



EVA Fabric Cabling

(public distribution authorized)



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2 Document History

Version	Date	Comments
4-9-2	5-Sep-07	added document history section
5-0	28-Sep-07	expanded section 3-2
5-1	22-Apr-08	added the EVA4400
5-2	3-Jun-09	added EVA6400 and EVA8400, modified section 3-2
5-5	11-Aug-09	changed document format, changed array drawings
5-6	2-Sep-09	added all controllers in section 3-1, add sections 3-5 and 3-6





3 Introduction

In the following drawings the EVA controllers have been initialized in two different orders. In some cases the top controller is "A" and the bottom controller is "B". In other cases the top controller is "B" and the bottom controller is "A". Which physical controller is the "A" controller is determined by which EVA controller is powered up first during installation and subsequently initialized. Once the controllers are initialized, the order and pWWNs will always be the same until the array is re-initialized.

All EVA's should be cabled to support Continuous Access (CA), even if it will not be utilized.

- On the EVA3000 and EVA5000 this means that FP1 on the "A" controller is cabled to the first fabric and FP2 is cabled to the second fabric. The "B" controller is cabled such that FP1 is attached to the second fabric and FP2 is cabled to the first fabric.
- On the EVA3000 and EVA5000 that have had their firmware upgraded to VCS 4.x this means that FP1 on the "A" controller is cabled to the first fabric and FP2 is cabled to the second fabric. The "B" controller is cabled such that FP1 is attached to the first fabric and FP2 is cabled to the second fabric. In summary, "odd" ports go to the first fabric and "even" ports go to the second fabric.
- On the EVA4000/4100/4400 and EVA6000/6100 this means that FP1 on the "A" controller is cabled to the first fabric and FP2 is cabled to the second fabric. The "B" controller is cabled such that FP1 is attached to the first fabric and FP2 is cabled to the second fabric. In summary, "odd" ports go to the first fabric and "even" ports go to the second fabric.
- On the EVA6400 this means that FP1 on the "A" controller is cabled to the first fabric, FP2 is cabled to the second fabric, FP3 is cabled to the first fabric and FP4 is cabled to the second fabric. The "B" controller is cabled such that FP1 is attached to the first fabric, FP2 is cabled to the second fabric, FP3 is cabled to the first fabric and FP4 is cabled to the second fabric. In summary, "odd" ports go to the first fabric and "even" ports go to the second fabric.
- On the EVA8000/8100/8400 this means that FP1 on the "A" controller is cabled to the first fabric, FP2 is cabled to the second fabric, FP3 is cabled to the first fabric and FP4 is cabled to the second fabric. The "B" controller is cabled such that FP1 is attached to the first fabric, FP2 is cabled to the second fabric, FP3 is cabled to the first fabric and FP4 is cabled to the second fabric. In summary, "odd" ports go to the first fabric and "even" ports go to the second fabric.

The EVA3000 storage system World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with a "9".
- Controller A, FP2 pWWN ends with an "8".
- Controller B, FP1 pWWN ends with a "D".
- Controller B, FP2 pWWN ends with a "C".

The EVA5000 storage system World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with a "9".
- Controller A, FP2 pWWN ends with an "8".
- Controller B, FP1 pWWN ends with a "D".
- Controller B, FP2 pWWN ends with a "C".

The EVA4000/4100/4400 storage systems World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with an "8".
- Controller A, FP2 pWWN ends with a "9".





- Controller B, FP1 pWWN ends with a "C".
- Controller B, FP2 pWWN ends with a "D".

The EVA6000/6100 storage systems World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with an "8".
- Controller A, FP2 pWWN ends with a "9".
- Controller B, FP1 pWWN ends with a "C".
- Controller B, FP2 pWWN ends with a "D".

The EVA6400 storage systems World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with an "8".
- Controller A, FP2 pWWN ends with a "9".
- Controller A, FP3 pWWN ends with an "A".
- Controller A, FP4 pWWN ends with a "B".
- Controller B, FP1 pWWN ends with a "C".
- Controller B, FP2 pWWN ends with a "D".
- Controller B, FP3 pWWN ends with an "E".
- Controller B, FP4 pWWN ends with an "F".

The EVA8000/8100 storage systems World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with an "8".
- Controller A, FP2 pWWN ends with a "9".
- Controller A, FP3 pWWN ends with an "A".
- Controller A, FP4 pWWN ends with a "B".
- Controller B, FP1 pWWN ends with a "C".
- Controller B, FP2 pWWN ends with a "D".
- Controller B, FP3 pWWN ends with an "E".
- Controller B, FP4 pWWN ends with an "F".

The EVA8400 storage systems World Wide Name (WWN) ends with a "0".

- Controller A, FP1 pWWN ends with an "8".
- Controller A, FP2 pWWN ends with a "9".
- Controller A, FP3 pWWN ends with an "A".
- Controller A, FP4 pWWN ends with a "B".
- Controller B, FP1 pWWN ends with a "C".
- Controller B, FP2 pWWN ends with a "D".
- Controller B, FP3 pWWN ends with an "E".
- Controller B, FP4 pWWN ends with an "F".





3.1 Current Controller Models

EVA Model	Controller Model
EVA3000	HSV100 or HSV101 (VCS 4.x)
EVA4000	HSV200
EVA4100	HSV200-B
EVA4400	HSV300
EVA5000	HSV110 or HSV111 (VCS 4.x)
EVA6000	HSV200 or HSV200-A
EVA6100	HSV200-B
EVA6400	HSV400
EVA8000	HSV210 or HSV210-A
EVA8100	HSV210-B
EVA8400	HSV450

3.2 Drive Count Requirements

3.2.1 EVA3000, EVA5000, EVA4000/4100, EVA6000/6100, EVA8000/8100

- The minimum number of drives per shelf is 4.
- **Caution:** While a shelf with only 1 to 3 drives will pass its diagnostic tests, this is not a supported configuration.
- The minimum number of drives per array is 8.
- Never install a drive shelf without any drives.

3.2.2 EVA4400, EVA6400, EVA8400

- The minimum number of drives per array is 8, except solid state disks.
- The minimum number of solid state drives per array is 6 and the maximum is 8.

3.3 Drive Placement Restrictions

3.3.1 EVA5000

- **Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.
- **Never** use Bay 13 or 14 in drive enclosures with the ID of 17 or 20. The AL-PAs of these bays conflict with the AL-PAs of the controllers. Use of these slots is not supported.





- As a guide, do not install any drives in Bays 13 or 14 in enclosures 15 through 20.

3.3.2 EVA8000/8100

- **Caution:** Failure to observe the disk drive bay restrictions may cause the storage system to become inoperative until all the slots are empty.
- **Never** use Bays 12, 13 or 14 in drive enclosures with the ID of 17 or 20. Some of the AL-PAs of these bays conflict with the AL-PAs of the controllers and others conflict with the new 4GB backend loop switches. Use of these slots is not supported.
- As a guide, do not install any drives in Bays 12, 13 or 14 in enclosures 16, 17 and 19, 20. This will keep both loops equally balanced.

3.4 Expansion Cabinet Requirements

3.4.1 EVA5000

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.
- An EVA without loop switches and daisy chained cables can have intermixed copper fiber channel and optical fiber channel; i.e. optical fiber channel from controller to 1st enclosure and copper fiber channel from 1st enclosure to second enclosure etc.
- **Caution:** For proper copper fiber channel cable support the IO modules have to be at Rev E or higher.

3.4.2 EVA8000/8100

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.
- An EVA without loop switches and daisy chained cables can have intermixed copper fiber channel and optical fiber channel; i.e. optical fiber channel from controller to 1st enclosure and copper fiber channel from 1st enclosure to second enclosure etc.
- **Caution:** For proper copper fiber channel cable support the IO modules have to be at Rev E or higher.

3.4.3 EVA8400

- Cables in the main EVA rack can be either copper fiber channel or optical fiber channel.
- Cables crossing between racks must be optical fiber channel.

3.5 Drive Enclosure Requirements

3.5.1 EVA3000, EVA4000/4100

- The minimum number of enclosures is 1.
- The maximum number of enclosures is 4.
- **Recommendation** is to have an enclosure count divisible by 2.





3.5.2 EVA4400, EVA6000/6100

- The minimum number of enclosures is 1.
- The maximum number of enclosures is 8.
- **Recommendation** is to have an enclosure count divisible by 2.

3.5.3 EVA5000, EVA6400, EVA8000/8100

- The minimum number of enclosures is 2.
- The maximum number of enclosures is 18.
- **Recommendation** is to have an enclosure count divisible by 2.

3.5.4 EVA8400

- The minimum number of enclosures is 3.
- The maximum number of enclosures is 27.
- **Recommendation** is to have an enclosure count divisible by 3.

3.6 Backend Loops

3.6.1 EVA3000, EVA4000/4100, EVA4400, EVA6000/6100

- These arrays have 1 backend loop.

3.6.2 EVA5000, EVA6400, EVA8000/8100

- These arrays have 2 backend loops.

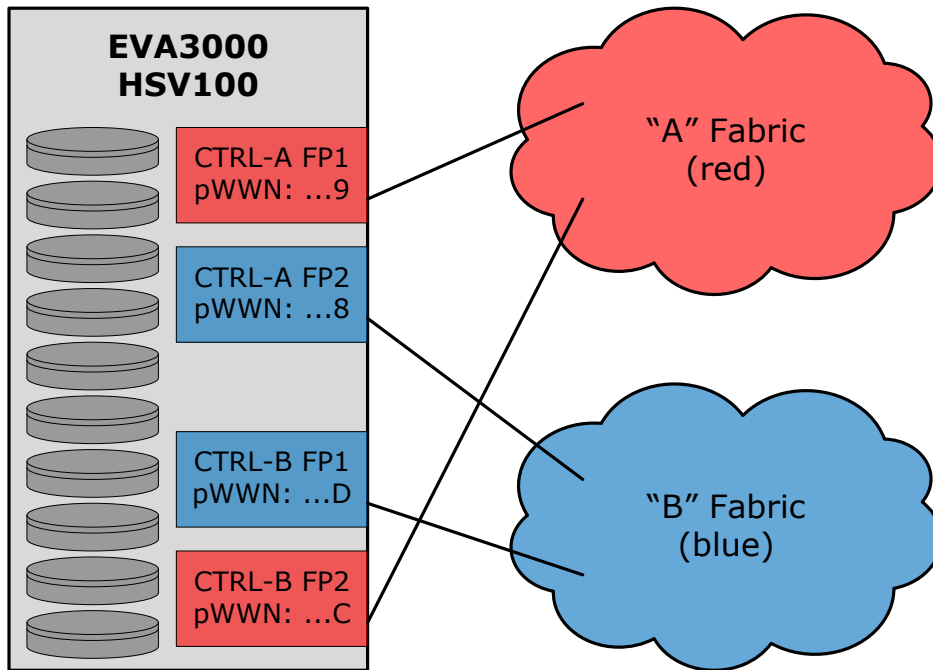
3.6.3 EVA8400

- This array has 3 backend loops.

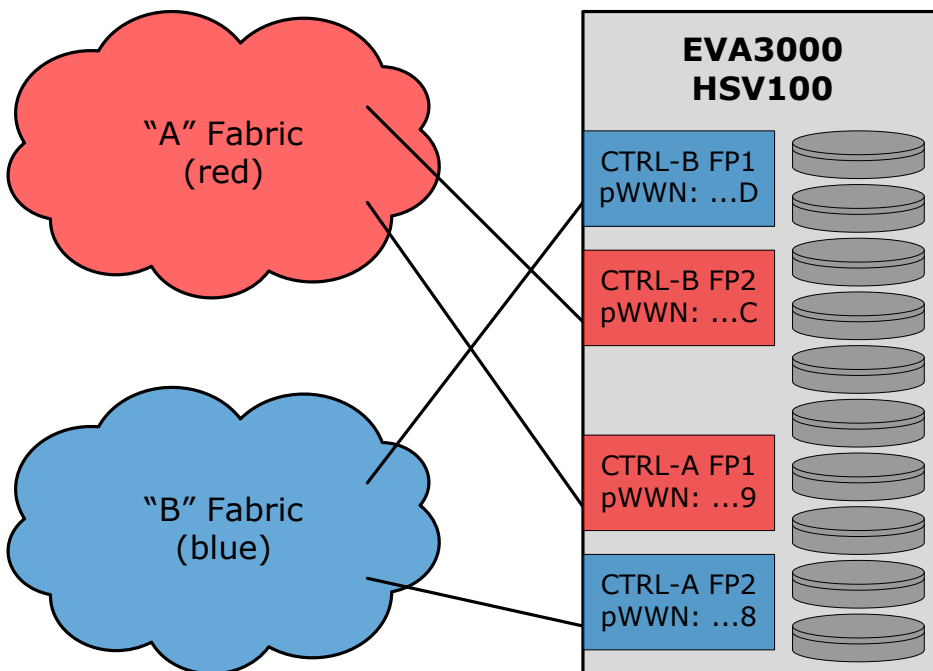


4 EVA3000 - HSV100

4.1 EVA3000 - HSV100 - "A" Controller is on the Top

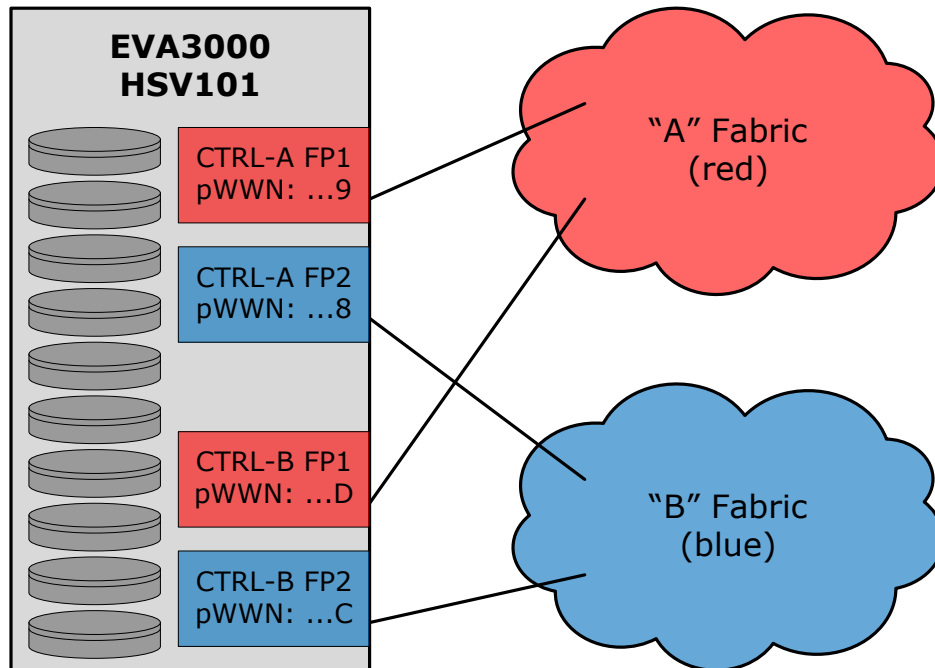


4.2 EVA3000 - HSV100 - "A" Controller is on the Bottom

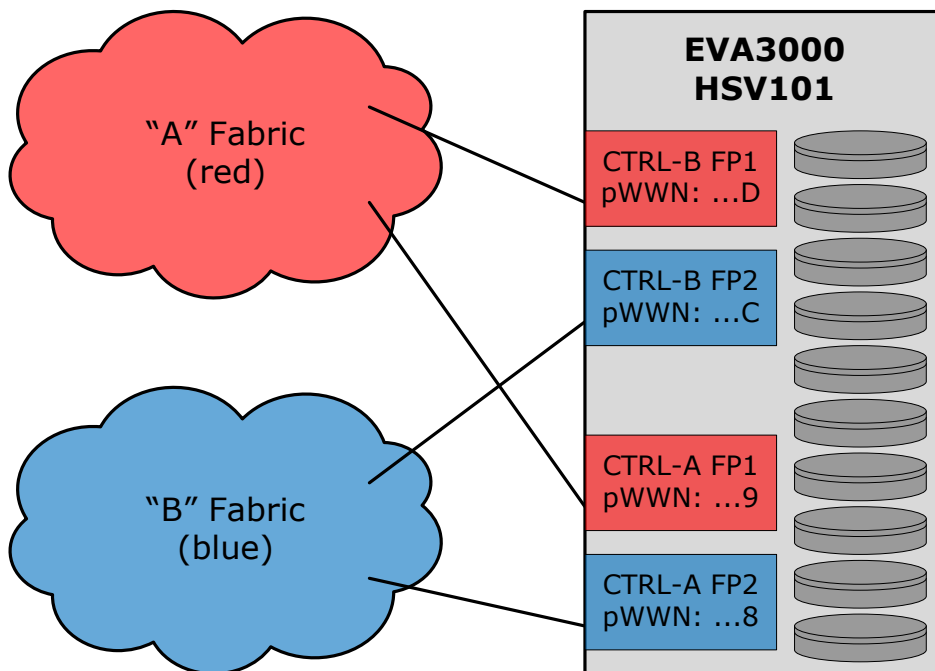


5 EVA3000 - HSV101 (VCS 4.x)

5.1 EVA3000 - HSV101 - "A" Controller is on the Top

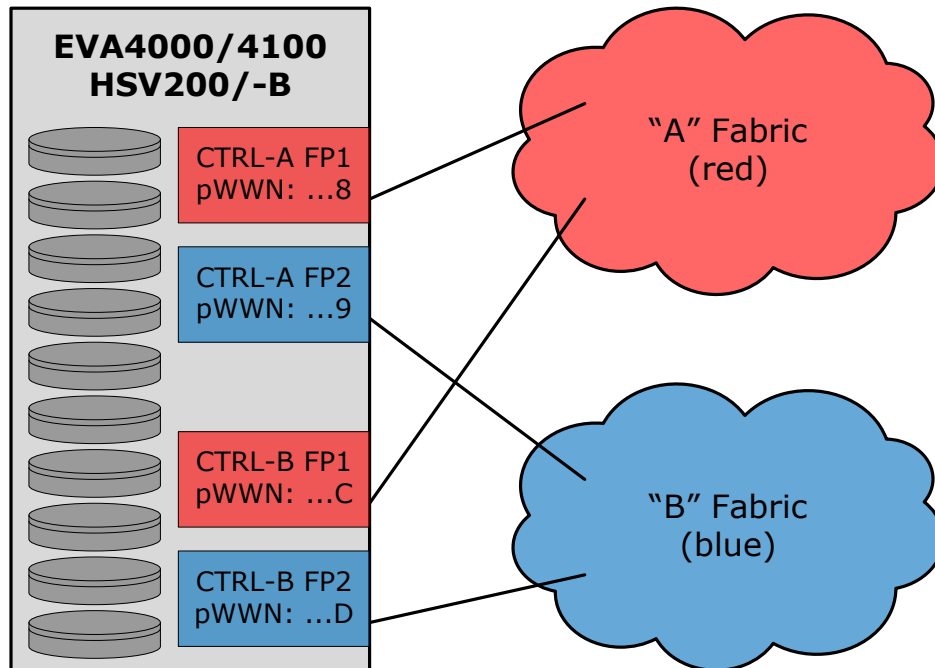


5.2 EVA3000 - HSV101 - "A" Controller is on the Bottom

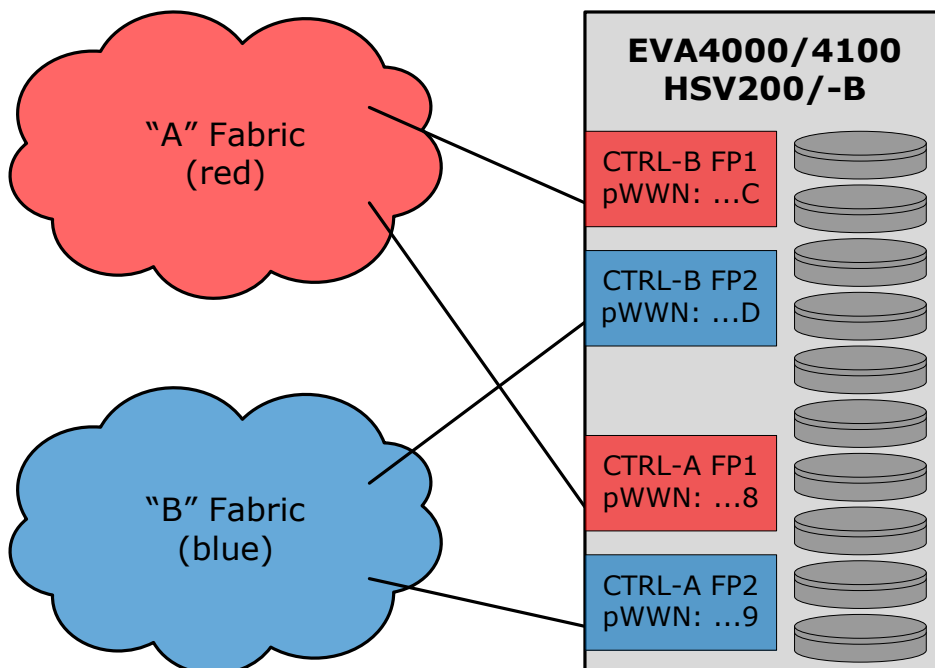


6 EVA4000/4100 - HSV200/-B

6.1 EVA4000/4100 - HSV200/-B - "A" Controller is on the Top



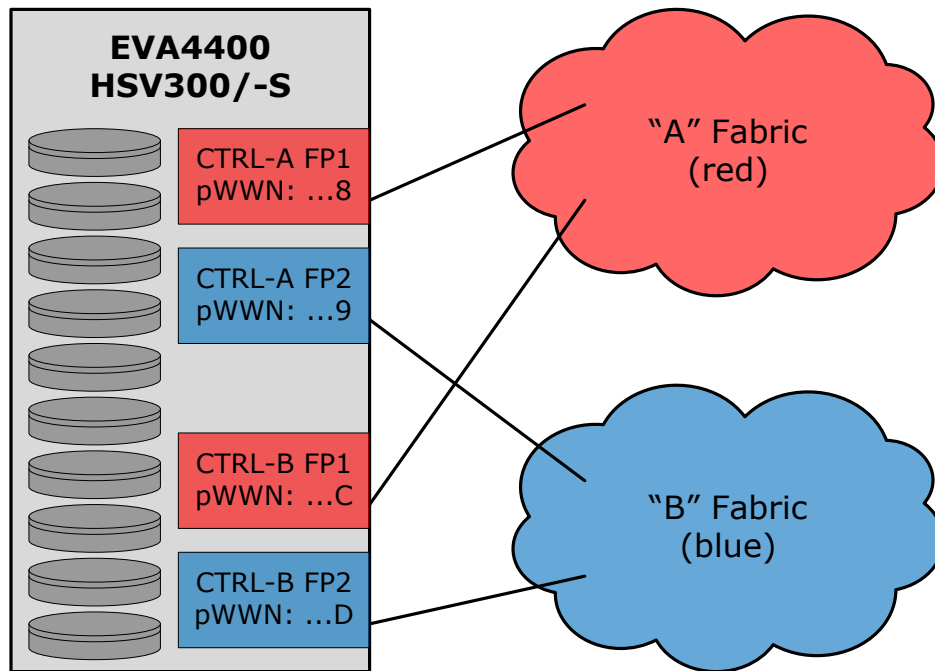
6.2 EVA4000/4100 - HSV200/-B - "A" Controller is on the Bottom



