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**Note**

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For information about other CLI commands that are not listed in this document, see the [Cisco Unity Express Command Reference for 3.0 and Later Versions](#).

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**trace**

# trace

To view trace messages, use the **trace** command in Cisco UMG EXEC mode.

**trace** {module {entity {activity}}}

## Syntax Description

|                 |                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>module</i>   | Trace module values. Can be any combination of the values listed in <a href="#">Table 9</a> . Entering <b>all</b> gives information for all the modules.                                                                                      |
| <i>entity</i>   | Entity values. Each module has one or more entity values associated with it. Can be any combination of the values for that particular module. See <a href="#">Table 9</a> . Entering <b>all</b> gives information for all the entities.       |
| <i>activity</i> | Activity values. Each entity has one or more activity values associated with it. Can be any combination of the values for that particular entity. See <a href="#">Table 9</a> . Entering <b>all</b> gives information for all the activities. |

[Table 9](#) lists all the modules, entities, and activities.

**Table 9** *Module, Entity, and Activity Values*

| Module Name | Entity Name    | Activity Name  | Description                                                            |
|-------------|----------------|----------------|------------------------------------------------------------------------|
| aaa         | authorization  | jaas           | Used for authentication, authorization, and accounting (AAA) debugging |
|             |                | pam            |                                                                        |
|             | authentication | jaas           |                                                                        |
|             |                | pam            |                                                                        |
|             | acct           | service        |                                                                        |
|             |                | queue          |                                                                        |
|             |                | library        |                                                                        |
| dns         | cache          | daemon         | Domain Name Service (DNS) debugging                                    |
|             |                | localzone      |                                                                        |
|             |                | startup        |                                                                        |
|             |                | ethconfig      |                                                                        |
|             | enablecheck    | dns_check      |                                                                        |
|             |                | debug          |                                                                        |
|             |                | ipv4_check     |                                                                        |
|             |                | hostname_check |                                                                        |
|             |                | results        |                                                                        |
|             |                | dns_query      |                                                                        |
|             | resolver       | send           |                                                                        |
|             |                | receive        |                                                                        |
|             | server         | ask            |                                                                        |
|             |                | answer         |                                                                        |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name  | Entity Name   | Activity Name       | Description                                 |
|--------------|---------------|---------------------|---------------------------------------------|
| management   | agent         | debug               | Management debugging                        |
| um2          | store         | attributes          | User manager 2 (users and groups) debugging |
|              |               | privilege           |                                             |
|              |               | group               |                                             |
|              |               | users               |                                             |
|              | manager       | search              |                                             |
|              |               | attributes          |                                             |
|              |               | groups              |                                             |
|              |               | users               |                                             |
|              |               | privileges          |                                             |
|              |               | event               |                                             |
|              |               | security            |                                             |
|              |               | factory             |                                             |
| webInterface | group         | save                | Cisco UMG GUI debugging                     |
|              |               | delete              |                                             |
|              |               | read                |                                             |
|              | user          | save                |                                             |
|              |               | delete              |                                             |
|              |               | read                |                                             |
|              | aaa           | read                |                                             |
|              | privileges    | action              |                                             |
|              | axl           | delete              |                                             |
|              |               | post                |                                             |
|              |               | read                |                                             |
|              | backupRestore | serverConfiguration |                                             |
|              |               | restore             |                                             |
|              |               | backup              |                                             |
|              | controller    | startup             |                                             |
|              |               | request             |                                             |
|              | session       | login               |                                             |
|              |               | logout              |                                             |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name                 | Entity Name | Activity Name | Description                             |
|-----------------------------|-------------|---------------|-----------------------------------------|
| webInterface<br>(continued) | sysdb       | get           | Cisco UMG GUI debugging<br>(continued)  |
|                             |             | set           |                                         |
|                             |             | providerStart |                                         |
|                             |             | providerGet   |                                         |
|                             |             | providerStop  |                                         |
|                             |             | providerSet   |                                         |
|                             | database    | query         |                                         |
|                             |             | connection    |                                         |
|                             |             | results       |                                         |
| sysdb                       | producer    | nodeDetach    | Interprocess communication<br>debugging |
|                             |             | nodeAttach    |                                         |
|                             |             | timeLimit     |                                         |
|                             |             | nodeHandle    |                                         |
|                             |             | mkdir         |                                         |
|                             |             | attrCreate    |                                         |
|                             |             | attrDelete    |                                         |
|                             |             | rmdir         |                                         |
|                             | lock        | acquire       |                                         |
|                             |             | release       |                                         |
|                             |             | wait          |                                         |
|                             | traversal   | directory     |                                         |
|                             |             | attribute     |                                         |
|                             |             | node          |                                         |
|                             | misc        | allocation    |                                         |
|                             | provider    | stop          |                                         |
|                             |             | other         |                                         |
|                             |             | events        |                                         |
|                             |             | deadline      |                                         |
|                             |             | get           |                                         |
|                             |             | startup       |                                         |
|                             |             | commit        |                                         |
|                             |             | check         |                                         |
|                             | utility     | metaInfo      |                                         |
|                             |             | dealloc       |                                         |
|                             |             | chdir         |                                         |
|                             |             | nameLookup    |                                         |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name       | Entity Name | Activity Name | Description                                      |
|-------------------|-------------|---------------|--------------------------------------------------|
| sysdb (continued) | consumer    | set           | Interprocess communication debugging (continued) |
|                   |             | get           |                                                  |
|                   |             | nameLookup    |                                                  |
| limitsManager     | vmcapacity  | xdebug        | System limits debugging                          |
|                   |             | debug         |                                                  |
