

# Prefix Validation

IETF- sidr / Maastricht

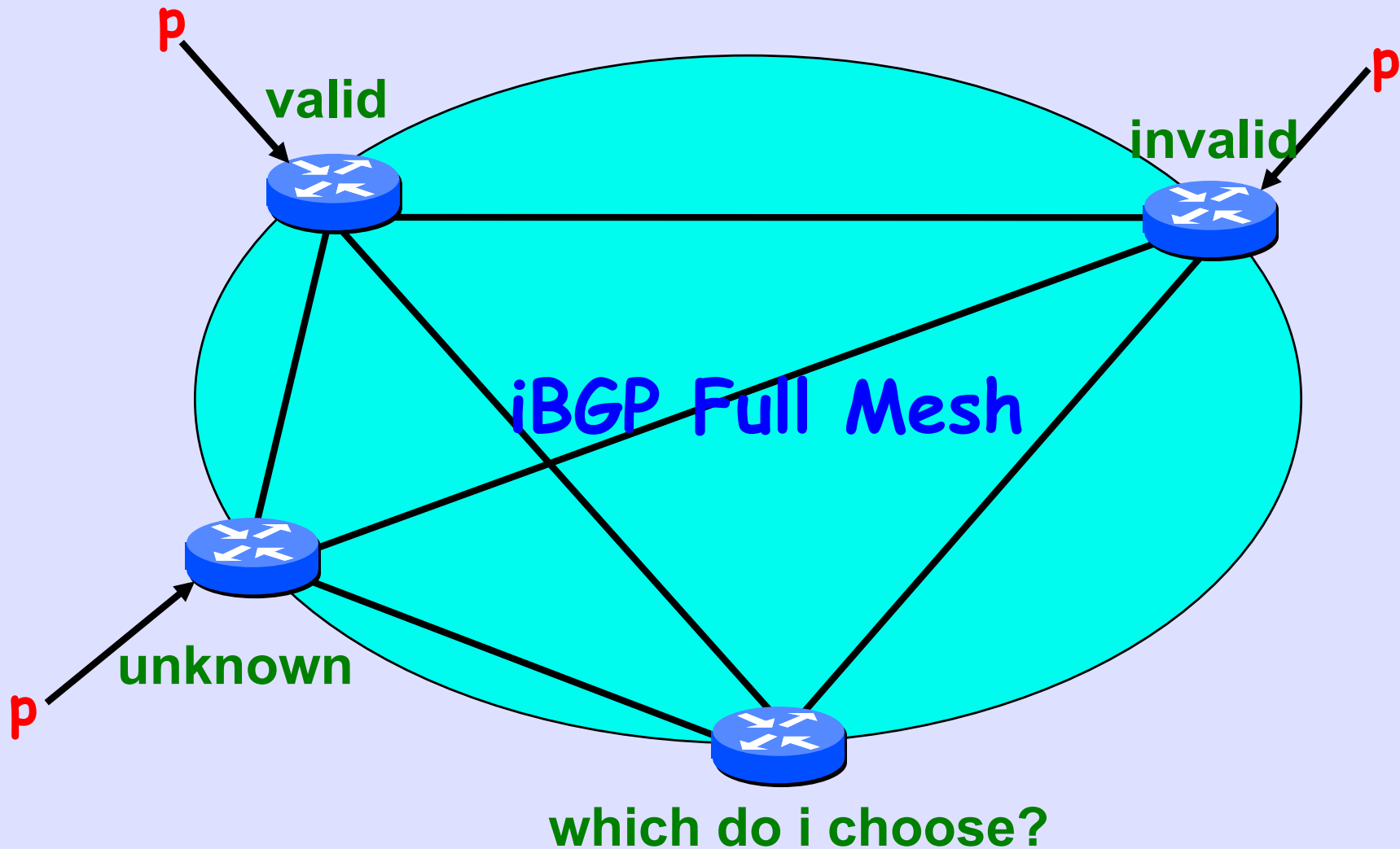
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**draft-pmohapat-sidr-pfx-validate-07.txt**

# iBGP Hides Validity State



# Unknown Beat Valid!

```
r1.iad#sh ip bg 198.180.152.0
```

```
BGP routing table entry for 198.180.152.0/24, version 324176
```

```
Paths: (2 available, best #1, table default)
```

```
Not advertised to any peer
```

```
2914 4128
```

```
129.250.10.157 (metric 1) from 198.180.150.253  
(198.180.150.253)
```

```
Origin IGP, metric 51, localpref 100, valid, internal, best
```

```
Community: 2914:410 2914:2000 2914:3000 3927:380
```

```
1239 2914 4128
```

```
144.232.18.81 from 144.232.18.81 (144.228.241.254)
```

```
Origin IGP, metric 0, localpref 100, valid, external
```

```
Community: 3927:380
```

```
Sovc state valid
```

# MED Beat Valid

```
r1.iad#sh ip bg 147.28.0.0
```

```
BGP routing table entry for 147.28.0.0/16, version 142233
```

```
Paths: (2 available, best #1, table default)
```

```
Not advertised to any peer
```

```
2914 3130
```

```
129.250.10.157 (metric 1) from 198.180.150.253  
(198.180.150.253)
```

```
Origin IGP, metric 105, localpref 100, valid, internal, best
```

```
Community: 2914:410 2914:2000 2914:3000 3927:380
```

```
1239 3130
```

```
144.232.18.81 from 144.232.18.81 (144.228.241.254)
```

```
Origin IGP, metric 653, localpref 100, valid, external
```

```
Community: 3927:380
```

```
Sovc state valid
```

The Solution  
is to  
Allow Operator to  
Test and then  
Set Local Policy

# Fairly Secure

```
route-map validity-0
  match rpki-invalid
  drop

route-map validity-1
  match rpki-not-found
  set localpref 50

// valid defaults to 100
```

# Paranoid

```
route-map validity-0  
  match rpki-valid  
  set localpref 110  
route-map validity-1  
  drop
```

# After AS-Path

```
route-map validity-0  
  match rpki-unknown  
  set metric 50
```

```
route-map validity-1  
  match rpki-invalid  
  set metric 25
```

```
route-map validity-2  
  set metric 100
```