



## clear license agent through debug license

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- [clear license agent, on page 2](#)
- [debug license, on page 3](#)

# clear license agent

To clear license agent statistics counters or connection statistics, use the **clear license agent** command in privileged EXEC mode.

**clear license agent** {**counters** | **sessions**}

## Syntax Description

<b>counters</b>	Clears license agent statistics counters.
<b>sessions</b>	Clears license agent connection statistics.

## Command Modes

Privileged EXEC (#)

## Command History

Release	Modification
15.0(1)M	This command was introduced.
Cisco IOS XE Release 3.5S	This command was integrated into Cisco IOS XE Release 3.5S and implemented on the Cisco ASR 903 router.

## Examples

The following example clears license agent statistics counters:

```
Router# clear license agent counters
```

## Related Commands

Command	Description
<b>show license</b>	Displays information about a Cisco IOS software license.

## debug license

To enable controlled Cisco IOS software license debugging activity on a device, use the **debug license** command in privileged EXEC mode. To disable debugging, use the **no** form of this command.

**debug license** {agent {all | error} | core {all | errors | events} | errors | events | ipc}

**no debug license** {agent {all | error} | core {all | errors | events} | errors | events | ipc}

### Cisco ASR 903 Router Platforms

**debug license** {agent {all | errors} | core {all | errors | events} | errors | events | feature atm | ipc}

**no debug license** {agent {all | errors} | core {all | errors | events} | errors | events | feature atm | ipc}

### Cisco ASR 1001 Router Platforms

**debug license** {core {all | errors | events} | errors | ipc}

**no debug license** {core {all | errors | events} | errors | ipc}

#### Syntax Description

<b>agent</b>	Debugs license agent information. <ul style="list-style-type: none"> <li>• <b>all</b>--Debugs all license agent messages.</li> <li>• <b>error</b>--Debugs only license agent error messages.</li> </ul>
<b>core</b>	Debugs messages from a license core module. <ul style="list-style-type: none"> <li>• <b>all</b>--Debugs all license core messages.</li> <li>• <b>errors</b>--Debugs only license core error messages.</li> <li>• <b>events</b>--Debugs only license core event messages.</li> </ul>
<b>errors</b>	Debugs license warnings and errors.
<b>events</b>	Debugs license event messages.
<b>feature atm</b>	Debugs the ATM feature license.
<b>ipc</b>	Debugs license interprocess communication (IPC) messages.

#### Command Default

Debugging is disabled.

#### Command Modes

Privileged EXEC (#)

#### Command History

Release	Modification
12.2(35)SE2	This command was introduced.
12.4(15)XZ	This command was integrated into Cisco IOS Release 12.4(15)XZ.
12.4(20)T	This command was integrated into Cisco IOS Release 12.4(20)T.

Release	Modification
Cisco IOS XE Release 3.2S	This command was integrated into Cisco IOS XE Release 3.2S and implemented on the Cisco ASR 1001 router.
Cisco IOS XE Release 3.5S	This command was modified. The <b>feature atm</b> keywords were added for the Cisco ASR 903 router.

### Usage Guidelines

Use this command to help troubleshoot issues with licenses on a device.

On the Cisco ASR 1001 router, the output from the **debug license** command is not in standard IOS format. You must execute the **request platform software trace rotate all** privileged EXEC command to make the output in the log files in the bootflash:tracelogs directory.

### Examples

The following example shows how to enable debugging for license warnings and errors on a router:

```
Router# debug license errors
License warnings and errors debugging is on
```

