbol.

The remaining values that are displayed are the values for the matching statement or parameter from the configuration file.

Example 3: The MODIFY DISPLAY,IPLIST command displays the IP address of the configured target servers from the TargetServer statement and TargetIp parameter, or it displays the resolved target server addresses from the TargetServer statement and TargetName parameter, that are being used by CSSMTP.

```

F CSSMTP,DISPLAY,IPLIST
EZD1830I CSSMTP IPLIST:
  TARGETIP          : 9.100.1.5
  CONNECTPORT      : 25
  MAXMSGSENT       : 1000
  SECURE           : NO
  MBCHARSET        : IBM-5053
  TARGETIP          : 9.56.231.69
  CONFIG TARGETNAME : RALVMS
  CONNECTPORT      : 25
  MAXMSGSENT       : 2000
  SECURE           : YES
  MBCHARSET        : IBM-5053
  TARGETIP          : 9.200.1.6
  CONNECTPORT      : 25
  MAXMSGSENT       : 1000
  SECURE           : NO
  MBCHARSET        : IBM-5053
  CONNECTLIMIT     : 5
  MESSAGE_SIZE     : 524288
  CHARSET          : ISO8859-1
  CONNECTLIMIT     : 2
  MESSAGE_SIZE     : 524288
  CHARSET          : ISO8859-1
  CONNECTLIMIT     : 5
  MESSAGE_SIZE     : 524288
  CHARSET          : ISO8859-1

```

For the definitions of statements and parameters that are obtained from the configuration file, see the CSSMTP information in [z/OS Communications Server: IP Configuration Reference](#).

TARGETIP

The IP address of the target server.

CONFIG TARGETNAME

The name that is used to resolve this target server address for a resolver A or AAAA query.

The remaining values that are displayed are the same values that are specified on the matching statement or parameter in the configuration file.

Example 4: The MODIFY DISPLAY,IPLIST command displays the resolved target servers from the TargetServer statement and TargetMx parameter that are being used by CSSMTP.

```

F CSSMTP,DISPLAY,IPLIST
EZD1830I USER1408 IPLIST:

```

```

TARGETIP      : 9.56.231.69
CONFIG TARGETMX : mxName
PREFERENCE    : 1
CONNECTPORT   : 25          CONNECTLIMIT : 2
MAXMSGSENT    : 2000       MESSAGE_SIZE : 524288
SECURE        : YES        CHARSET          : ISO8859-1
MBCHARSET     : IBM-5053
TARGETIP      : 9.56.200.55
CONFIG TARGETMX : mxName
PREFERENCE    : 1
CONNECTPORT   : 25          CONNECTLIMIT : 2
MAXMSGSENT    : 2000       MESSAGE_SIZE : 524288
SECURE        : NO         CHARSET          : ISO8859-1
MBCHARSET     : IBM-5053

```

For the definition of statements and parameters that are obtained from configuration file, see the CSSMTP information in [z/OS Communications Server: IP Configuration Reference](#).

TARGETIP

This is the IP address of the target server.

CONFIG TARGETMX

The name that is used to resolve this target server address for resolver MX query.

The remaining values that are displayed are the values for the matching statement or parameter from the configuration file.

Example 5: The MODIFY DISPLAY,SPOOLSTATUS command displays the summary information for all tasks that are processing JES spool files.

```

F CSSMTP, DISPLAY, SPOOLSTATUS
EZD1832I CSSMTP SPOOLSTATUS:
  TKID  JOBNAME  STATE  PEND  LRT      TKID  JOBNAME  STATE  PEND  LRT
W 002  JOBNM25  ACTVE   15   5      D 003  JOBNM132  READ    5    0
W 004  JOBNM45  ACTVE   10  10      D 005  JOBNM232  READ   10    0
W 006  JOBNM48  ACTVE   20   0      D 007  JOBNM332  IDLE    0    0
W 008  JOBNM50  ACTVE   20   5      D 009  JOBNM432  IDLE    0    0
W 010  JOBNM60  ACTVE   10   0      D 011  JOBNM532  IDLE    0    0
W 012  JOBNM80  ACTVE    0   0      D 013  JOB00632  IDLE    0    0
W 014  JOBNM90  ACTVE   10  10      D 015  JOB00732  IDLE    0    0
W 016  JOBNM190 ACTVE   20   0      D 017  JOB00832  IDLE    0    0
W 018  JOBNM150 ACTVE   20   5      D 019  JOB00932  IDLE    0    0
W 020  JOBNM160 ACTVE   10   0      D 021  JOB01132  IDLE    0    0

```

For definitions of terms that relate to this information, see the CSSMTP common terms information in [z/OS Communications Server: IP Configuration Guide](#).