7 EVA4400 - HSV300/-S

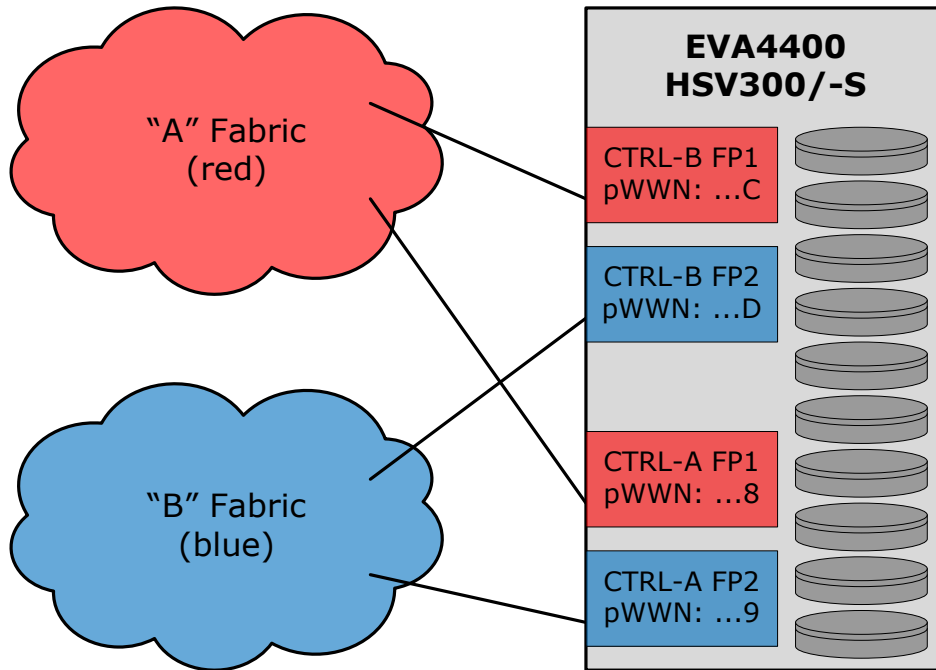
7.1 EVA4400 - HSV300/-S - "A" Controller is on the Left

- When looking at the EVA4400 from the rear, the "A" Controller would be on the left-hand side.
- Controller "A" is shown as Controller "1" in Command View EVA.



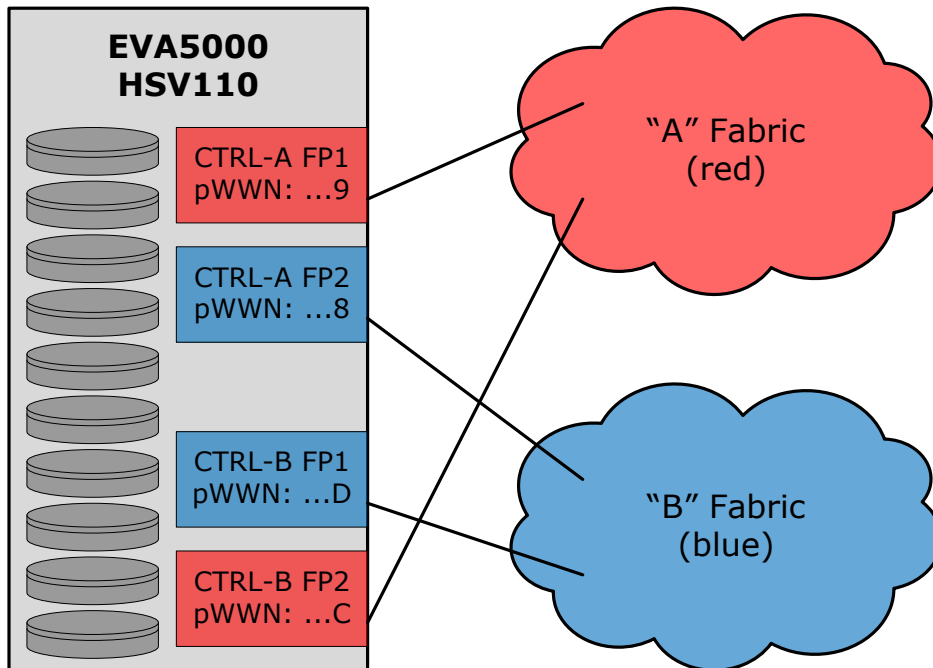
7.2 EVA4400 - HSV300/-S - "A" Controller is on the Right

- When looking at the EVA4400 from the rear, the "A" Controller would be on the right-hand side.
- Controller "A" is shown as Controller "2" in Command View EVA.

