CA OPS/MVS® Event Management and Automation

Quick Reference
Release 12.0
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CA Technologies Product References

This document referenced the following CA products:

- CA OPS/MVS® Event Management and Automation (CA OPS/MVS)
- CA SYSVIEW® Performance Management (CA SYSVIEW)

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Chapter 1: About This Guide

This Quick Reference provides both new and experienced users with a visual reminder of the most commonly used menus, commands, and actions. It will help new CA OPS/MVS users become more productive with CA OPS/MVS more quickly.

Additional information about the topics presented in this reference can be found in the following CA OPS/MVS guides:

- AOF Rules User Guide
- Command and Function Reference
- OPSVIEW User Guide
- Parameter Reference
- User Guide
Chapter 2: Common OPSVIEW Menus

To quickly navigate the OPSVIEW menus, use the ISPF jump function followed by the option specification. For example, enter =2.1 to jump to the AOF Edit menu. The following table provides jumps to the most frequently used OPSVIEW menus:

### AOF

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=2.1</td>
<td>AOF Edit</td>
<td>Edit and test AOF rules before putting them into production</td>
</tr>
<tr>
<td>=2.2</td>
<td>AOF Compile</td>
<td>Maintain the AOF test compiled rules library</td>
</tr>
<tr>
<td>=4.5.1</td>
<td>AOF Control</td>
<td>Control your production rules and rule sets</td>
</tr>
<tr>
<td>=4.5.3</td>
<td>AOF Enabled</td>
<td>Create an interactive list of enabled rules</td>
</tr>
</tbody>
</table>

### Editors

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=2.1</td>
<td>AOF Edit</td>
<td>Edit and test AOF rules before putting them into production</td>
</tr>
<tr>
<td>=2.2</td>
<td>AOF Compile</td>
<td>Maintain the AOF test compiled rules library</td>
</tr>
<tr>
<td>=2.3</td>
<td>Easy Rule</td>
<td>Create or modify rules using panels</td>
</tr>
<tr>
<td>=2.4</td>
<td>REXX Edit</td>
<td>Edit, compile, and test REXX programs</td>
</tr>
<tr>
<td>=2.6</td>
<td>Table Edit</td>
<td>Create and edit tables used by the Relational Data Framework (RDF)</td>
</tr>
</tbody>
</table>

### Product Control

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=4.1.1</td>
<td>Product Parameters</td>
<td>View and modify parameter settings</td>
</tr>
<tr>
<td>=4.3</td>
<td>OSF Information</td>
<td>View detailed execution statistics from the OSF panel</td>
</tr>
<tr>
<td>=4.5.1</td>
<td>AOF Control</td>
<td>Control your production rules and rule sets</td>
</tr>
<tr>
<td>=4.5.3</td>
<td>AOF Enabled</td>
<td>Create an interactive list of enabled rules</td>
</tr>
<tr>
<td>=4.6</td>
<td>Start the Main Product</td>
<td>Start CA OPS/MVS</td>
</tr>
<tr>
<td>=4.8</td>
<td>Global Variables</td>
<td>Control global variables</td>
</tr>
<tr>
<td>=4.11.1</td>
<td>SSM Control</td>
<td>Set and display SSM parameters and resource tables</td>
</tr>
</tbody>
</table>
## Messages

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=5.5</td>
<td>Message ID Lookup</td>
<td>Display information about CA OPS/MVS and SOF messages</td>
</tr>
</tbody>
</table>

## Product Levels

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=5.6</td>
<td>Product Releases</td>
<td>Display product releases</td>
</tr>
</tbody>
</table>

## Utilities

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=7.1</td>
<td>OPSLOG Utilities</td>
<td>Browse or restore archived OPSLOGs</td>
</tr>
<tr>
<td>=7.2</td>
<td>Automation Analyzer</td>
<td>Analyze the messages in an OPSLOG</td>
</tr>
<tr>
<td>=7.5</td>
<td>Global Variable Backup</td>
<td>Create a backup copy of your global variables</td>
</tr>
<tr>
<td>=I.3</td>
<td>ISPF Utility Selection</td>
<td>Use the ISPF utility selection panel</td>
</tr>
</tbody>
</table>

