RIPE-501 and RIPE-554

The story

steffann

go6

The authors

- Jan Žorž
  - ISOC Operational Engagement Programme Manager
  - CEO of Slovenian Go6 Institute
  - >13 years of experience with IPv6
  - Active and contributing member of RIPE and IETF community
  - Primary co-author of RIPE-501/554 IPv6 procurement doc
  - Co-author of RFC 6346 (A+P approach to IPv4 depletion)

steffann

go6

The Authors

- Sander Steffann
  - Independent IPv6 consultant
  - LISP based service provider
  - In the Internet industry since 1995
  - RIPE Address Policy Working Group co-chair
  - Co-founder of The Netherlands IPv6 Foundation
  - Author of SURFnet “Preparing an IPv6 Addressing Plan” manual

The authors

- Merike Kaeo
  - Founder of Double Shot Security
  - Security and IPv6 specialist
  - Member of Security and Stability Advisory Council at ICANN
  - Member of FCC Communications Security, Reliability and Interoperability Council
  - Author of “Designing Network Security”

The start

How it all began

- Go6 Institute asked Slovenian government why they didn’t require IPv6 when buying equipment
- Slovenian government asked what exactly they should require...

The first result

- The result was a great document about buying IPv6 capable equipment
  - Usable for more than just the Slovenian government
  - But who can read Slovenian?!?

Adoption by RIPE

Towards RIPE-501

- The Slovenian document was translated to English and adopted as a work item by the RIPE IPv6 WG on 1st of October 2010

Dear Colleagues,

Jan Zorz and Sander Steffan have prepared a document to serve as a guide what the requirements should be when asking for IPv6 in a tender or contract. It is our intention to publish this document as a RIPE document BCP so people can use this as an external reference.

The draft version of this document is available at http://www.ripe.net/ripe/draft-documents/ipv6-ict-requirements.html

Your comments and feedback can be sent to the IPv6 working group mailing-list on ipv6-wg at ripe.net.

Regards,

Marco Hogewoning
IPv6 WG co-chair

RIPE-501

- And on the 24th of November 2010 RIPE-501 was published

Dear community,

A new ripe document, RIPE-501, has been published "Requirements For IPv6 in ICT Equipment".

This document aims to be a guide of what to ask for exactly when IPv6 is a requirement in a tender or some contract and lists the various applicable RFCs for specific kinds of ICT equipment.

The document is available on http://www.ripe.net/ripe/docs/ripe-501.html

Please note that when using this document as a reference, as with any RIPE document, it might get superseded by new versions in the future.

Many thanks to the authors and everybody who helped with proof reading, translation and feedback.

Marco, David & Shane,

co-chairs of the IPv6 working group

RIPE-501

- And on the 24th of November 2010 RIPE-501 was published

Dear community,

A new ripe document, RIPE-501, has been published "Requirements For IPv6 in ICT Equipment".

This document aims to be a guide of what to ask for exactly when IPv6 is a requirement in a tender or some contract and lists the various applicable RFCs for specific kinds of ICT equipment.

The document is available on http://www.ripe.net/ripe/docs/ripe-501.html

Please note that when using this document as a reference, as with any RIPE document, it might get superseded by new versions in the future.

Many thanks to the authors and everybody who helped with proof reading, translation and feedback.

Marco, David & Shane,

co-chairs of the IPv6 working group

RIPE-501bis

Improvements needed

- There were some questions and comments
  - On the 3rd of January 2011 discussion on RIPE-501bis started
  - Now that improvements and changes were being made *everybody* started sending in suggestions and contributions
  - This took a while...

