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# 简介

**tacacsd**是关联与TACACS AAA服务的IOS XP进程。本文讨论能导致运行IOS XP版本4.2.X的路由器或降低观察不变高CPU利用率的软件Bug和其症状。

# 先决条件

本文档没有任何特定的要求。

# 使用的组件

在本文涉及的问题适用于Cisco GSR、运行IOS XP的ASR9000、CRS和其他路由器。下面使用的输出从实验路由器运行IOS XP版本比4.2.X被采取了更低。

# 问题

路由器运行IOS XP版本4.2.X的或更低可能观察不变高CPU利用率由于ALARM记录器进程由于已知软件Bug。**Show process CPU**输出将显示ALARM**记录器**进程消耗的最大数量CPU利用率。

```
show proc cpu | ex "0% 0% 0%"

CPU utilization for one minute: 100%; five minutes: 100%; fifteen minutes: 100%
PID 1Min 5Min 15Min Process
<snip>
53281 2% 2% 2% syslogd_helper
57379 1% 1% 1% fabricq_prp_driver
69636 1% 1% 1% correlatord
69677 6% 6% 6% syslogd
118842 1% 1% 1% sysdb_svr_local
122962 3% 3% 3% gsp
229604 2% 2% 2% eem_ed_syslog
262456 1% 1% 1% tacacsd
452726918 67% 71% 72% alarm-logger
463302887 1% 1% 1% exec
<snip>
```

在操作日志缓冲区中您可以发现连续日志类似于：

*tacacsd ：%SECURITY-TACACSD-7-GENERIC_ERROR ：失败对获得请求为：密钥-会话*

```
show log
<snip>
RP/0/7/CPU0:Dec 26 04:02:03.149 : tacacsd[1110]: %SECURITY-TACACSD-6-SERVER_UP :
TACACS+ server 32.95.X.X/XXXX is UP
RP/0/7/CPU0:Dec 26 04:02:05.956 : tacacsd[1110]: %SECURITY-TACACSD-6-SERVER_DOWN :
TACACS+ server 32.95.X.X/XXXX is DOWN - Socket 43: Connection timed out
RP/0/7/CPU0:Dec 26 04:02:09.468 : tacacsd[1110]: %SECURITY-TACACSD-6-SERVER_DOWN :
TACACS+ server 199.37.X.X/XXXX is DOWN - Socket 43: Connection timed out
RP/0/7/CPU0:Dec 26 04:02:09.647 : tacacsd[1110]: %SECURITY-TACACSD-6-TIMEOUT_IGNORED :
A time out event has been ignored for context key -953829129/1073/60000000/6486405
(session 6486405)
RP/0/7/CPU0:Dec 26 04:02:11.647 : tacacsd[1110]: %SECURITY-TACACSD-7-GENERIC_ERROR :
Failed to get request for: key -953829129/1073/60000000/6486405 session 105407493
RP/0/0/CPU0:last message repeated 520 times
RP/0/7/CPU0:Dec 26 04:02:34.064 : tacacsd[1110]: %SECURITY-TACACSD-6-SERVER_UP :
TACACS+ server 32.95.X.X/XXXX is UP
RP/0/7/CPU0:Dec 26 04:02:34.064 : tacacsd[1110]: %SECURITY-TACACSD-7-GENERIC_ERROR :
Failed to get request for: key -953829129/1073/60000000/6486405 session 105407493
```

ALARM记录器和tacacsd进程详细资料能被看到作为下面。

```
show processes alarm-logger<snip>Job Id: 114PID: 135303Executable path: /c12k-os-
4.2.4/sbin/alarm-loggerInstance #: 1Version ID: 00.00.0000Respawn: ONRespawn count: 1Max. spawns
per minute: 12Last started: Tue Aug 13 02:17:23 2013Process state: RunPackage state: Normalcore:
MAINMEM Max. core: 0Level: 91Placement: Nonestartup_path: /pkg/startup/alarm-
logger.startupReady: 0.672sProcess cpu time: 1401.018 user, 49.774 kernel, 1450.792 totalJID TID
Stack pri state TimeInState HR:MM:SS:MSEC NAME114 1 88K 10 Receive 0:00:02:0071 0:00:40:0919
alarm-logger114 2 88K 10 Receive 3242:46:17:0308 0:00:00:0000 alarm-logger114 3 88K 10 Reply
0:00:00:0000 0:23:08:0029 alarm-logger114 4 88K 10 Mutex 0:00:00:0000 0:00:21:0957 alarm-logger-
--------------------------------------------------------------------------------<snip>show
processes tacacsd<snip>Job Id: 1110PID: 266551Executable path: /disk0/iosxr-infra-
4.2.4/bin/tacacsdInstance #: 1Version ID: 00.00.0000Respawn: ONRespawn count: 1Max. spawns per
minute: 12Last started: Tue Aug 13 02:23:47 2013Process state: RunPackage state: NormalStarted
on config: cfg/gl/aaa/tacacs/Process group: central-servicescore: MAINMEM Max. core: 0Placement:
Placeablestartup_path: /pkg/startup/tacacsd.startupReady: 3.954sProcess cpu time: 1010.118 user,
185.932 kernel, 1196.050 totalJID TID Stack pri state TimeInState HR:MM:SS:MSEC NAME1110 1 108K
16 Sigwaitinfo 3242:46:40:0742 0:00:00:0116 tacacsd1110 2 108K 10 Nanosleep 0:01:03:0835
0:00:00:0019 tacacsd1110 3 108K 10 Receive 3242:46:41:0593 0:00:00:0002 tacacsd1110 4 108K 10
Reply 0:00:00:0000 0:08:55:0970 tacacsd1110 5 108K 16 Receive 3242:46:40:0771 0:00:00:0000
tacacsd1110 6 108K 10 Receive 0:07:07:0403 0:04:03:0462 tacacsd1110 7 108K 10 Receive
0:00:01:0389 0:03:28:0939 tacacsd1110 8 108K 10 Receive 0:00:01:0332 0:03:03:0622 tacacsd-------
--------------------------------------------------------------------------------<snip>
```

高CPU导致由于造成ALARM记录器缓冲区的充斥系统消息获得全双工。因此ALARM记录器进程依然是忙碌同时尝试处理消息的和面对缓冲区全双工情况。 在这种情况下， TACACS进程是压倒多数ALARM记录器。因为ALARM记录器是受害者，重新启动ALARM记录器进程不会帮助，共享内存缓冲区依然是不变在process restart以后。

# 解决方案

此问题通过软件Bug CSCuh98484解决了并且修复- Tacacsd “失败对获得要求关键”错误原因高CPU。Bug详细信息在存在此处

请注意:重新启动tacacsd进程是应该终止日志，并且CPU利用率应该返回到正常级别的应急方案。重新启动tacacsd进程不会影响任何功能或数据包转发，在其初始状态将放置进程。

此bug在以下IOS XP版本修复。

4.3.2.SP2
4.3.2.SP3

4.3.2.SP5
4.3.2.SP6
4.3.2.SP7
4.3.2.SP8