## Primary Access

<table>
<thead>
<tr>
<th>Jump</th>
<th>Menu</th>
<th>Lets You...</th>
</tr>
</thead>
<tbody>
<tr>
<td>=I</td>
<td>ISPF/PDF</td>
<td>Use the ISPF/PDF services</td>
</tr>
<tr>
<td>=S</td>
<td>SYSVIEW</td>
<td>Access the CA SYSVIEW Performance Management product</td>
</tr>
</tbody>
</table>
Chapter 3: Host Commands

This section contains frequently used host commands. The default keywords are underscored.

ADDRESS OPER—Perform Automated Tasks

Use the ADDRESS OPER host environment to perform automated tasks with your CA OPS/MVS AOF rules and OPS/REXX programs. These tasks include issuing z/OS, JES, subsystem, or product specific commands.

ADDRESS OPER "keywords"

/* optional keywords            */
BMPCMDOUT(OPSLOG|WTO|NONE)
COMMAND(text)
CAPTURE(msgtextlist)
CMDECHO(YES|NO)
CMDLOG(YES|NO)
CMDWAIT(seconds)
CONTYPE(ANY|EXTCONS|MIGCONS|SSCONS)
DELAY(seconds)
IMSID(imsid)
IMSRPLY
INTERVAL(censeconds)
LOCALONLY
LOG(YES|NO|OFF)
MAXCMDOUT(number)
NAME|CONNAME(consolename)
OUTPUT|NOOUTPUT
PROPRESP
STOPEND(YES|NO)
STOPMSG(msgtextlist)
STOPRESP(msgtextlist)
SYSID|SYSTEM(systemids)
SYSWAIT(seconds)
WAIT(seconds)
Use the ADDRESS OPSCTL commands to control the ECF, MSF, COF, and OSF components.

- **ECF Component**
  - **ECF LIST**
    Returns information about each ECF user logged onto a console.

- **MSF Component**
  - **MSF DEFAULT**
    Specifies a default system name and system wait value for the currently executing REXX program or rule.
  - **MSF START**
    Tells CA OPS/MVS to initialize the MSF on the local MSF system.
  - **MSF STOP**
    Instructs the local copy of CA OPS/MVS to end its sessions with the remote CA OPS/MVS copies.

- **MSF and COF Components**
  - **MSF|COF ACTIVATE**
    Causes MSF to activate a VTAM session with MSF on another system.
    Associates a transient data queue and the COF.
  - **MSF|COF DEACTIVATE**
    Ends the MSF session between the local and remote copies.
    Ends the association between a transient data queue and the COF.
  - **MSF|COF DEFINE**
    Defines to the MSF the systems it can communicate with.
    Defines to COF a list of CICS transient data queue names to be selected for AOF processing.
  - **MSF|COF DELETE**
    Deletes MSF or COF defined resources.
  - **MSF|COF LIST**
    Displays all MSF or COF resources currently defined and their status.

**Note:** You can permanently add queues to the CICS Operations Facility using ADDRESS OPSCTL COF commands in an AOF rule or an OPS/REXX program.
■ OSF Component

**OSF EXECSTATS**

Returns performance information about the OSF server.

**OSF LIST**

Returns information about active servers to the external data queue.

**OSF QUEUES**

Returns status and historical information about the server execution queue to the external data queue.

**OSF RESETQ**

Discards all pending commands waiting on the OSF execute queue.

**OSF STOP nnnn**

Stops the specified server.

■ OPSLOG Component

**DEFINE**

Defines a new OPSLOG.

**ACTIVATE**

Makes an OPSLOG active.

**SETLIVE**

Makes a previously active OPSLOG the live log.

