

RIPE NCC Update

Axel Pawlik Managing Director RIPE NCC

ARIN 39 New Orleans April 2017

There's a Lot on the Cards



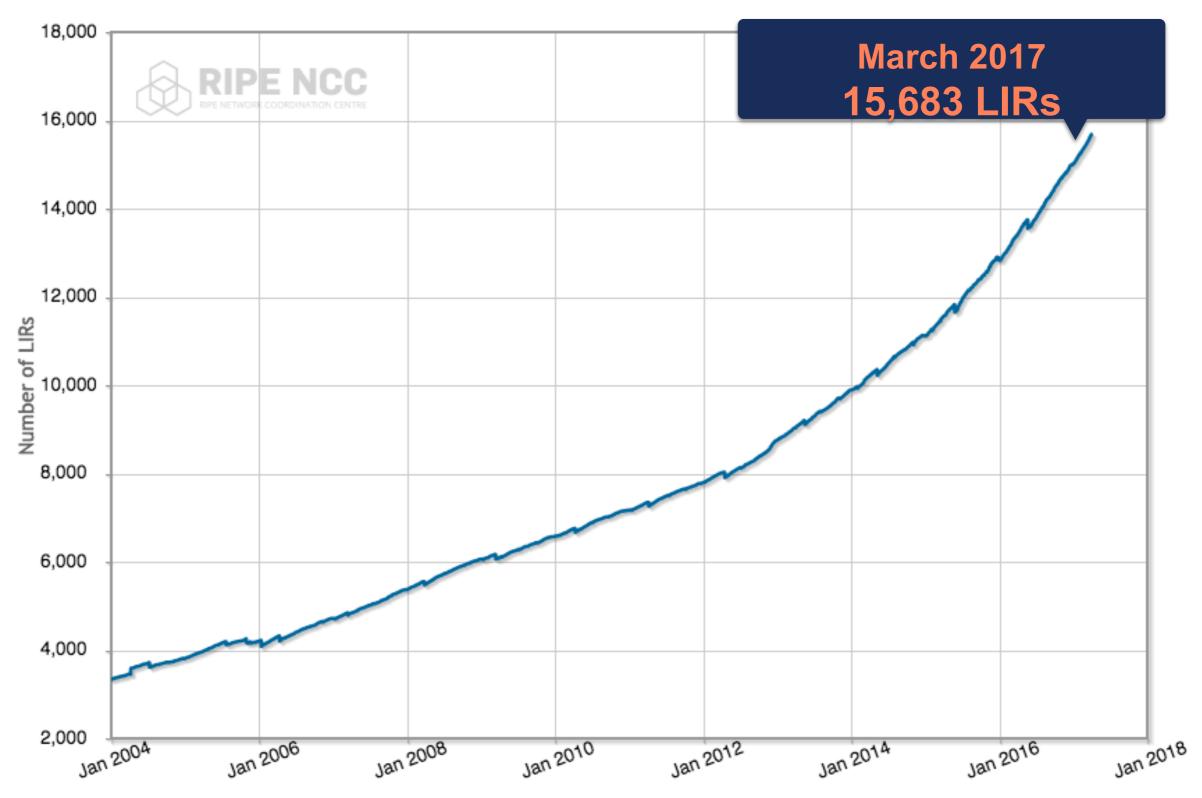
- Our focus in 2017
- New office in Amsterdam
- RIPE NCC Survey and actions
- Helping governments with IPv6
- Formalising external relationships
- Growing our regional presence
- And much more!

Our Focus in 2017



- A strong, secure and accurate registry
- Enhancing RIR stability through good governance and accountability
- Pursuing efficiency through streamlined internal processes and automation
- Engaging with members, the RIPE community, governments and regulators

Membership Continues to Grow



Our New Home in Amsterdam





RIPE NCC Survey and Actions



- Great response to our 2016 survey
 - 4,300 people from over 100 countries responded
- Strong support for the current direction of the RIPE NCC and high levels of satisfaction
 - Awareness of certain RIPE NCC services remains an issue
- Results analysed by neutral third party
 - Used to identify 40 key findings and proposed actions that we will undertake over the coming year

RIPE NCC Survey and Actions



Internet Governance

Survey Finding	Proposed Action/Action Carried Out	Status
The RIPE NCC should be a neutral, trusted advisor for governments rather than a lobbying party.	The RIPE NCC has moved to formalise its relationships with various actors in the public and private sectors, establishing MoUs with governments that document the neutral role the RIPE NCC plays.	~
The RIPE NCC should be giving governments insight on the technical environment of the Internet community and explaining related technical issues.	In Q1/Q2, the RIPE NCC will have held three Roundtable Meetings for governments. These offer governments and intergovernmental bodies the chance to interact with the RIPE NCC on technical issues and industry concerns.	~
Education is an important function of the RIPE NCC in this area.	To increase collaboration on external relations through training activities, the RIPE NCC is developing a webinar that highlights the important Internet governance issues to our membership and community, and facilitating their effective engagement in Internet governance events.	✓

