Segment Routing-LAB
Coexist LDP Mapping server
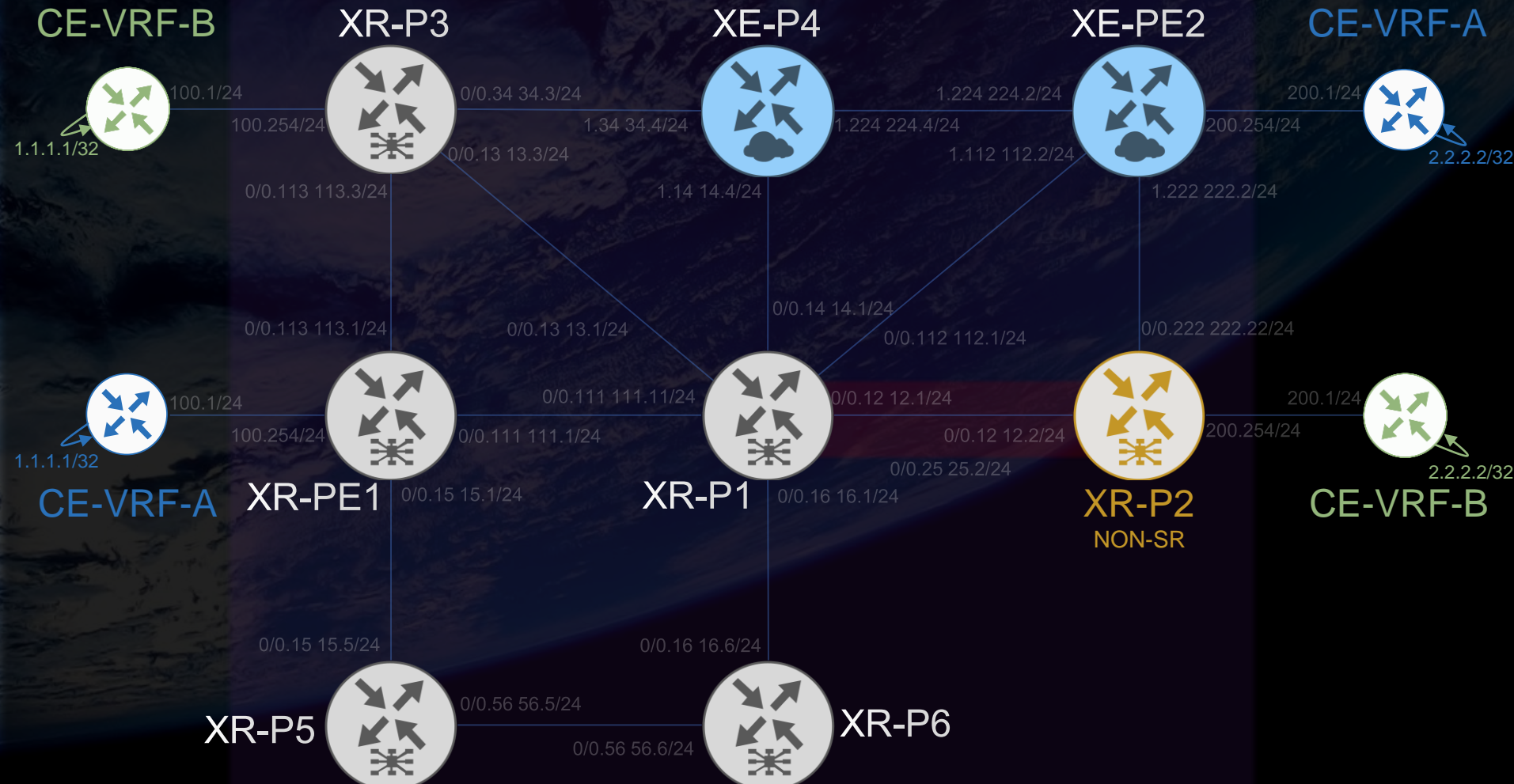
Software version
IOS XE 03.16.00.S 15.5(3)S CSR 1000V
IOS XR 6.0.1 XRv

