

The RPKI Situation

In Greece

?

prefix	src
1.0.0.0/8	AS100
2.0.0.0/8	AS200
3.0.0.0/8	AS300
4.0.0.0/8	AS400

prefix	src
1.0.0.0/8	AS100
2.0.0.0/8	AS200
3.0.0.0/8	AS300
4.0.0.0/8	AS400
1.0.0.0/8	AS500

I, the owner of 1.0.0.0/8,
declare that AS100 is the
current and right origin of
this prefix, and no other.

I, the owner of 1.0.0.0/8,
declare that AS100 is the
current and right origin of
this prefix, and no other.



**Who signed these
messages?**

OTE Top.Host Bank of Greece Lamda Hellix
HCN GRNET
Hostmein Aegean COSMOTE
PCB SNFCC Interworks Modulus
Synapsecom Lancom Wind
NBG CYTA (GR) DNHOST
AIA Forthnet Piraeus Bank OTE Globe
IpHost Skroutz inalan AlphaBank
Eurobank Vodafone TIS OPAP
NTUA Hellenic Parliament NCSR Demokritos
Attiki Odos

Feb 2019

Jun 2019

OTE

Top.Host

Bank of Greece

Lamda Hellix

HCN

GRNET

COSMOTE

Hostmein

Aegean

Modulus

PC

Synap

Feb 2019

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OPAP

Eurobank

Vodafone

TIS

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NTUA

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Interworks

Synapsecom

Lancom

Wind

CYTA (GR)

DNHOST

NBG

FoRTH

Piraeus Bank

OTE Globe

AIA

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Phase 2

**Who checks these
messages**

?

Prevent BGP Hijacking

Do BGP Hijacking!

AS210312

151.216.16.0/24

151.216.17.0/24

151.216.18.0/24

151.216.19.0/24

151.216.16.0/24 - RPKI Valid
151.216.17.0/24 - RPKI Invalid
151.216.18.0/24 - RPKI Unknown
151.216.19.0/24 - Bonus

151.216.16.0/24 - RPKI Valid

ROA: Originates from AS210312

151.216.17.0/24 - RPKI Invalid

ROA: Originates from AS65000

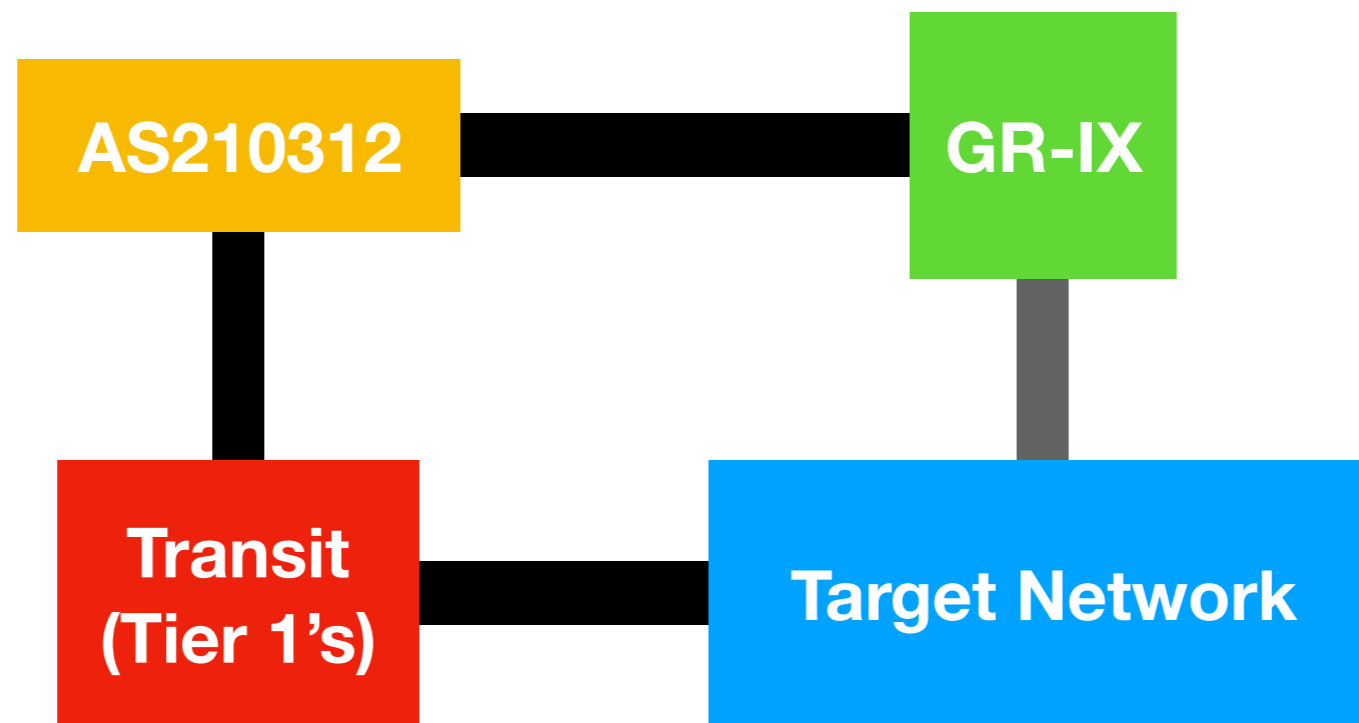
151.216.18.0/24 - RPKI Unknown

No ROA

151.216.19.0/24 - Bonus

More soon!

