

UltraM -排除故障“失败的StarOS EMCtrl错误查找VDU”

目录

[简介](#)

[背景信息](#)

[命令检查](#)

[不一致方案1：另外ID如被看到在EMCtrl与EM VDU实例](#)

[不一致方案2：显示EMCtrl空VDU的详细信息](#)

[不一致方案3：从缺失的CF打牌用之轻便小桌，在EM不存在](#)

简介

本文描述步骤排除故障盒，当卡Virtualized数据包核心(VPC)时在思科超服务平台(UltraM)在查找VDU”错误的与“失败的引导被滞留如在中看到显示日志。

背景信息

Sample:

```
2017-Sep-26+08:05:05.839 [emctrl 218804 error] [2/0/16829 <emctrl:0> emctrl_vnf.c:828] [software internal system syslog] Failed to find VDU, of card number <1>
```

如果进一步检查日志，您看到指出的非常详细的错误卡类型不匹配Extension Mobility (EM)信息：

```
2017-Sep-26+08:03:32.126 [emctrl 218802 info] [2/0/16829 <emctrl:0> emctrl_util.c:381] [software internal system critical-info syslog] siti msg for standby CF, card type doesn't match EM, reboot it
```

```
2017-Sep-26+08:03:32.126 [emctrl 218802 info] [2/0/16829 <emctrl:0> emctrl_util.c:376] [software internal system critical-info syslog] siti card 1 card type drvctrl 40010100, siti 0
```

```
2017-Sep-26+08:03:32.126 [emctrl 218802 info] [2/0/16829 <emctrl:0> emctrl_util.c:329] [software internal system critical-info syslog] siti sync msg received for card 1 with cardtype 40010100, uuid 9F1F2B1E-35FC-4AF9-807A-E856336702D6
```

```
2017-Sep-26+08:03:32.105 [system 1004 info] [2/0/9741 <evlogd:0> evlgd_syslogd.c:279] [software internal system syslog] CPU[2/0]: sitiserv[9533]: SITI_PRESENT: invoking notify card present cmd notify_card_present 1 0 0x40010100 9F1F2B1E-35FC-4AF9-807A-E856336702D6
```

命令检查

如被看到从错误，全体地有唯一标识符(UUID)受影响的卡-在此示例UUID是9F1F2B1E-35FC-4AF9-807A-E856336702D6。

理论上讲，此UUID应该配比与显示emctrl vdu详细信息输出命令的输出。

显示emctrl vdu详细信息是隐藏命令。

```
[local]UltraM-QVPC-DI# show emctrl vdu detail
```

```
Showing emctrl vdu
card[01]: name[CFC_01 ] uuid[1FE70E43-0F33-4E17-8BFA-439169CD52BA]
card[02]: name[CFC_02 ] uuid[3AFC540B-546E-4F35-A645-A23E62C32C59]
card[03]: name[SFC_03 ] uuid[93359FA0-09C2-4F7C-93F6-17BE0A2AF49F]
card[04]: name[SFC_04 ] uuid[E02C8AAA-7E8A-4881-8018-6EC59963C8F6]
card[05]: name[SFC_05 ] uuid[6F297BF6-4AFC-43AB-A36D-FCD0FAE39DA3]
```

如果此输出是空的，也许很可能，EMCtrl进程也许是损坏的。

此ID在EM应该是相同的象被看到如突出显示：

```
admin@scm# show vdus vdu card-type session-function
vdus vdu session-function
card-type session-function
vnfci BOOT_generic_di-chassis_SF1_1
constituent-element-group di-chassis
is-infra true
initialized false
vim-id 93359fa0-09c2-4f7c-93f6-17be0a2af49f
vnfci BOOT_generic_di-chassis_SF2_1
constituent-element-group di-chassis
is-infra true
initialized false
vim-id e02c8aaa-7e8a-4881-8018-6ec59963c8f6
vnfci BOOT_generic_di-chassis_SF3_1
constituent-element-group di-chassis
is-infra true
initialized false
vim-id 54e9a5d6-f4dd-4636-95d3-b29443ebfa14
```

