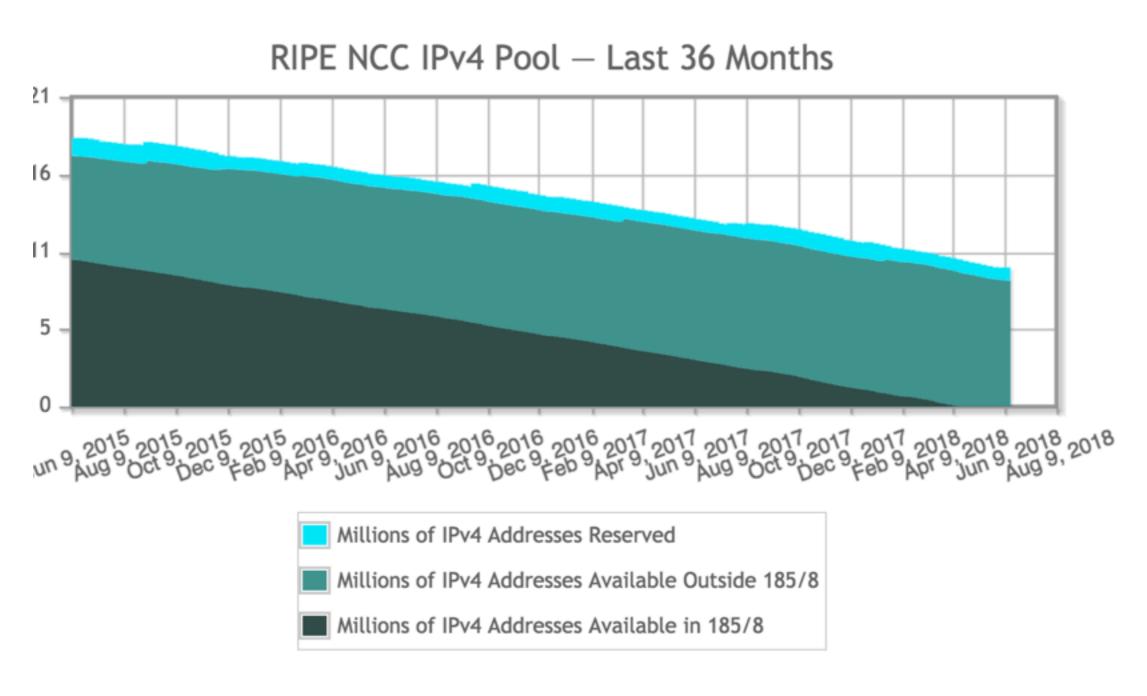


IPv4 Transfers in the Region

Name | Date | Event

RIPE NCC Available IPv4 Pool





www.ripe.net/IPv4-graph

IPv4 Address Distribution



- Less than 0.5 /8s in our pool Projected to last 1,5 more years
- Each LIR can receive one final allocation from our remaining pool (last /8)
 - Allocation size: 1,024 addresses (/22)
 - For both <u>new</u> and <u>existing</u> members

 IPv4 addresses cannot be transferred for 24 months from the date they were received by the resource holder