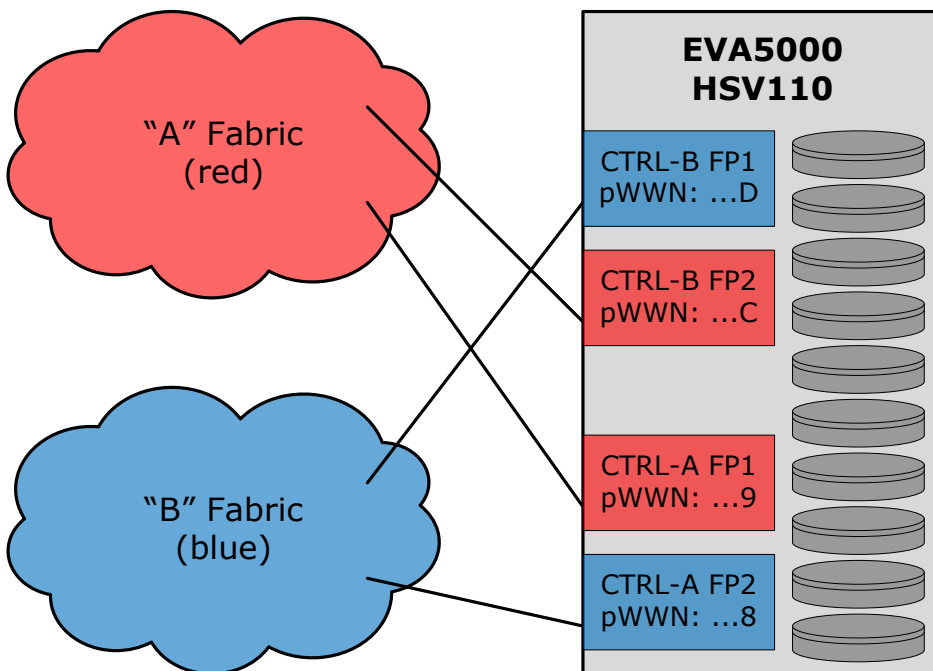


8 EVA5000 - HSV110

8.1 EVA5000 - HSV110 - "A" Controller is on the Top

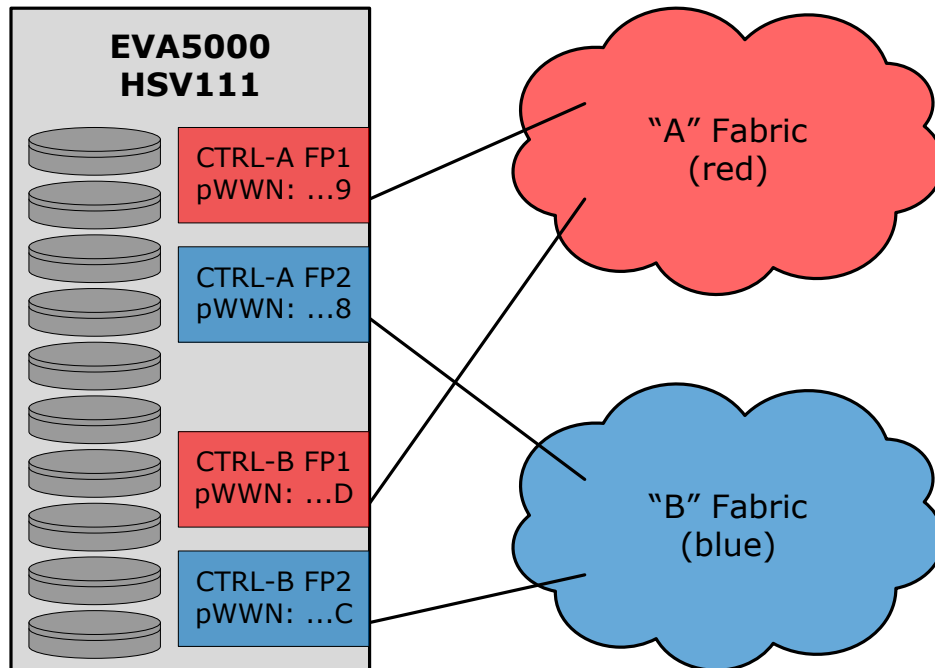


8.2 EVA5000 - HSV110 - "A" Controller is on the Bottom

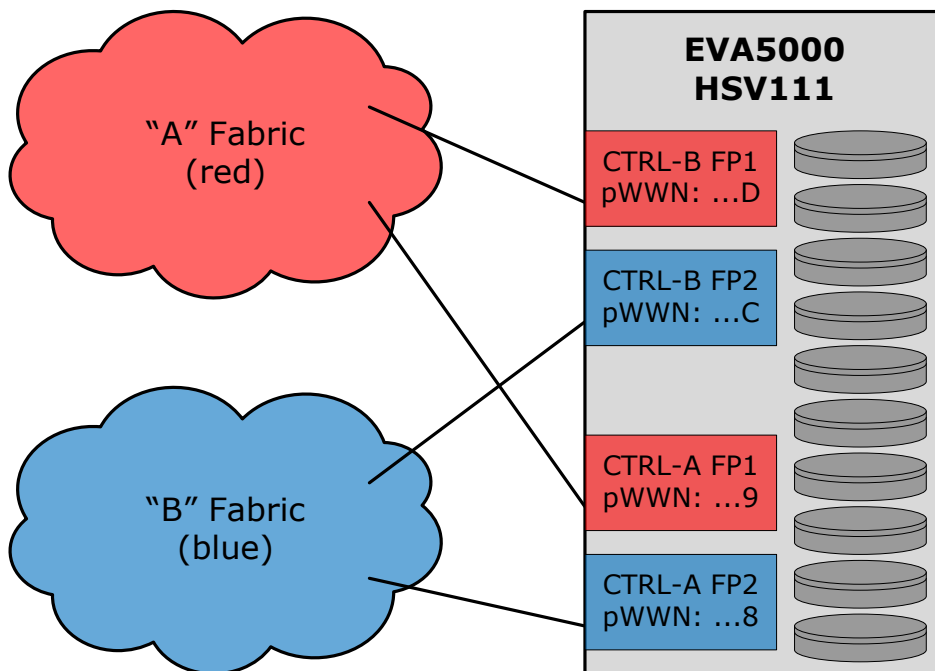


9 EVA5000 - HSV111 (VCS 4.x)

9.1 EVA5000 - HSV111 - "A" Controller is on the Top

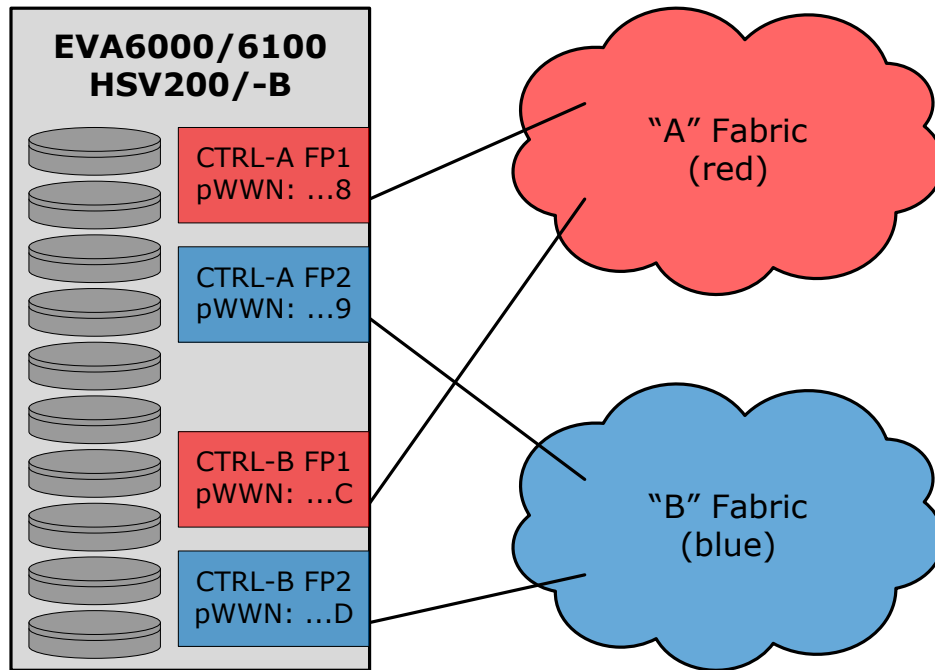


9.2 EVA5000 - HSV111 - "A" Controller is on the Bottom

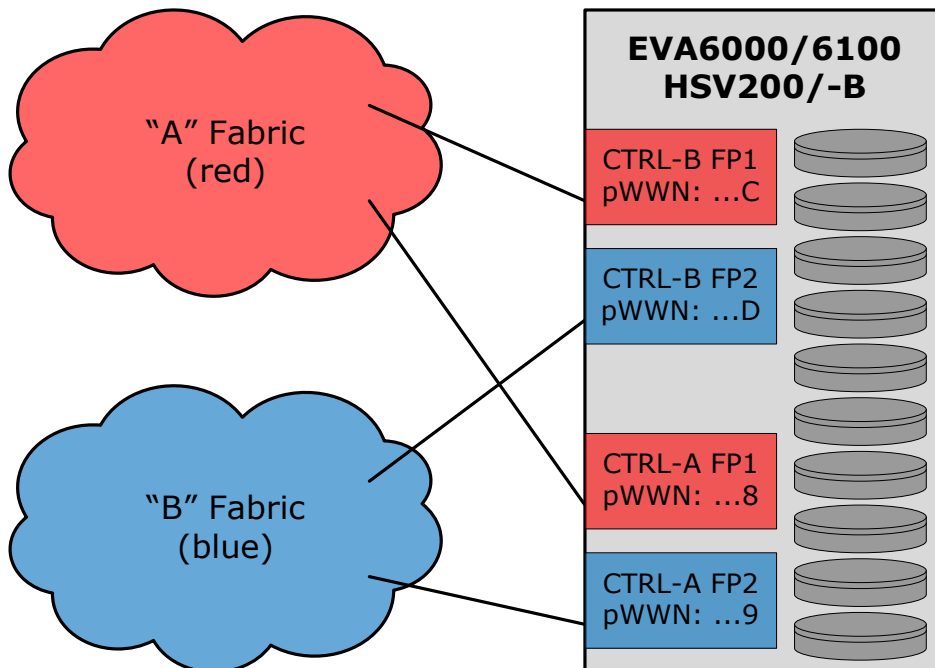


10 EVA6000/6100 - HSV200/-B

10.1 EVA6000/6100 - HSV200/-B - "A" Controller is on the Top

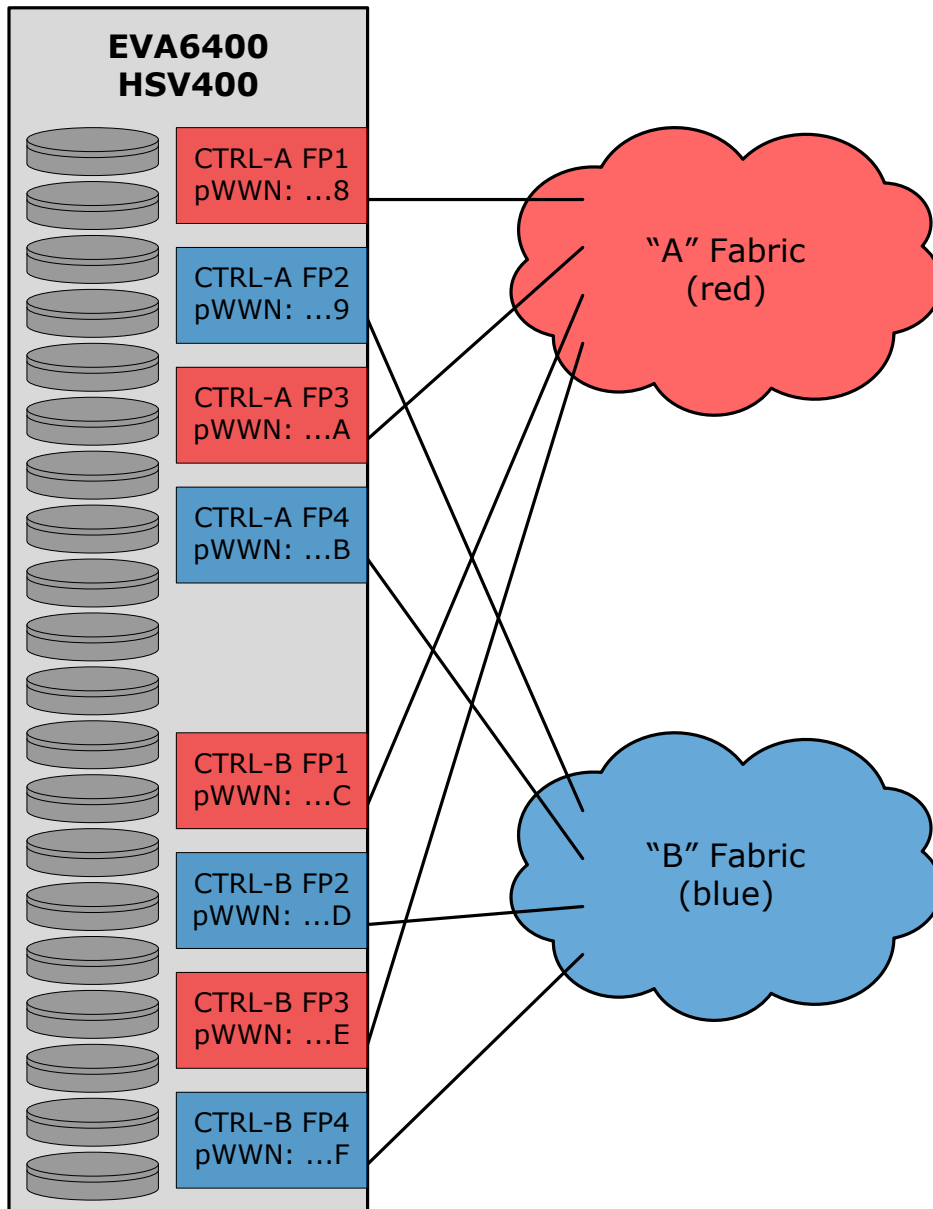


10.2 EVA6000/6100 - HSV200/-B - "A" Controller is on the Bottom



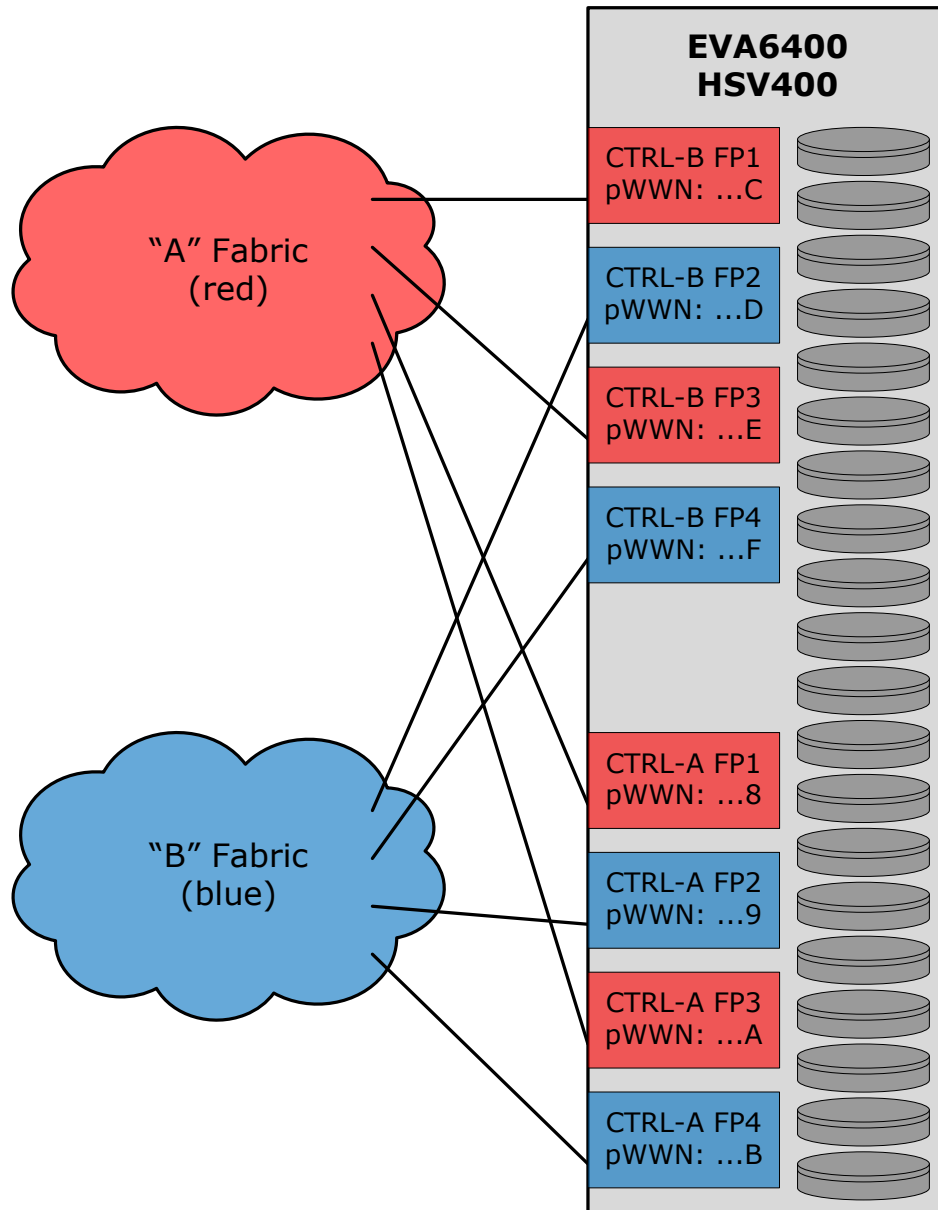
11 EVA6400 – HSV400

11.1 EVA6400 – HSV400 - "A" Controller is on the Top



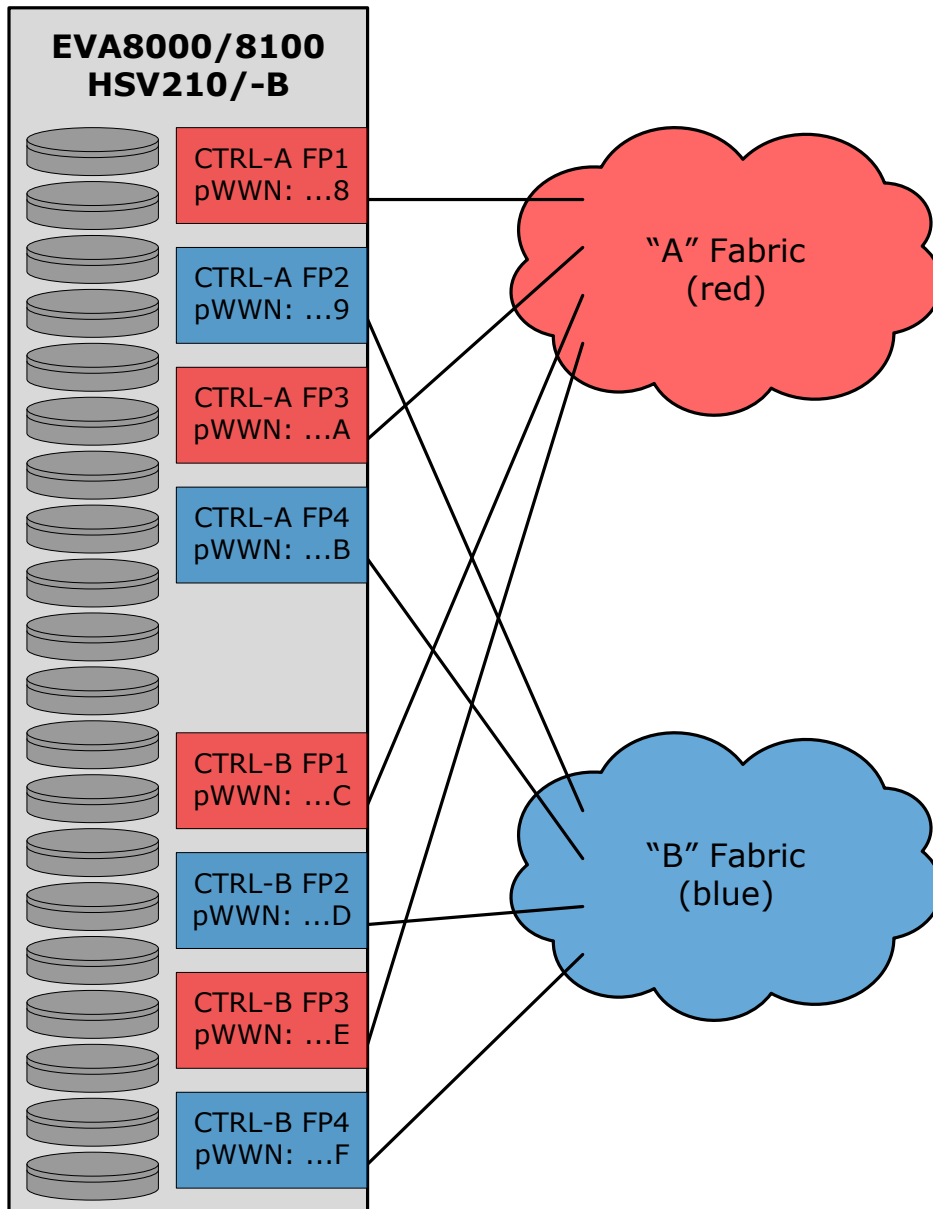


11.2 EVA6400 – HSV400 - "A" Controller is on the Bottom



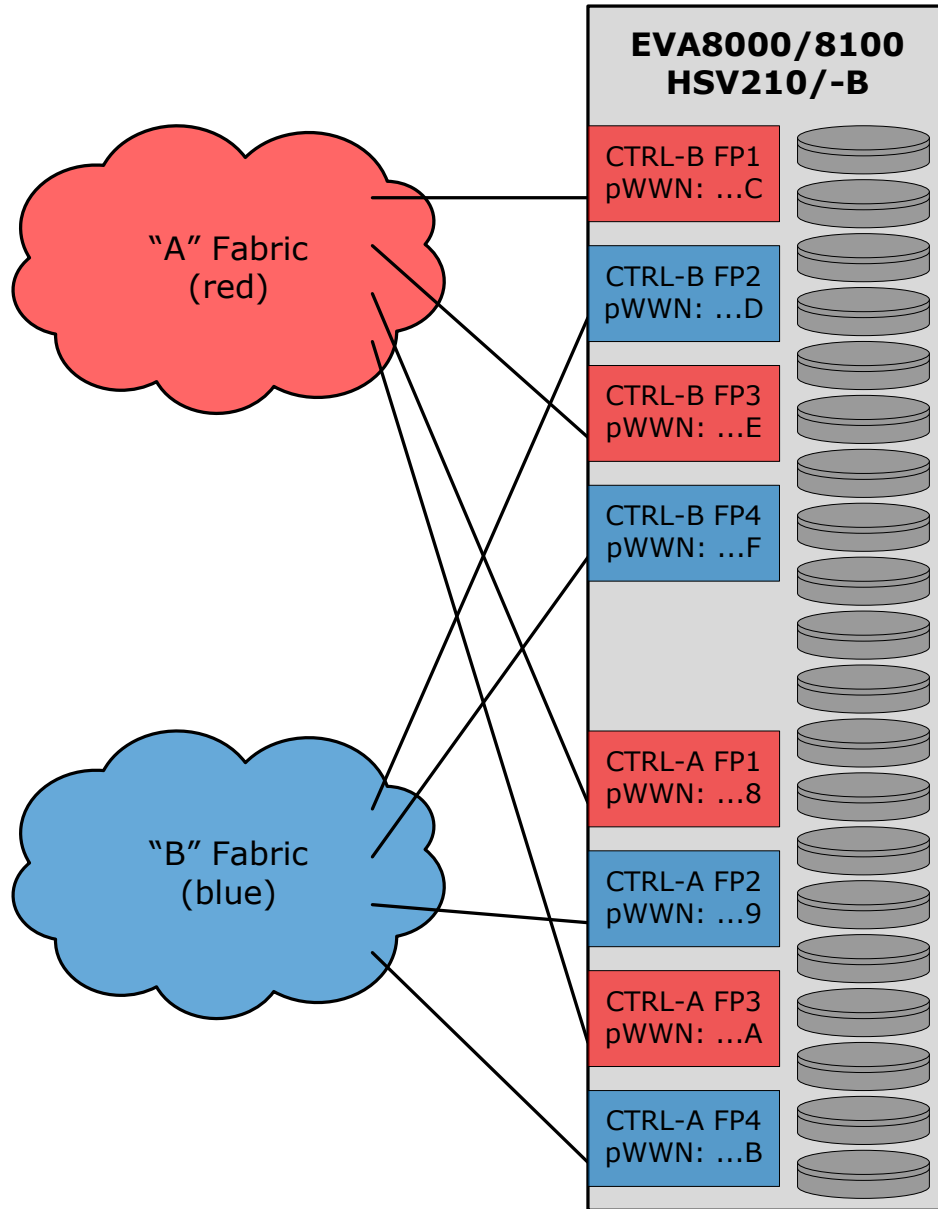