**RESET**

Empties an active OPSLOG of data content and resets the message number (MSGNO) back to zeroes. This cannot be the live log.

**LIST**

Lists all defined OPLOGs.

**DEACTIVATE**

Changes the status of a currently activated OPSLOG back to defined.

**DELETE**

Deletes an OPSLOG definition.
Examples: ADDRESS OPSCTL COF Define, Activate, and List Commands

- To create a list of CICS transient data queue names, use the following ADDRESS OPSCTL COF DEFINE command:

  ADDRESS OPSCTL "COF DEFINE keywords"
  JOBNAME(jobname)
  /* optional keywords */
  STEPNAME(stepname|taskid)
  STATUS
  DESTIDS(destidlist)
  OUTPUT|NOOUTPUT
  SYSTEM(sysname)
  SYSWAIT(seconds)

- To add the specified transient data queue names to any destination list that matches the selection criteria, use the following ADDRESS OPSCTL COF ACTIVATE command:

  ADDRESS OPSCTL "COF ACTIVATE keywords"
  JOBNAME(jobname)
  /* optional keywords */
  STEPNAME(stepname|taskid)
  STATUS(ACTIVE|INACTIVE)
  DESTIDS(destidlist)
  OUTPUT|NOOUTPUT
  SYSTEM(sysname)
  SYSWAIT(seconds)

- To display the contents of any transient data destination list that matches the selection criteria, use the following ADDRESS OPSCTL COF LIST command:

  ADDRESS OPSCTL "COF LIST keywords"
  JOBNAME(jobname)
  /* optional keywords */
  STEPNAME(stepname|taskid)
  STATUS(ACTIVE|INACTIVE)
  OUTPUT|NOOUTPUT
  SYSTEM(sysname)
  SYSWAIT(seconds)
  SUMMARY
Example: Define Multiple MSF Links between Systems

The following example defines multiple MSF links between systems. One link uses CA OPS/MVS native APPC session protocol. The second link uses CCI and it's session protocol, which could be XES, XCF, or TCP/IP.

ADDRESS OPSCTL
IF SYSID = OPS11L
THEN DO
   "MSF DEFINE MSFID(OPS11L) APPLID(A11IOPSL)" /* local */
   "MSF DEFINE MSFID(OPS31L) APPLID(A31SENF) CCI" /* remote CCI */
   "MSF DEFINE MSFID(OPS31LVT) APPLID(A31IOPSL) APPC" /* remote APPC */
END

IF SYSID = OPS31L
THEN DO
   "MSF DEFINE MSFID(OPS31L) APPLID(A31IOPSL)" /* local */
   "MSF DEFINE MSFID(OPS11L) APPLID(A11SENF) CCI" /* remote CCI */
   "MSF DEFINE MSFID(OPS11LVT) APPLID(A11IOPSL) APPC" /* remote APPC */
END

Note: The MSFID for the CCI DEFINE must match the local MSFID for the remote system.
STATESET Command—Set the State for a Resource

Use the STATESET command to change the current state and desired state values specified for a resource.

STATESET (keywords)

/* Specify one of the following required keywords. */

tablename.resourcename
resourcename

/* optional keywords */

ACTMODE(mode)
CMDRESP(TERMINAL|NOWHERE|XDQ)
CURRENT(currentstate)
DESIRED(desiredstate)
MODE(mode)
PREMODE(mode)
PREREQ(prereqstate)
REFMODE(mode)
SUBREQ(subreqstate)
SUBSYS(OPSS,ssid)
SYSTEM(msfids)
SYSWAIT(seconds)
TNGNOTIFY(ALWAYS|NEVER)
WAIT(0,seconds)

Examples: STATESET command

- Set the state of all resources that depend on VTAM to down:
  STATESET VTAM SUBREQ(DOWN)

- List the current and desired states, and the mode of VTAM:
  STATESET VTAM

- Change the state of VTAM to down:
  STATESET VTAM DESIRED(DOWN)