Topology

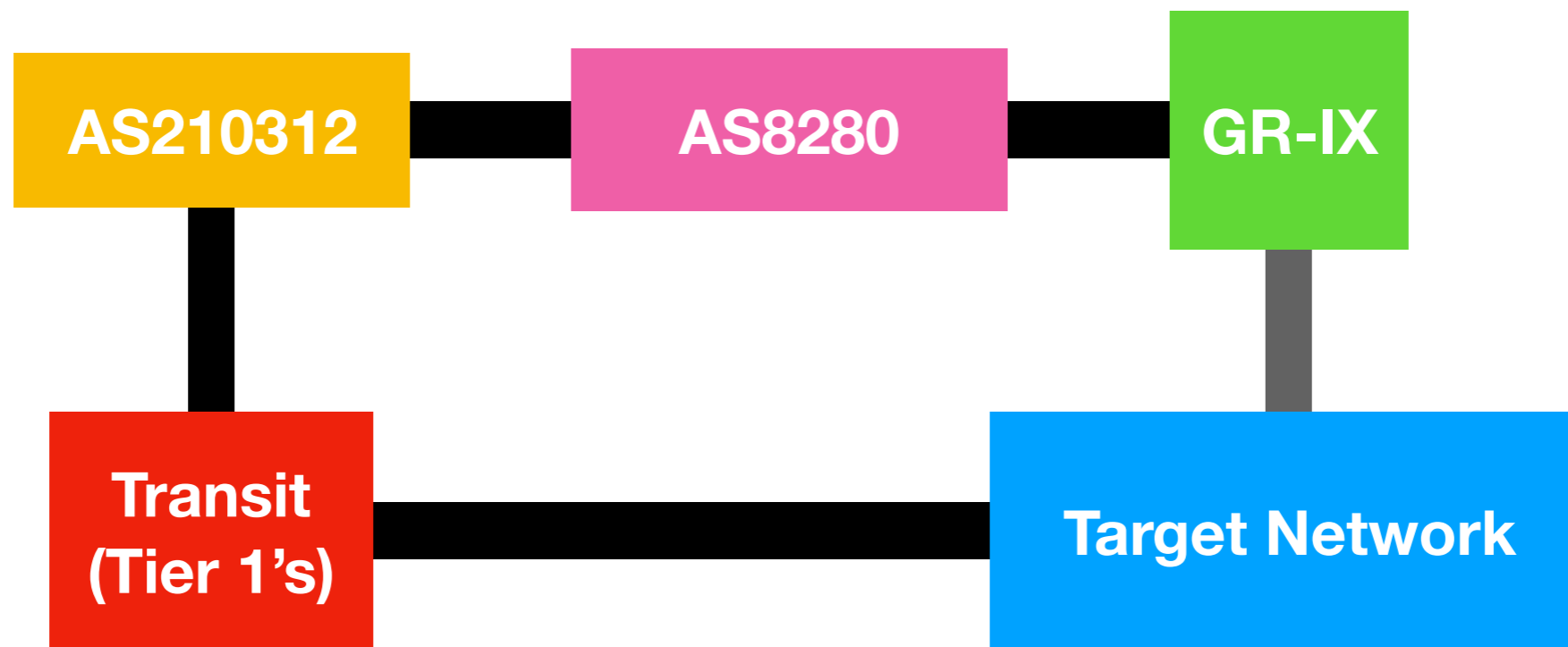


GR-IX

⋮ (

AS8280

Topology



prefix	src
151.216.16.0/24	AS210312
151.216.17.0/24	AS210312
151.216.18.0/24	AS210312
151.216.19.0/24	AS210312