关于此实例的更多信息在StarOS侧可以用此命令找到：

```
[local]UltraM-QVPC-DI# show vdu detail type session-function instance BOOT_generic_di-
chassis_SF1_1
vdu-id: session-function, vdu-instance: BOOT_generic_di-chassis_SF1_1, state: from:Invalid
to:Alive
card_number: 3, card_type: 0x42030100, uuid:93359fa0-09c2-4f7c-93f6-17be0a2af49f
networks:
cp-id: di_intf1, state: Alive, type: unknown
vl: vl-di-internall vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:87:ac:e4, ip: 192.168.1.12
cp-id: di_intf2, state: Alive, type: unknown
vl: vl-di-internal2 vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:92:ea:26, ip: 192.168.2.11
cp-id: orch, state: Alive, type: unknown
vl: vl-orchestration vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:1e:f5:b5, ip: 172.16.180.21
cp-id: svc_intf1, state: Alive, type: unknown
vl: vl-service-network1 vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:bf:c8:6f, ip: 10.10.10.2
cp-id: svc_intf2, state: Alive, type: unknown
vl: vl-service-network2 vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:15:a9:22, ip: 20.20.20.7
cp-id: svc_intf3, state: Alive, type: unknown
vl: vl-service-network1 vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:1f:fa:0c, ip: 10.10.10.6
cp-id: svc_intf4, state: Alive, type: unknown
vl: vl-service-network2 vnfci: sf-vnfc-di-chassis
mac: fa:16:3e:2f:6b:00, ip: 20.20.20.10
```

不一致方案1：另外ID如被看到在EMCtrl与EM VDU实例

如果注意ID卡德5，您看到它是6F297BF6-4AFC-43AB-A36D-FCD0FAE39DA3。

```
[local]UltraM-QVPC-DI# show emctrl vdu detail
Showing emctrl vdu
card[01]: name[CFC_01 ] uuid[1FE70E43-0F33-4E17-8BFA-439169CD52BA]
card[02]: name[CFC_02 ] uuid[3AFC540B-546E-4F35-A645-A23E62C32C59]
card[03]: name[SFC_03 ] uuid[93359FA0-09C2-4F7C-93F6-17BE0A2AF49F]
card[04]: name[SFC_04 ] uuid[E02C8AAA-7E8A-4881-8018-6EC59963C8F6]
card[05]: name[SFC_05 ] uuid[6F297BF6-4AFC-43AB-A36D-FCD0FAE39DA3]
```

，如果检查在EM的同一个ID，您没找到它：

```
admin@scm# show vdus | include vim
vim-id 1fe70e43-0f33-4e17-8bfa-439169cd52ba ---> CF 1
vim-id 3afc540b-546e-4f35-a645-a23e62c32c59 ---> CF 2
vim-id 93359fa0-09c2-4f7c-93f6-17be0a2af49f ---> SF 3
vim-id e02c8aaa-7e8a-4881-8018-6ec59963c8f6 ---> SF 4
vim-id 54e9a5d6-f4dd-4636-95d3-b29443ebfa14 ---> ?
```

因此您能看到为在slot 5的卡，看起来似乎不一致。

当您较详细的检查在StarOS时的特定ID，您当前看到那用detail命令显示的vdu ID实际上是相同的象被看到在EM侧：

```
[local]UltraM-QVPC-DI# show vdu detail type session-function instance BOOT_generic_di-
chassis_SF3_1
vdu-id: session-function, vdu-instance: BOOT_generic_di-chassis_SF3_1, state: from:Invalid
to:Alive
card_number: 5, card_type: 0x42030100, uuid:54e9a5d6-f4dd-4636-95d3-b29443ebfa14
```

使用此，您能确认EMCtrl进程没有正确的信息。

如果检查日志，您看到此警告：

```
[local]UltraM-QVPC-DI# show vdu detail type session-function instance BOOT_generic_di-
chassis_SF3_1
vdu-id: session-function, vdu-instance: BOOT_generic_di-chassis_SF3_1, state: from:Invalid
to:Alive
card_number: 5, card_type: 0x42030100, uuid:54e9a5d6-f4dd-4636-95d3-b29443ebfa14
```

1. 如果杀害EMCtrl任务，不帮助。

2. 并且，如果重新启动卡，它不帮助。

不一致方案2：显示EMCtrl空VDU的详细信息

这是可能的和由于损坏的EMCtrl表和它bug的结果根据知识到目前为止您有。

显示emctrl vdu列表的输出是充分地空的：

```
[local]UltraM-QVPC-DI# show vdu detail type session-function instance BOOT_generic_di-
chassis_SF3_1
```

```
vdu-id: session-function, vdu-instance: BOOT_generic_di-chassis_SF3_1, state: from:Invalid  
to:Alive
```

```
card_number: 5, card_type: 0x42030100, uuid:54e9a5d6-f4dd-4636-95d3-b29443ebfa14
```