Examples: STATESET command invoked from REXX, TSO, and UNIX REXX environments

- Invoke from a REXX program using an AOF rule or automation procedure in either TSO/E REXX or OPS/REXX:
  CALL 'STATESET' resourcename [options]

- Invoke from a TSO environment using the CA OPS/MVS OI command:
  OI STATESET resourcename [options]
Invoke from the TSO command line, such as ISPF option 6 or TSO Ready mode:

`STATESET resourcename [options]`

Invoke from a UNIX REXX statement:

`Address H "tso 'OI STATESET STCTBL.CICSUS$ CURRENT(DOWN)''"`

---

**ADDRESS SQL—Create and Maintain SQL Tables**

Use the ADDRESS SQL host environment to create and maintain SQL tables in the CA OPS/MVS RDF component. You invoke an SQL statement from an AOF rule or an OPS/REXX program.

**ADDRESS SQL**

`sqlstatement`

SQL Statements:

- ALTER TABLE
- CLOSE
- CREATE TABLE
- DECLARE CURSOR
- DELETE FROM
- DROP TABLE
- FETCH
- INSERT
- OPEN
- SELECT
- UPDATE

**Examples: ADDRESS SQL create and update table statements**

- To create a table named TESTTBL and insert two rows into it, use the following series of SQL statements:

  ```sql
  ADDRESS SQL
  CREATE TABLE TESTTBL (ACTION_NAME CHAR(17) NOT NULL PRIMARY KEY,
  ACTION_TYPE CHAR(8) NOT NULL PRIMARY KEY, ACTION_TEXT CHAR(200))
  ADDRESS SQL
  INSERT INTO TESTTBL (ACTION_NAME, ACTION_TYPE, ACTION_TEXT)
  VALUES ('UNKNOWN', 'TEST1', 'TSOCMD(OPSWTO TEXT(''UNKNOWN FIRED''))')
  ADDRESS SQL
  INSERT INTO TESTTBL (ACTION_NAME, ACTION_TYPE, ACTION_TEXT)
  VALUES ('DOWN_UP', 'TEST1', 'TSOCMD(OPSWTO TEXT(''DOWN_UP FIRED''))')
  ```
To change the current state, desired state, and mode values specified for a resource, invoke the following SQL UPDATE statement from a rule or OPS/REXX program:

ADDRESS SQL
"UPDATE tablename SET columnname = 'state' WHERE NAME = 'name'"

ADDRESS WTO—Issue WTO Messages

Use ADDRESS WTO instructions in any section of any type of rule to issue WTO messages.

To issue a single-line WTO message, use the following instructions:

ADDRESS WTO "TEXT('messagetext') keywords"
AREAILD(areaid)
CNID(consoleids)
CNNAME(consolenames)
DELAY(delaytime)
DESC(desccode)
HILITE|LOWLITE
MCSFLAGS(flagvalues)
MSGID(messageid)
NOLOG
OPTION(value)
REPLY
ROUTE(routeid)
SUBSYS(ssid)
SYSTEM(ALL|EXT|sysnames)
SYSWAIT(seconds)
TOKEN(dom token)
WAIT(waittime)
WTOID(wtoid)
To issue a multiline WTO message, use the following instructions:

ADDRESS WTO "TEXTVAR(stem-name) keywords"
AREAID(areaid)
CNID(consoleids)
CNNAME(consolenames)
DELAY(delaytime)
DESC(descode)
HILITE|LOWLITE
LINETYPE(linetype)
MCSFLAGS(flagvalues)
MSGID(messageid)
NOLOG
OPTION(value)
REPLY
ROUTE(routecode)
SUBSYS(ssid)
SYSTEM(ALL|EXT|sysnames)
SYSWAIT(seconds)
TOKEN(dom token)
WAIT(waittime)
WTOID(wtoid)
Chapter 4: OPSLOG Browse Primary Commands

Use the OPSLOG Browse primary commands to change the display format and navigate OPSLOG data.