The following example shows how to enable debugging for all license agent information on a switch:

```
Switch# debug license agent all
license agent app https[0x43FBC7C]: urlhook function
license agent app https[0x43FBC7C]: https action function
LIC_AGENT:Processing XML message
<?xml version="1.0" encoding="UTF-8"?>
<SOAP:Envelope xmlns:SOAP="http://www.w3.org/2003/05/soap-envelope">
<SOAP:Header>
<clm:Header version="1.0" xmlns:clm="http://www.cisco.com/clm">
<clm:Time>2003-04-23T20:27:19.827Z</clm:Time>
</clm:Header>
</SOAP:Header>
<SOAP:Body>
<lica:request xmlns:lica="http://www.cisco.com/clm">
<lica:installRequest>
<lica:license encoding="BASE64">
PENJU0NPX1dUX0FSVELGQUNUUyB2ZXJzaW9uPSIxLjAiPjxDSVNDT19XVF9MSUNFT1NFIH2lcnNp
b249IjEuMCI+PEZFQVRVUkVfTkFNRT5pcGJhc2U8L0ZfQVRVUkVfTkFNRT48RkVbVfVSRV9WRVJT
SU90PjEuMDwvRkVbVfVSRV9WRVJTSU90PjxVREk+PFBJRD5CVUxMU0VZRTI0PC9QSUQ+PFNOPkNB
VDEwMDZSMEU4PC9TTj48L1VEST48U09VUkNFPkNpc2NvIEhRPC9TT1VSQ0U+PENSUFURV9EQVRF
PjIwMDYtMTEtMjJUMDA6MzM6NTA8L0NSRUFURV9EQVRFPPjxMSUNFT1NFX0xJTkVfSEFTSCBoYXNo
QWxnbz0iU0hBMSI+NDJiNFVWVFpOd3pJK0ZNdeV6Q1NZSDRWdzFFPTwvTElDRU5TRV9MSU5FX0hB
U0g+PFRZUEU+UkVHVUxBUjwvVF1QRT48TElDRU5TRV9MSU5FPjwhW0NEQVRBwzExIGlwYmFzZSAAx
LjAgTE90RyB0T1JNQWwgU1RBTkRBTE90RSBFWENMIElORklOSVRFX0tFVWmgSU5GSU5JVEVfS0VZ
UyBORVZFUiBORVZFUiBoaUwgU0xN0NPREUgQ0xfTkRfTENLIE5pTCAqMVZBU1Y5WlJESzREOU5U
NDAwIE5pTCBOaUwgTmlMIDVfTU1OUyA8VURJFPjxQSUQ+Q1VMTFNFWUyNDwvUElEPjxTTj5DQVQx
MDA2UjBFODwvU04+PC9VREk+IGUxWW8wS1U2VnJLONBJZXRib1dJVKyZlVaVGdieU1EaklHWERR
VXc3dkx0YW1XRzZ0dUJOMG51TXpKaHpwQ2tMN113TWFxS2paem05YW5FbVJHUUVPTH1DdmRVZksw
QmNlN0pPcnZsUkw0VjMyJDxXTEm+QVFFQklRQUiVly9GbS8vWDkybThNb0NOZkVMShJiVzRjWDFM
ZGNpdDNMvU5GWlV1OWppT0phcXB5Q2N6TTFPaUlKbVE3NEd5WHJFY3F2UGlBbVdTYUVtVvQ1NnJz
dGs2Z3ZtaitFUUtSZkQ5QTBpbWUxY3pyZEt4ZklMVDBMYVhUNDE2bndtZnA5M1R5YTZ2SVE0Rm5s
QmRxSjFzTXpYZVNxOFBtVmNUVTlBNG85aGlsOXZLdXI4Tj1G0dGj1RDlHVkYwYkpIY2lUNU09PC9X
TEM+XV0+PC9MSUNFT1NFX0xJTkU+PFVTRVJfTU9ESUZJQUJMRV9DT01NRU5UIGZpZWxkUmVzdHJp
Y3Rpb25zPSJNYXggOTkgQVNDUSkgY2hhcmFjdgVycyBpb1BsZW5ndGguIj48L1VTRVJfTU9ESUZJ
QUJMRV9DT01NRU5UPjwvQ01TQ09fv1RfTElDRU5TRT48L0N0NPX1dUX0FSVELGQUNUUz4=
</lica:license>
</lica:installRequest>
</lica:request>
</SOAP:Body>
```

```
</SOAP:Envelope>
LIC_AGENT: XML received opcode(1)
LIC_AGENT: License ipbase
%IOS_LICENSE_IMAGE_APPLICATION-6-LICENSE_LEVEL: Next reboot level = ipbase and License =
ipbase
LIC_AGENT: Notification Event type = 1 License Installed
LIC_AGENT: Notification Event type = 13 License Annotate
```