|                   |             | info          |                                                  |
|                   |             | warning       |                                                  |
|                   |             | crash         |                                                  |
|                   |             | error         |                                                  |
|                   | platform    | xdebug        |                                                  |
|                   |             | debug         |                                                  |
|                   |             | info          |                                                  |
|                   |             | warning       |                                                  |
|                   |             | crash         |                                                  |
|                   |             | error         |                                                  |
|                   | cli         | xdebug        |                                                  |
|                   |             | debug         |                                                  |
|                   |             | info          |                                                  |
|                   |             | warning       |                                                  |
|                   |             | crash         |                                                  |
|                   |             | error         |                                                  |
|                   | api         | xdebug        |                                                  |
|                   |             | debug         |                                                  |
|                   |             | info          |                                                  |
|                   |             | warning       |                                                  |
|                   |             | crash         |                                                  |
|                   |             | error         |                                                  |
|                   | sysdb       | xdebug        |                                                  |
|                   |             | debug         |                                                  |
|                   |             | info          |                                                  |
|                   |             | warning       |                                                  |
|                   |             | crash         |                                                  |
|                   |             | error         |                                                  |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name                  | Entity Name | Activity Name | Description                            |
|------------------------------|-------------|---------------|----------------------------------------|
| limitsManager<br>(continued) | port        | xdebug        | System limits debugging<br>(continued) |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |
|                              | language    | xdebug        |                                        |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |
|                              | vmport      | xdebug        |                                        |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |
|                              | license     | xdebug        |                                        |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |
|                              | utilities   | xdebug        |                                        |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |
|                              | ivr         | xdebug        |                                        |
|                              |             | debug         |                                        |
|                              |             | info          |                                        |
|                              |             | warning       |                                        |
|                              |             | crash         |                                        |
|                              |             | error         |                                        |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name                  | Entity Name | Activity Name   | Description                            |
|------------------------------|-------------|-----------------|----------------------------------------|
| limitsManager<br>(continued) | vmmbox      | xdebug          | System limits debugging<br>(continued) |
|                              |             | debug           |                                        |
|                              |             | info            |                                        |
|                              |             | warning         |                                        |
|                              |             | crash           |                                        |
|                              |             | error           |                                        |
|                              | histrep     | xdebug          |                                        |
|                              |             | debug           |                                        |
|                              |             | info            |                                        |
|                              |             | warning         |                                        |
|                              |             | crash           |                                        |
|                              |             | error           |                                        |
|                              | feature     | xdebug          |                                        |
|                              |             | debug           |                                        |
|                              |             | info            |                                        |
|                              |             | warning         |                                        |
|                              |             | crash           |                                        |
|                              |             | error           |                                        |
|                              | mainthread  | xdebug          |                                        |
|                              |             | debug           |                                        |
|                              |             | info            |                                        |
|                              |             | warning         |                                        |
|                              |             | crash           |                                        |
|                              |             | error           |                                        |
| operation                    | manager     | ucid            | Command authorization debugging        |
|                              |             | operation       |                                        |
| license                      | debug       | core_errors     | CSL debugging                          |
|                              |             | events          |                                        |
|                              |             | core_events     |                                        |
|                              |             | ipc             |                                        |
|                              |             | errors          |                                        |
|                              |             | agent_info      |                                        |
|                              |             | agent_error     |                                        |
|                              |             | agent_all       |                                        |
|                              |             | core_all        |                                        |
|                              | monitor     | monitor-license |                                        |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name   | Entity Name    | Activity Name  | Description                                      |
|---------------|----------------|----------------|--------------------------------------------------|
| BackupRestore | BackupRestore  | CONF           | Backup and restore debugging                     |
|               |                | SERVER         |                                                  |
|               |                | INIT           |                                                  |
|               |                | OPERATION      |                                                  |
|               |                | HISTORY        |                                                  |
| dbclient      | debug          | level0         | Database client debugging                        |
|               |                | level1         |                                                  |
|               |                | level2         |                                                  |
|               |                | level3         |                                                  |
|               |                | level4         |                                                  |
|               |                | level5         |                                                  |
|               | sysdb          | set            |                                                  |
|               |                | get            |                                                  |
|               |                | commit         |                                                  |
|               | database       | transaction    |                                                  |
|               |                | query          |                                                  |
|               |                | garbageCollect |                                                  |
|               |                | connection     |                                                  |
|               |                | largeobject    |                                                  |
|               |                | mgmt           |                                                  |
|               |                | execute        |                                                  |
|               |                | results        |                                                  |
| superthread   | main           | startup        | Core Java services debugging                     |
|               | parser         | parse          |                                                  |
| snmp          | JNI            | Net-SNMP       | SNMP debugging                                   |
|               | agent          | debug          |                                                  |
| rest          | base_resources | info           | Common REST interface debugging                  |
|               |                | warn           |                                                  |
|               |                | error          |                                                  |
|               | common         | info           |                                                  |
|               |                | warn           |                                                  |
|               |                | error          |                                                  |
| security      | policy         | password       | PIN and password authentication policy debugging |
|               |                | pin            |                                                  |