W

A writer JES task, if the JES spool file was generated by the IEBGENER utility.

D

A dest JES task, if the JES spool file was generated by the SMTPNOTE command or by the TSO Transmit (XMIT) command.

TKID

The task ID, which can be used to identify a specific task.

Tip: You can use the task ID in the MODIFY FLUSHRetry command and the MODIFY DISPLAY,SPOOLSTATUS,DETAIL,TKID=*tkid* command.

JOBNAME

The JES job name for this task. If the task is in the IDLE state, this is the name of the previous job.

STATE

This parameter can have one of the following values:

WAITS

The task is waiting because virtual storage is constrained.

READ

The task is reading a spool file.

IDLE

The task is waiting for a JES spool file to process.

ACTIVE

The task is actively waiting for all mail in the spool file to be processed.

WAIT

The task is waiting because no target server is active to receive mail.

SUPND

The task was suspended by the MODIFY SUSPEND command.

PEND

The number of mail messages that are waiting to be sent to target server.

LRT

The number of mail messages that are currently queued in the long-retry queue.

The MODIFY DISPLAY SPOOLSTATUS,DETAIL command displays detailed information for all tasks that are not in the IDLE state that are processing JES spool files.

F CSSMTP,DISPLAY,SPOOLSTATUS,DETAIL

```
EZD1833I CSSMTP SPOOLSTATUS:
TASK ACTVE      : WRITER      TKID          : 2
JOBNAME         : JOBNM25      JOBID         : STC00055
PEND           : 15          LRT           : 5
MAIL READ      : 0           UNDELIVERABLE: 0
TASK ACTVE      : WRITER      TKID          : 4
JOBNAME         : JOBNM45      JOBID         : STC00060
PEND           : 10          LRT           : 10
MAIL READ      : 10          UNDELIVERABLE: 0

... <active task TKID=006,008,010,012,014,016,018,020 not shown>
TASK READ      : DEST        TKID          : 3
JOBNAME         : JOBNM132    JOBID         : STC00055
PEND           : 5           LRT           : 0
MAIL READ      : 5           UNDELIVERABLE: 20
TASK READ      : DEST        TKID          : 5
JOBNAME         : JOBNM232    JOBID         : STC00255
PEND           : 10          LRT           : 0
MAIL READ      : 5           UNDELIVERABLE: 20
```

The MODIFY DISPLAY SPOOLSTATUS,DETAIL command displays detailed information for all tasks that are not in the IDLE state that are processing JES spool files; in this example all state tasks are idle.

```
F CSSMTP,Display,Spoolstatus,detail
EZD1833I CSSMTP SPOOLSTATUS:
No non-idle TKIDs to display
```

The MODIFY DISPLAY SPOOLSTATUS,DETAIL,TKID=11 command displays detailed information for a specific TKID 11 task that is processing a spool file for the CSSMTP application.

F CSSMTP,DISPLAY,SPOOLSTATUS,DETAIL,TKID=11

```
EZD1833I CSSMTP SPOOLSTATUS:
TASK ACTVE           : WRITER           TKID           : 11
JOBNAME              : JOBNM532         JOBID           : STC00532
PEND                 : 0                LRT            : 0
MAIL READ            : 25               UNDELIVERABLE : 0
```

The MODIFY DISPLAY SPOOLSTATUS,DETAIL,TKID=3 command displays detailed information for a specific TKID 3 task that is currently idle.

```
F CSSMTP,DISPLAY,SPOOLSTATUS,DETAIL,TKID=2
EZD1833I CSSMTP SPOOLSTATUS:
TASK IDLE           : WRITER           TKID           : 2
JOBNAME             : JOB00032        JOBID           : STC00055
PEND                : 0                LRT            : 0
MAIL READ           : 2                UNDELIVERABLE : 1
```

TASK

The TASK parameter has the following fields:

state

Possible values are:

WAITS

The task is waiting because virtual storage is constrained.

