MANRS

Mutually Agreed Norms for Routing Security

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MANRS improves the security and reliability of the global Internet routing system, based on collaboration among participants and shared responsibility for the Internet infrastructure.

MANRS sets a new norm for routing security.

MANRS Programmes

- Network Operators
- Internet Exchange Points
- Content Delivery Networks (CDNs) and Cloud Providers

MANRS Ambassadors and Fellows Research Group initiatives

Overview

Launched in 2020, Ambassadors and Fellows make the global routing infrastructure more robust and secure.

They work in one of three categories: training, research, or policy.

Ambassadors are representatives from current MANRS participants who provide mentorship, guidance, and feedback to others in the routing security community.

Fellows are emerging leaders who believe that routing security is essential and are ready to contribute to its improvement.

MANRS Research Group 2020 initiatives

Incident review and analysis

Classify and analyze routing incidents that significantly impact the Internet

Accelerate RPKI/ROA related RFC awareness

Present a graphical representation of the interrelation of RPKI/ROA RFC's as well as summary to help consume the critical information faster and fast track the ramp up for organizations to adopt and deploy RPKI/ROA

RPKI Validators option review and assessment

Multiple validators exist today with different degree of scale being tested. Work towards a summary of the recommended option

Survey to the larger community in collaboration with Global Cyber Alliance

MANRS Research Group long term initiatives

The Observatory and tools for detection/reporting

Evolution of the MANRS Observatory, recommendation of tools for detection and mitigation including algorithm optimization to MANRS members

RPKI Ecosystem infrastructure scaling

Understand the limitations of the current scaling capability of the ecosystem available today and express the operational risks and mitigation

Beyond ROA: BGP Path validation

Review and recommend BGP path validation options

Thank you.

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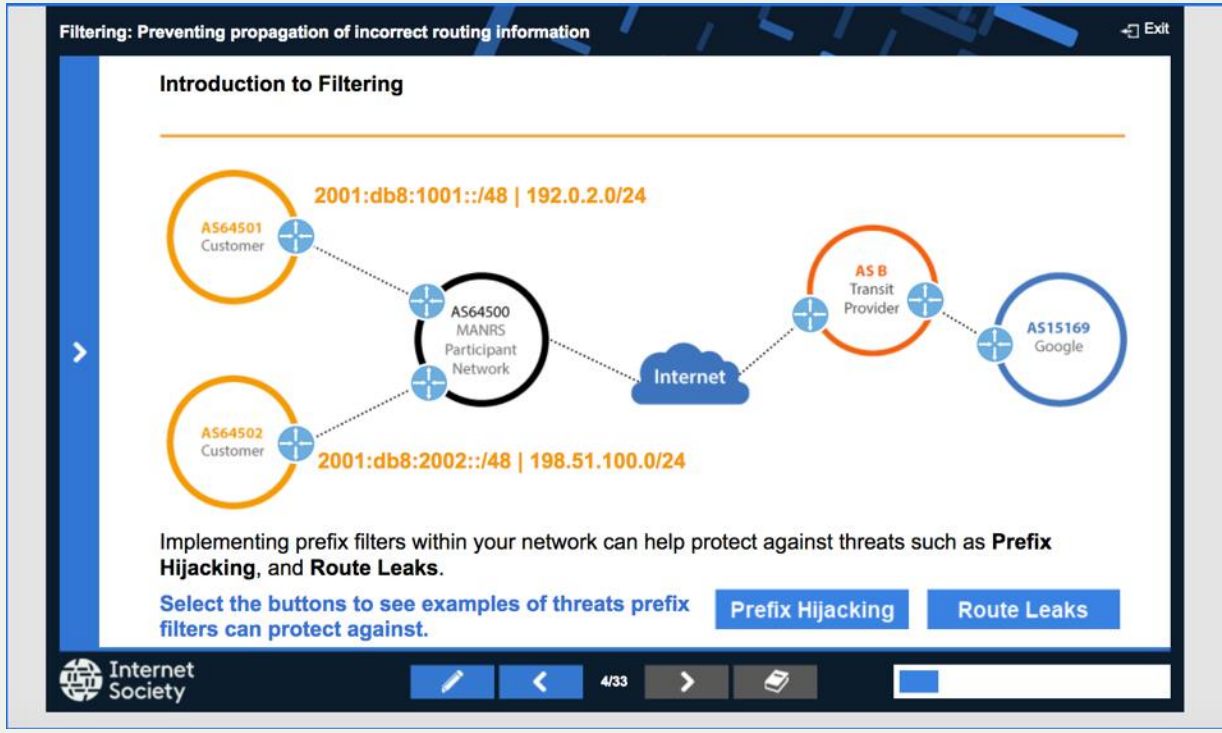
MANRS Resources