RIPE Database

Survey Finding	Proposed Action	Status
Improve awareness about RIPE Database developments and improvements.	Improve communications around RIPE Database developments	<u>></u>

IPv6

Survey Finding	Proposed Action	Status
Lack of technical knowledge was a commonly cited reason not to deploy IPv6.	Expand IPv6 training opportunities.	<mark>></mark>

https://www.ripe.net/survey2016/key-findings

IPv6 Programme for Governments



- RIPE NCC initiative to assist governments with their IPv6 deployment plans
- Establish contact with governments before IPv6 planning starts and/or has passed all approval levels
- Raise awareness IPv6 policies and procedures
- Delivered through a one-day tailored programme

Formalising External Relationships

- We work with a diverse range of organisations
 - Technical coordination organisations
 - Industry groups
 - Public regulators
 - Law enforcement agencies
 - Academic institutions
- We will be formalising our existing relationships with these organisations
- The aim is to foster more cooperation and coordination for the benefit of our community https://www.ripe.net/about-us/what-we-do/formal-agreements

Working with Law Enforcement



- Engaging with Law Enforcement Agencies (LEAs) in our service region:
 - Signed MoU with Europol that builds on a long-standing relationship
 - Training for LEAs in Ukraine and Belarus
- Incoming policy proposal from law enforcement that will focus on RIPE Database accuracy

RIPE NCC Regional Presence



- More focus on RIPE NCC Regional Meetings and community events, member lunches, etc.
- Supporting NOGs throughout our service region
- Ongoing support for ENOG, MENOG and SEE communities
- Engaging with governments in the region, particularly on issues concerning regulation, industry trends and Internet development
- Growing our External Relations team to better engage regionally

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RIPE Fellowship Programme



- Provides basic assistance for people from our service region to attend RIPE Meetings
- To be eligible, candidates must:
 - Work or study in Internet technology (or related field)
 - Live or work in the RIPE NCC service region
 - Show a need for financial assistance
 - Agree to share knowledge gained with their local Internet community

https://www.ripe.net/ripe-fellowship

RIPE Policy Developments



• 2015-04, "RIPE Resource Transfer Policies"

- Creates a single transfer policy document for all types of resources (accepted being implemented)
- 2016-04, "IPv6 PI Sub-assignment Clarification"
 - Defines sub-assignments in IPv6 PI assignments (proposal being redrafted)
- 2016-05, "Synchronising the Initial and Subsequent IPv6 Allocation Policies"

- Matches the subsequent IPv6 allocation requirements with the initial allocation requirements (accepted)

Resource Transfers



- All Internet number resources can be transferred within the RIPE NCC service region
- Inter-RIR transfers with APNIC and ARIN

All Inter-RIR IPv4 Transfers 2015-2017

	Incoming	Outgoing
APNIC	14	6
ARIN	128	13

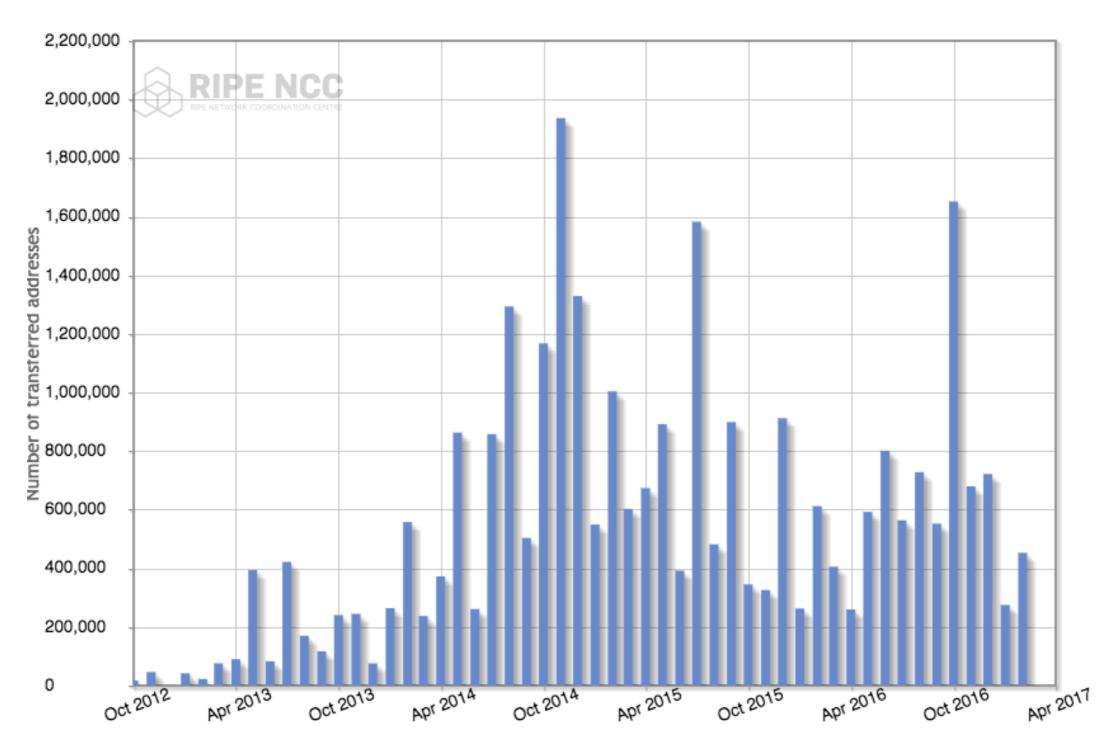
Transfers Within Our Service



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	IPv4	IPv6	ASNs
2012	9		
2013	154		
2014	920		
2015	2699	55	104
2016	2180	190	417
2017	436	42	81