Sterle, Urban Kunc, Matjaz Straus, Simeon Lisec, Davor Sostaric and Matjaz Lenassi from Go6 Expert Council for their enthusiastic governance of this document. We recognise the work done in the Slovenian IPv6 working group for their review and useful input. Special recognition goes to Ivan Pepelnjak, Andrej Kobal and Ragnar Us for their efforts and work done on the document. Thanks also to the co-Chairs of RIPE IPv6 Working Group, David Kessens, Shane Kerr and Marco Hogewoning for their support and encouragement. We would also like to thank Patrik Fältström, Torbjörn Eklöv, Randy Bush, Matsuzaki Yoshinobu, Ides Vanneuville, Olaf Maennel, Ole Trøan, Teemu Savolainen and people from RIPE IPv6 Working Group (Joao Damas, S.P. Zeidler, Gert Doering among others) for their input, comments and review of the document. Last but not least, we would like to thank Chris Buckridge and the Communications Team from the RIPE NCC for correcting our grammar and wording in this document. And everyone else who contributed to this work.

The authors of this document would like to thank the RIPE IPv6 Working Group and its chairs for all of the support and encouragement to develop a follow-up version of the document. Special thanks goes to Ole Trøan, editor of RFC6204 for his help in the CPE section and for suggesting other changes across the document. Thanks to Marco Hogewoning, Ivan Pepelnjak and S.P. Zeidler for great input in ideas how to make the document structure and content better, Timothy Winters and Erica Johnson (both IPv6 Ready Logo committee, UNH) for help in marking RFCs they test and constructive suggestions. Thanks also to Yannis Nikolopoulos and Frits Nolet. Special thanks goes to Jouni Korhonen, Jari Arkko, Eric Vyncke, David Freedman, Tero Kivinen and Michael Richardson for

A few contributors...

RIPE-554

- And finally in June 2012 the result was published as RIPE-554

RIPE-554

steffann

go6

What does RIPE-554 contain?

- Improved requirement categories from RIPE-501:
  - Hosts
  - Consumer-grade Layer 2 switches
  - Enterprise/Service Provider Layer 2 switches
  - Routers and Layer 3 switches
  - Firewalls, intrusion detection systems
  - Software
  - System integrators

What does RIPE-554 contain?

- New categories added:
  - Customer Premises Equipment
  - Mobile nodes
  - Load Balancers

Further improvements

- More (hopefully) helpful text
  - How to use the document
  - Definitions of categories
  - Proposed generic text
  - Guide for “Declaration of competence” for integrators

Further improvements

- Use new RFCs where appropriate
  - RFC 4191 for Router Preferences and More-Specific Routes
  - RFC 5095 for Deprecation of Type 0 Routing Headers
  - RFC 5996 for Internet Key Exchange Protocol Version 2 (IKEv2)
  - RFC 6434 for Node Requirements
  - Etc. Etc. Etc.
- Use and update 3GPP references as well

IPv4 related requirements

- Make requirements that relate to IPv4 conditional
  - “If support for tunneling and dual stack is required...”
- Why make dependencies on legacy stuff? ;-)

IPsec

- RFC 6434 changes IPsec MUST to SHOULD
- This was a much-debated topic in the RIPE IPv6 WG
- In the end IPsec was moved to the “optional” sections
- So, IPsec is not mandatory and not optional ☺

Organisations that use IPsec or expect to use it in the future should include the following in the mandatory section when initiating the tender:
• IPsec/IKEv2 [RFC4301, RFC4303, RFC4302, RFC5996] *

Adoption

Vendor X position paper

- After careful analysis of RIPE-50, C**** is expressing its support for the following reasons:
  - The set of features listed is deployment oriented and takes into account architectures that have been validated by experience.
  - The profile does not restrict itself to a small set of core IPv6 features.
  - The document lists a coherent set of IPv6 features that are likely to help the industry deploy IPv6 at a faster pace.

Europe

- Intended to use as an initial template for the European Commission to develop a “Generic EU IPv6 profile”

The world

- And RIPE-554 is in high demand all over the world!

Coming up next!!!

- We are in the process of updating RIPE-554
- We already got some suggestions and comments from the community
- Why *you* don’t read it and suggest the improvements?

Questions?

Questions?

Comments?

Questions?

Comments?

Input for RIPE-554bis?

Sander Steffann Jan Žorž Merike Kaeo

Send us comments!

<554bis@go6.si>