

# RPKI Routing BoF

2012.8.29(wed) 18:00-19:00, Meeting Room 3

# Today's Agenda

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1. Introduction to this BoF, Taiji Kimura
2. Brief experience report from Japan, Tomoya Yoshida, INTERNET MULTIFEED
3. RPKI Service Promotion, Di Ma, CNNIC
4. Technical and Operational issues and overcoming them, Randy Bush, IJ
5. How APNIC accommodates NIRs' Resource CA, George Michaelson, APNIC
6. QA, summary and next step

# Introduction to this BoF

Taiji Kimura

# Why this BoF is planned (1)

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- Two things I surprised recently
  - RPKI-ware BGP routers seem to work and getting compatible each other
  - Decision and discussions in RIPE community
    - will be shown later

# Why this BoF is planned (2)

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- My motivation for this BoF
  - Have an opportunity to share topics on RPKI to talk each other
    - router operators, LIR, NIR, RIR etc..

## BoF Goal (on the BoF page)

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- Share experiences taken in Japan on RPKI-aware routers and RPKI tools
- Share status and discussions in the RIPE community for our appropriate deployment
- Create an opportunity to discuss RPKI deployment between LIRs and NIRs in the Asia Pacific region

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# Two topics

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- RPKI-aware routers are tested in Japan
  - Presentations in 30th JANOG meeting (4 - 6, Jul)
    - <http://www.janog.gr.jp/meeting/janog30/program/rpk.html>
  - Tomoya-san has detail.
- RIPE community discussed and RIPE NCC decided to continue working on RPKI
  - Presentation in 64th RIPE meeting (16-20, Apr)
    - <https://ripe64.ripe.net/programme/meeting-plan/plenary/#tues2>



# Impressive works in RIPE community (1)

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- RIPE NCC
  - RPKI Tutorial in RIPE 64
  - Rich materials useful to try and discuss
    - <http://www.ripe.net/lir-services/resource-management/certification/tools-and-resources>
      - RIPE NCC RPKI Validator
      - RIPE NCC Hosted Resource Certification (RPKI) Service
      - RPKI test router

# Impressive works in RIPE community (2)

- RIPE community

- Three concerns raised (we will have the same concern)

1. Operator Autonomy

- RIR could be forced to tamper with the certificate tree (court order)

2. Security

- The system could get compromised (hack, error, etc.)

3. Resilience

- The system could suffer from a failure
- Data cannot be maintained or retrieved (affecting BGP)

- Vote in RIPE63

- **“The RIPE NCC will continue working on RPKI”**

- Offer resource certificates on an opt-in basis
      - Offer a platform for BGP Origin Validation

# A message as the BoF moderator

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- Some BGP routers are getting RPKI-aware
- 5 RIR provides Resource Certificates for their members
- **Let's look at RPKI and share what we know and what we think between us.**
  - How do we deploy it appropriately in AP region?

# QA and the next step

Taiji Kimura

# QA

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- For each presentation
  - No discussions basically (because of time)
- Questions for next step
  - How was this BoF for you?
    - Was it interesting?
    - What do you want next?
  - Do you think trying RPKI (together)?

Thank you for coming!

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