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## The PfR Major/Minor Versions Rule

- The `_Major Version_` numbers must be identical **AND**
- The `_Minor Version_` of the BR must be **Less Than** or **Equal To** the `_Minor Version_` of the MC for a connection to be established.

For Example:

If the Master Controller (MC) was at Version 3.3 and the Border Router was at Version 3.1 that would be OK as the BR Minor version number is less than the MC minor version number.

On the other hand, If the Master Controller (MC) was at Version 3.0 and the Border Router was at Version 3.2 that would NOT BE OK as the BR Minor Version Number is greater than the MC Minor Version Number.

The table below helps show the relationships between **PfR MC and BR Minor Version Numbers**.

MC Version	BR Version	OK or Not	Comments
3.3	3.1	OK	Your MC is Running NEWER IOS (PfR) than your BR - OK
3.0	3.2	NOT OK	Your MC is Running OLDER IOS (PfR) than your BR - NOT OK

**IOS-XE PfR BR/MC Versions and Releases**

Cisco Platform Series	Cisco IOS-XE Release	Cisco IOSd Release	Release Date	MC Version	BR Version
ASR 1000 Series	2.6.2	tbd	tbd	BR Only	3.0
ASR 1000 Series	3.1.1	15.0(1)S	July 2010	BR Only	3.0
ASR 1000 Series	3.2.0	15.1(1)S	Nov 2010	BR Only	3.0
ASR 1000 Series	3.3.1	15.1(2)S	March 2011	3.1	3.1
ASR 1000 Series	3.4.0	15.1(3)S	July 2011	3.1	3.1
ASR 1000 Series	3.5.0	15.2(1)S	Nov 2011	3.2	3.2
ASR 1000 Series	3.6.0	15.2(2)S	March 2012	3.3	3.3
ASR 1000 Series	3.7.0	15.2(4)S	July 2012	3.3	3.3
ASR 1000 Series	3.8.0	15.3(1)S	November 2012	3.3	3.3
ASR 1000 Series, 4451-X	3.9.0	15.3(1)S	March 2013	3.3	3.3
ASR 1000 Series, 4451-X	3.10.0	15.3(3)S	July 2013	3.3	3.3
ASR 1000 Series, 4451-X	3.11.0	15.4(1)S	November 2013	3.3	3.3

**ISR-G2 - IOS PfR BR/MC Versions and Releases**

Cisco Platform Series	Cisco IOS Release	Release Date	MC Version	BR Version
ISR G1/G2 Series	15.0(1)M	Oct 2009	3.0	3.0
ISR G1/G2 Series	15.1(1)T	March 2010	3.0	3.0
ISR G1/G2 Series	15.1(2)T	July 2010	3.0	3.0
ISR G1/G2 Series	15.1(3)T	Nov 2010	3.0	3.0
ISR G1/G2 Series	15.1(4)M	March 2011	3.0	3.0
ISR G2 Series	15.2(1)T	July 2011	3.1	3.1
ISR G2 Series	15.2(2)T	Nov 2011	3.1	3.1
ISR G2 Series	15.2(3)T	March 2012	3.3	3.3
ISR G2 Series	15.2(4)M	July 2012	3.3	3.3
ISR G2 Series	15.3(1)T	December 2012	3.3	3.3
ISR G2 Series	15.3(2)T	March 2013	3.3	3.3
ISR G2 Series	15.3(3)M	July 2013	3.3	3.3
ISR G2 Series	15.4(1)T	November 2013	3.3	3.3

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## Cisco 7200 - IOS PfR BR/MC Versions and Releases

Cisco Platform Series	Cisco IOS Release	Release Date	MC Version	BR Version
7200 Series	15.0(1)M	Oct 2009	3.0	3.0
7200 Series	15.1(1)T	March 2010	3.0	3.0
7200 Series	15.1(2)T	July 2010	3.0	3.0
7200 Series	15.1(3)T	Nov 2010	3.0	3.0
7200 Series	15.1(4)M	March 2011	3.0	3.0
7200 Series	15.2(1)T	July 2011	3.1	3.1
7200 Series	15.2(2)T	Nov 2011	3.1	3.1
7200 Series	15.2(3)T	March 2012	3.3	3.3
7200 Series	15.2(4)M	July 2012	3.3	3.3

## Cisco 7600 - IOS PfR BR/MC Versions and Releases

Cisco Platform Series	Cisco IOS Release	Release Date	MC Version	BR Version
C7600 Series	12.2(33)SRE	tbd	3.0	3.0

## Display MC and BR versions

You can get the version number within the PfR Command Line:

### On the Master Controller

```
R3#sh pfr master
OER state: ENABLED and ACTIVE
Conn Status: SUCCESS, PORT: 3949
Version: 3.3
Number of Border routers: 2
Number of Exits: 2
Number of monitored prefixes: 6 (max 5000)
Max prefixes: total 5000 learn 2500
Prefix count: total 6, learn 4, cfg 0
PBR Requirements met
Nbar Status: Inactive
Auto Tunnel Mode: On

Border      Status      UP/DOWN      AuthFail  Version  DOWN Reason
10.5.5.5    ACTIVE      UP           2w5d      0 3.3
10.4.4.4    ACTIVE      UP           2w5d      0 3.3

[SNIP]
```

## On the Border Router

```
R4#sh pfr border
OER BR 10.4.4.4 ACTIVE, MC 10.3.3.3 UP/DOWN: UP 2w5d,
  Auth Failures: 0
  Conn Status: SUCCESS
  OER Netflow Status: ENABLED, PORT: 3949
  Version: 3.3  MC Version: 3.3
  Exits
  Et0/0          INTERNAL
  Et0/1          EXTERNAL
  Tu0            INTERNAL AUTO-TUNNEL
R4#
```

## Forward Looking Disclaimer

Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis. This roadmap is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this document. Any forward looking information within this document is subject to change by Cisco.