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

Update

robachevsky@isoc.org

Internet Society

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?

Manifesto

HOW?

BCPs, BCOPs, RFCs, Operational documentation, etc.

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?

?

robachevsky@isoc.org