



Number Resource Organization (NRO) Strategy 2026-2028

Introduction

The Number Resource Organization (NRO) serves as the coordination platform for the Regional Internet Registries (RIRs), enabling collaboration on matters of global relevance to Internet number resource management. Through this role, the NRO supports the stability, security, and long-term sustainability of the Internet's numbering system.

This Strategy outlines the NRO's priorities and intended outcomes for the 2026–2028 period. It focuses on areas where collective action and coordination across RIRs provide clear global value.

Strategic Focus Areas

For the 2026–2028 period, the NRO will concentrate its efforts on three strategic pillars:

1. **Internet Number Registry Governance**
2. **Security**
3. **IPv6**

1. Internet Number Registry Governance

The NRO will act as the primary coordination body supporting the implementation of the RIR Governance Document across all RIRs. In this capacity, the NRO will also serve as the interface with ICANN to agree on matters related to implementation and coordination.

Strategic Objectives

- Provide a coordinated and consistent approach to implementing the adopted RIR Governance Document across regions.
- Support prioritization of implementation activities in alignment with agreed community outcomes.
- Enable structured collaboration among RIRs on complex or cross-cutting governance topics.

Key Outcomes (2026–2028)

- The NRO will establish priorities for implementation of the RIR Governance Document.

- Where appropriate, the NRO may facilitate the formation of time-bound task forces to develop shared frameworks or blueprints addressing specific implementation areas, including contingency arrangements related to the continuity of core registry services.
- Outputs produced through NRO-facilitated work will be made publicly available to support transparency and shared understanding.

2. Security

2.1 Resource Public Key Infrastructure (RPKI)

The NRO recognizes the importance of a consistent and reliable RPKI ecosystem in supporting Internet routing security. As the coordination body for the RIRs, the NRO will work to improve the experience of operators and users implementing RPKI across regions, while continuing to recognise the needs of smaller operators.

Strategic Objectives

- Strengthen global trust in RPKI through coordination on standards, operational consistency, and resilience.
- Support the evolution of RPKI functionality in line with community and operational needs.

Key Outcomes

- Delivery of a Trust Anchor (TA) Constraints document accepted by the IETF, enabling improved safeguards against incorrect resource claims (target: 2026).
- Deployment of Autonomous System Provider Authorization (ASPA) functionality within RPKI systems (target: 2026).
- For the 2027–2028 period, the NRO Engineering Coordination Group (ECG) will further consider improvements related to:
 - Reliability of inter-RIR transfers
 - Consistency of operational parameters
 - Resilience of RPKI services across RIRs

2.2 Security Threat Intelligence Coordination

Recognizing the growing importance of timely and trusted information sharing, the NRO will seek to enhance coordination among RIRs on security threat intelligence.

Strategic Objectives

- Improve the effectiveness of cross-RIR collaboration on security-related information.
- Support situational awareness while respecting regional autonomy and operational boundaries.

Key Outcomes

- Establishment of an agreed process or protocol for sharing relevant threat intelligence and security incident information across RIRs.



- Identification of appropriate metrics to support reporting and assessment of the effectiveness of these coordination mechanisms.
- An established task force will report on progress of the above.

3. IPv6

The NRO affirms that IPv6 is a strategic priority for all RIRs and is essential to the long-term growth and development of the Internet. As IPv6 deployment has surpassed 50% in some regions, the NRO believes it is timely to prepare for an Internet environment where IPv4 is no longer dominant.

Strategic Objectives

- Demonstrate leadership by example in IPv6 adoption and deployment.
- Reduce barriers to IPv6 deployment through shared understanding and coordination.
- Promote global exchange of knowledge and best practices.

Key Outcomes

- RIRs will demonstrate tangible support for IPv6 deployment, including through internal operational practices and procurement policies that encourage or require IPv6 capability.
- Development of a shared mechanism to track and highlight global barriers to IPv6 deployment.
- Increased sharing of IPv6 best practices across regions, complementing existing regional efforts with global perspectives.

Conclusion

Through this Strategy, the NRO commits to strengthening global coordination among RIRs in areas where collective action delivers the greatest value. By focusing on governance implementation, security, and IPv6, the NRO aims to support a stable, secure, and scalable Internet number registry system for the benefit of the global Internet community.