Registry Services 101:

Becoming a new resource holder
in a post run-out time

Alena Muravska | ENOG 18 | 7-8 June 2021

What we're talking about today

- Still current from ENOG 17: quick summary

- ENOG 18: focus on new resource holders

  - How to become a member

  - How to request Internet number resources

- How the RIPE NCC supports the ENOG community

- Get involved

Still current from ENOG 17

Still current from ENOG 17

- Post IPv4 run-out and what it means for the community

- Increase of IPv4 transfers and mergers/acquisitions

  - Soon it will be the only way to become an IPv4 holder

  - 24-month holding period

- The dynamics between the RIPE NCC and our members has changed

  - More commercial outlook from some members

  - Increased attempts to acquire control under false pretences (hijacking)

  - The challenge of balancing due diligence and bureaucracy

Still current from ENOG 17

- Accuracy of the Registry remains a high priority

- Part of the RIPE NCC mandate:

  - Due Diligence for the quality of RIPE NCC Registration Data

  - https://www.ripe.net/publications/docs/ripe-748

- Is a result of the joint effort between:

  - The RIPE NCC

  - Resource holders

- The integrity of the registry protects members' resources from misappropriation

Still current from ENOG 17

- If you need more IPv4 resources: IPv4 Transfers

  - IPv4 allocations can be transferred between LIRs

  - IPv4 Provider Independent (PI) Assignments can be transferred between LIRs and End Users

  - 24 month holding period after a transfer

  - Based on the current RIPE Resource Transfer Policy

- Inter-RIR transfers now possible

- "Buying" vs "Renting" of IPv4 – be aware of the risks

- See full presentation here:

  - https://www.enog.org/enog-17/archives/

Policy Transfer Requests Per Year
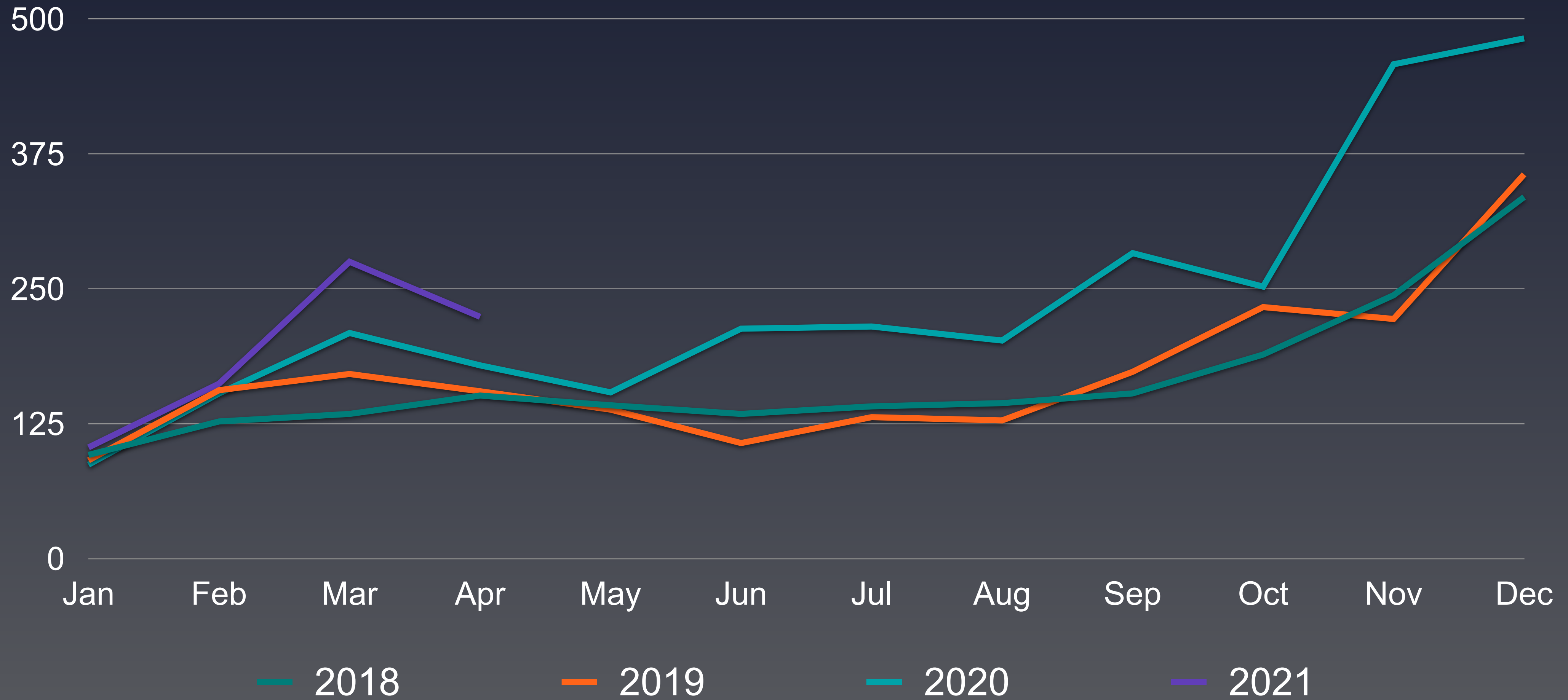
Focus on New Resource Holders

