



CXone Mpower EXPERT

ONTAP 如何监控CRC？

https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/How_ONTAP_monitors_the_CRCs

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适用场景

- 以太网协议。 [IEEE 802.3](#)
- CRC或帧检查序列

问题解答

- 收到损坏的帧后、ONTAP 会报告CRC错误。
- `ifstat` 输出和AutoSupport 部分：

```
::> system node run -node node-name ifstat e0c
-- interface e0c (7 days, 18 hours, 10 minutes, 41 seconds) --
RECEIVE
Total frames:      508k | Frames/second:      1 | Total bytes:      37009k
Bytes/second:      55  | Total errors:      12117 | Errors/minute:      0
```

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```
Total discards:      0 | Discards/minute:    0 | Multi/broadcast: 1280k
Non-primary u/c:    0 | CRC errors:         12117 | Runt frames:      0
Long frames:        0 | Length errors:      0 | Alignment errors: 0
No buffer:           0 | Pause:              0 | Jumbo:            0
...
```

- 事件消息和EMS AutoSupport 消息：

```
Wed Jun 30 02:38:27 CEST [node-name: vifmgr: vifmgr.cluscheck.crcerrors:alert]:
Port e0c on node node-name is reporting a high number of observed hardware
errors, possibly CRC errors.
```

- 如果1000个帧中的帧数超过1个、则ONTAP 会在事件消息和EMS AutoSupport 消息中报告CRC错误。

追加信息

- CRC错误通常是由硬件故障或硬件不兼容引起的
- 网络交换机可能愿意转发错误的CRC帧
- 数据包跟踪不有用