Transferring IPs

Country Statistics

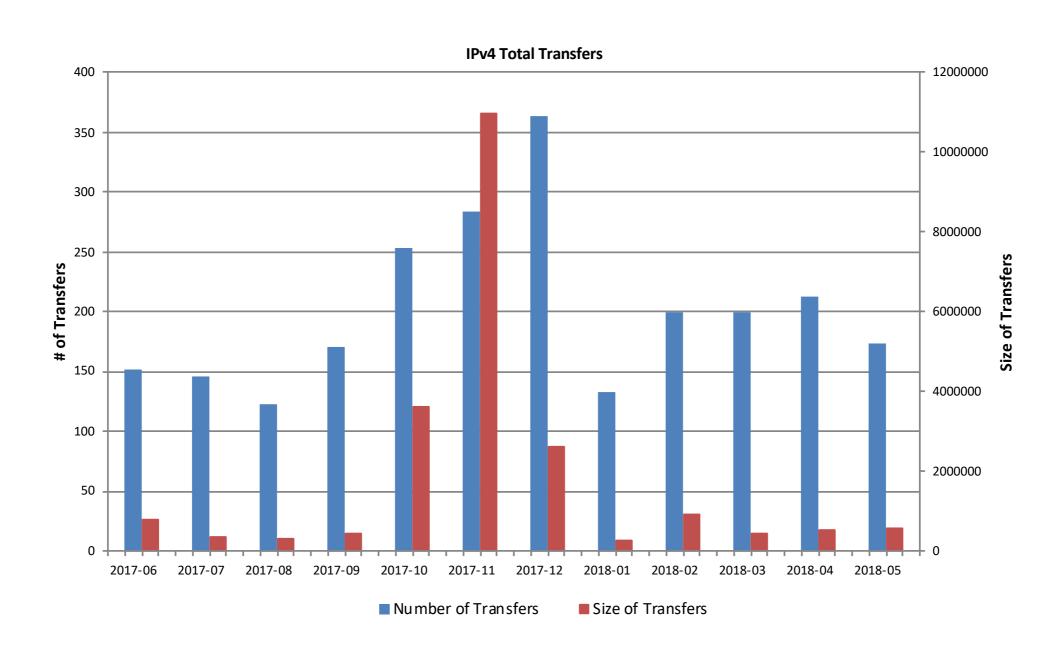


Country Code	IPs Into	Transfers Into	IPs Inside	Transfers Inside	IPs From	Transfers From
FI	8192	6	371456	37	82176	15
DK	229120	27	204544	43	632832	119
IS	12288	2	3328	4	6144	3
NO	294656	25	241664	25	5120	4
SE	250112	107	754432	75	20480	14
Legend:						
IPs Into = IPs transfer	red into the country fro	m another country				
Transfers Into = Nr of	transfers into the coun	try from another country				
IPs Inside = Nr of IPs transferred within the country						
Transfers Inside = Nr	of transfers within the o	country				
IPs From = IPs transf	erred from the country t					
Transfers From = Nr of transfers from the country to another country						