Becoming a New Resource Holder

- As a RIPE NCC member

  - IPv4 and IPv6 allocations

  - AS Numbers

- As an End User (via sponsoring LIR)

  - IPv6 Provider Independent assignments (PI)

  - AS Numbers

Become a RIPE NCC member

- Any legal or natural person can become a member

- Go to ripe.net - Become a member:

  - https://www.ripe.net/participate/member-support/become-a-member/becoming-a-member-of-the-ripe-ncc

- You will need to have a RIPE NCC Access account to submit the application

- Create your account and submit your application form at:

  - https://my.ripe.net/#/public/membership

Become a RIPE NCC member

- The application form will take 10-15 minutes to complete

- Information you will need to complete this form:

  - Legal information

  - Financial information

  - Personal information

Become a RIPE NCC member

- RIPE NCC performs checks according to the Due Diligence Procedure:

    - https://www.ripe.net/publications/docs/ripe-748

- After verification we send you the RIPE NCC Standard Service Agreement (SSA) and the invoice by email

- Once we receive your payment and signed SSA, we activate your LIR account

Billing Information

- Contributions per LIR account in 2021

  - One-time sign-up fee – EUR 2,000

  - Annual contribution – EUR 1,400

- RIPE NCC Billing Procedure

  - https://www.ripe.net/participate/member-support/payment/ripe-ncc-billing-procedure-2021

- Billing information for Russian members:

  - https://www.ripe.net/participate/member-support/payment/ripe-ncc-billing-procedure-2021/information-for-russian-members

How to Request Resources

- Via the LIR portal

  - https://my.ripe.net/#/request

- What kind of resources can you request?

  - IPv4 Allocation: /24

  - IPv4 Temporary Provider Independent (PI) Assignment

  - IPv6 Allocation: /32 up to /29

  - ASN (Autonomous System Number)

  - IPv4/IPv6 IXP (Internet Exchange Point) Assignment

- Supporting notes for Internet Address Space Request Forms

  - https://www.ripe.net/manage-ips-and-asns/resource-management/supporting-notes-for-internet-address-space-request-forms

