

某局点WX3024H-L无线控制器CPU利用率经常到100%的案例分析

CPU 朱尘场 2017-06-23 发表

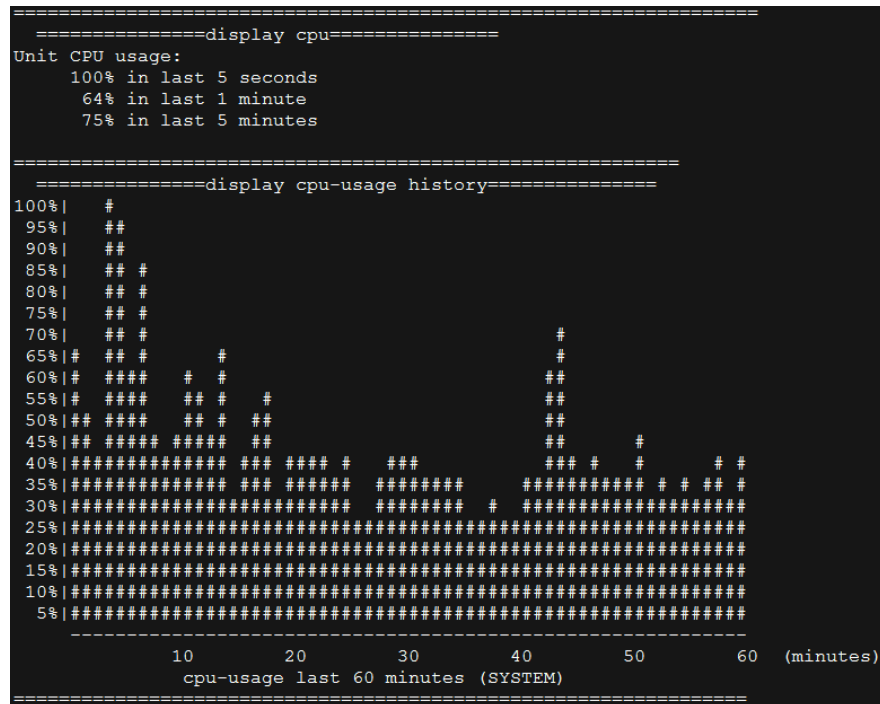
无线控制器型号: WX3024H-L

无线控制器版本: Version 7.1.064, ESS 5204P02

无线组网方式: 集中转发

故障现象: 现场业务转发暂时没发现问题, AC的CPU平均使用率一直在30-40%之间, 但是CPU瞬时值经常会到100%

WX3024H-L的CPU使用率历史记录



CPU利用率占用较高的进程

```
=====display process cpu=====
CPU utilization in 5 secs: 100.0%; 1 min: 64.7%; 5 mins: 75.9%
```

JID	5Sec	1Min	5Min	Name
1	3.8%	0.0%	0.0%	scmd
2	0.0%	0.0%	0.0%	[kthreadd]
3	0.0%	0.0%	0.0%	[ksoftirqd/0]
4	0.0%	0.0%	0.0%	[watchdog/0]
5	1.6%	1.3%	1.3%	[events/0]
6	0.0%	0.0%	0.0%	[khelper]
7	0.0%	0.0%	0.0%	[kblockd/0]
8	0.0%	0.0%	0.0%	[khubd]
9	0.0%	0.0%	0.0%	[kseriod]
10	0.0%	0.0%	0.0%	[vzmond]
11	0.0%	0.0%	0.0%	[pdflush]
12	0.0%	0.0%	0.0%	[pdflush]
13	0.0%	0.0%	0.0%	[kswapd0]
14	0.0%	0.0%	0.0%	[aio/0]
15	0.0%	0.0%	0.0%	[mtdblockd]
27	0.0%	0.0%	0.0%	[fshe]
36	33.4%	32.7%	46.7%	[Eththread]
37	0.0%	2.1%	3.1%	[kswitch12]
40	0.0%	0.0%	0.0%	[lipc_topology]
42	0.0%	0.0%	0.0%	[LOAD]
43	0.0%	0.0%	0.0%	[LOADProc]
44	0.0%	0.0%	0.0%	[lipc_portevt]
45	0.0%	0.0%	0.0%	[timesyncs]

在线AP信息统计

```

=====display wlan ap all=====
Total number of APs: 20
Total number of connected APs: 20
Total number of connected manual APs: 20
Total number of connected auto APs: 0
Total number of connected common APs: 20
Total number of connected WTUs: 0
Total number of inside APs: 0
Maximum supported APs: 64
Remaining APs: 44
Total AP licenses: 20
Remaining AP licenses: 0

```

在线终端信息统计

```

=====display wlan client=====
Total number of clients: 87

```

MAC address	User name	AP name	RID	IP address	IPv6 address	VLAN
0456-04e0-53a6	N/A	4f_ap2	2	192.168.150.60		112
065f-a709-afe0	N/A	4f_ap2	2	192.168.150.62		112
18d2-76b2-a78b	N/A	3f_ap1	2	192.168.150.4		112
1ccd-e50c-3d86	N/A	2f_ap2	2	192.168.100.34		111
203c-ae4b-ffcf	N/A	2f_ap4	1	192.168.100.37		111
2068-9dc9-df1b	N/A	1f_ap4	2	192.168.100.51		111
20ab-373a-73c9	N/A	1f_ap4	1	192.168.100.17		111
20ab-3756-4a4f	N/A	3f_ap4	1	192.168.100.36		111
20ab-3776-0829	N/A	1f_ap5	1	192.168.100.49		111
28a0-2b71-2a7e	N/A	1f_ap5	1	192.168.100.8		111
28e3-47cb-08bf	N/A	2f_ap5	2	192.168.100.88		111

WX3024H-L属于V7平台AC中的低端型号，CPU处理性能较差，现场使用集中转发组网时无线业务全部需要由AC的CPU处理，此时会导致该型号AC的CPU占用高，现场占用高的进程Eththread和AC集中转发业务有关

WX3024H-L无线组网时建议采用本地转发组网，此时无线业务流量不经过AC，可以大大降低CPU的负载，AC的CPU只需要处理管理控制业务可以有效降低CPU的负载

V7低端型号的AC无线组网时建议考虑本地转发的组网，可以获得较好的无线使用体验，AC的CPU高了势必会影响到业务的正常转发