12 EVA8000/8100 - HSV210/-B

12.1 EVA8000/8100 - HSV210/-B - "A" Controller is on the Top



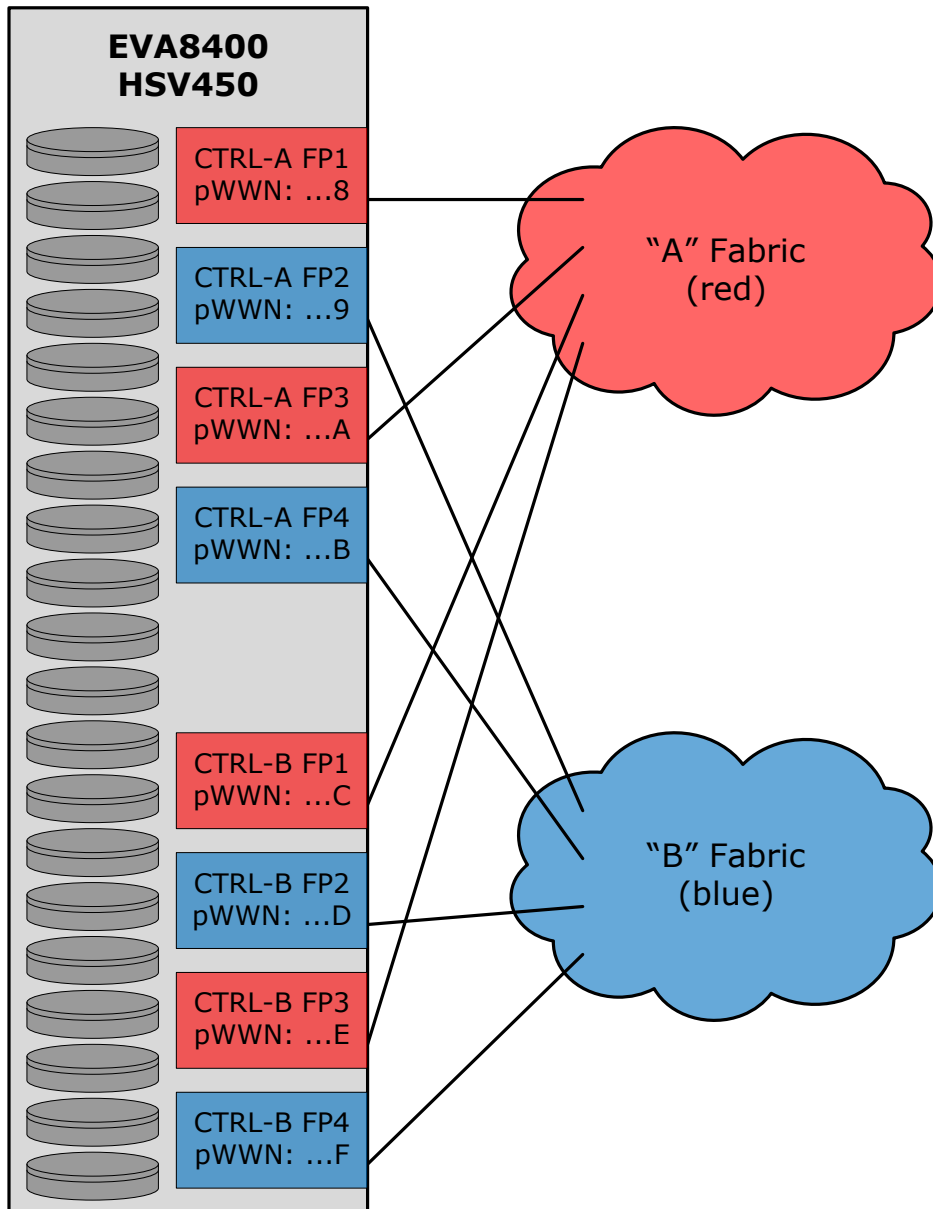


12.2 EVA8000/8100 - HSV210/-B - "A" Controller is on the Bottom



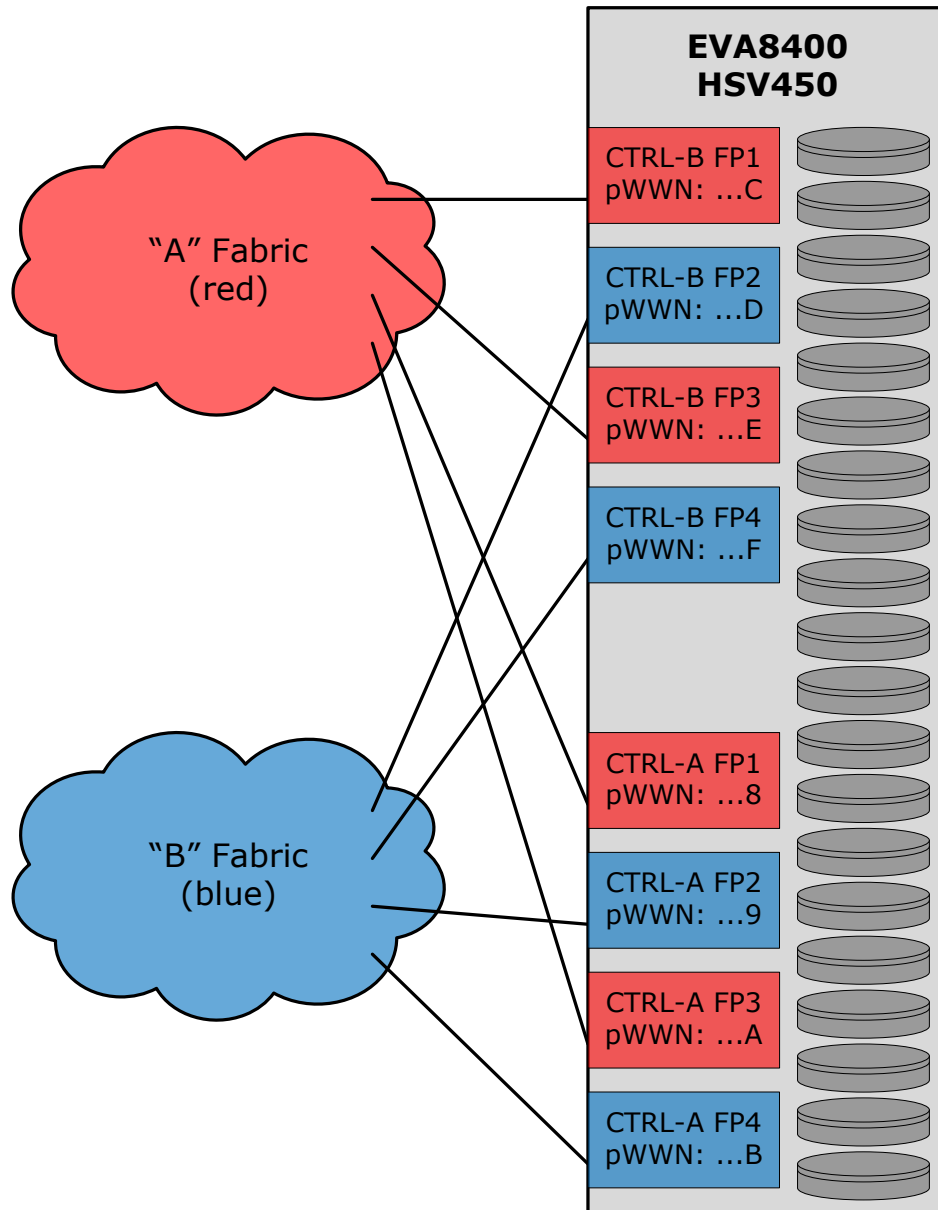
13 EVA8400 – HSV450

13.1 EVA8400 – HSV450 - "A" Controller is on the Top



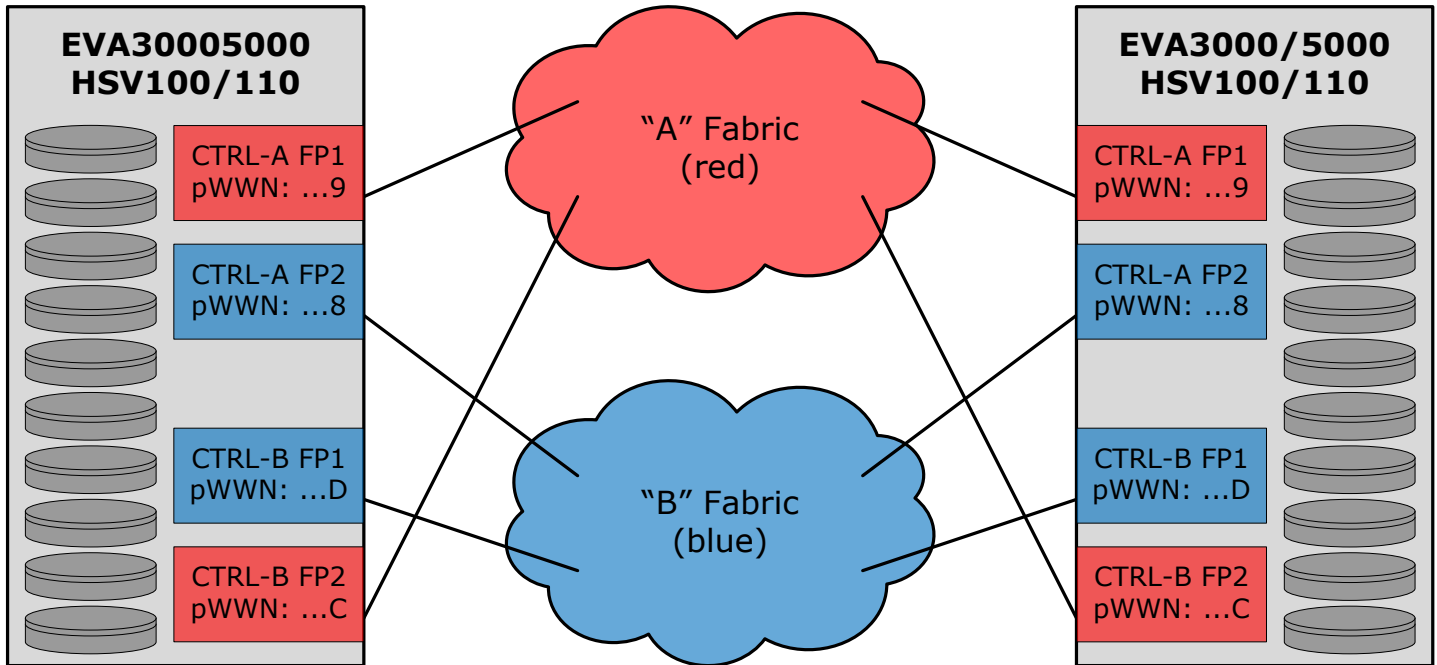


13.2 EVA8400 – HSV450 - "A" Controller is on the Bottom

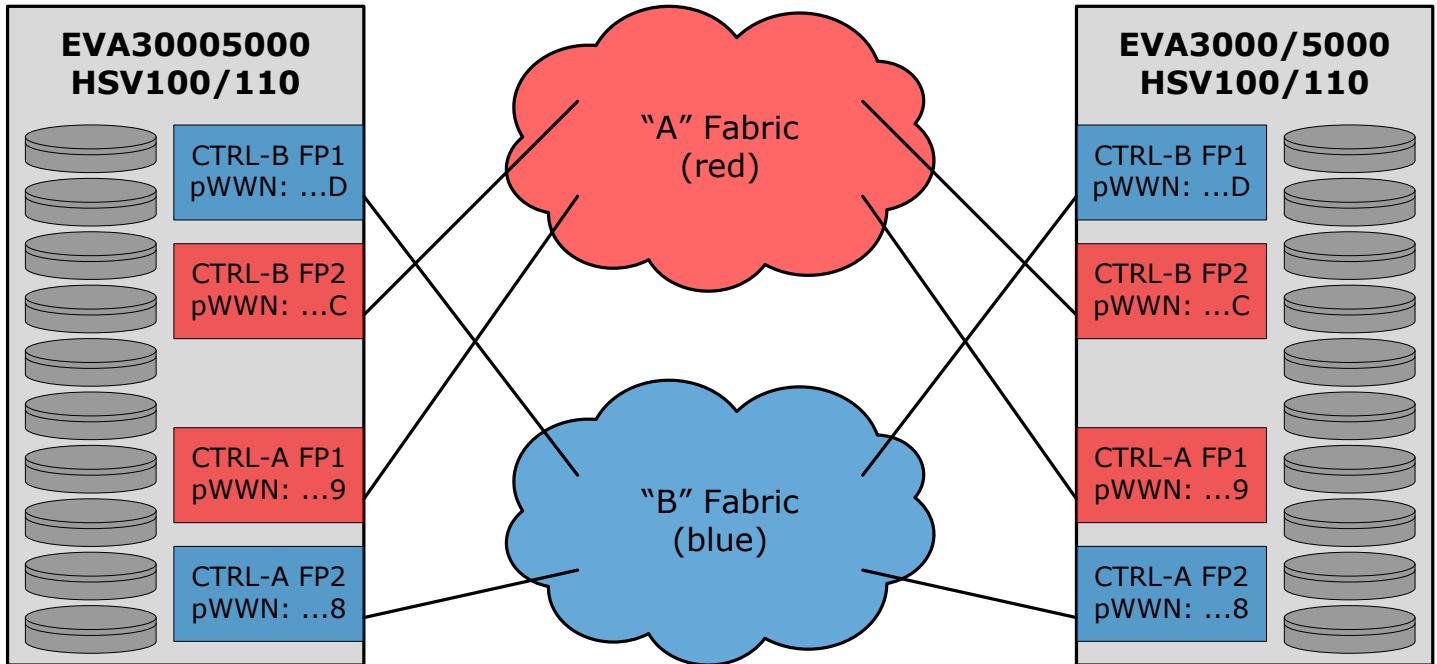


14 Continuous Access - EVA3000/5000 to EVA3000/5000

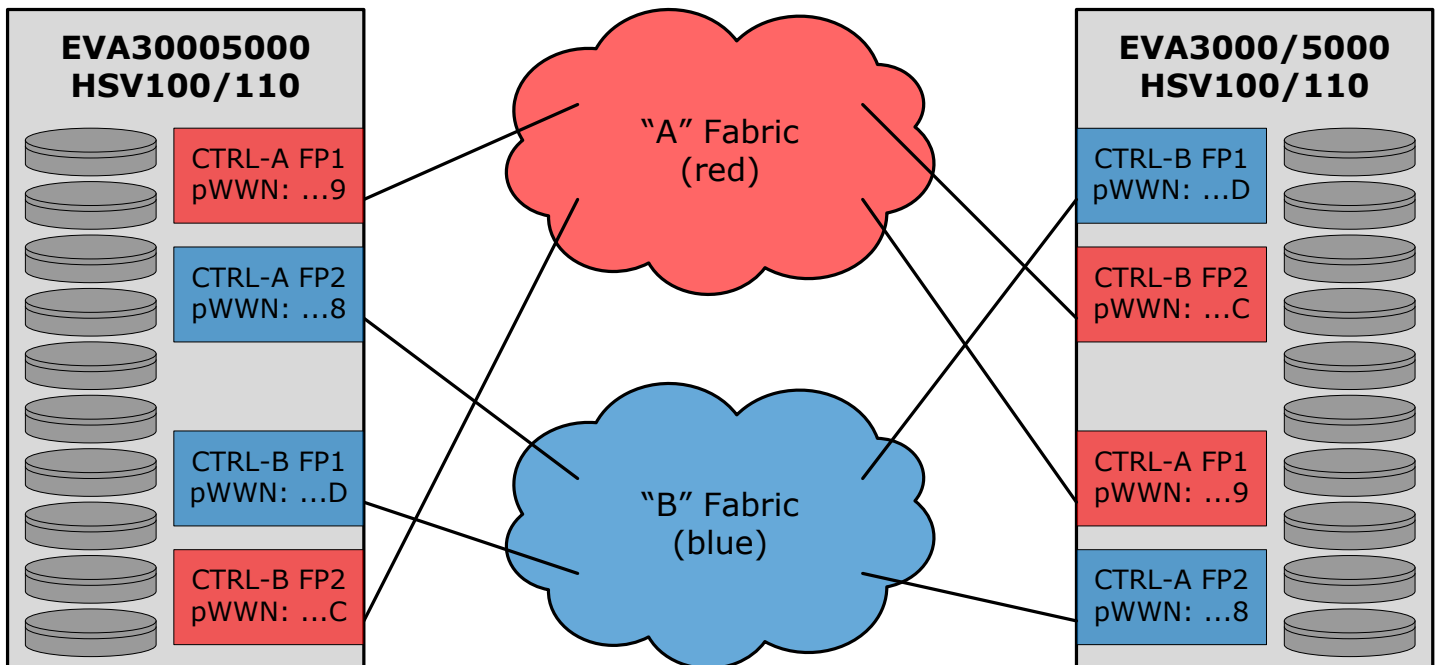
14.1 EVA3000/5000 to EVA3000/5000 - "A" Controllers are on the Top



14.2 EVA3000/5000 to EVA3000/5000 - "A" Controllers are on the Bottom



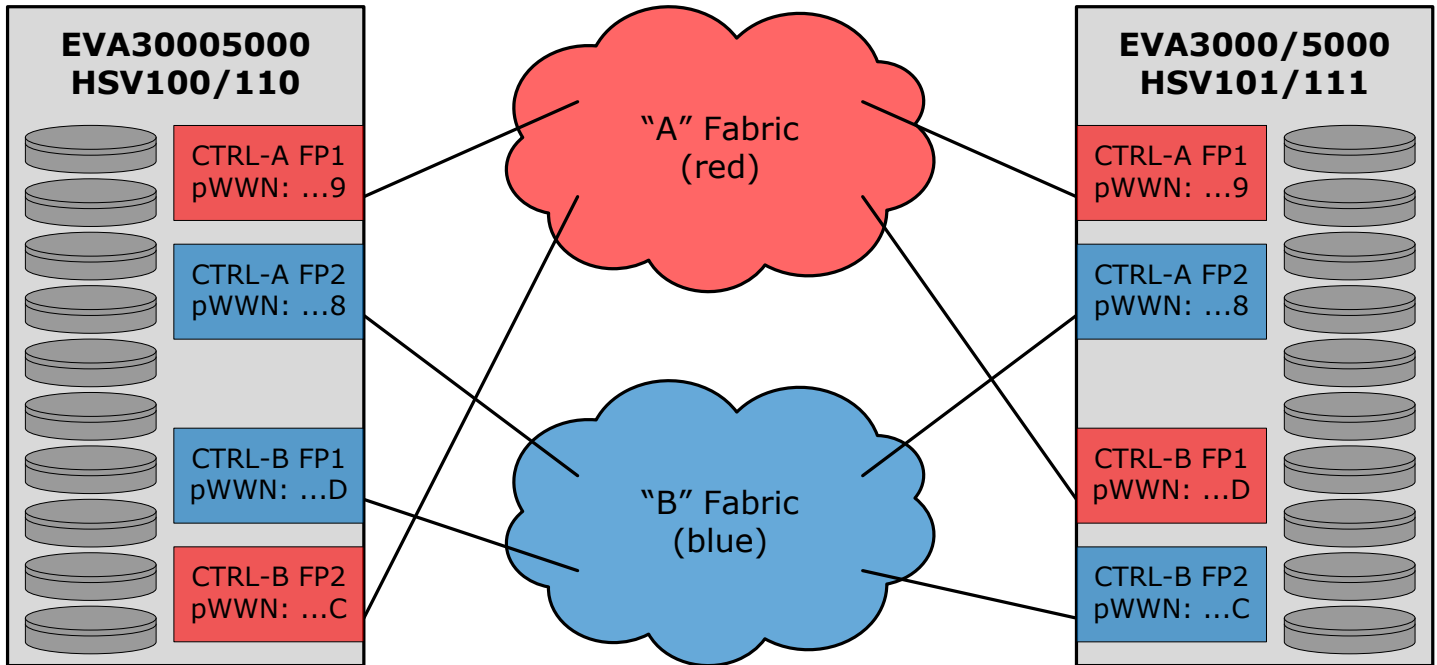
14.3 EVA3000/5000 to EVA3000/5000 - "A" Controllers are Reversed





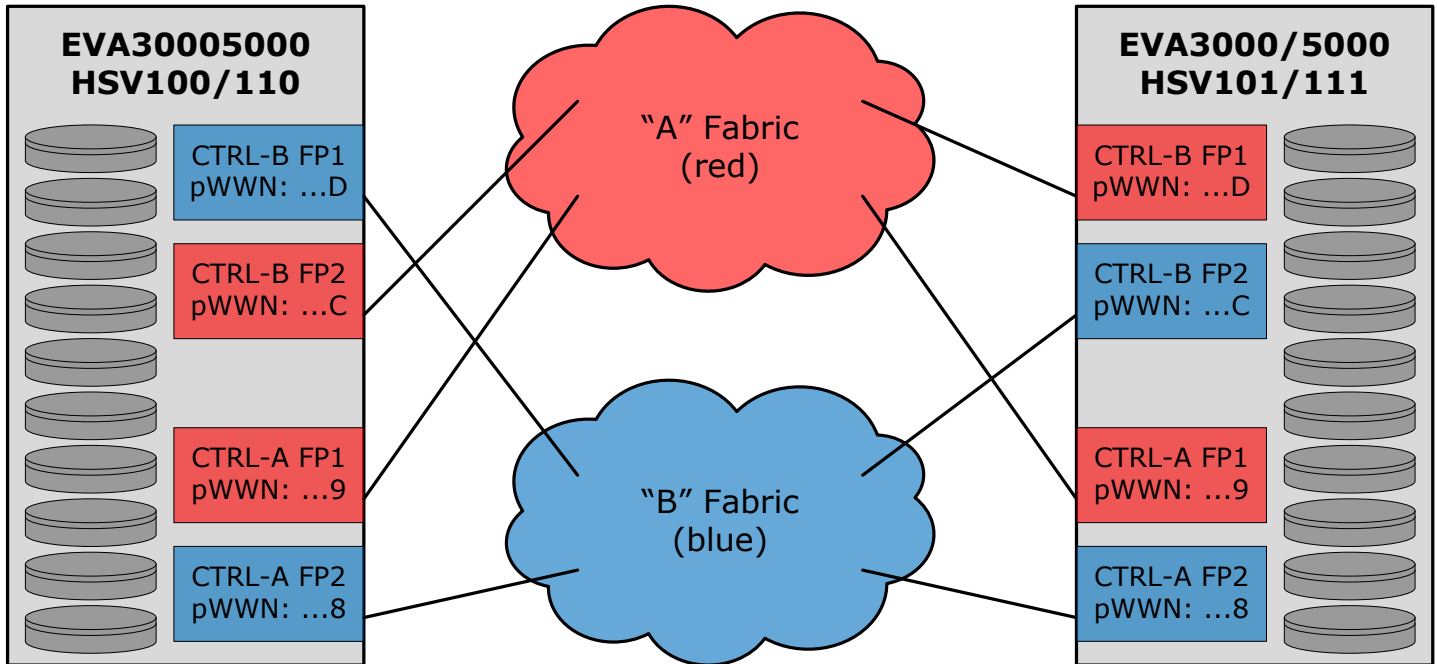
15 Continuous Access - EVA3000/5000 to EVA3000/5000 with VCS 4.x