Life After IPv4 Run Out

- Resources are recycled from returned IPv4 space

- IPv4 Waiting List consistently below one day since Jan 2020

- Pool updated daily and includes deregistered IPv4 space

- Recycled space in quarantine for six months

- Currently around 1,591 /24 blocks available for allocation in a pool

79

1,591

● In quarantine for the next 30 days
● Available for immediate allocation
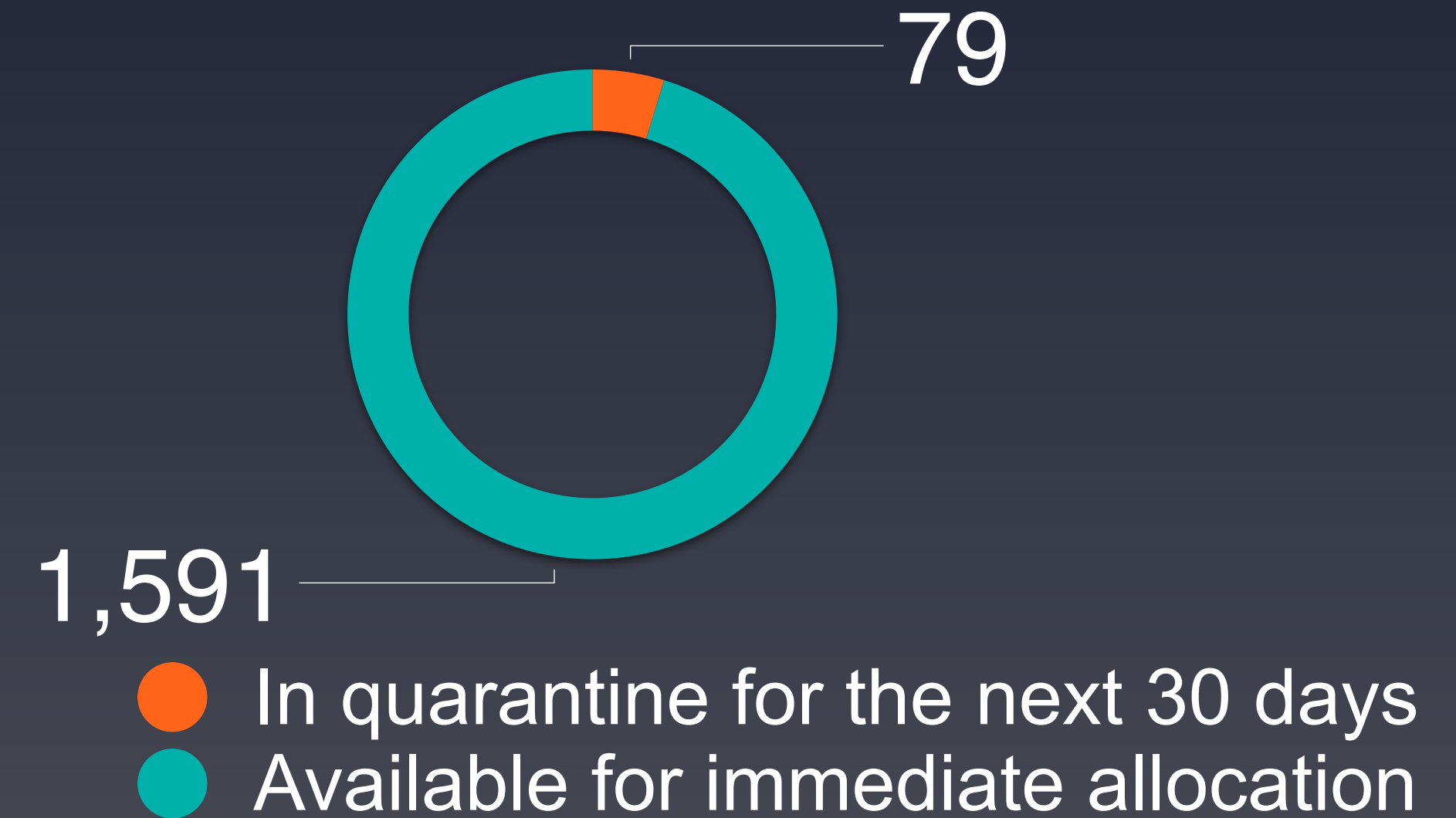
Monthly IPv4 Allocations since the Waiting List Activation
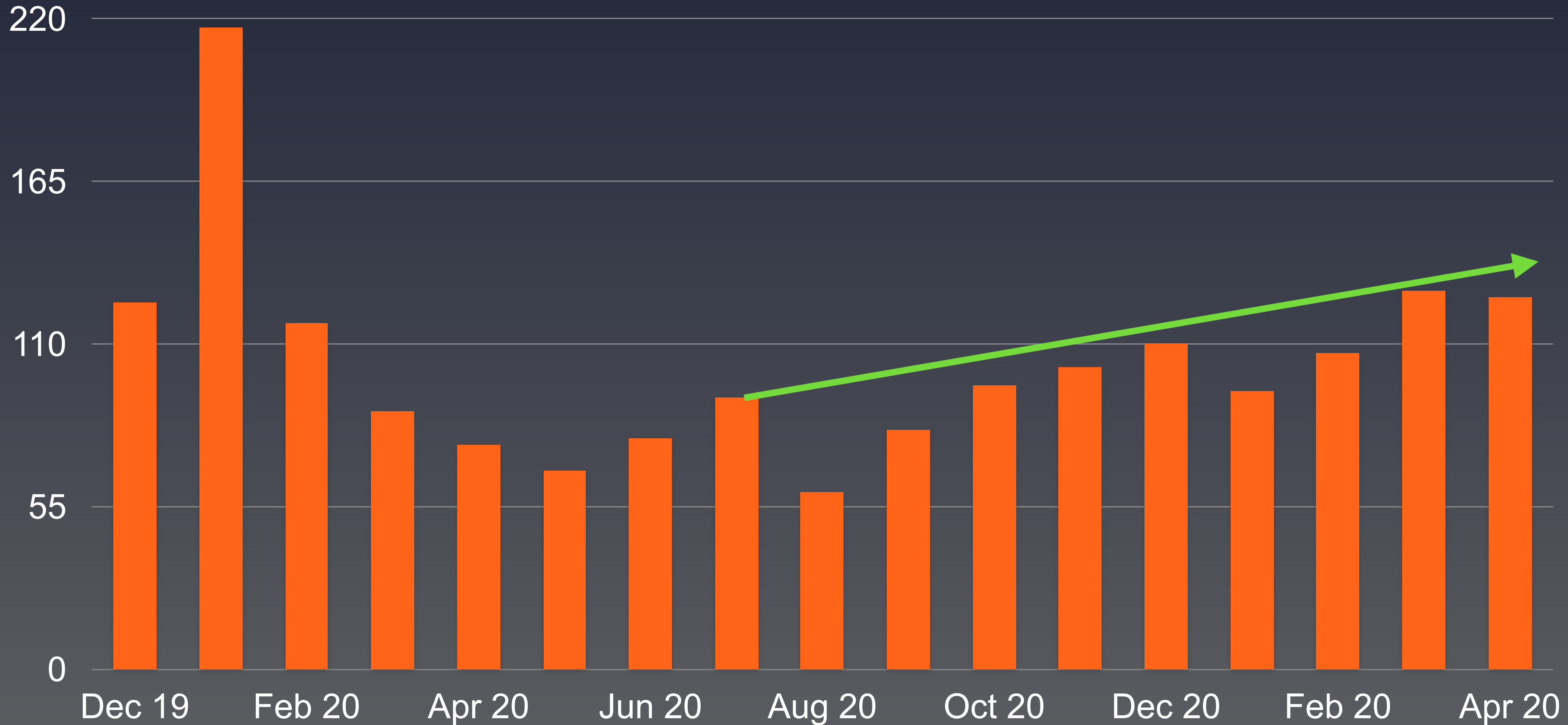
On with IPv6!

