AOS-CX 10.09
CX 6200 Enhancements

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Note: Detailed instructions on how to replace sample pictures like the one shown here can be found in the speaker notes of this slide.

Tip! Remember to remove this text box.
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

```plaintext
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
Thank you

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