READ

The task is reading a spool file.

IDLE

The task is waiting for a JES spool file to process.

ACTIVE

The task is actively waiting for all mail in the spool file to be processed.

WAIT

The task is waiting because no target server is active to receive mail.

SUPND

The task was suspended by the MODIFY SUSPEND command.

type task

Possible type task values are:

WRITER

This is a writer JES task if the JES spool file was generated by the IEBGENER utility.

DEST

This is a DEST JES task if the JES spool file was generated by the SMTPNOTE command or by the TSO Transmit (XMIT) command.

TKID

The task ID, which can be used to identify a specific task.

Tips:

- You can use the task ID in the MODIFY FLUSHRetry command and the MODIFY DISPLAY,SPOOLSTATUS,DETAIL,TKID=*tkid* command.
- You can use the task ID to identify log information that is in the log file. If the *tkid* value is 2, that TKID value is represented in the following example by the value :002.

```
08/01 07:10:20 CSSMTP DEBUG :002:mlJESThread:Message(0): ...
```


JOBNAME

The JES job name for this task. If the task is in the IDLE state, then this is the previous job name.

JOBID

This is the JES job ID for this task. If the task is in the IDLE state, then this is the previous job ID.

PEND

The number of mail messages that are waiting to be sent to a target server. If the task is in the IDLE state, then this value is always 0.

LRT

The number of mail messages that are currently in the long-retry queue. If the task is in the IDLE state, then this value is always 0.

MAIL READ

The total number of mail messages that have been read for the job. If the task is in the IDLE state, then this is the mail for the previous job.

UNDELIVERABLE

The total number of undeliverable mail messages for this job name. If the task is in IDLE state, then this value is the undeliverable count of the previous job.

Example 6: The MODIFY DISPLAY,TARGETS command displays the global and specific information that is related to sending email to target servers. For definitions of statements and parameters that are obtained from the configuration file, see the CSSMTP information in [z/OS Communications Server: IP Configuration Reference](#).

F CSSMTP,DIS,TARGETS

```
EZD1831I CSSMTP TARGETS:
GLOBAL INFORMATION:
MAIL SENT : 0                TOTAL RETRY : 0
DEADLETTER: 0                CURRENT RETRY: 0
UNDELIVER : 0
EXTENDED RETRY:
CURRENT : 0                  TOTAL : 0
TARGET SERVER 1.1.1.1
STATE : ACTIVE
ESMTP : YES                  MESSAGE SIZE : 20000000
STARTTLS : NO                MAIL ATTEMPTS: 24
MAIL SENT : 24                CONNECT FAIL : 0
TARGET SERVER ::6
STATE : ACTIVE
ESMTP : YES                  MESSAGE SIZE : 20000000
STARTTLS : YES                MAIL ATTEMPTS: 30
MAIL SENT : 30                CONNECT FAIL : 0
```

The following global target server information for this application is displayed:

MAIL SENT

Count of all mail messages that were processed successfully after all mail messages were sent.

TOTAL RETRY

Cumulative count of mail messages that have been in the long-retry state.

DEADLETTER

Cumulative count of all mail messages that were classified as dead letters.

CURRENT RETRY

Count of mail messages that are currently in the long-retry queue.

UNDELIVER

Count of all mail messages that were undeliverable.

EXTENDED RETRY**CURRENT**

Count of mail messages currently in the extended retry directory while extended retry is active.

TOTAL

Cumulative count of mail messages that have been in the extended retry directory.

The following fields are displayed for each target server:

STATE

State of the target server.

ACTIVE

The target server is active.

NOT USABLE

This target server is not usable. For example, CSSMTP has lost connectivity to this target server.

UNKNOWN

This target server is new and its capabilities have not been learned at this time.

ESMTP

Type of target server. If the ESMTP value is YES, the target server type is ESMTP. If the ESMTP value is NO, the target server type is SMTP.

MESSAGE SIZE

The actual message size.

- For ESMTP this value was obtained from the SIZE extension when the connection was made. The value 0 indicates that there is no predefined message size limit.
- For SMTP, this value is the value that is configured for the MessageSize parameter of the TargetServer statement. For details, see the TargetServer statement information in [z/OS Communications Server: IP Configuration Reference](#)

STARTTLS

Indicates that the target server has acknowledged that it is capable of establishing secure connections.

