Collective responsibility and collaboration for Routing Resilience and Security aka Routing Resilience Manifesto Update

robachevsky@isoc.org
Routing Resilience Manifesto

- Principles of addressing issues of routing resilience
  - Interdependence and reciprocity (including collaboration)
  - Commitment to Best Practices
  - Encouragement of customers and peers
- Guidelines indicating the most important actions
  - BGP Filtering
  - Anti-spoofing
  - Coordination and collaboration
- High-level document specifying “what”
  - “How” is in external documents (e.g. BCPs)
Where does the Manifesto fit?

**PROBLEM?**

Real-life examples, threat analysis, community aspirations

**WHAT is the minimum “PACKAGE” and WHO supports it?**

BCPs, BCOPs, RFCs, Operational documentation, etc.

**HOW?**

Manifesto
Objectives

• Raise awareness and encourage actions by demonstrating commitment of the growing group of supporters

• Demonstrate industry ability to address complex issues

• Clear and tangible message:

  “We do at least this and expect you to do the same”
The end product

- Landing page
- Published document
- Growing list of supporters
- Pointers to more specific information, e.g. BCOPs
Work in progress

• A small group of network operators drafting text
• ISOC as a neutral platform (convener and promoter)
• Following slides should be seen as an illustration, rather then *fait accompli*
Guidelines – 3 requested actions

1. Prevent propagation of incorrect routing information
2. Prevent traffic with spoofed source IP address
3. Facilitate global operational communication and coordination between the network operators
Guidelines – requested actions

Prevent propagation of incorrect routing information

- At least own and customer networks
- Prefix-based filtering
- Ability (and willingness) to communicate information about correctness
Guidelines – requested actions

Prevent traffic with spoofed source IP address

- At least single-homed stub customer networks
- Own end-users
- Own infrastructure.
- Ingress and Egress
Guidelines – requested actions

Facilitate global operational communication and coordination between the network operators

*Globally accessible up-to-date contact information.*
Next steps

- Finalize the draft – if you are interested find me in the hallway
- Solicit wider feedback from network operators
- Create a webspace, “founding members”
- Launch and promote
Questions

• Is this needed, useful?
• Is this the right direction?
• Is something missing?
  – Overall framework, specific guidelines?
• Are you interested in contributing?
• Will you support the Manifesto?