

# AOS-CX 10.09

## CX 6200 Enhancements

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# Agenda

1 Layer 3 aggregation groups

2 IP Directed Broadcasts



# Layer 3 aggregation groups

6200 Feature parity enhancement

# 6200 Layer 3 aggregation groups

Layer 3 aggregation groups are now supported on the 6200 series

IPv4 & IPv6 aggregation groups are supported

```
interface lag 199
  no shutdown
  routing
  ipv6 address fd00:db9:10:192:168:3::/127
  ipv6 ospfv3 1 area 0.0.0.0
  exit
```

```
interface lag 198
  shutdown
  routing
  ip address 192.168.3.12/31
  ip ospf 10 area 0.0.0.0
  exit
```





# IP directed Broadcasts

6200 Feature parity enhancement

# IP Directed Broadcasts -Overview

- Two types of IP Broadcasts
  - Network Ip broadcast 255.255.255.255
    - Use to reach all devices within a subnet
  - Subnet broadcast address, example **192.168.1.255/24**
    - Subnet broadcast address is also called the IP directed broadcast
- Allows to send Broadcast Packets to Hosts in Target Subnet – subnet broadcast are dropped unless the ip directed broadcast feature is enabled
- Allows to implement remote administration tasks (e.g. wake-on-LAN)
- Intermediate Routers forward IP Directed Broadcast packets as Unicast
- Last Hop Router broadcasts/floods the IP directed broadcast packet in the Target Subnet (DA MAC: All 0xFFs)
- By default IP Directed Broadcast is disabled

# 6200 IP directed broadcast

- IP directed broadcast is supported on ROP, SVI & L3 LAGs
- The feature is supported for both primary and secondary ip addresses
- It is only supported for IPv4 addressing and is not supported on IPv6 addresses

## SVI

```
6200-BLDG02-F1(config)# interface vlan 500
6200-BLDG02-F1(config-if-vlan)# ip address 192.168.205.1/24
6200-BLDG02-F1(config-if-vlan)# ip directed-broadcast
6200-BLDG02-F1(config-if-vlan)# exit
```

## LAG

```
6200-BLDG02-F1(config)# interface lag 105
6200-BLDG02-F1(config-lag-if)# routing
6200-BLDG02-F1(config-lag-if)# ip address 192.168.105.1/24
6200-BLDG02-F1(config-lag-if)# ip directed-broadcast
```

## ROP

```
6200-BLDG02-F1(config)# interface 1/1/26
6200-BLDG02-F1(config-if)# routing
6200-BLDG02-F1(config-if)# ip address 192.168.103.1/24
6200-BLDG02-F1(config-if)# ip directed-broadcast
```





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# Thank you

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