**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name | Entity Name  | Activity Name | Description                                                   |
|-------------|--------------|---------------|---------------------------------------------------------------|
| umg         | direx        | receiver      | Cisco UMG VPIM directory exchange debugging                   |
|             |              | sender        |                                                               |
|             |              | message       |                                                               |
|             |              | mgmt          |                                                               |
|             |              | scheduler     |                                                               |
|             |              | processor     |                                                               |
|             | translation  | CACHE         | Cisco UMG VPIM translation rule debugging                     |
|             |              | RULE          |                                                               |
|             | db           | query         | Cisco UMG VPIM database debugging                             |
|             |              | connection    |                                                               |
|             | routing      | gateway       | Cisco UMG VPIM network message routing debugging              |
|             |              | spool         |                                                               |
|             |              | route         |                                                               |
|             |              | sender        |                                                               |
|             |              | monitor       |                                                               |
|             | system       | cli           | Cisco UMG VPIM CLI debugging                                  |
|             | sdl          | servlet       | Cisco UMG VPIM system distribution list debugging             |
|             |              | cli           |                                                               |
|             |              | messaging     |                                                               |
|             | smtp         | debug         | Cisco UMG VPIM SMTP service debugging                         |
|             |              | wire          |                                                               |
|             |              | error         |                                                               |
|             | global       | 0_crash       | Cisco UMG VPIM global settings debugging                      |
|             |              | 1_error       |                                                               |
|             |              | 2_warn        |                                                               |
|             |              | 3_debug       |                                                               |
|             |              | 4_info        |                                                               |
|             | lookup       | request       | Cisco UMG VPIM lookup debugging                               |
|             | registration | 0_crash       | Cisco UMG VPIM remote voicemail system registration debugging |
|             |              | 1_error       |                                                               |
|             |              | 2_warn        |                                                               |
|             |              | 3_debug       |                                                               |
|             |              | 4_info        |                                                               |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name | Entity Name  | Activity Name | Description                                   |
|-------------|--------------|---------------|-----------------------------------------------|
| ntp         | ntp          | loopstatus    | Network time protocol debugging               |
|             |              | clkselect     |                                               |
|             |              | clkadj        |                                               |
|             |              | clockstatus   |                                               |
|             |              | packets       |                                               |
|             |              | clkvalidity   |                                               |
|             |              | peerstats     |                                               |
|             |              | event         |                                               |
|             |              | loopfilter    |                                               |
|             |              |               |                                               |
| udppacer    | udppacer     | debug         | Voice UDP debugging                           |
|             |              | ccncall       |                                               |
|             |              | statistics    |                                               |
|             |              | block_starve  |                                               |
| srsx        | gui          | actions       | Cisco UMG SRSx GUI debugging                  |
|             |              | error         |                                               |
|             | registration | debug         | Cisco UMG SRSx device registration debugging  |
|             |              | error         |                                               |
|             | cli          | debug         | Cisco UMG SRSx CLI debugging                  |
|             |              | error         |                                               |
|             | controller   | info          | Cisco UMG SRSx controller debugging           |
|             |              | trace         |                                               |
|             |              | debug         |                                               |
|             |              | warning       |                                               |
|             |              | error         |                                               |
|             | upload       | debug         | Cisco UMG SRSV voicemail upload debugging     |
|             |              | error         |                                               |
|             |              | rest          |                                               |
|             | mgmt         | debug         | Cisco UMG SRSx management interface debugging |
|             |              | error         |                                               |
|             | srsv-engine  | info          | Cisco UMG SRSV provisioning engine debugging  |
|             |              | trace         |                                               |
|             |              | debug         |                                               |
|             |              | warning       |                                               |
|             |              | error         |                                               |

