Procedure to Halt SF/CF Card in Virtual Packet Core Node

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Introduction

This document describes the steps to halt Service Function (SF)/Control Function (CF) cards on StarOS.

Prerequisites

Requirements

Cisco recommends that you have knowledge of Virtual Packet Core solutions components.

Components Used

The information in this document is based on Cisco Virtual Packet Data Network Gateway (VPGW).

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

Card halt results in restriction of operational functionality. Before removal of any active card from the system, it is recommended to make it standby or halt. Removal of any active card abruptly causes an adverse impact on the system. Card halt makes it offline and then it can be easily removed from the system.

Procedure to Halt SF/CF Card in Virtual Packet Core Node

1. Use the **show card table** command in order to determine which card to halt.

For example:

```
[ABCD]XYZ# show card table Tuesday July 14 05:17:03 UTC 2020 Slot Card Type Oper State SPOF Attach ----------- ------------------------------------ ------------ ---- ------ 1: CFC Control Function Virtual Card Active Yes 2: CFC Control Function Virtual Card Standby - 3: FC 2-Port Service Function Virtual Card Active No 4: FC 2-Port Service Function Virtual Card Active No 5: FC 2-Port Service Function Virtual Card Active No 6: FC 2-Port Service Function Virtual Card Standby - 7: FC 2-Port Service Function Virtual Card Active No 8: FC 2-Port Service Function Virtual Card Active No
```

2. Halt card no 5.

```
[ABCD]XYZ# card halt 5 Thursday August 05 05:44:35 UTC 2021 Are you sure? [Yes|No]: yes Thursday August 05 05:44:39 UTC 2021
```

3. Check that card migration started from halted card to standby card.

```
[ABCD]XYZ# show card table Thursday August 05 05:44:46 UTC 2021 Slot Card Type Oper State SPOF Attach ----------- ------------------------------------ ------------ ---- ------ 1: CFC Control Function Virtual Card Active No 2: CFC Control Function Virtual Card Standby - 3: FC 2-Port Service Function Virtual Card Active Yes 4: FC 2-Port Service Function Virtual Card Active Yes 5: FC 2-Port Service Function Virtual Card Migrate From - 6: FC 2-Port Service Function Virtual Card Migrate To - 7: FC 2-Port Service Function Virtual Card Active Yes 8: FC 2-Port Service Function Virtual Card Active Yes
```

4. The halted card becomes offline.

```
[ABCD]XYZ# show card table Thursday August 05 05:45:08 UTC 2021 Slot Card Type Oper State SPOF Attach ----------- ------------------------------------ ------------ ---- ------ 1: CFC Control Function Virtual Card Active No 2: CFC Control Function Virtual Card Standby - 3: FC 2-Port Service Function Virtual Card Active Yes 4: FC 2-Port Service Function Virtual Card Active Yes 5: FC 2-Port Service Function Virtual Card Offline - 6: FC 2-Port Service Function Virtual Card Active Yes 7: FC 2-Port Service Function Virtual Card Active Yes 8: FC 2-Port Service Function Virtual Card Active Yes
```

5. If you want to bring this card back into the system, you need to reboot it.

```
[ABCD]XYZ# card reboot 5 Thursday August 05 05:45:27 UTC 2021
```

6. Post reboot it goes to the standby state.

```
[ABCD]XYZ# show card table Thursday August 05 05:47:48 UTC 2021 Slot Card Type Oper State SPOF Attach ----------- ------------------------------------ ------------ ---- ------ 1: CFC Control Function Virtual Card Active No 2: CFC Control Function Virtual Card Standby - 3: FC 2-Port Service Function Virtual Card Active No 4: FC 2-Port Service Function Virtual Card Active No 5: FC 2-Port Service Function Virtual Card Standby - 6: FC 2-Port Service Function Virtual Card Active No 7: FC 2-Port Service Function Virtual Card Active No 8: FC 2-Port Service Function Virtual Card Active No
```

Additional Information

1. The system does not have the option to halt the Control Function card.

```
[ABCD]XYZ# card halt 3..8 >> System gives options from card 3, as card 1 & 2 is reserved for CF cards
```

2. If forcefully you try to halt the control function card, then this error message can be seen.

```
[ABCD]XYZ# card halt 2 Unknown command - "2?", card not present or unrecognized keyword
```