15.1 EVA3000/5000 to EVA3000/5000 with VCS 4.x - "A" Controllers are on the Top

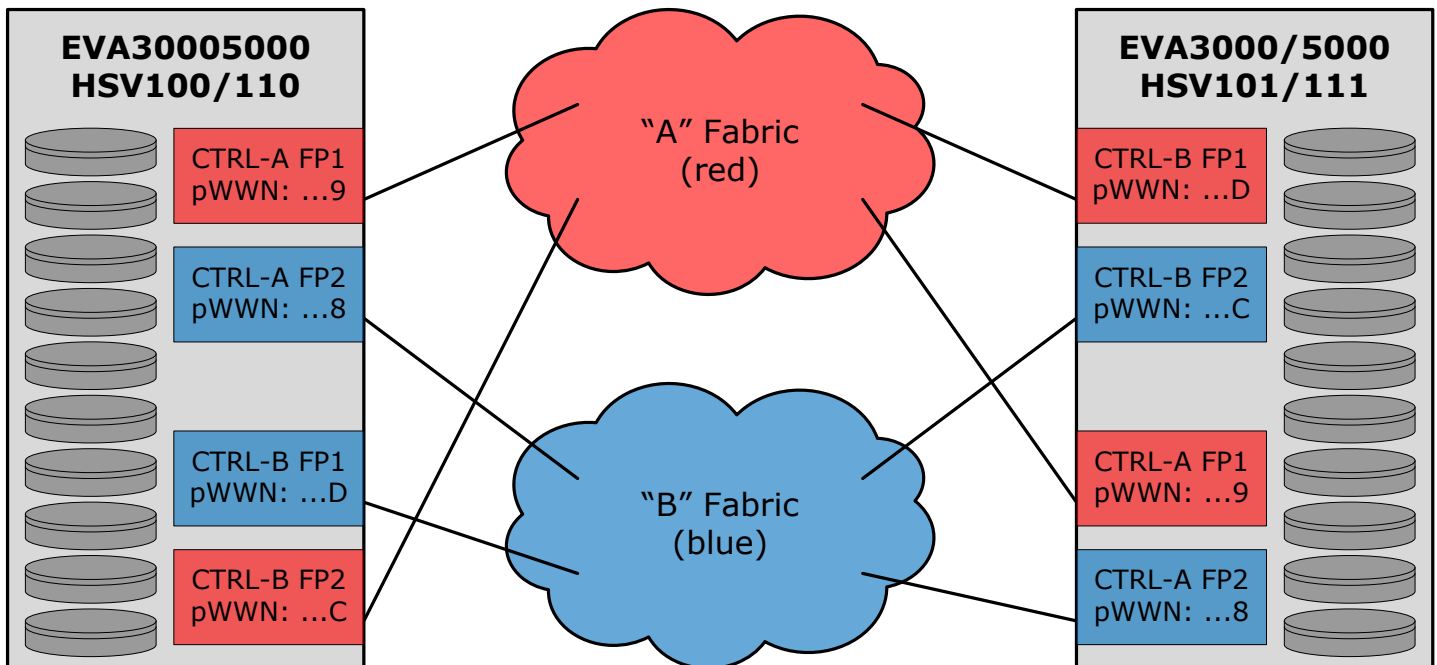




15.2 EVA3000/5000 to EVA3000/5000 with VCS 4.x - "A" Controllers are on the Bottom

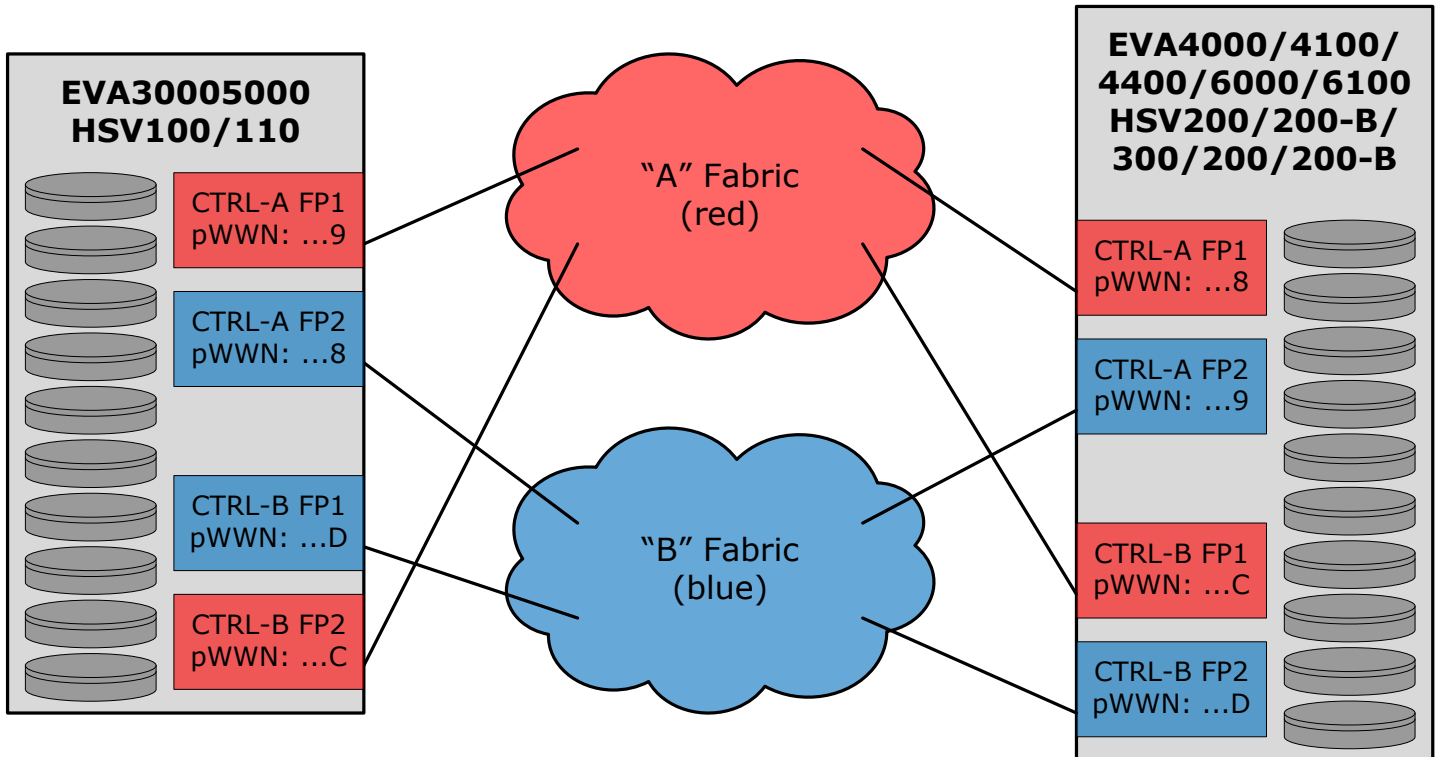


15.3 EVA3000/5000 to EVA3000/5000 with VCS 4.x - "A" Controllers are Reversed



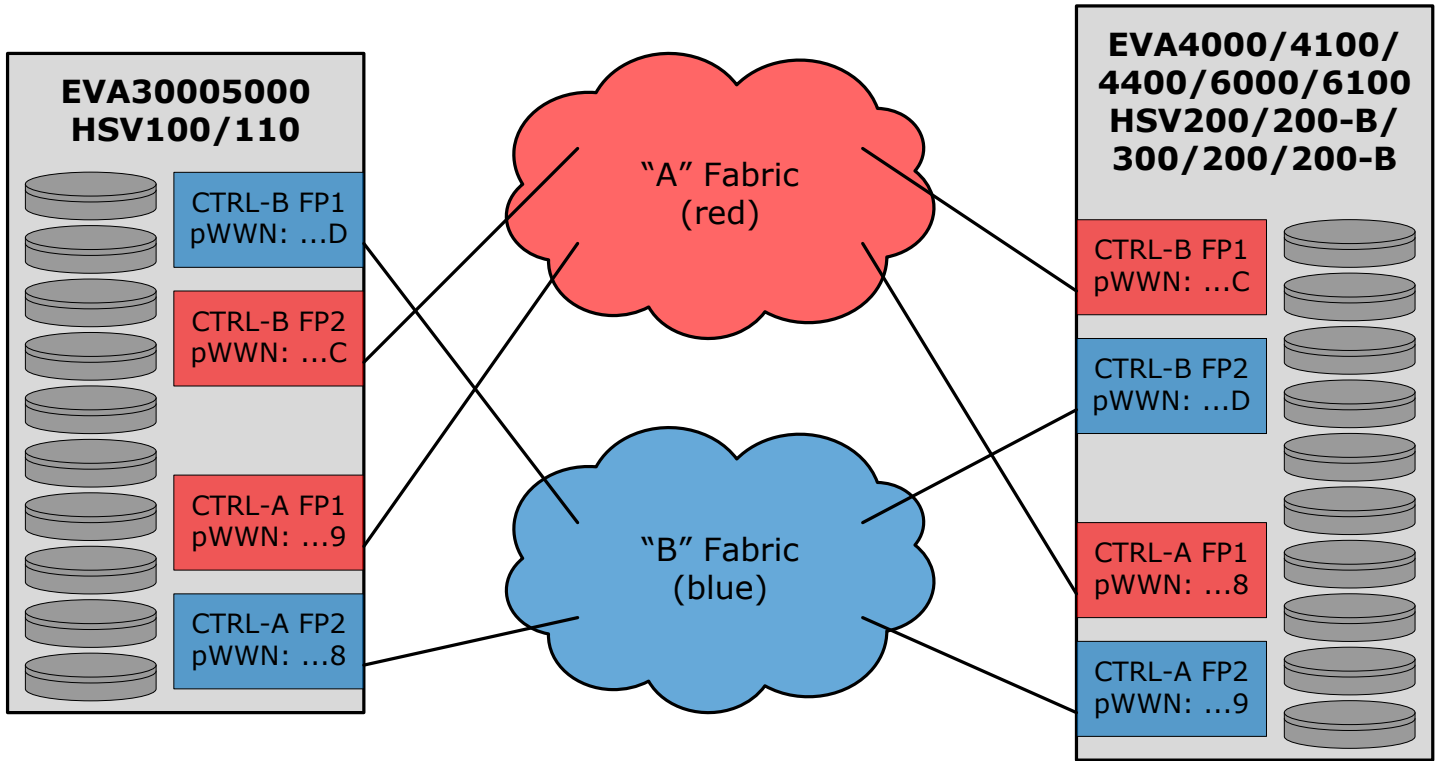
16 Continuous Access - EVA3000/5000 to EVA4000/4100/4400/6000/6100

16.1 EVA3000/5000 to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Top



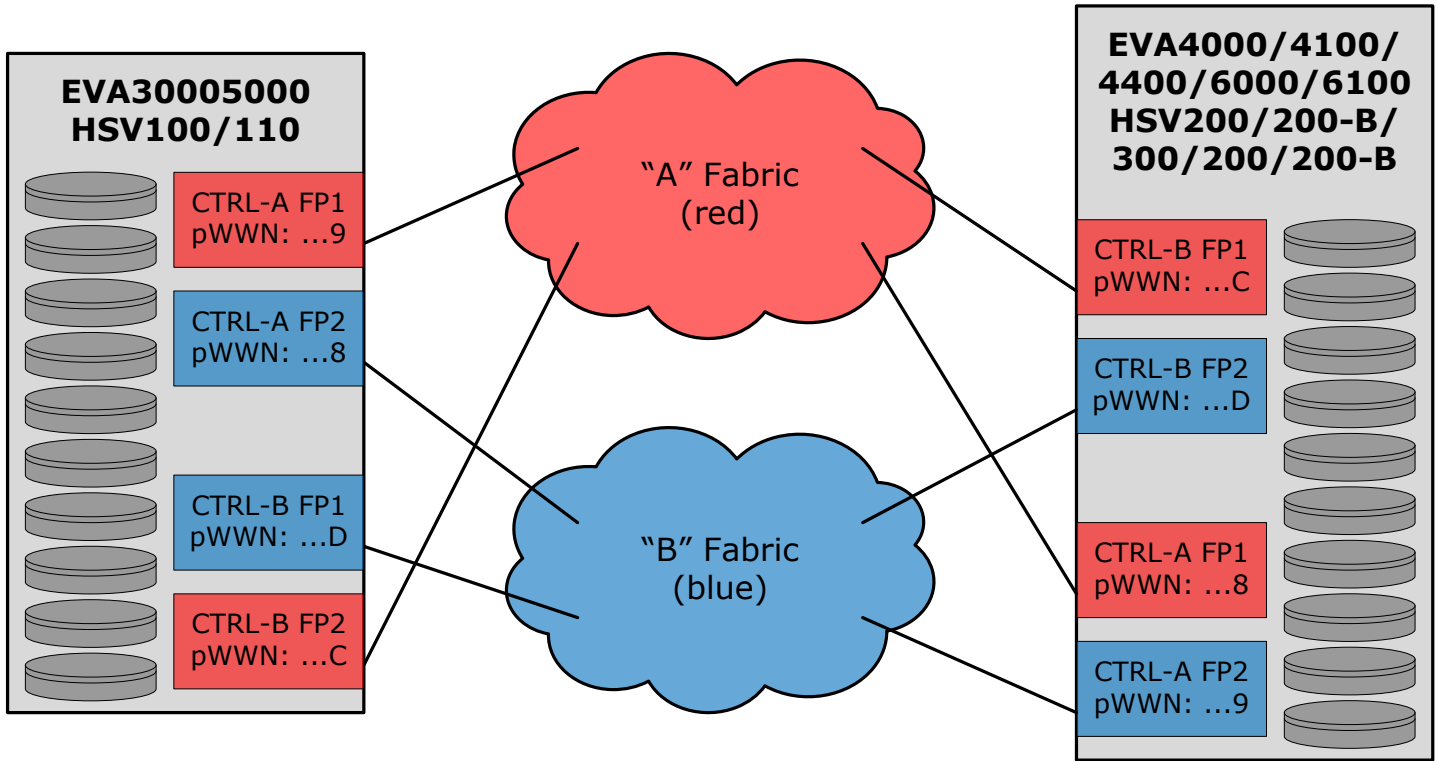


16.2 EVA3000/5000 to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Bottom



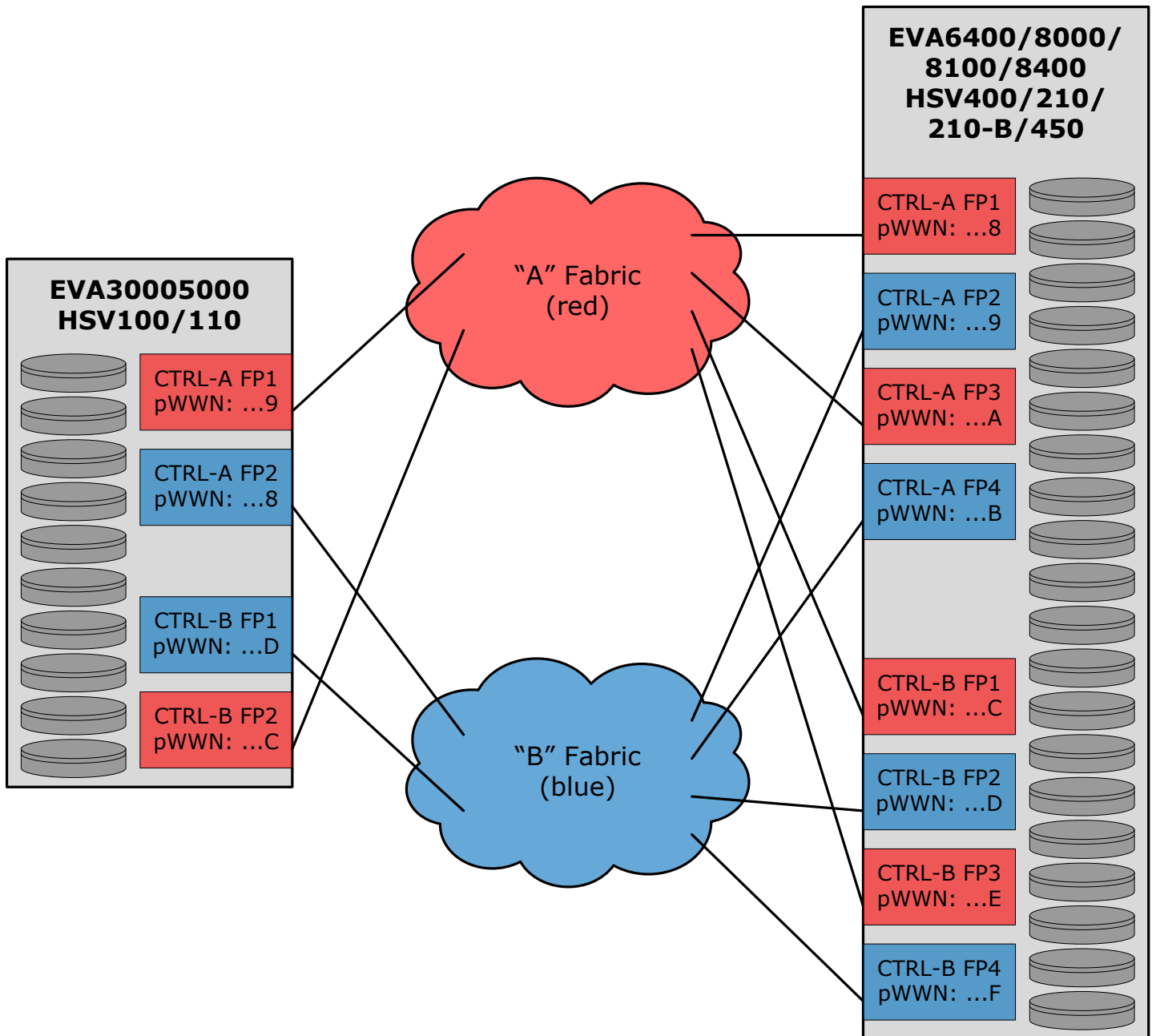


16.3 EVA3000/5000 to EVA4000/4100/4400/6000/6100 - "A" Controllers are Reversed



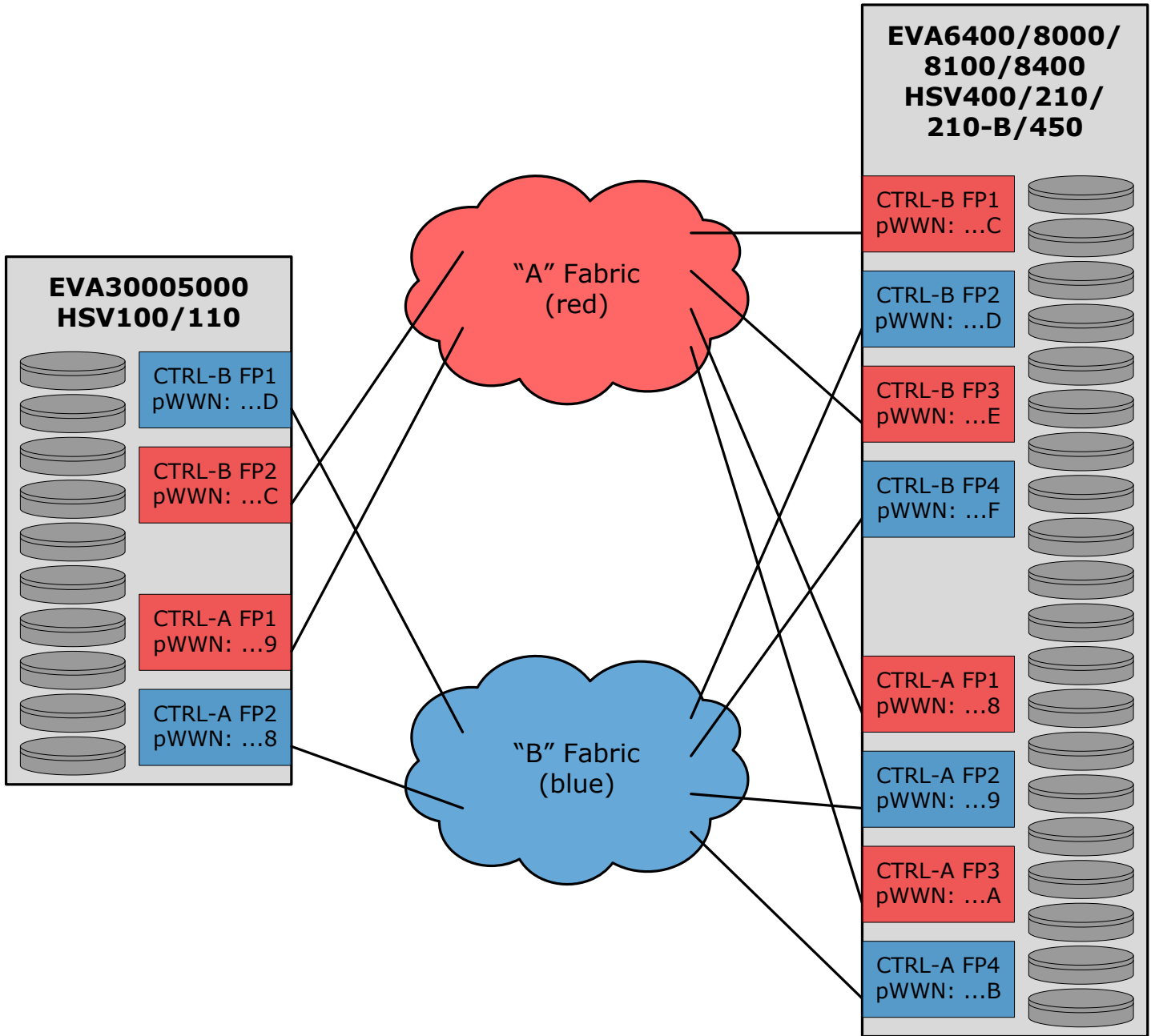
17 Continuous Access - EVA3000/5000 to EVA6400/8000/8100/8400

