



Brocade スイッチ ポートに対して発生する継続的なリンク リセット (LR)

https://kb-ja.netapp.com/on-prem/Switches/Brocade-KBs/Continual_link_resets_LR_occurring_against...

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環境

- すべての Brocade FC スイッチ プラットフォーム
- すべての Brocade Fabric OS ファームウェア レベル

問題

- 1つのポートのリンク リセットが報告されます：

```
2020/09/01-09:22:48 (CET), [C5-1014], 2001, CHASSIS | PORT 0/13, WARNING,
BrocadeG720, Link Reset on Port S0,P13(52) vc_no=0 crd(s)lost=5 auto
trigger.
```

- `errdump -a`に示されているように、ポート # 上の **MAPS** によって報告された継続的なリンク リセット (LR)：

```
2020/09/01-14:54:34, [MAPS-1003], 796, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
2], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
2020/09/01-15:16:53, [LOG-1000], 798, FID 128, INFO, brocade_switch,
Previous message repeated 2 time(s).
2020/09/01-15:20:34, [MAPS-1003], 799, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
2], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
2020/09/01-15:46:53, [LOG-1000], 802, FID 128, INFO, brocade_switch,
Previous message repeated 3 time(s).
2020/09/01-15:46:58, [MAPS-1003], 803, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
4], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
2020/09/01-15:56:10, [MAPS-1003], 804, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
2], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
2020/09/01-16:01:22, [MAPS-1003], 805, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
4], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
2020/09/01-16:16:53, [LOG-1000], 806, FID 128, INFO, brocade_switch,
Previous message repeated 1 time(s).
2020/09/01-16:23:40, [MAPS-1003], 807, FID 128, WARNING, brocade_switch,
onpom_fc0, F-Port 13, Condition=ALL_F_PORTS(LR/min>=1), Current Value:[LR,
4], RuleName=CNLV_CMPLNT_LR, Dashboard Category=Port Health.
```

- Fabriclogの下で、ポートがフラッピングしているのがわかります。

```
08:39:49.865779 SCN LR_PORT(0);g=0x24e4 LR_IN          D2,P0  D2,P0  13
NA
08:39:57.801578 SCN LR_PORT(0);g=0x24e4 LR_IN          D2,P0  D2,P0  13
NA
08:40:10.095012 SCN LR_PORT(0);g=0x24e4 LR_IN          D2,P0  D2,P0  13
NA
08:40:22.120959 SCN LR_PORT(0);g=0x24e4 LR_IN          D2,P0  D2,P0  13
```

```

NA
08:40:23.031030 *Removing all nodes from port          D2,P0  D2,P0  13
NA
08:53:26.644103 *Removing all nodes from port          D2,P0  D2,P0  13
NA
08:53:26.644295 SCN Port F_PORT                        D2,P0  D2,P0  13  NA
10:09:04.749379 SCN LR_PORT(0);g=0x27be LR_IN          D2,P0  D2,P0  144
NA

```

- **porterrshow** が過剰なリンク失敗カウンタを報告していることを確認します：

```

      frames      enc      crc      crc      too      too      bad      enc      disc      link
loss   loss   frjt   fbsy   c3timeout   pcs   uncor
      tx      rx      in      err   g_eof   shrt   long   eof      out      c3      fail
      sync   sig              tx      rx      err   err
376:  298.7k 501.9k    0    0    0    0    0    0    0    0    9.9k    0
      0    0    0    0    0    0    0

```

- **Interrupts**、**lli**、**proc_rqrd**、**lr_in**、**lr_out**、**ols_in**、**ols_out** が **portshow** で増加しています：

```

portshow 13
portDisableReason: None
portCFlags: 0x1
portFlags: 0x24b03    PRESENT ACTIVE F_PORT G_PORT U_PORT LOGICAL_ONLINE
LOGIN NOELP LED ACCEPT FLOGI
LocalSwcFlags: 0x0
portType:  26.0
POD Port: Port is licensed
portState: 1   Online
Protocol: FC
portPhys:  6   In_Sync      portScn:  32   F_Port
port generation number:  93268
state transition count:  92939

portId:  0a0d00
portIfId:  43020034
portWwn:  20:0d:88:94:71:b1:69:c0
portWwn of device(s) connected:
      21:00:00:24:ff:1d:8c:e2
16b Area list:

```

```

Distance: normal
portSpeed: N16Gbps

FEC: Inactive
Credit Recovery: Inactive
Aoq: Inactive
FAA: Inactive
F_Trunk: Inactive
LE domain: 0
Peer beacon: Off
FC Fastwrite: OFF
Interrupts: 9909      Link_failure: 3      Frjt: 0
Unknown: 0      Loss_of_sync: 0      Fbsy: 0
Lli: 9909      Loss_of_sig: 0
Proc_rqrd: 211621      Protocol_err: 0
Timed_out: 0      Invalid_word: 0
Tx_unavail: 0      Invalid_crc: 0
Delim_err: 0      Address_err: 0
Lr_in: 4914      Ols_in: 4877
Lr_out: 4877      Ols_out: 4914

```

AI ツールの表示