

RIPE-554bis

The saga of updating it...



Who are we?

• The authors of RIPE-501, RIPE-554 and RIPE-554bis

- Jan Żorž	RIPE	501	554	554bis

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What is RIPE 554?

- Guidance when procuring IPv6 capable equipment and software for enterprises
- A document of the RIPE IPv6 Working Group
- It is/was quite successful:
 - Used by enterprises and governments all over the world
 - Part of government procurement rules in several countries
 - Some vendors secretly admitted it became their IPv6 roadmap



Basic changes

- There are always typos and bad grammar to fix
- Updated RFC references to current versions
- Add fundamental RFCs like "IPv6 over Ethernet"
- References to SeND removed
- Removed BOUNDv6 as it doesn't exist anymore

The following slides show the highlights



Changes for hosts

- Added some requirements:
 - Handling of overlapping fragments
 - Atomic fragments considered harmful
 - Stable opaque addresses for SLAAC and DHCP

- RDNSS (DNS options in RA) support became mandatory
- Mobile IPv6 became optional



Changes for enterprise/ISP switches

- Added some mandatory DHCPv6 relay options
- Added SAVI for DHCPv6 as optional



Changes for routers

- Added RDNSS (DNS options in RA) support
- Added "don't assume /64"
- Added some optional DHCPv6 relay options



Changes for CPEs

Add mandatory simple security capabilities



Changes for mobile devices

We removed the whole section!

- We now only consider their WiFi interfaces
 - Which makes them normal hosts

- 3GPP related standards are out of scope
 - We don't have the expertise to track this
 - There are better documents for these requirements



Changes for load balancers

• Replace X-Forwarded-For: with standard Forwarded:



Changes for software

- Expanded the minimum requirements, like
 - Allow all valid addresses in input
 - Use recommended notation in output
 - DNS resolving must support AAAA
 - Connections must support IPv6 (sockets etc)
 - When connecting use default address selection or Happy Eyeballs 2
- Make it explicit that this list is not exhaustive!



Link to the draft

https://docs.google.com/document/d/
10HsfHDOIhUPIvGk9WP0azJilsMVzQ49RsqWfnbNtcel/



Consensus?

- RIPE554 is very outdated by now (nearly 10 years old) and we need to publish an updated version a.s.a.p.
- There were suggestions to expand the scope and add new categories - but we suggest to handle those separately.
- Consensus on publishing the current draft as RIPE document?
- Should we have a look every 2 years if all the RFCs are still valid and do the refresh cycle?



Questions?