17.1 EVA3000/5000 to EVA6400/8000/8100/8400 - "A" Controllers are on the Top



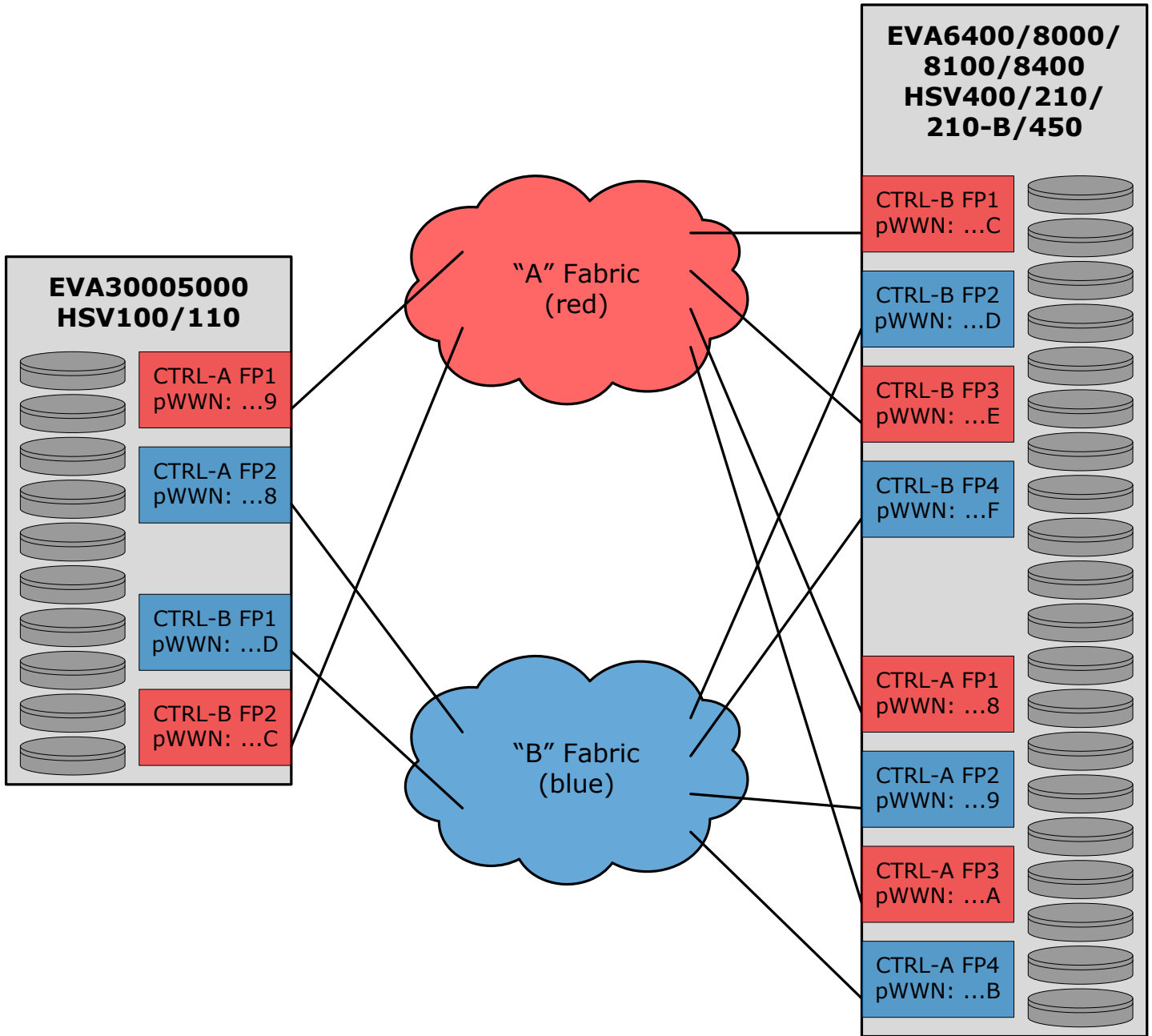


17.2 EVA3000/5000 to EVA6400/8000/8100/8400 - "A" Controllers are on the Bottom



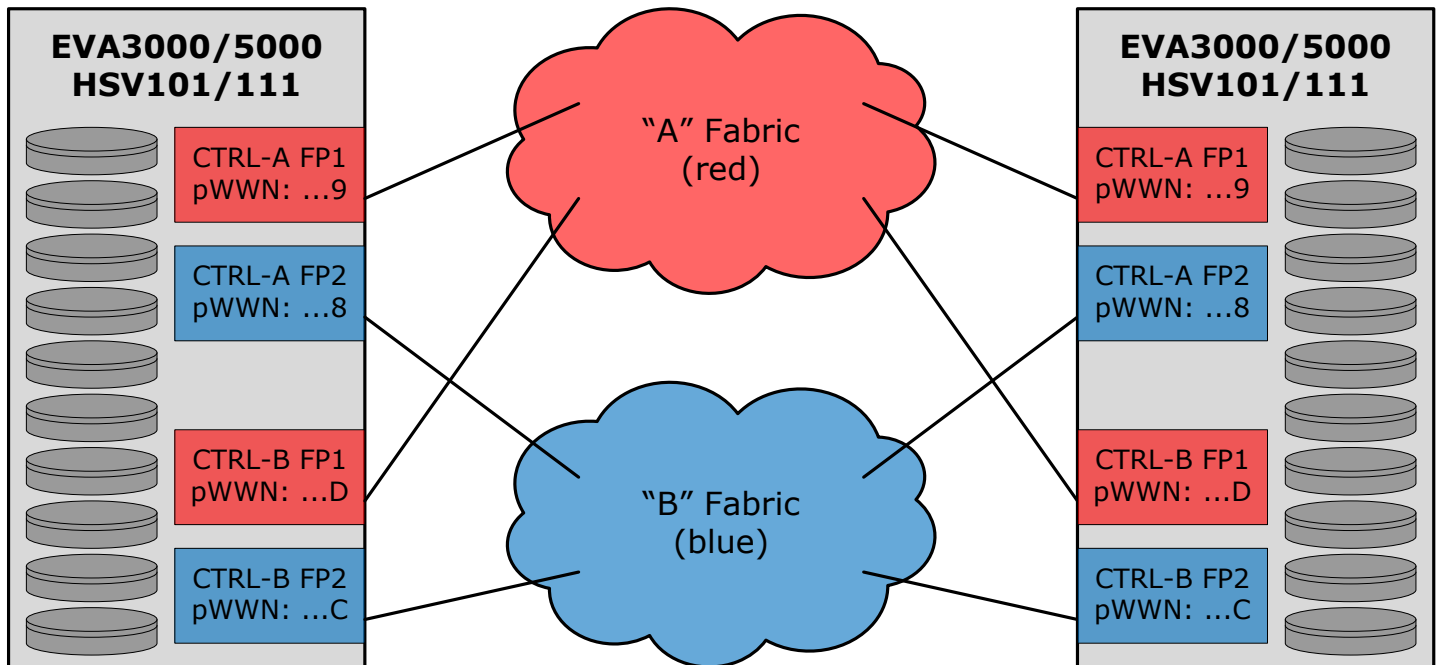


17.3 EVA3000/5000 to EVA6400/8000/8100/8400 - "A" Controllers are Reversed

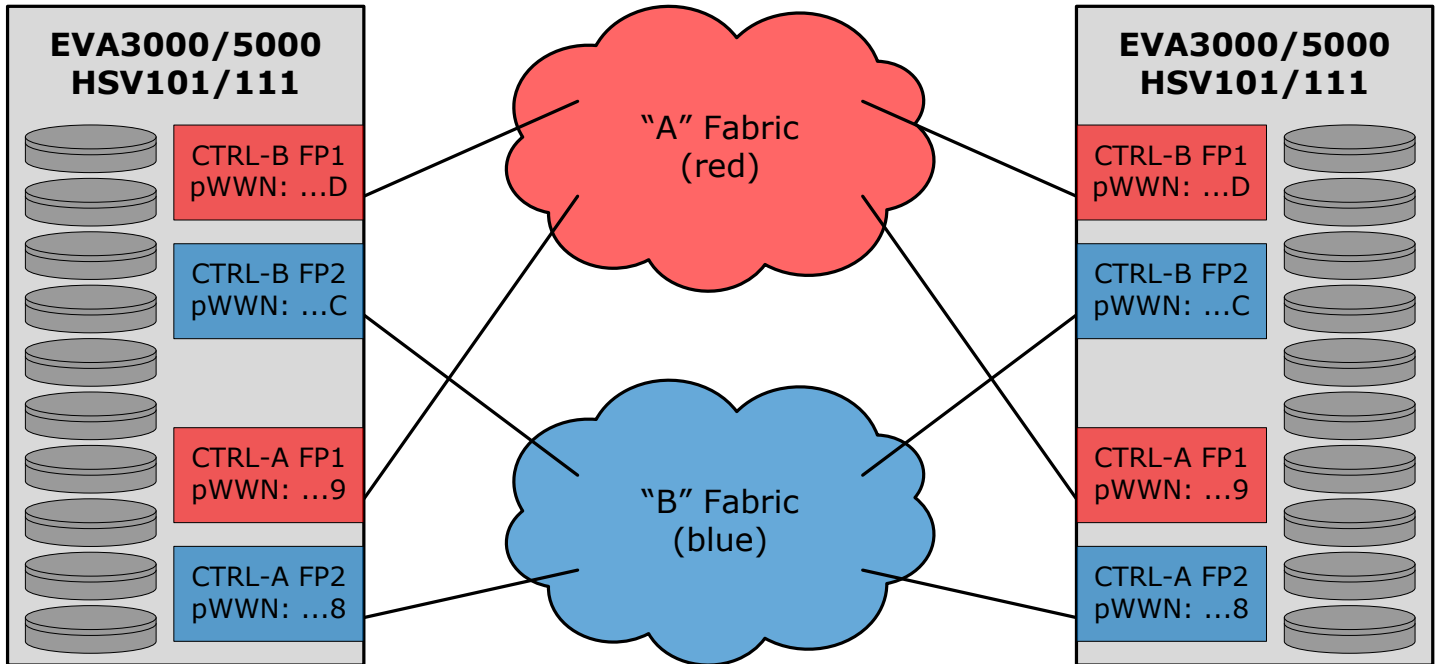


18 Continuous Access - EVA3000/5000 with VCS 4.x to EVA3000/5000 with VCS 4.x

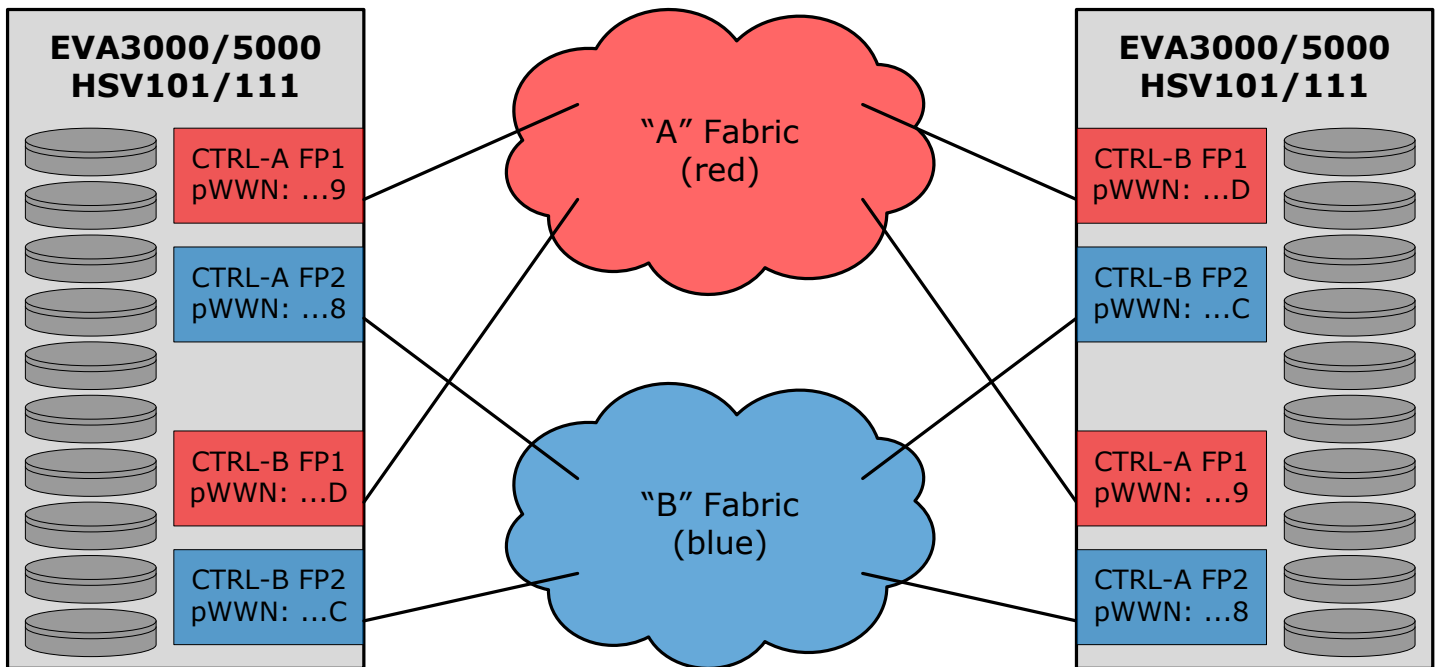
18.1 EVA3000/5000 with VCS 4.x to EVA3000/5000 with VCS 4.x - "A" Controllers are on the Top



18.2 EVA3000/5000 with VCS 4.x to EVA3000/5000 with VCS 4.x - "A" Controllers are on the Bottom

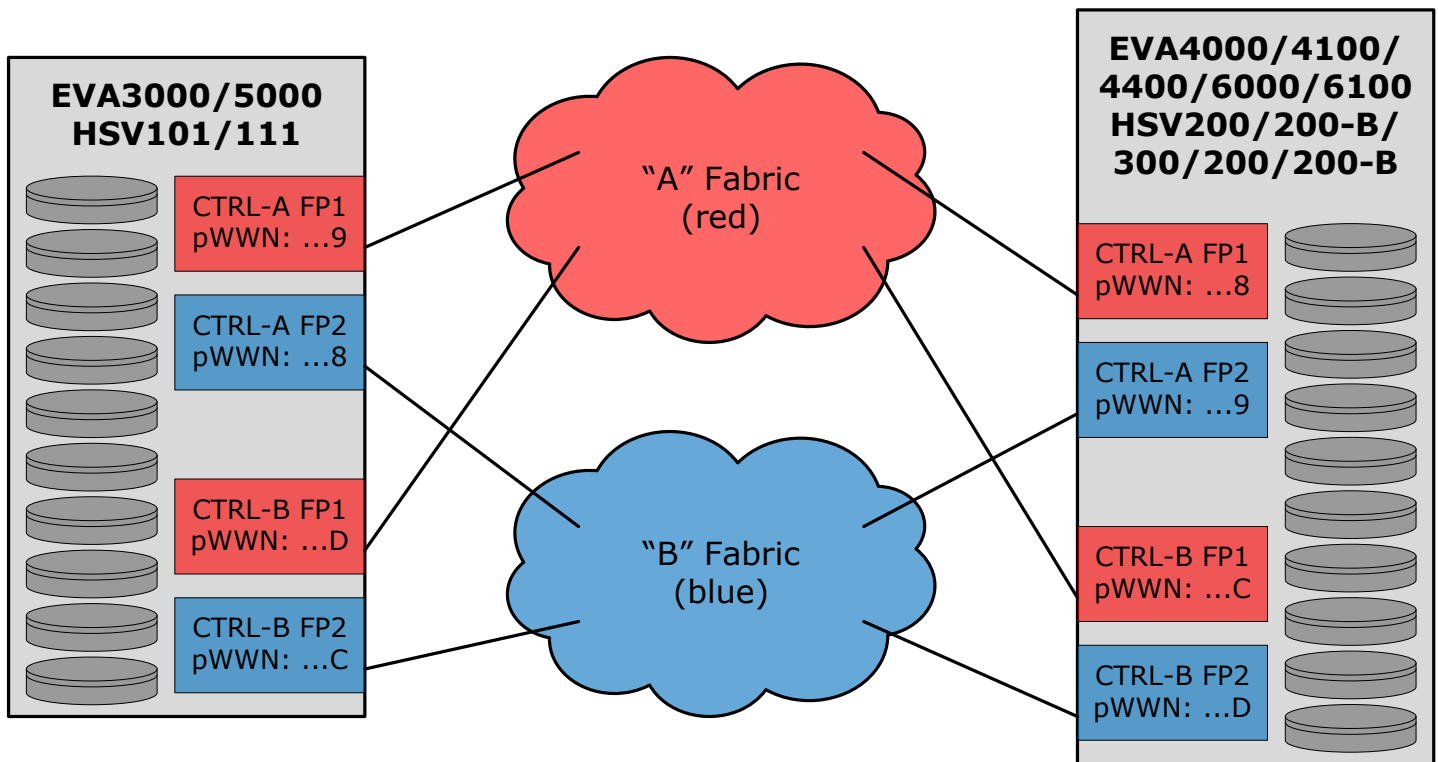


18.3 EVA3000/5000 with VCS 4.x to EVA3000/5000 with VCS 4.x - "A" Controllers are Reversed



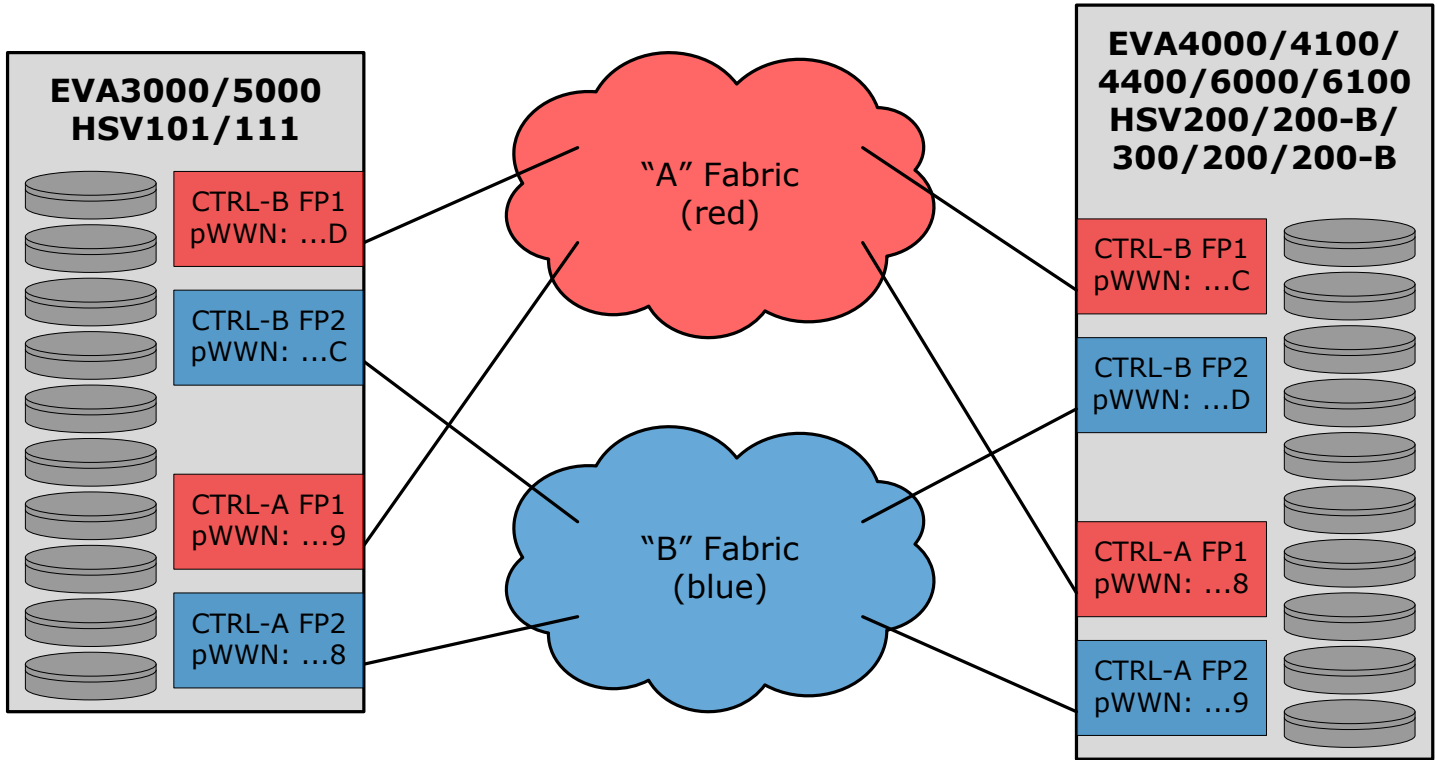
19 Continuous Access - EVA3000/5000 with VCS 4.x to EVA4000/4100/4400/6000/6100