- For ESMTP see the information that describes using Transport Layer Security TLS in [z/OS Communications Server: IP Configuration Guide](#) for details.
- For SMTP this is always set to NO.

MAIL ATTEMPTS

The total number of mail messages that CSSMTP has sent or has attempted to send to the target server.

Tip: A single mail message operation can be attempted on multiple target servers.

MAIL SENT

The number of mail messages that were sent successfully for this target server.

Tip: A single mail message that contains multiple recipients can be sent successfully on multiple target servers.

CONNECT FAIL

Count of the number of SMTP connections that the application was unable to establish when it attempted to send mail to a target server.

Example 7: The MODIFY DISPLAY,TARGETS,ADDR=x.x.x.x command displays the global and specific information related to sending e-mail to a specific target server.

```
F CSSMTP , DIS , TARGETS , ADDR=1 . 1 . 1 . 1
```

```

EZD1831I CSSMTP TARGETS:
GLOBAL INFORMATION:
MAIL SENT : 24                LONG RETRY    : 0
DEADLETTER: 0                UNDELIVERABLE: 0
TARGET SERVER 1.1.1.1
STATE      : ACTIVE
ESMTP     : YES              MESSAGE SIZE : 20000000
STARTTLS  : NO              MAIL ATTEMPTS: 24
MAIL SENT : 24              CONNECT FAIL  : 0

```

Example 8: The MODIFY LOGLEVEL,LEVEL=15 command requests the CSSMTP application to change the logging level to 15. The EZD1809I message indicates that the logging level was updated successfully.

```

F CSSMTP , LOGLEVEL , LEVEL=15
EZD1809I CSSMTP1 MODIFY LOGLEVEL COMMAND COMPLETED : UPDATED

```

Example 9: The MODIFY REFRESH command requests that the CSSMTP application reprocess the configuration file. The following messages indicate that the configuration was updated successfully with no errors.

```

F CSSMTP , REFRESH
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED

EZD1840I CSSMTP UPDATED CONFIGURATION
EZD1846I CSSMTP UPDATED TARGET SERVERS
EZD1848I CSSMTP MODIFY REFRESH COMMAND COMPLETED

```

Result: If an update to the TestMode value is detected during a dynamic refresh, the CSSMTP application continues to run with the old TestMode value and a warning message is written to the log and console.

Example 10: The MODIFY REFRESHIPLIST command requests that the CSSMTP application perform a dynamic DNS refresh of the TargetName or TargetMx field. The following messages indicate that the target server addresses were successfully updated.

```

F CSSMTP , REFRESHIPLIST
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1845I CSSMTP UPDATED TARGET SERVERS
EZD1842I CSSMTP MODIFY REFRESHIPLIST COMMAND COMPLETED

```

Example 11: The MODIFY FLUSHRETRY,TKID=0 command initiates a request to move all mail that is in the long-retry queue to the send queue.

The following messages indicate that all mail messages have been moved from the long-retry queue to the send queue.

```

F CSSMTP , FLUSHRETRY , TKID=0
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1810I CSSMTP MODIFY FLUSHRETRY,TKID=0 COMMAND COMPLETED

```

Example 12: The MODIFY FLUSHRETRY command initiates a request to move all mail for TKID 2 from the long-retry queue to the send queue.

The following messages indicate that all mail messages for TKID 2 have been moved from the long-retry queue to the send queue.

```

F CSSMTP , FLUSHRETRY , TKID=2
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1810I CSSMTP MODIFY FLUSHRETRY,TKID=2 COMMAND COMPLETED

```

Example 13: The MODIFY REFRESHTARGETS command reinitiates a connection to all target servers.

The following messages indicate that the CSSMTP application completed this request.

F CSSMTP, REFRESHTARGETS

```
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1821I CSSMTP ABLE TO USE TARGET SERVER 9.1.1.1
```

Example 14: The MODIFY RESUME command resumes processing of any JES spool files when processing was suspended using the MODIFY SUSPEND operator command.

The following messages indicate that the CSSMTP application will start processing any JES spool files.

F CSSMTP, RESUME

```
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1814I CSSMTP MODIFY RESUME COMMAND COMPLETED
```

Example 15: The MODIFY SUSPEND command suspends the reading of mail messages immediately for all JES spool files.