IPv4 Addresses Transferred



452,864 IPv4 addresses transferred within our service region last month

Resource Certification (RPKI)

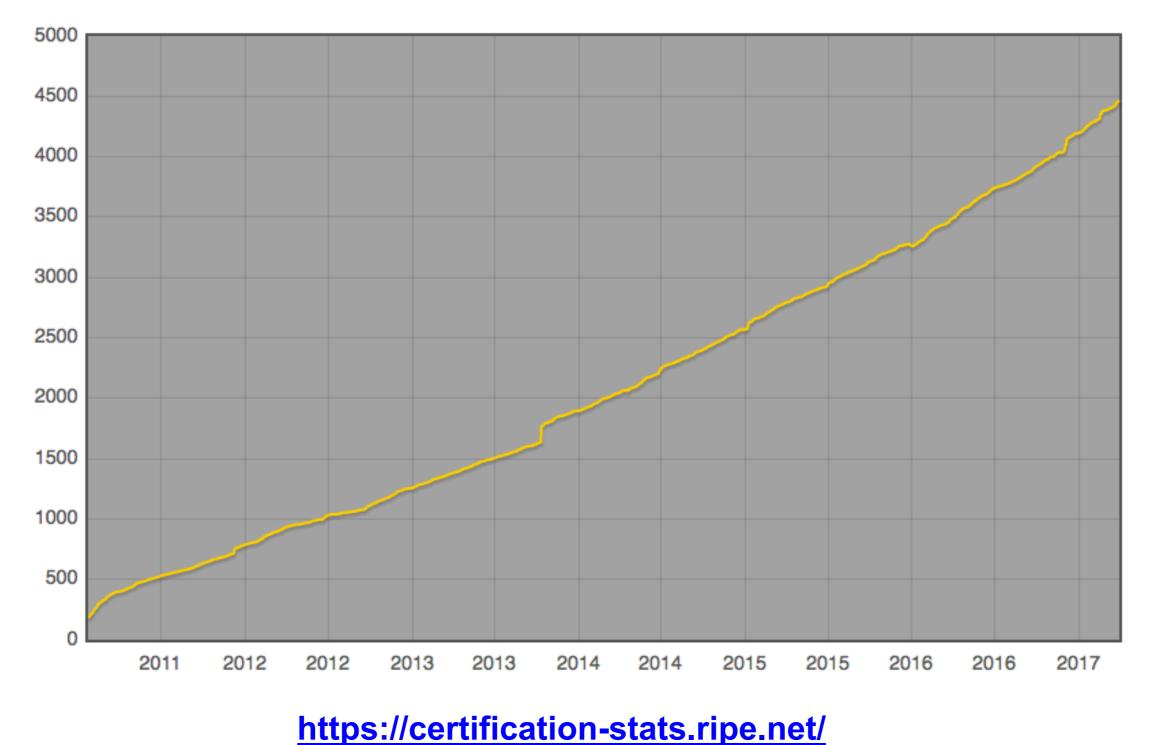


- 4,400+ LIRs have requested a certificate
- LIRs have created Route Origin Authorisations (ROAs) covering:
 - 3,558 unique ASNs
 - 19,316 IPv4 prefixes (11.5 /8s)
 - 2,838 IPv6 prefixes
- All address space can be covered
 - Including PI and legacy space

RPKI in Our Service Region



28% of LIRs with a certificate



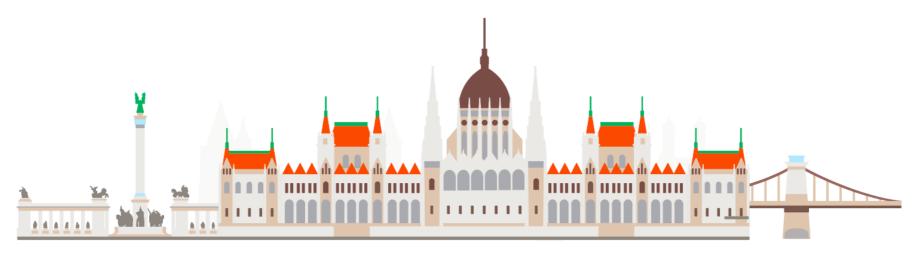
RPKI Validator



- Operators can validate the RPKI data sets for use in BGP and router configuration
- We will be improving our RPKI Validator to increase the scalability of this service
 - Modern, stable routing workflow toolset
 - Secure, modular design
 - Integrate IRR functionality

Join us in Budapest!









Questions



axel@ripe.net