19.1 EVA3000/5000 with VCS 4.x to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Top



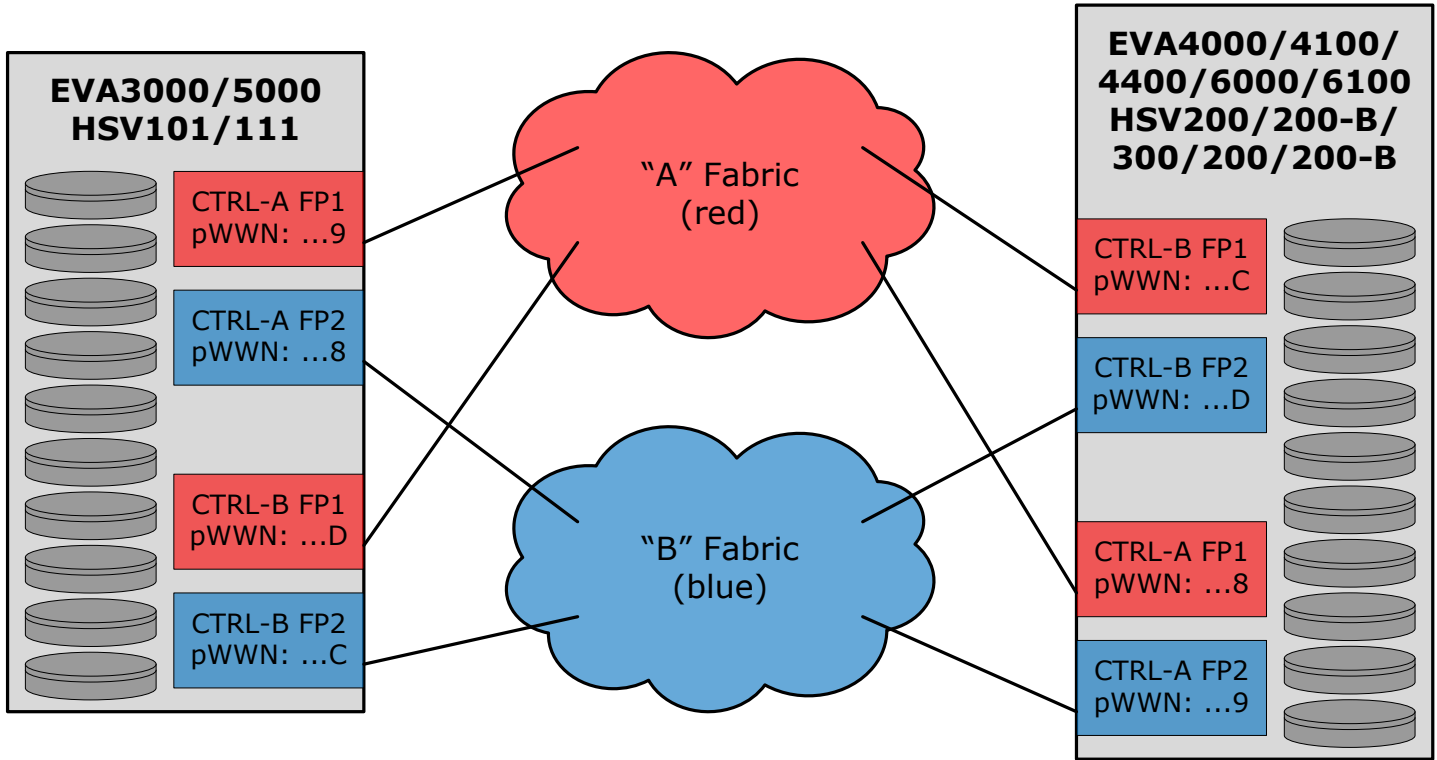


19.2 EVA3000/5000 with VCS 4.x to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Bottom



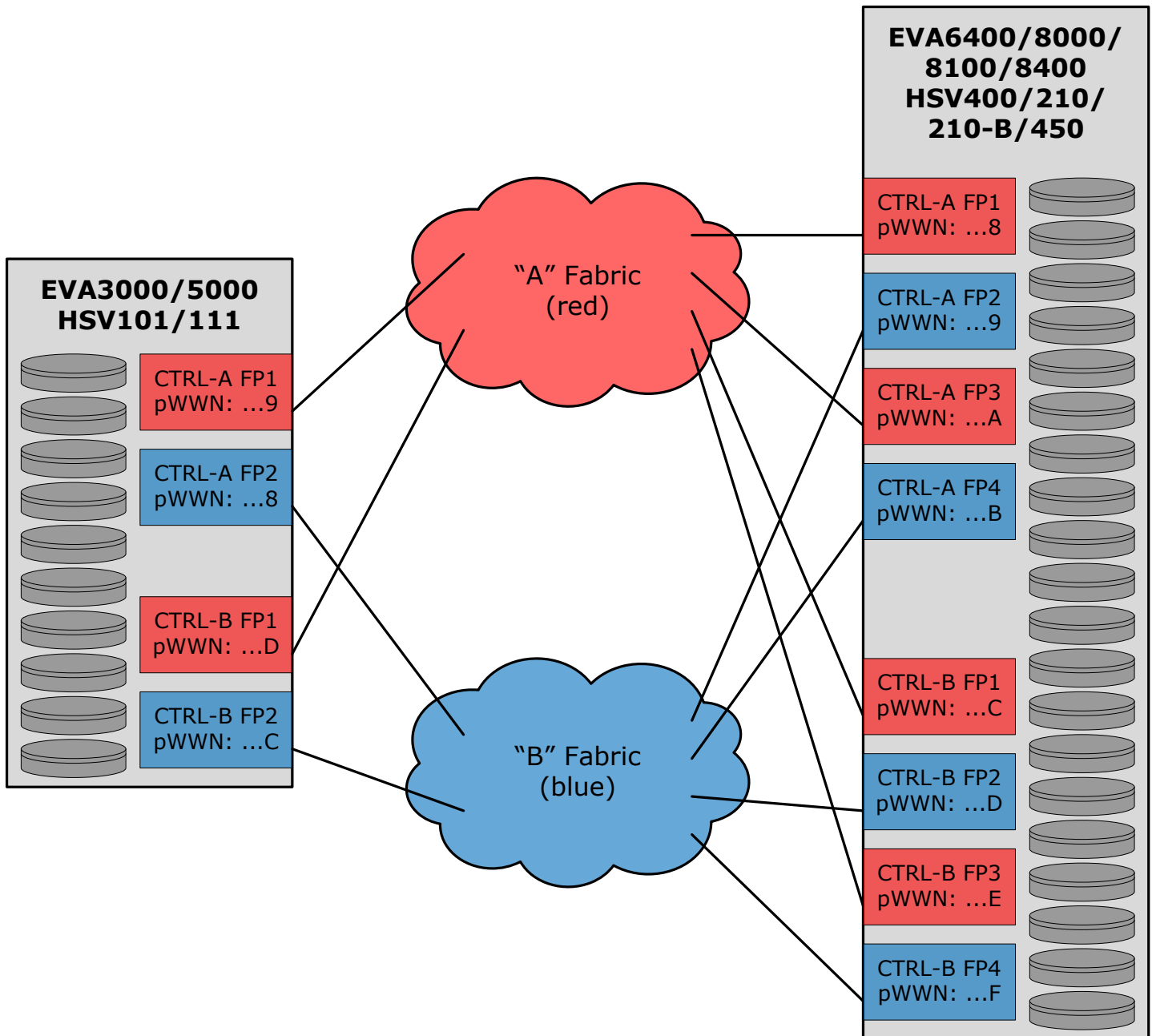


19.3 EVA3000/5000 with VCS 4.x to EVA4000/4100/4400/6000/6100 - "A" Controllers are Reversed



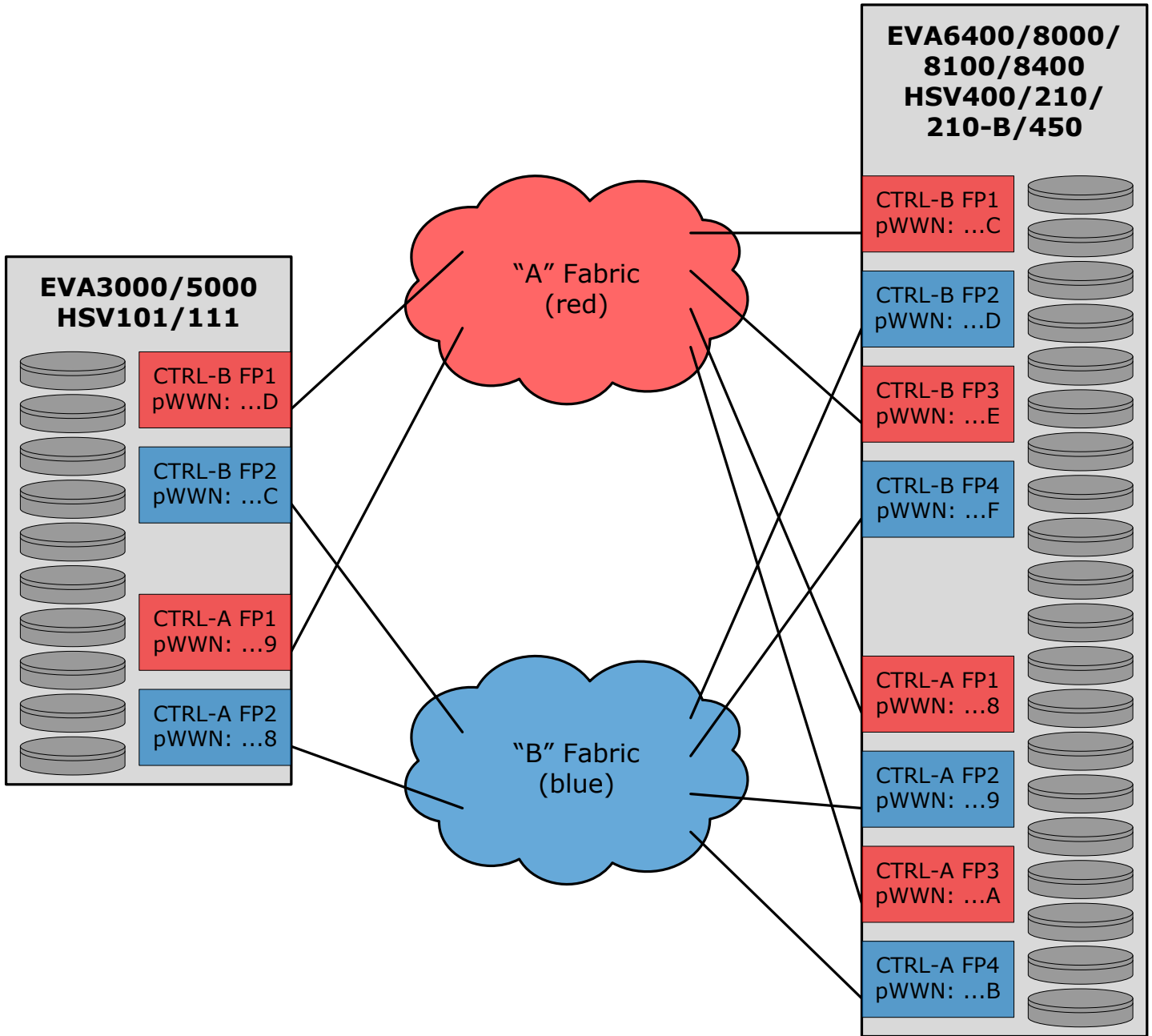
20 Continuous Access - EVA3000/5000 with VCS 4.x to EVA6400/8000/8100/8400

20.1 EVA3000/5000 with VCS 4.x to EVA6400/8000/8100/8400 - "A" Controllers are on the Top



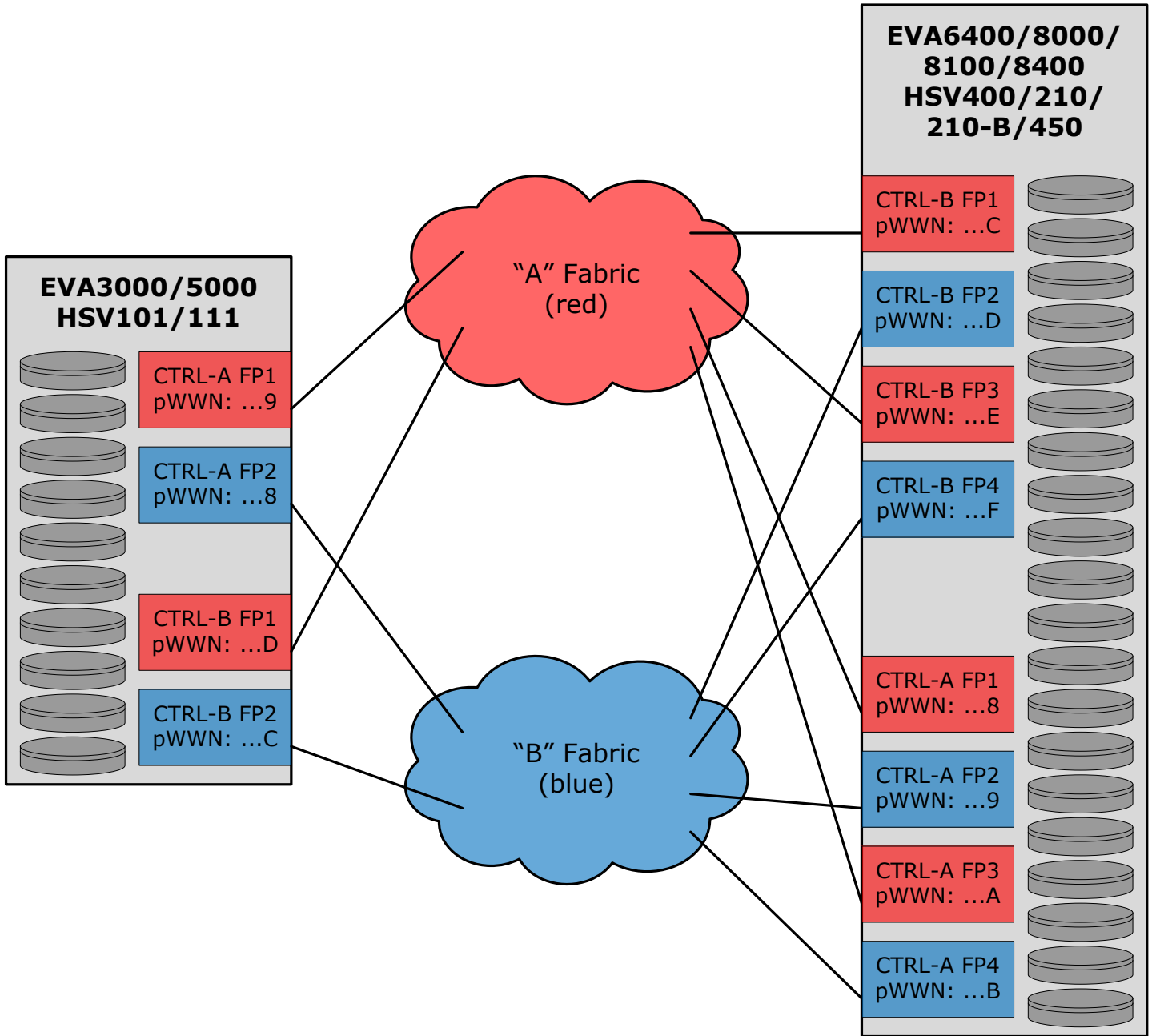


20.2 EVA3000/5000 with VCS 4.x to EVA6400/8000/8100/8400 - "A" Controllers are on the Bottom





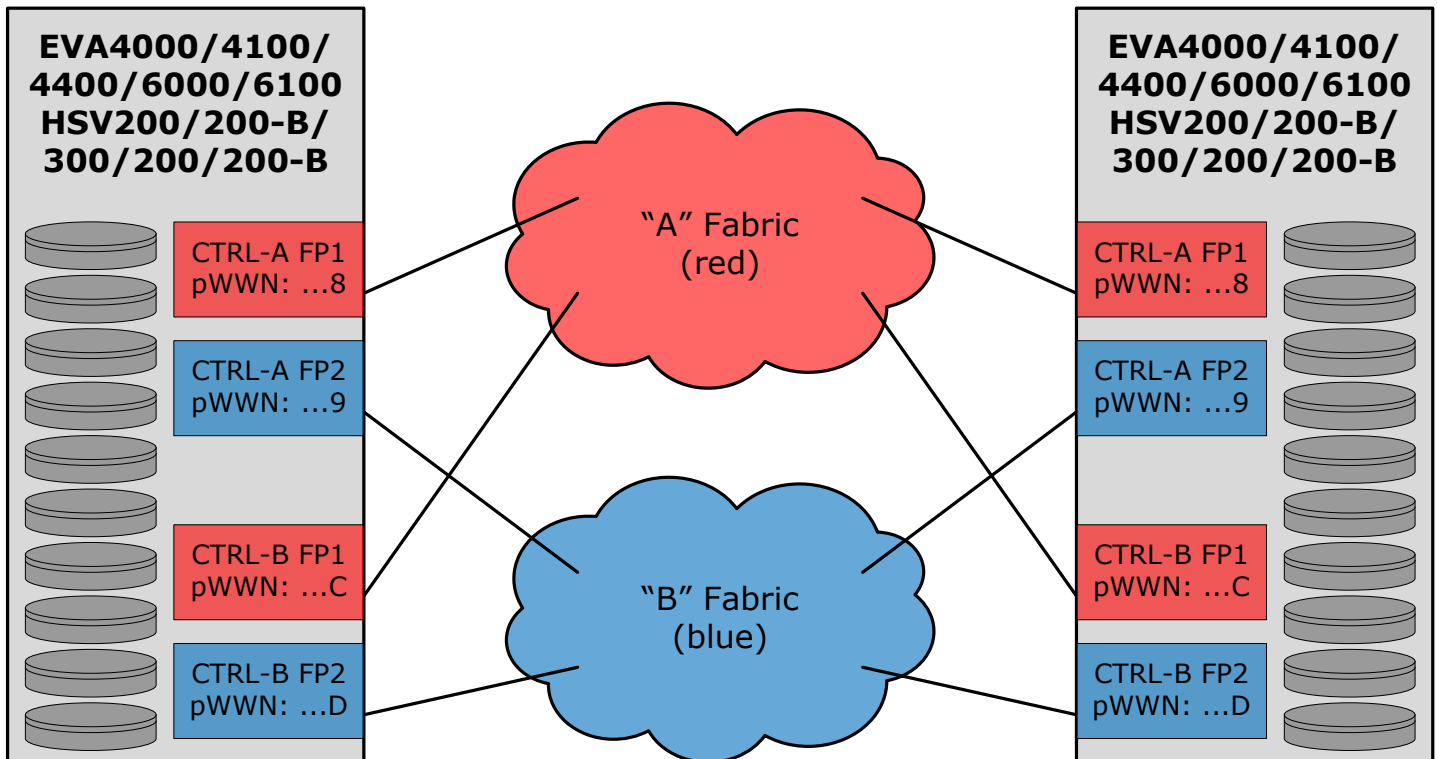
20.3 EVA3000/5000 with VCS 4.x to EVA6400/8000/8100/8400 - "A" Controllers are Reversed





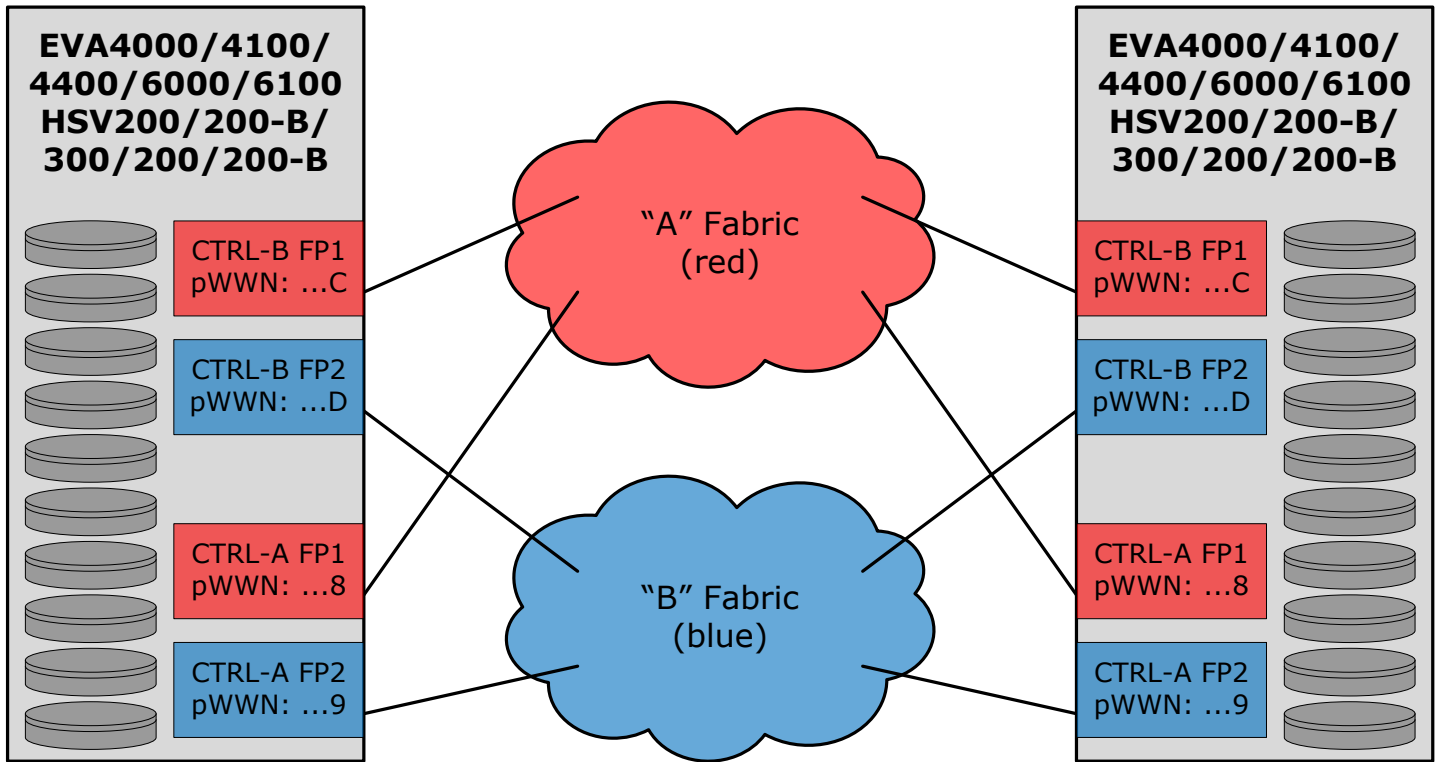
21 Continuous Access - EVA4000/4100/4400/6000/6100 to EVA4000/4100/4400/6000/6100