The following messages indicate that the CSSMTP application has suspended the processing of mail messages for all JES spool files.

F CSSMTP, SUSPEND

```
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1822I CSSMTP MODIFY SUSPEND IMMEDIATE COMMAND COMPLETED
```

Example 16: The MODIFY FLUSHRETRY,AGE=0 command initiates a request to move all the mails that are in the extended retry queue to the send queue.

The following messages indicate that all mail messages have been moved from the extended retry queue to the send queue.

F CSSMTP, FLUSHRETRY, AGE=0

```
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1823I CSSMTP MODIFY FLUSHRETRY,AGE=0 COMMAND COMPLETED
```

Example 17: The MODIFY FLUSHRETRY,AGE=2 command initiates a request to move all mail messages that have been in the extended retry queue for more than two days from the extended retry queue to the send queue.

The following messages indicate that all the extended retry mail messages that are older than two days have been moved from the extended retry queue to the send queue.

F CSSMTP, FLUSHRETRY, AGE=2

```
EZD1834I CSSMTP MODIFY COMMAND ACCEPTED
EZD1823I CSSMTP MODIFY FLUSHRETRY,AGE=2 COMMAND COMPLETED
```

Chapter 5

z/OS Summary of Message and Interface Changes

Topics:

- [Communications Server interface changes for z/OS V2R3](#)

Communications Server interface changes for z/OS V2R3

This topic describes the Communications Server interface changes for z/OS V2R3.

Communications Server IP interface changes

This topic describes the Communications Server IP interfaces.

General updates for the non-PROFILE.TCPIP IP configuration files

[Table 4: New and changed non-PROFILE.TCPIP configuration files for z/OS V2R3](#) on page 38 lists the general updates for the Communications Server IP configuration files.

Table 4: New and changed non-PROFILE.TCPIP configuration files for z/OS V2R3

This table has three columns, with headings: File; Statement / Entry; and Description

File	Statement / Entry	Description	Reason for change
Communications Server SMTP (CSSMTP) configuration file	ReportMailFrom	ReportMailFrom is an optional parameter that specifies the mailbox to use in the Mail From field in error reports.	SMTPD compatibility enhancements for CSSMTP (APAR PH18237)
	ReportSysoutClass	The ReportSysoutClass is an optional parameter that specifies the SYSOUT class used for error reports.	SMTPD compatibility enhancements for CSSMTP (APAR PH18237)
	MailBoxCompatibility	The MailBoxCompatibility is an optional parameter to state the size of the mail box (Standard 64 characters or Long 256 characters).	SMTPD compatibility enhancements for CSSMTP (APAR PH18237)
	OPTIONS <ul style="list-style-type: none"> • AtSign • TLSEhlo TargetServer: Charset	<ul style="list-style-type: none"> • The AtSign option is used to specify the at sign symbol that is used in SMTP mail message commands and headers. • The TLSEhlo option is used for requesting an EHLO SMTP command after successful TLS negotiation. • The code page is used by target server to translate mail messages. 	<ul style="list-style-type: none"> • CSSMTP customizable ATSIGN character for mail addresses • Improved CSSMTP TLS compatibility with mail servers • Improved CSSMTP code page compatibility with target servers

File	Statement / Entry	Description	Reason for change
	MBCS TargetServer: MBCharset	<ul style="list-style-type: none"> The MBCS statement is used to specify whether or not CSSMTP supports multi-byte character sets. The multi-byte code page used by the target server to translate mail messages. 	<ul style="list-style-type: none"> Code page enhancements for CSSMTP (APAR PI93278) Code page enhancements for CSSMTP (APAR PI93278)
ezatmail.cf	N/A	New configuration file for sendmail to CSSMTP bridge. See z/OS Communications Server: IP Configuration Reference for more information.	sendmail to CSSMTP bridge

General updates of IP operator commands

Table 5: New and changed Communications Server operator commands for z/OS V2R3 on page 39 lists the new and updated Communications Server IP operator commands, **except** the Netstat operator command DISPLAY TCPIP,,NETSTAT and the Telnet operator commands. See the following tables for those commands:

- [Table 1](#), IP Netstat operator commands (DISPLAY TCPIP,,NETSTAT)
- [TN3270E Telnet server operator commands](#), Telnet operator commands

Table 5: New and changed Communications Server operator commands for z/OS V2R3

New and changed Communications Server operator commands for z/OS V2R3

Command	Parameters	Description	Reason for change
DISPLAY TCPIP,,HELP	EXPORTPROF	New parameter that provides a help message for the new VARY TCPIP,,EXPORTPROF command syntax.	z/OS Configuration Assistant for Communications Server support for import of TCP/IP configuration
DISPLAY TCPIP,,STOR	N/A	Displays the 64-bit storage that is allocated for Shared Memory Communications - Direct Memory Access (SMC-D) processing.	Shared Memory Communications - Direct Memory Access
MODIFY CSSMTP	DISPLAY CONFIG	Display the new values for ReportMailFrom, ReportSysoutClass, and MailBoxCompatibility statements	SMTPD compatibility enhancements for CSSMTP (APAR PH18237)
		Display the new Charset parameter on the TargetServer statement	Improved CSSMTP code page compatibility with target servers
		Display the new AtSign parameter of Options statement	CSSMTP customizable ATSIGN character for mail addresses
		Display the new TLSEhlo parameter of Options statement	Improved CSSMTP TLS compatibility with mail servers
MODIFY CSSMTP	DISPLAY CONFIG	Display the new MBCS statement and MBCharset parameter on the TargetServer statement	Code page enhancements for CSSMTP (APAR PI93278)
Modify <i>smtpproc</i> ,MSG	N/A	This command is no longer supported.	Removal of SMTPD & Sendmail

Command	Parameters	Description	Reason for change
VARY TCPIP,,EXPORTPROF	N/A	New command used to export a TCP/IP stack profile for use by the Configuration Assistant.	z/OS Configuration Assistant for Communications Server support for import of TCP/IP configuration

Samples provided in MVS data set SEZAINST

Table 6: IP samples provided in MVS data set SEZAINST for z/OS V2R3 on page 40 lists the changes to the samples that are provided in MVS™ data set SEZAINST.

Table 6: IP samples provided in MVS data set SEZAINST for z/OS V2R3

This table has two columns, with headings: Member and Description

Member	Description	Reason for change
CSSMTPCF	<p>This CSSMTP sample configuration file is updated to add information about ReportMailFrom, ReportSystoutClass, and MailBoxCompatibility.</p> <p>This CSSMTP sample configuration file is updated to add information about AtSign, TLSEhlo, and CharSet.</p> <p>This CSSMTP sample configuration file is updated to add information about MBCS and MBCharset.</p>	<p>SMTPD compatibility enhancements for CSSMTP (APAR PH18237)</p> <p>CSSMTP mail compatibility enhancements</p> <p>Code page enhancements for CSSMTP (APAR PI93278)</p>
EZARACF	New MVS.VARY.TCPIP.EXPORTPROF resource in the OPERCMDS class is provided for the new VARY TCPIP, , EXPORTPROF command.	z/OS Configuration Assistant for Communications Server support for import of TCPIP configuration
EZBMCOPY	This sample program for testing the compatibility between SMTPD and CSSMTP is removed. Since SMTPD is removed, EZBMCOPY is no longer needed.	Removal of SMTPD & sendmail
SAMPPROF	Removed examples of defining the following device and link types that are no longer supported: <ul style="list-style-type: none"> MPCOSA FDDI and IBMTR links under LCS device type 	Removal of support for legacy devices
	SMTPD is removed from the AUTOLOG and PORT statements.	Removal of SMTPD & sendmail
sendmail	This sample procedure for sendmail is removed. sendmail is no longer supported.	Removal of SMTPD & sendmail
SMTPCONF	This sample configuration file for the SMTPD application is removed. SMTPD is no longer supported.	Removal of SMTPD & sendmail
SMTPPROC	This sample procedure for the SMTPD application is removed. SMTPD is no longer supported.	Removal of SMTPD & sendmail

Member	Description	Reason for change
SMTPEXIT	This sample exit program for the SMTPD application is removed. SMTPD is no longer supported.	Removal of SMTPD & sendmail
TFTPD	This sample procedure for the TFTPD application is removed. TFTPD is no longer supported.	Removal of TFTPD daemon