SR-ENABLE CORE   BGP AS 9000

CE-VRF-B   XR-P3   XE-P4   XE-PE2   CE-VRF-A

100.1/24   0/0.34 34.3/24   1.224 224.2/24   200.1/24
100.254/24   1.34 34.4/24   1.224 224.4/24   200.254/24
1.1.1.1/32   0/0.13 13.3/24   1.112 112.2/24   2.2.2.2/32
            0/0.113 113.3/24   1.222 222.2/24
                                    1.14 14.4/24

                                                                    0/0.222 222.22/24
0/0.113 113.1/24   0/0.13 13.1/24   0/0.14 14.1/24

                                    0/0.112 112.1/24

100.1/24   0/0.111 111.11/24   0/0.12 12.1/24   200.1/24
100.254/24   0/0.111 111.1/24   0/0.12 12.2/24   200.254/24
1.1.1.1/32   0/0.25 25.2/24   2.2.2.2/32

CE-VRF-A   XR-PE1   0/0.15 15.1/24   XR-P1   0/0.16 16.1/24   XR-P2   CE-VRF-B
                                                                NON-SR

0/0.15 15.5/24   0/0.16 16.6/24

XR-P5   0/0.56 56.5/24   XR-P6
            0/0.56 56.6/24

Subnets Assign
!! ADJ:169.254/16
!! SP Loopback 0:100.64/16
!! ODL 150.1.255.253/16
Device Role
!! XE-P4/XR-P6: BGP-RR
!! XR-P2: LDP ONLY
!! XR-P1/XR-PE1
->SR MAPPING SERVER
ISIS Settings
!! XR-PE1   net 49.0001.0000.0011.00
!! XE-PE2   net 49.0001.0000.0022.00
!! XR-P1   net 49.0001.0000.0001.00
!! XR-P2   net 49.0001.0000.0002.00
!! XR-P3   net 49.0001.0000.0003.00
!! XE-P4   net 49.0001.0000.0044.00
!! XR-P5   net 49.0001.0000.0005.00
!! XR-P6   net 49.0001.0000.0006.00
BGP Settings
!! CE-A AS 65511 VRF-Aware
!! CE-B AS 65522 VRF-Aware

SR
Segment Routing

Segment Routing-LAB
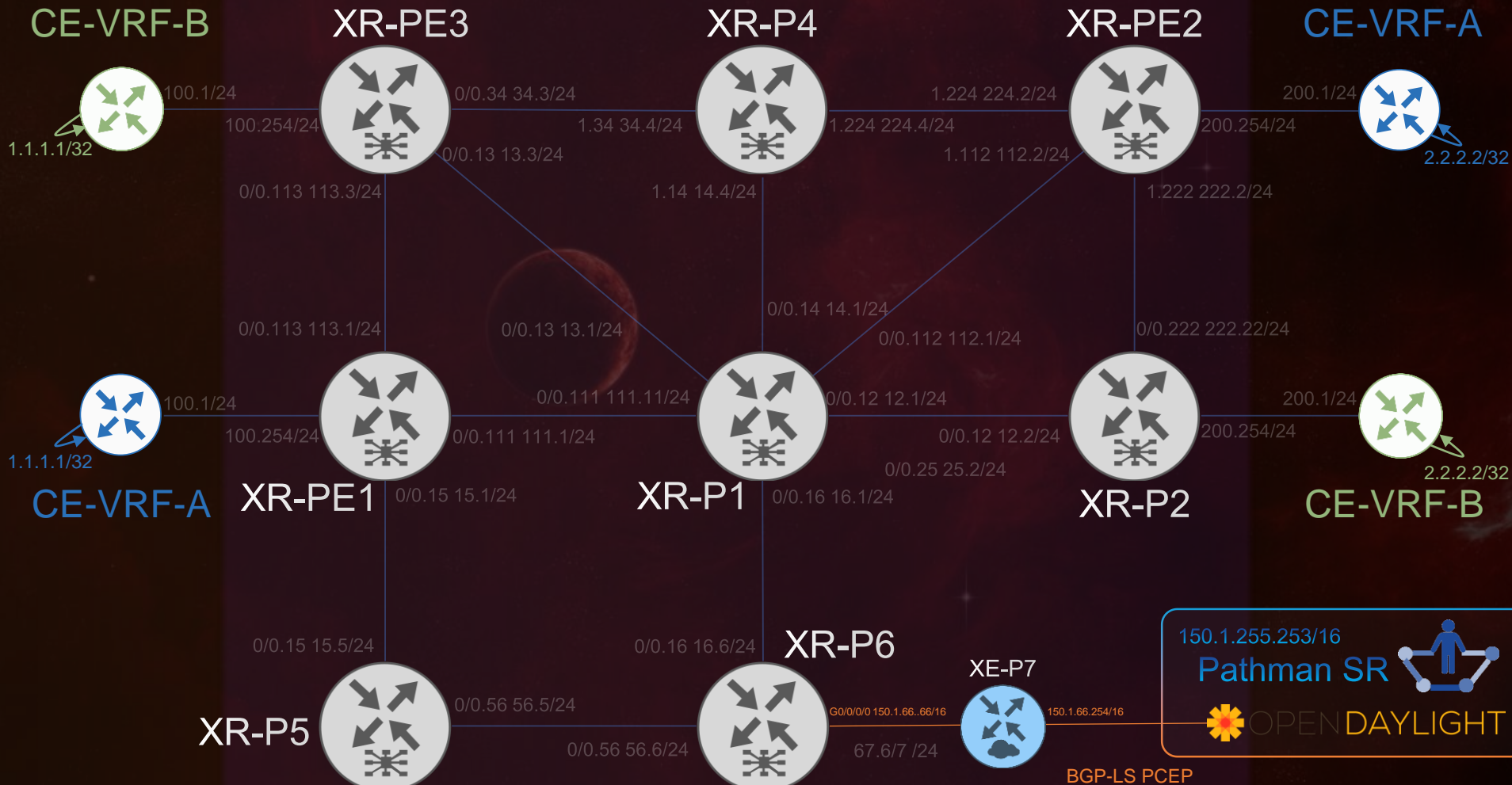## ODL SDN Controller-SR-TE