Help Is Available

If you're not ready to join yet, implementation guidance is available to help you.

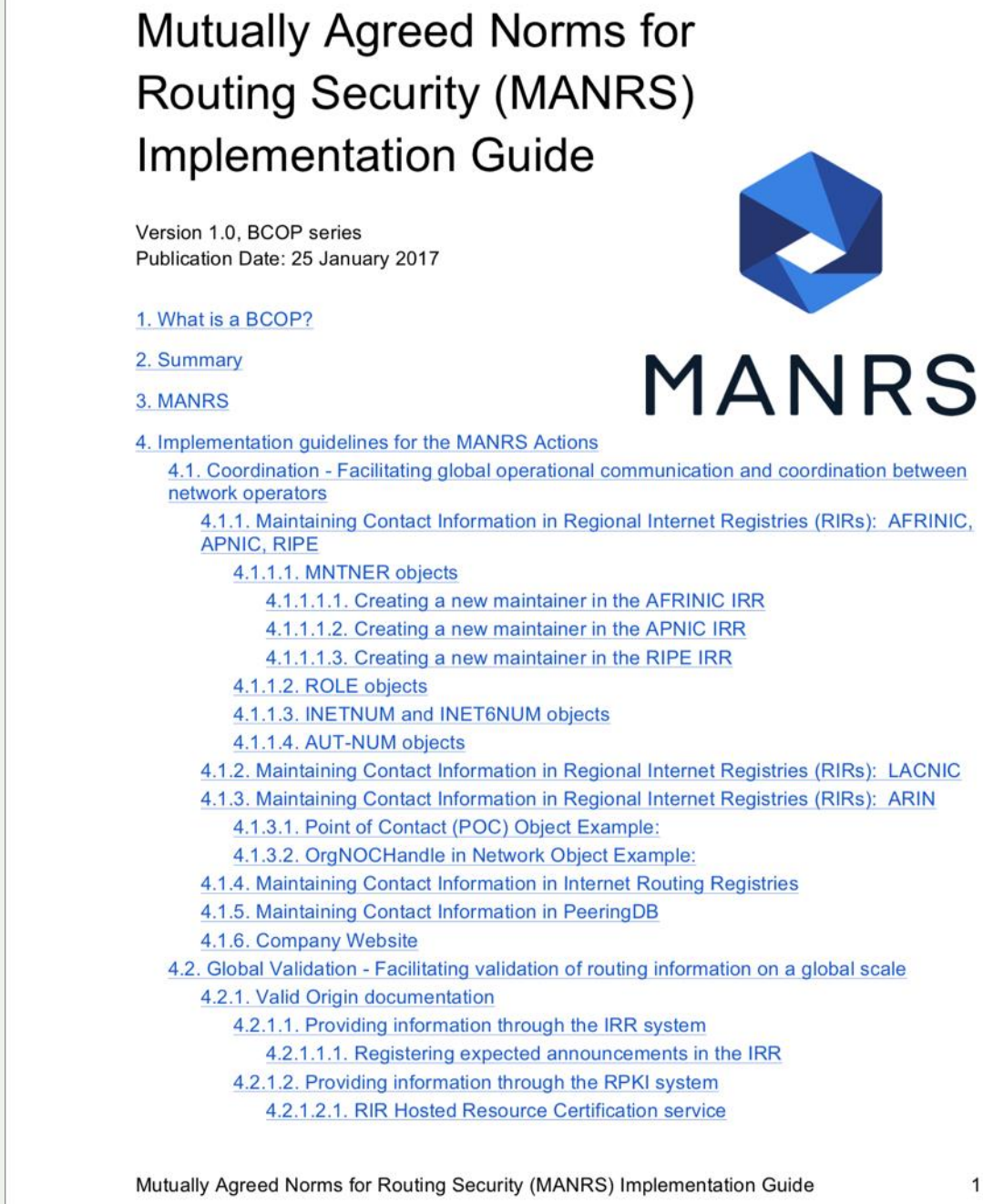
- **Implementation Guide** based on Best Current Operational Practices deployed by network operators around the world
- **Tutorial modules** based on information in the Implementation Guide.