**Table 9**      **Module, Entity, and Activity Values (continued)**

| Module Name      | Entity Name        | Activity Name | Description                                                      |
|------------------|--------------------|---------------|------------------------------------------------------------------|
| srsx (continued) | service-point      | info          | Cisco UMG SRSx service point debugging                           |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  | vm-server-client   | info          | Cisco UMG SRSx central voicemail server communication debugging  |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  | call-agent-client  | info          | Cisco UMG SRSx central call agent server communication debugging |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  | srsv-secret-syncer | info          | Cisco UMG SRSx shared secret synchronization debugging           |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  | site-manager       | info          | Cisco UMG SRSx site manager debugging                            |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  | srst-engine        | info          | Cisco UMG E-SRST provisioning engine debugging                   |
|                  |                    | trace         |                                                                  |
|                  |                    | debug         |                                                                  |
|                  |                    | warning       |                                                                  |
|                  |                    | error         |                                                                  |
|                  |                    | all           |                                                                  |

**Command Modes**      Cisco UMG EXEC

**Command History**

| Cisco UMG Version | Modification                              |
|-------------------|-------------------------------------------|
| 8.0               | This command was introduced.              |
| 8.5               | The <b>srst-engine</b> keyword was added. |

**Examples**

The following example illustrates the use of the **trace srsx srsv-engine** command:

```
se-192-1-1-149# trace srsx srsv-engine all
```

**Related Commands**

| Command                    | Description                               |
|----------------------------|-------------------------------------------|
| <b>log console monitor</b> | Enables log monitor events for debugging. |