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RIPE 79

Mutually Agreed Norms for Routing Security

Community Meeting



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Proposed Agenda

Updating the MANRS Actions for Network Operators

Current document do longer reflects auditing practice as its evolved over the past 4 years, does not cover specific scenarios, and gives insufficient guidance to potential applicants.

MANRS Non-Conformance

The value of MANRS is that network operators continue to implement best practice, but what to do if they don't?

Formation of MANRS Steering Group

MANRS is a self-regulating community and issues increasingly occur where recommendations need to made. The community is growing and representatives are needed for consultation and handling non-conformance issues. Membership and Terms of Reference?

MANRS Community Principles

- MANRS is a collaborative initiative of Internet operators
- MANRS is gaining visibility (and credibility?) outside of the operator community
- Internet operators undertaking MANRS principles need to set an example by maintaining best practices
- MANRS needs to be a self-regulating community

MANRS Actions for Network Operators

MANRS Actions for Network Operators Document

Guiding principles document written in 2014 - <https://www.manrs.org/isps/>

Not specific about which 4 Actions are required and which are optional – only mentions *Expected* and *Advanced* Actions

Does not state any conformance criteria for each four MANRS Actions

Specific scenarios have arisen requiring ad-hoc decisions

Auditing process has developed over past 4 years

Data sources for checking conformance are not defined

Should be noted that document currently only outlines expected actions upon joining MANRS.
Does not explicitly outline ongoing expectations.

MANRS Non-Conformance

Some Facts & Figures

226 Network Operators are MANRS participants as of October 2019

164 Network Operators conformed with 3 or more MANRS Actions during the past 3-9 months

62 Network Operators were non-conformant with 1 or more MANRS Actions during September 2019

15 were mostly minor issues – unregistered IP prefixes occasionally missing contact information

37 had one or two isolated routing incidents in the past 6 months

10 had multiple routing incidents over multiple months

Conformance Checks

MANRS Observatory is used to determine conformance with MANRS Actions

At the moment, MANRS conformance is only checked upon application

MANRS Observatory does allow participants to check the status of their own networks, but requires proactivity.

Issues the MANRS Community should reach consensus on

How to deal with external parties when routing issues cause problems or become public?

Proposal: Affected MANRS participant should respond within certain time period (24 hours?) – ideally to address the problem and provide an explanation.

Otherwise the MANRS initiative will need to respond - suggested Formulation:

MANRS defines a set of industry-developed operational best practices that improve the security and resilience of the Internet. MANRS participants are expected to implement and continue to adhere to these established guidelines, but responsibility for doing so rests with individual network operators.

Defining the requirements for ongoing conformance for each of the 4 Actions

At present, the MANRS Actions document only defines the auditing criteria when Network Operators apply to join

What processes should be introduced for participants dropping below the necessary criteria for conformance and continuing to fail to meet this?

MANRS Steering Group

Rationale

The Internet Society supports the MANRS initiative, but decisions need to be made by the MANRS participants

Increasing number of decisions need to be made:

- Auditing questions as they arise
- Advice on updating the MANRS Actions
- Development of ongoing MANRS conformance criteria
- In future – how to handle participants failing to meet the necessary criteria for MANRS conformance

The MANRS Community is already comprised of more than 260 organisations and is continually growing

Increasingly impractical to consult entire community and reach consensus on individual matters.

The MANRS process needs more active and community representative development!

Composition & Terms of Reference

Initial group of volunteers to start with?

Different sectors to be represented – e.g. Commercial ISPs, (N)RENs, IXPs, Content Providers, others...?

Scope?

Initial role/tasks?

Thank you.

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