MANRS Implementation Guide for Network Operators

If you're not ready to join yet, implementation guidance is available to help you.

- Based on Best Current Operational Practices deployed by network operators around the world
- Recognition from the RIPE community by being published as RIPE-706
- https://www.manrs.org/bcop/



Mutually Agreed Norms for Routing Security (MANRS) Implementation Guide

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MANRS

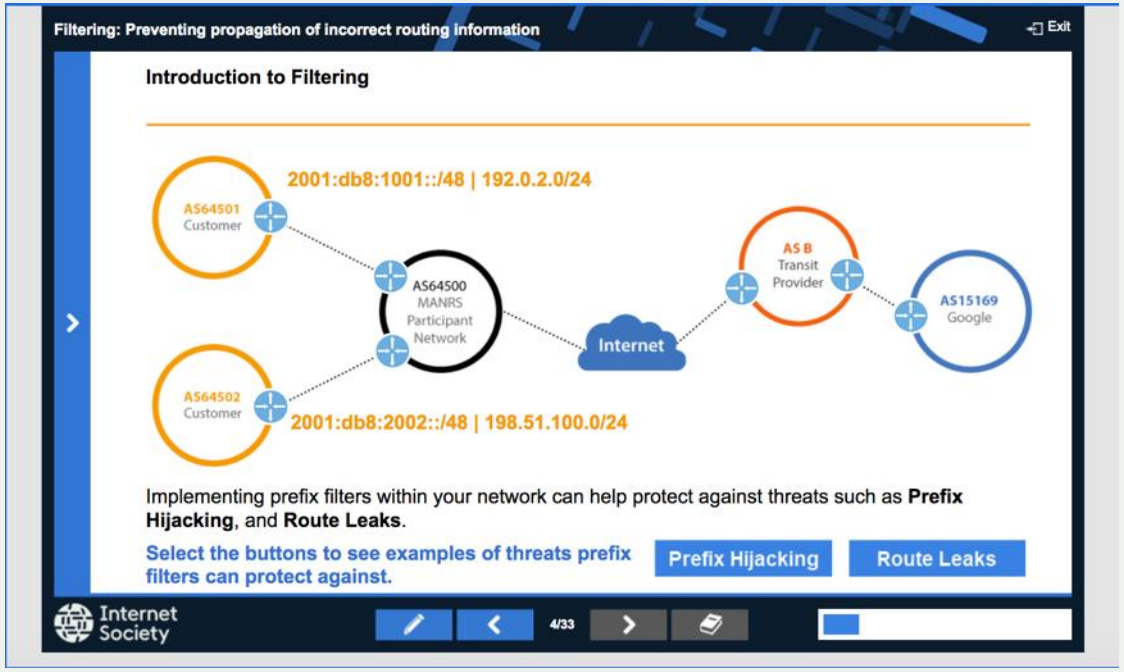
MANRS Tutorials

Tutorials based on information in the Implementation Guide

Walks through the tutorial with a test at the end of each module

Working with and looking for partners that are interested in integrating it in their curricula

https://www.manrs.org/tutorials



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