21.1 EVA4000/4100/4400/6000/6100 to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Top

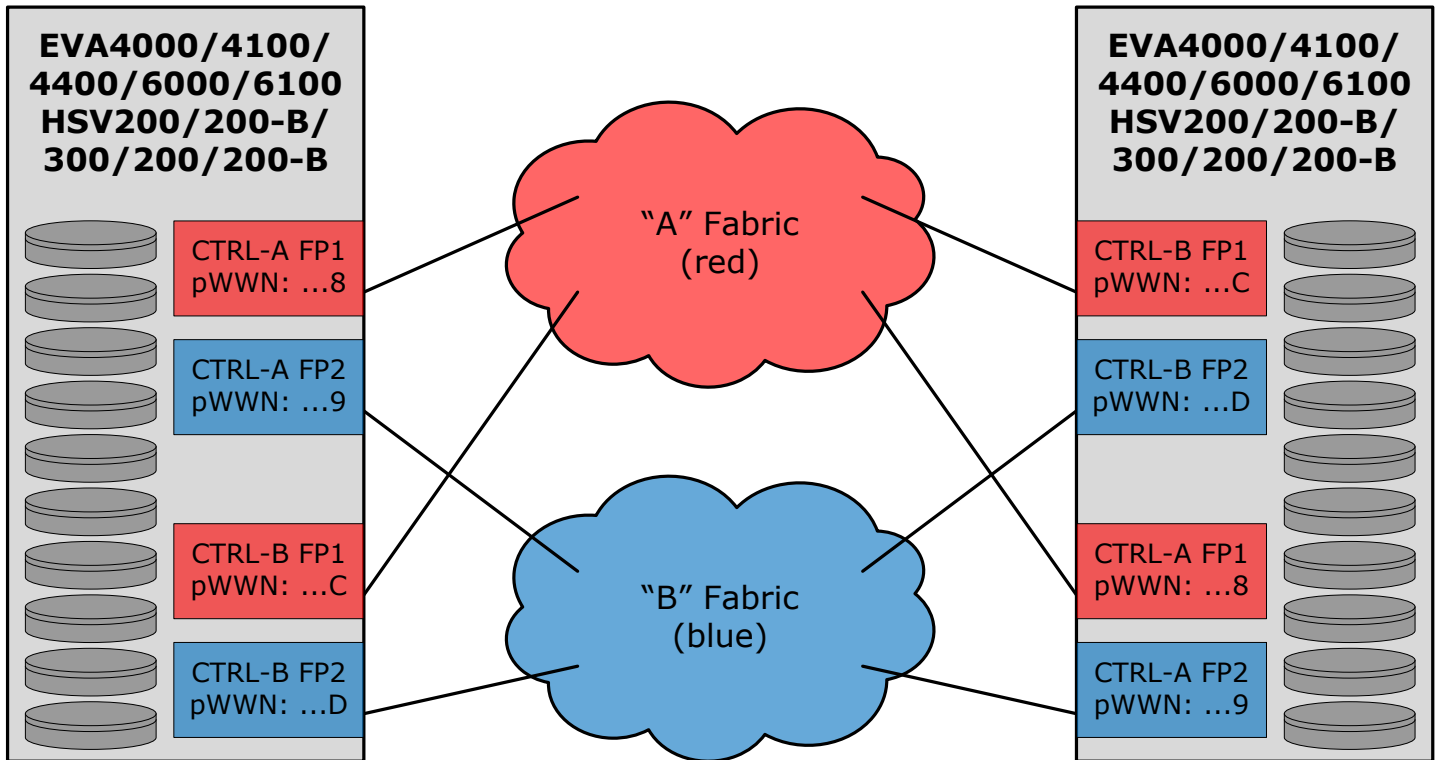




21.2 EVA4000/4100/4400/6000/6100 to EVA4000/4100/4400/6000/6100 - "A" Controllers are on the Bottom



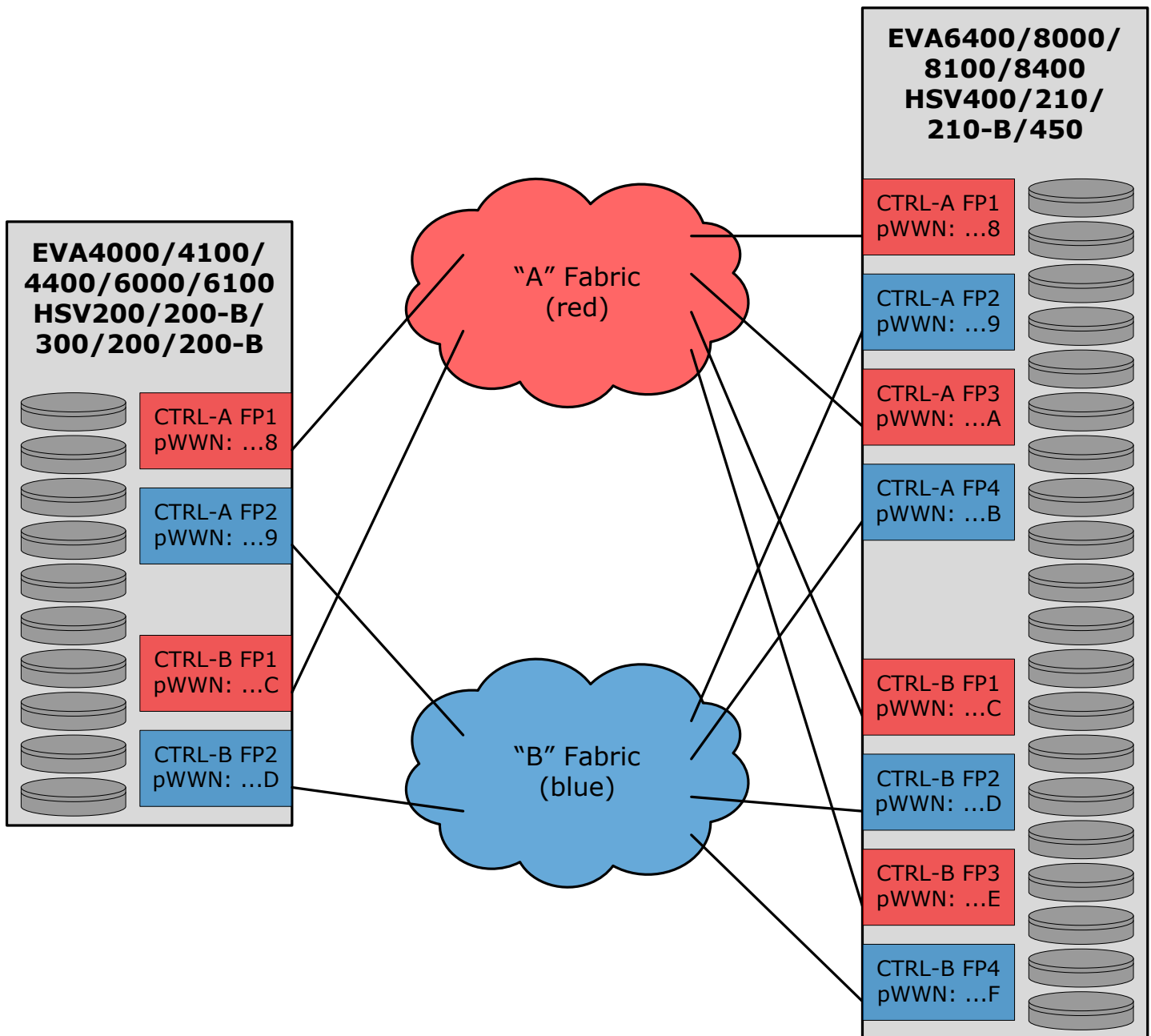
21.3 EVA4000/4100/4400/6000/6100 to EVA4000/4100/4400/6000/6100 - "A" Controllers are Reversed





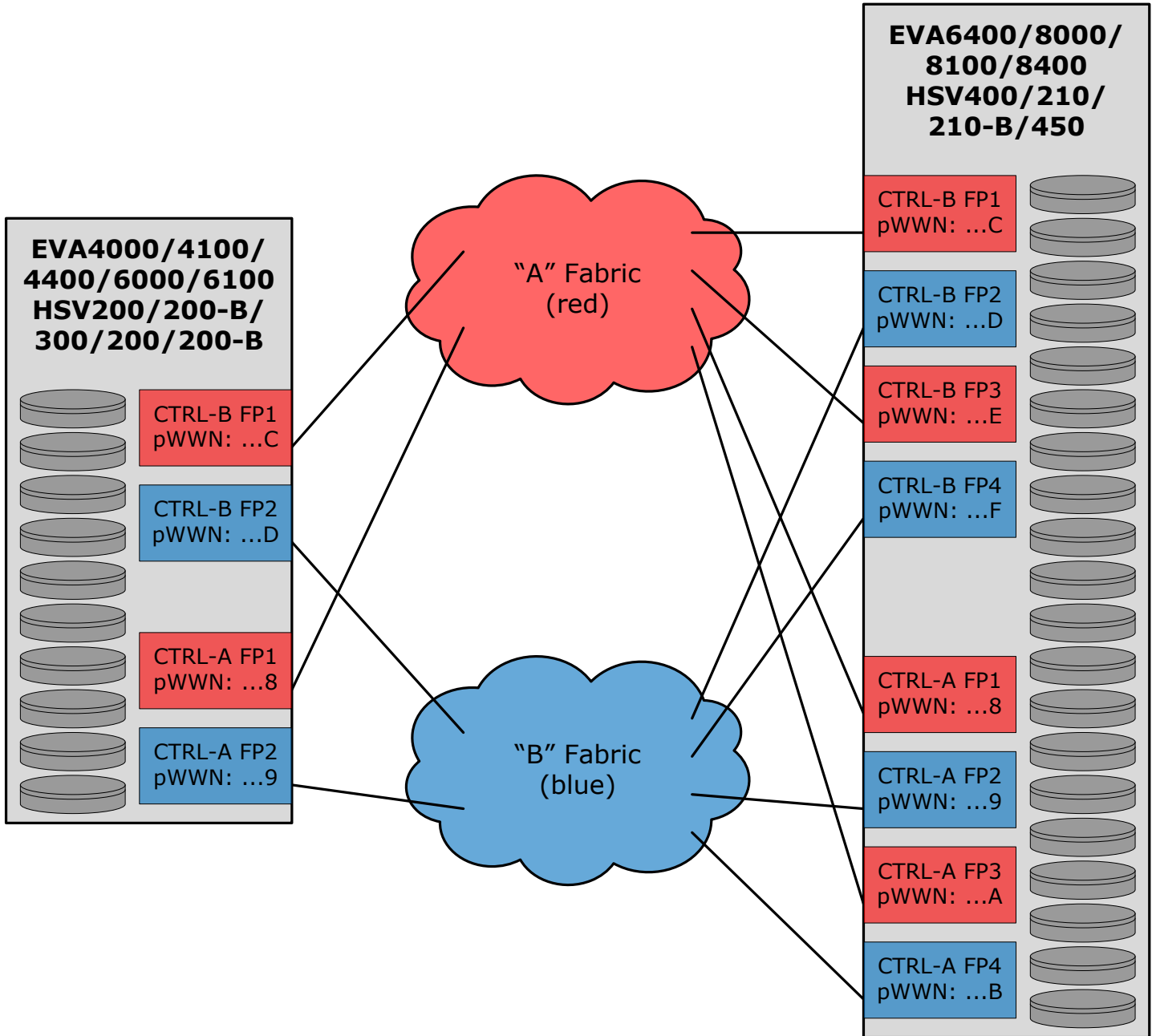
22 Continuous Access - EVA4000/4100/4400/6000/6100 to EVA6400/8000/8100/8400

22.1 EVA4000/4100/4400/6000/6100 to EVA6400/8000/8100/8400 - "A" Controllers are on the Top



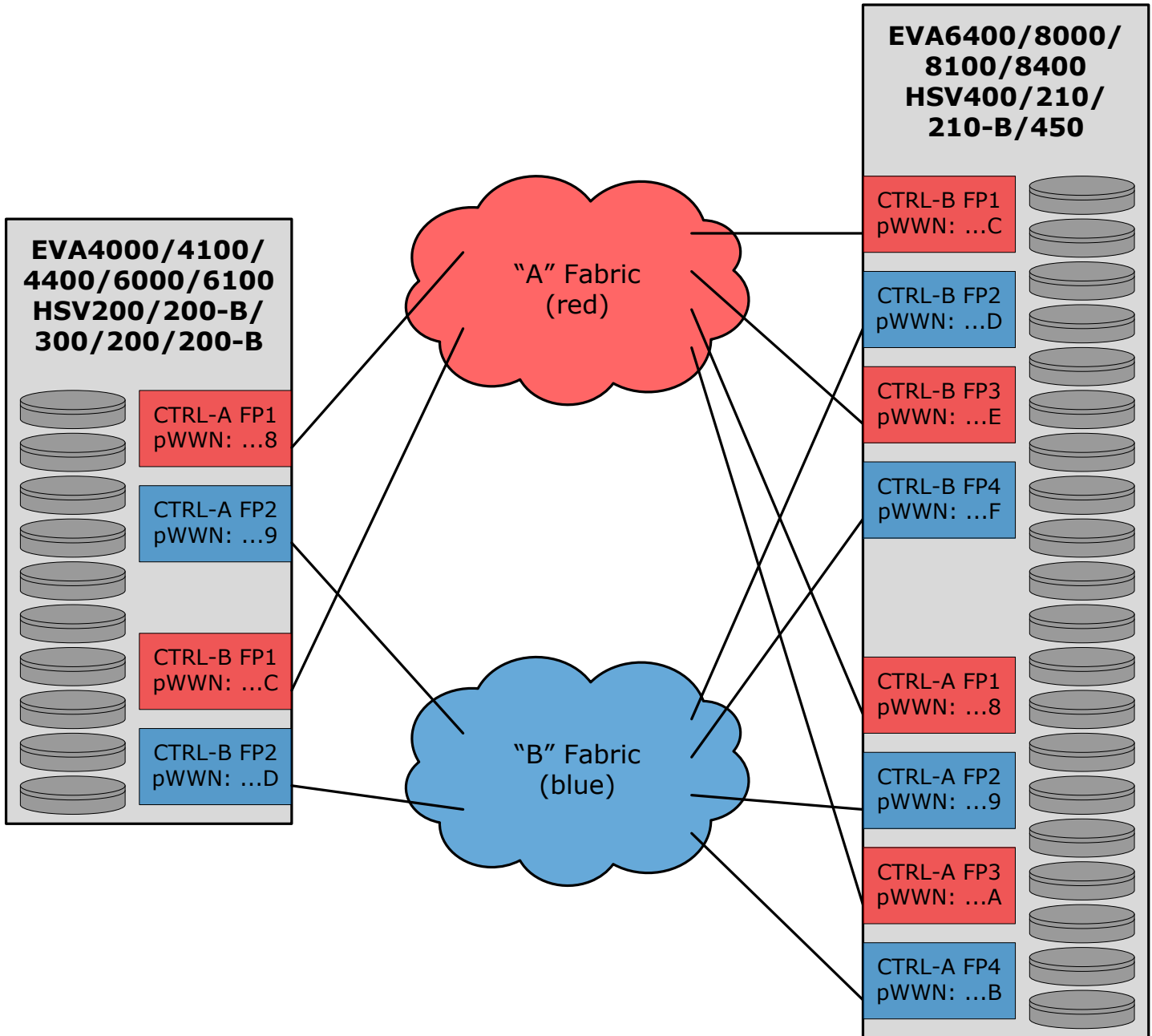


22.2 EVA4000/4100/4400/6000/6100 to EVA6400/8000/8100/8400 - "A" Controllers are on the Bottom



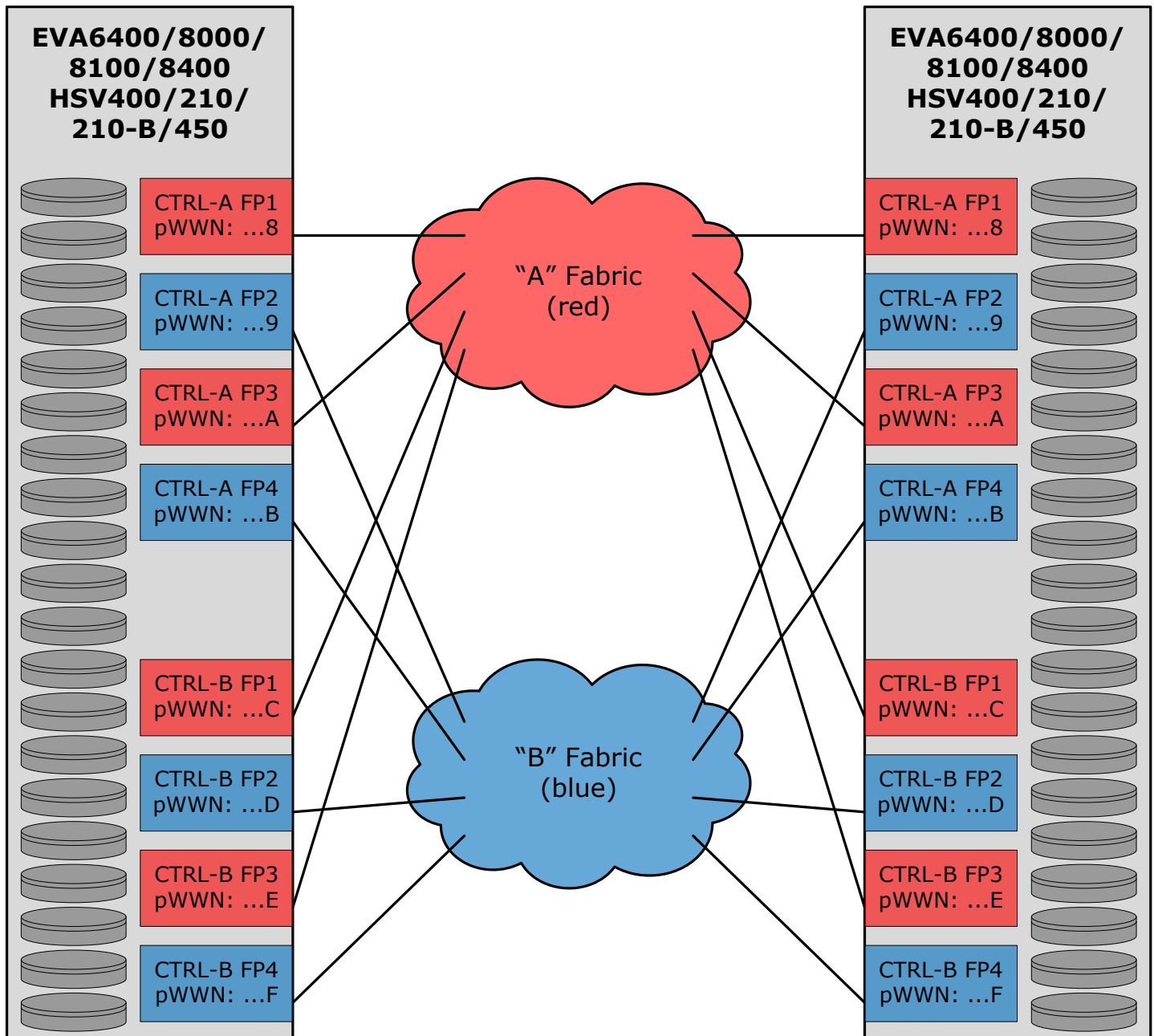


22.3 EVA4000/4100/4400/6000/6100 to EVA6400/8000/8100/8400 - "A" Controllers are Reversed



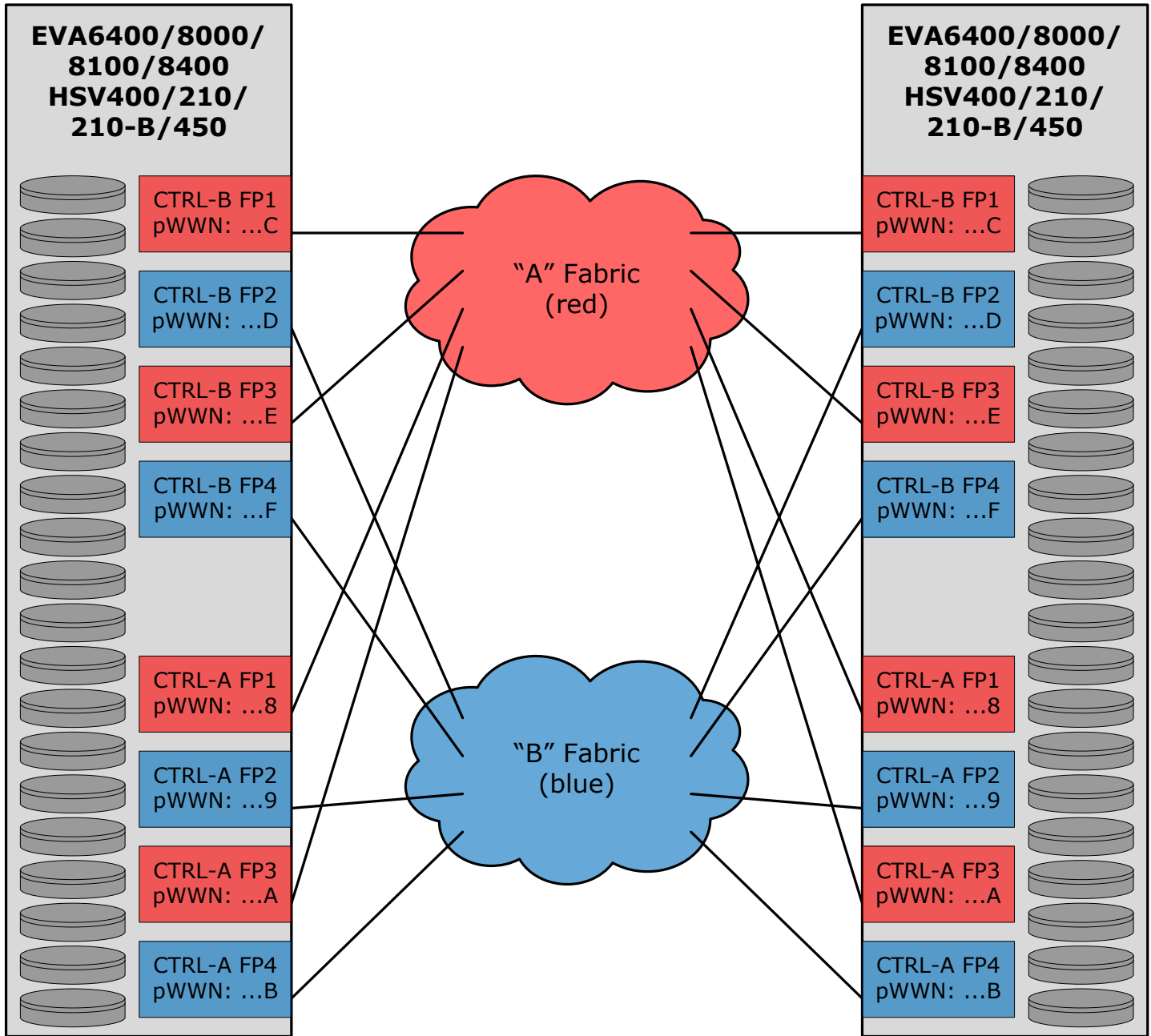
23 Continuous Access - EVA6400/8000/8100/8400 to EVA6400/8000/8100/8400

23.1 EVA6400/8000/8100/8400 to EVA6400/8000/8100/8400 - "A" Controllers are on the Top





23.2 EVA6400/8000/8100/8400 to EVA6400/8000/8100/8400 - "A" Controllers are on the Bottom





23.3 EVA6400/8000/8100/8400 to EVA6400/8000/8100/8400 - "A" Controllers are Reversed

