

Step 11: sample config

```
!Border router in AS200 config
!
```

```
router bgp 200
```

```
neighbor A.B.C.D remote-as 1
```

```
neighbor A.B.C.D route-map fromUPSTREAM in
```

```
neighbor A.B.C.D route-map toUPSTREAM out
```

```
neighbor E.F.G.H remote-as 1000
```

```
neighbor E.F.G.H default-originate
```

```
neighbor E.F.G.H route-map fromTRANSIT-CUSTOMER in
```

```
neighbor E.F.G.H route-map toTRANSIT-CUSTOMER out
```

```
neighbor J.K.L.M prefix-list PEER in
```

```
neighbor J.K.L.M route-map fromPEER in
```

```
neighbor J.K.L.M route-map toPEER out
```

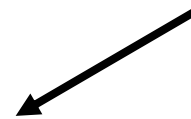
```
!
```

```
ip bgp-community new-format
```

```
!
```

```
!continue next slide...
```

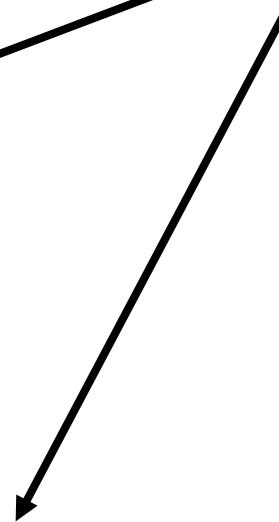
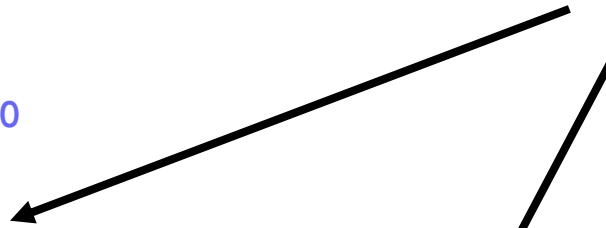
Set communities
on inbound
announcements



Step11: sample config

```
!  
route-map fromUPSTREAM permit 10  
  set local-preference 90  
  set community 200:3000  
!  
route-map toUPSTREAM permit 10  
  set community none  
!  
route-map fromPEER permit 10  
  set local-preference 100  
  set community 200:3100  
!  
route-map toPEER permit 10  
  set community none  
!  
route-map toTRANSIT-CUSTOMER permit 10  
  set community none  
!  
route-map fromTRANSIT-CUSTOMER permit 10  
  set community 200:10 additive  
  set local-preference 110  
!
```

Set communities
on inbound
announcements



Step11: sample config (Cont.)

```
!aggregation (customer) router in AS200 config
!
router bgp 200
  neighbor UPSTREAM peer-group
  neighbor UPSTREAM route-map toUPSTREAM out           ! Local routes
  neighbor PEERS peer-group
  neighbor PEERS route-map toPEERS out                 ! Local routes
  neighbor TRANSIT-CUSTOMER peer-group
  neighbor TRANSIT-CUSTOMER route-map toTRANSIT-CUSTOMER out ! Full routes
!
Ip community-list 21 permit 200:10                   ! Customer routes
ip community-list 23 permit 200:3000                 ! Upstream routes
ip community-list 24 permit 200:3100                 ! PEERS routes
!
route-map toUPSTREAM permit 10
  match community 23
  set community none
route-map toPEERS permit 10
  match community 23
  set community none
!
```



PEER and UPSTREAM
gets prefixes
according to community
matches