To change the OPSLOG Browse display format, use the DISPLAY command

```
DISPLAY keyword
/* optional keywords */
```

ADDRESS, AFLAGS, ASID, AUTOTOKN, AUTOTOKX, COLOR, CONNAME, COUNT, DATE, DISP, DSNNAME, ELAPSEDTIME, EVENT, EVENTID, EXTYPE, FLGS, IMSID, IMSTYPE, JES3CLASS, JOBID, JOBNAME, JOBNM, LENGTH, MSFDEST, MSFID, MSGID, MSGNO, NONE, OPSFLAGS, RELEASE, ROUTE, ROUTEX, RULESET, SPECIAL, SYSID, SYSNAME, TERMNAME, TIME, TIMESTMP, TOKEN, USER, USERID, USERX, WTOID, and XCONID

To position the display at a specific event, use the LOCATE command

```
Locate evtnum|date|time|[date time]|[time date]|label
```

To locate character strings in event text, use the FIND command

```
FIND string|*
   FIRST|LAST|NEXT|PREV
startcol|startcol endcol
evtnum
```

To repeat the FIND command, use the RFIND command

```
RFIND
```

To place OPSLOG Browse in automatic update mode, use the GOMODE command

```
GOMODE seconds
```

To issue z/OS and JES commands from the OPSLOG Browse command line, use the OC and OPSCMD commands

```
OC
OPSCMD
```
To set or clear option values, use the PROFILE command

PROFILE

{criteria {newvalue1 {newvalue2 {newvalue3 {newvalue4}}}}}
LIST
SET {profid}
CLEAR

To exclude option values, use the PROFLEX command

PROFLEX

To access the OPSLOG of a remote system, use the SYSTEM command

SYSTEM sysname|?|*

To set the maximum number of seconds to wait for a response from a remote system, use the SYSWAIT command

SYSWAIT seconds
This section contains frequently used POI commands.

**OPSDOM—Delete an Operator Message**

Use the OPSDOM command processor to delete a message from the operator console.

```
OPSDOM
 (AMRFID(amrfid)|DOMID(domid)|TOKEN(tokenid)}
 [DELAY(seconds)]
 [SUBSYS(ssid)]
```

**OPSQL Command—Invoke SQL Statements**

Use the OPSQL command to invoke SQL statements from a TSO terminal, a TSO CLIST, or a TSO/E REXX program.

```
OPSQL statement
```
Examples: OPSQL Statements

- To create a relational table named DAILY_SCHEDULE, use the following TSO CLIST:

```plaintext
PROC 0
CONTROL MSG CONLIST SYMLIST
  OPSQL   CREATE TABLE DAILY_SCHEDULE                 +
   (NAME         CHAR(8) NOT NULL PRIMARY KEY,      +
   EVENT        CHAR(4) NOT NULL,                  +
   TYPE         CHAR(1) UPPER CASE,                +
   STATUS       CHAR(1) UPPER CASE,                +
   SCHED_DATE   DATE,                              +
   SCHED_TIME   TIME,                              +
   REPEAT_TIME  TIME,                              +
   RUN_DATE     DATE,                              +
   RUN_TIME     TIME,                              +
   END_DATE     DATE,                              +
   END_TIME     TIME,                              +
   MAX_CC       CHAR(4),                           +
   PREREQ1      CHAR(20),                          +
   PRETYPE1     CHAR(1),                           +
   PREREQ2      CHAR(20),                          +
   PRETYPE2     CHAR(1),                           +
   PREREQ3      CHAR(20),                          +
   PRETYPE3     CHAR(1)) SUB(OPSF)
  WRITE &SQLCODE
  WRITE &SYSOUTLINE
  WRITE &LASTCC
```

- To change the current state, desired state, and mode values specified for a resource, invoke a CLIST or REXX program that contains the following clause:

```plaintext
OPSQL UPDATE tablename SET columnname = 'state' WHERE NAME = 'name'
```