SR

Software version
IOS XR 6.0.1 XRv
IOS XE Everest 16.5

SR-ENABLE CORE

BGP AS 9000

CE-VRF-B

XR-PE3

XR-P4

XR-PE2

CE-VRF-A

1.1.1.1/32

100.1/24
100.254/24

0/0.34 34.3/24
1.34 34.4/24

1.224 224.2/24
1.224 224.4/24

200.1/24
200.254/24

2.2.2.2/32

0/0.13 13.3/24

1.112 112.2/24

0/0.113 113.3/24

1.14 14.4/24

1.222 222.2/24

0/0.113 113.1/24

0/0.13 13.1/24

0/0.14 14.1/24

0/0.112 112.1/24

0/0.222 222.22/24

CE-VRF-A

1.1.1.1/32

100.1/24
100.254/24

0/0.111 111.11/24
0/0.111 111.1/24

0/0.12 12.1/24

0/0.12 12.2/24

200.1/24
200.254/24

2.2.2.2/32

XR-PE1

0/0.15 15.1/24

XR-P1

0/0.16 16.1/24

0/0.25 25.2/24

XR-P2

CE-VRF-B

6/0.15 15.5/24

0/0.16 16.6/24

XR-P6

XE-P7

150.1.255.253/16
Pathman SR

XR-P5

0/0.56 56.5/24

0/0.56 56.6/24

G0/0/0/0 150.1.66..66/16

67.6/7 /24

150.1.66.254/16

OPENDAYLIGHT

BGP-LS PCEP

Subnets Assign
‼ ADJ.169.254/16
‼ SP Loopback 0:100.64/16
‼ ODL 150.1.255.253/16
Device Role
‼ ODL/XR-P6: BGP-RR
ISIS Settings
‼ XR-PE1   net 49.0001.0000.0011.00
‼ XR-PE2   net 49.0001.0000.0022.00
‼ XR-P1   net 49.0001.0000.0001.00
‼ XR-P2   net 49.0001.0000.0002.00
‼ XR-P3   net 49.0001.0000.0003.00
‼ XR-P4   net 49.0001.0000.0044.00
‼ XR-P5   net 49.0001.0000.0005.00
‼ XR-P6   net 49.0001.0000.0006.00
‼ XE-P7   net 49.0001.0000.0007.00
BGP Settings
‼ CE-A AS 65511 VRF-Aware
‼ CE-B AS 65522 VRF-Aware