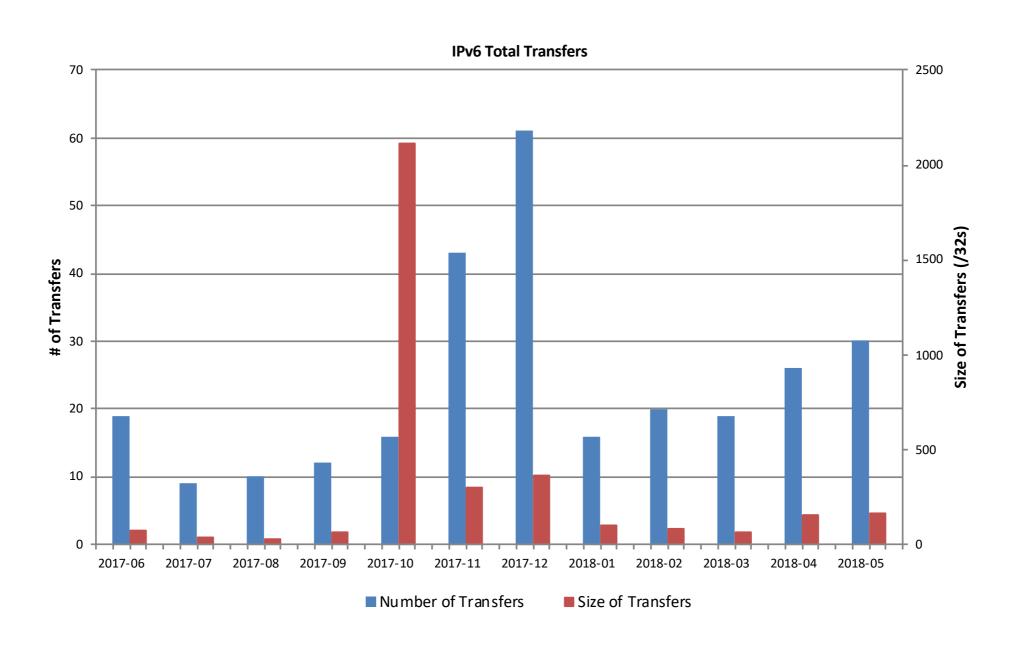
Presenter name | Event | Date

Completed IPv4 Transfers

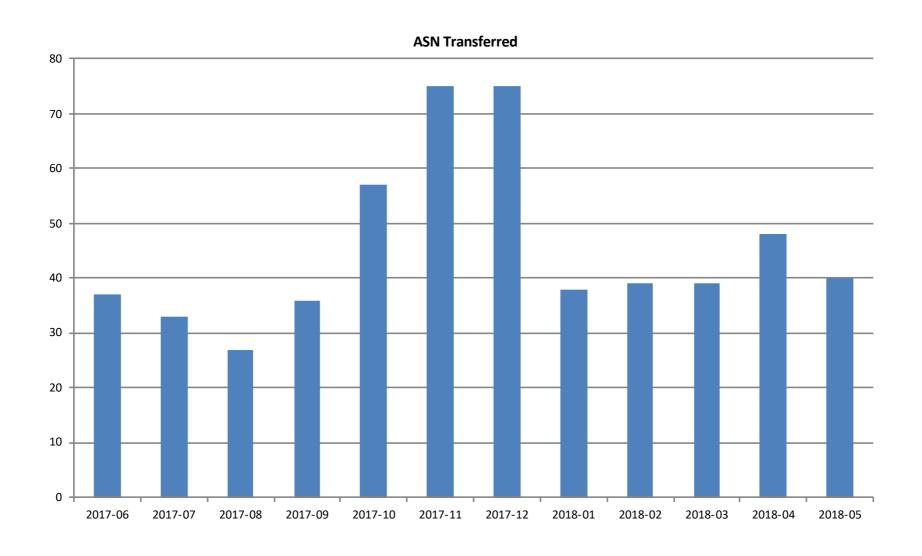




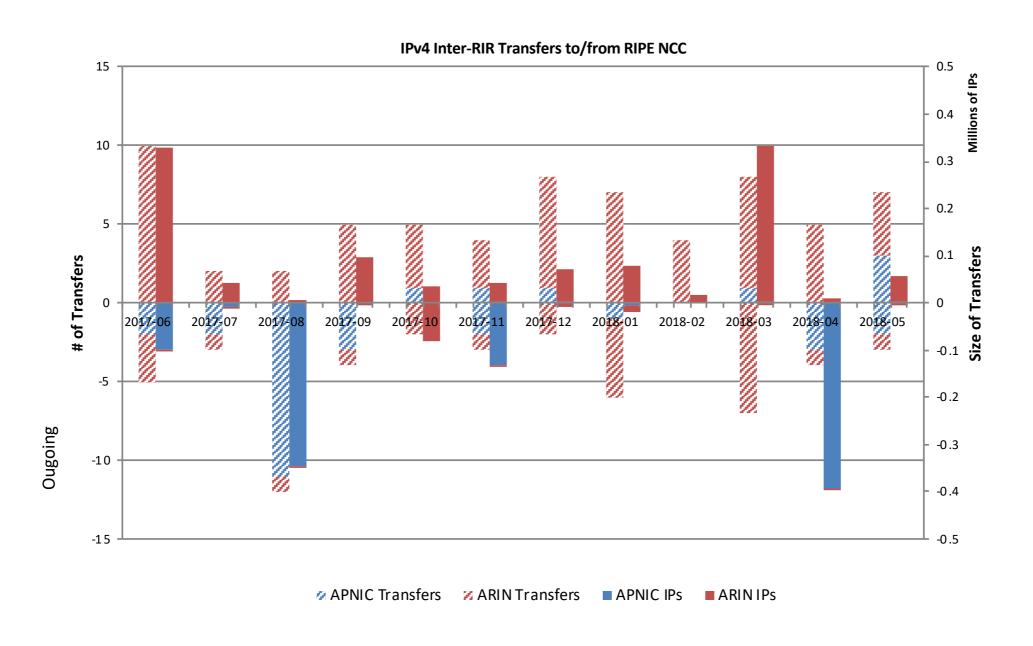












Presenter name | Event | Date

IPv4 Hijacks



- IPv4 addresses are becoming more valuable due to scarcity
- Criminals use very sophisticated methods to obtain control over (seemingly) unused address blocks
 - Faking registration and identity papers
 - Faking entire websites and domains
- Hijackers often target resources with outdated contact details!

Increase in Disputes Over IP Addresses



- Disputed transfers
 - Outdated contact information
 - "LIR contact was no longer working at the company"
- Hijacked, disputed LIR accounts
 - LIR contacts removing other contacts from the LIR Portal
 - LIR accounts opened on behalf of unaware organisations

We see an increase in efforts to hijack legacy space



Questions

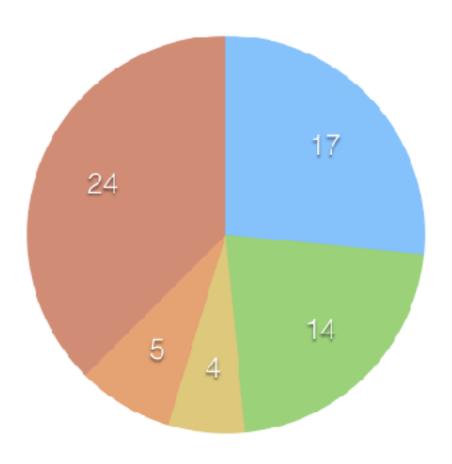


Actions Taken by the RIPE NCC



Year	2015	2016
Concluded	95	64
New	25	80

- De-registered PI
- Due-diligence reminder*
- Final warnings**
- LIR closures (SSA & Membership termination)
- Rejected new LIR applications



^{*}Due diligence reminder for more minor infringements

^{**}Final warnings for major Policy and contractual violations