为了检查卡的实际状态从VNFM代理侧的：

```
#show vdu detail type control-function instance BOOT_generic_di-chassis_CF1_1
```

```
vdu-id: control-function, vdu-instance: BOOT_generic_di-chassis_CF1_1, state: from:Invalid  
to:Alive
```

已知bug：[CSCvf32599](#)

应急方案：重新启动EMCtrl任务：

```
#show vdu detail type control-function instance BOOT_generic_di-chassis_CF1_1
```

```
vdu-id: control-function, vdu-instance: BOOT_generic_di-chassis_CF1_1, state: from:Invalid  
to:Alive
```

不一致方案3：从缺失的CF打牌用之轻便小桌，在EM不存在

有时，您看到SF或CF从打牌用之轻便小桌未命中。

您从输出看到，StarOS看到一个CF卡：

```
[local]AUPGW101# show card tabl  
Wednesday September 27 09:26:46 UTC 2017  
Slot Card Type Oper State SPOF Attach  
-----  
1: CFC Control Function Virtual Card Active Yes  
3: FC 4-Port Service Function Virtual Card Active No  
4: FC 4-Port Service Function Virtual Card Active No  
5: FC 4-Port Service Function Virtual Card Active No  
6: FC 4-Port Service Function Virtual Card Active No  
7: FC 4-Port Service Function Virtual Card Active No  
8: FC 4-Port Service Function Virtual Card Active No  
9: FC 4-Port Service Function Virtual Card Active No  
10: FC 4-Port Service Function Virtual Card Standby -
```

然而，如果检查调试控制台卡2，您看到尝试来联机：

```
[local]AUPGW101# show card tabl  
Wednesday September 27 09:26:46 UTC 2017  
Slot Card Type Oper State SPOF Attach  
-----  
1: CFC Control Function Virtual Card Active Yes  
3: FC 4-Port Service Function Virtual Card Active No  
4: FC 4-Port Service Function Virtual Card Active No  
5: FC 4-Port Service Function Virtual Card Active No  
6: FC 4-Port Service Function Virtual Card Active No  
7: FC 4-Port Service Function Virtual Card Active No  
8: FC 4-Port Service Function Virtual Card Active No  
9: FC 4-Port Service Function Virtual Card Active No  
10: FC 4-Port Service Function Virtual Card Standby -
```

这是，正如你从show log看到，当EMCtrl认为CF在EM不存在：

```
2017-Sep-27+09:27:13.964 [emctrl 218802 info] [1/0/7805 <emctrl:0> emctrl_util.c:357] [software internal system critical-info syslog] siti msg for standby CF, but doesn't exist in EM, reboot it
2017-Sep-27+09:27:13.964 [emctrl 218802 info] [1/0/7805 <emctrl:0> emctrl_util.c:329] [software internal system critical-info syslog] siti sync msg received for card 2 with cardtype 40010100, uuid C6217904-8F65-4C48-B607-4F13EAE6745D
2017-Sep-27+09:27:13.939 [system 1004 info] [1/0/7684 <evlogd:0> evlgd_syslogd.c:279] [software internal system syslog] CPU[1/0]: sitiserv[3063]: SITI_PRESENT: invoking notify card present cmd notify_card_present 2 0 0x40010100 C6217904-8F65-4C48-B607-4F13EAE6745D
```

您能的确确认那：

```
2017-Sep-27+09:27:13.964 [emctrl 218802 info] [1/0/7805 <emctrl:0> emctrl_util.c:357] [software internal system critical-info syslog] siti msg for standby CF, but doesn't exist in EM, reboot it
2017-Sep-27+09:27:13.964 [emctrl 218802 info] [1/0/7805 <emctrl:0> emctrl_util.c:329] [software internal system critical-info syslog] siti sync msg received for card 2 with cardtype 40010100, uuid C6217904-8F65-4C48-B607-4F13EAE6745D
2017-Sep-27+09:27:13.939 [system 1004 info] [1/0/7684 <evlogd:0> evlgd_syslogd.c:279] [software internal system syslog] CPU[1/0]: sitiserv[3063]: SITI_PRESENT: invoking notify card present cmd notify_card_present 2 0 0x40010100 C6217904-8F65-4C48-B607-4F13EAE6745D
```

应急方案：重新启动EMCtrl任务。