- What kind of IPv6 address space can you request?

  - IPv6 Allocation

  - IPv6 Provider Independent (PI) Assignment

  - IPv6 Temporary Provider Independent (PI) Assignment

  - IPv6 Anycast Assignment

On with IPv6!

- You can receive the first IPv6 allocation if:

  - You confirm you have a plan for making assignments within two years

- Allocation size

  - The minimum allocation size is /32

  - Can be extended up to /29 without additional justification

  - You must provide technical documentation if you request an allocation that is larger than /29 or a subsequent allocation

- Address space from allocations can be further assigned to third parties (your customers)

On with IPv6!

- Non-members can request an IPv6 Provider Independent (PI) assignment for their own infrastructure

  - The minimum size of the assignment is /48

  - If you request an assignment that is larger than /48 you must provide justification

  - The PI assignment cannot be further sub-assigned to other organisations

Support for the ENOG community

Language support

- We have four documents on ripe.net in Russian:

  - About the RIPE NCC

  - How to become a member

  - How to get resources

  - Transfers

- Staff provide support in Russian

  - Member requests, Assisted Registry Checks

  - Presentations at events and training courses where possible

  - Local staff in ENOG region

- Invoicing in Russian

- RIPEstat UI translations

- Translated RIPE NCC Country Reports

Translation project

- We are translating content into six languages, including Russian

- Content will be published on a wiki website

- First results by the next RIPE meeting

- The project is ongoing, so new content could be added in the future

Translation Project - Why we are doing it?

- To provide members with greater understanding of services and activities

- Increased participation benefits us all

- Inclusion and geographic diversity are important for the development of the membership and community

Get Involved

- Participation from the ENOG region is appreciated

- Policy Development (RIPE community)

  - To define rules for IPv4, IPv6 and AS Numbers and more

  - Via Working Groups

  - Open to everyone, participation is done via mailing lists

- General Meeting (RIPE NCC membership)

  - Operations and activities of the RIPE NCC

  - Twice a year adjacent to the RIPE Meetings

Questions ?