RPKI Valid

RPKI Invalid

RPKI Unknown

Bonus

VM GR-IX

VM GR-IX

VM GR-IX

VM GR-IX

VM Abroad

VM Abroad

VM Abroad

VM Abroad

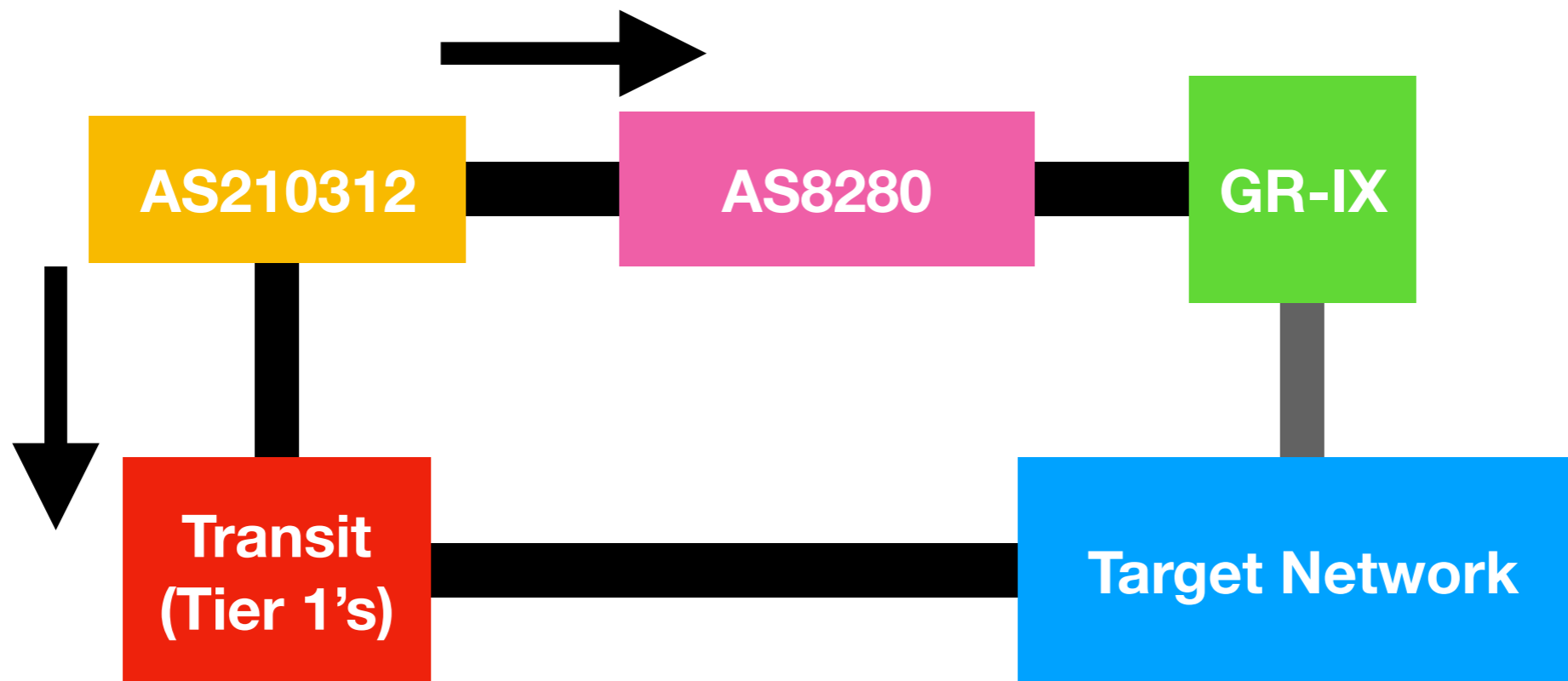
/26 RADIUS
Assigned VLAN

/26 RADIUS
Assigned VLAN

/26 RADIUS
Assigned VLAN

/26 RADIUS
Assigned VLAN

Topology



RIPE Atlas

Measurements

21552866

21552867

21552868

21552869

21552870

21552871

21552872

21562642

21562643

OTE Top.Host Lamda Hellix
GRNET
HCN Aegean COSMOTE
Hostmein Interworks modulus
FoRTH Wind
Synapsecom Lancom DNHOST
CYTA (GR) AUTH OTE Globe
AIA Forthnet inalan
IpHost TIS KTHMATOLOGIO
UoC Skroutz OPAP
NTUA Vodafone Attiki Odos

Connecticore

```
$ whois AS197580 | wc -c  
14439
```

```
aut-num: AS197580
as-name: AS-CONNECTICORE
descr: Athens - Greece
org: ORG-RHS4-RIPE
remarks:
remarks: +=====+
remarks: | GENERAL BGP POLICY |
remarks: +=====+
remarks:
remarks: - Private / reserved network and private AS space is
remarks: always filtered.
remarks:
remarks: - Prefixes longer than /24 and /48 in IPv4 and IPv6
remarks: respectively are filtered.
remarks:
remarks: - BGP RPKI invalid prefixes are dropped.
remarks:
remarks: - Prefixes not matching import policy are rejected.
remarks: Customers / peers must always have a valid route object.
remarks:
```


Bonus

- IRR Invalid (The **Skroutz/inalan** way)
- No IRR (The **Interworks** way)
- Flaps in RPKI (Valid - Invalid, Valid - Missing)
- Flaps in IRR (Valid - Invalid, Valid - Missing)
- Non-RIR DBs (ALTDB, RADB)
- No ROA + No route object
- [REDACTED]

Thanks!

- @DaKnObCS on Twitter
- daknob@daknob.net on e-mail
- AS210312 on RIPE DB
- <https://blog.daknob.net/> on Web