



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

ITU Study Group 20

Update on IPv6 work items

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Brief History



- ITU Study Group 20 was established in 2015, to study the “Internet of things (IoT) and smart cities and communities (SC&C)”
- Shortly after, in January 2016, started work on IPv6:
 - “Reference Model of IPv6 Addressing Plan for Internet of Things Deployment by Smart Cities, Public Administrations and Companies” (Y.IPv6RefModel)
 - “Reference Model of Protocol Suite for IPV6 Interoperable Internet of Things Deployments” (Y.IPv6-suite)
 - “IPv6 Potential for the Internet of Things and Smart Cities” (Y.IPv6-IoT Supp)
- Several member states and sector members objected

Interactions with the RIPE NCC



- Between August and October 2016, liaison statements were exchanged with the RIPE NCC
 - Answered Study Group 20 was not the appropriate venue for this work
- Participated in meeting March 2017, SG20 reorganised its work
 - Only discussion was where these work items would sit; some argued “security”
- Contribution in September 2017 with ARIN
 - “This work does not belong in ITU, Study Group 20 lacks expertise”
 - “Only appropriate venues are RIR and network operator communities”
 - Questions where draft text and updates come from, beyond editorial changes

Interactions with the RIPE community



- Established that SG20 did not have experience and expertise
 - Coordinated with IPv6 Working Group Chairs on offering assistance
- In January 2018 invited the Study Group to come to RIPE 76 meeting and community experts to review Y.IPv6RefModel draft
 - Invitation accepted and somewhat surprisingly the draft text sent for review
- Review took place overlapping the SG20 meeting in May 2018
 - IEEE send contribution regarding copyright issues with draft
 - Document describing theoretical deployment by Beijing university (BUPT)
 - Proponent did not attend, nothing happened

Discussions to Infinity



- RIPE community review was clear on document quality
 - Raised a lot of fundamental issues with the proposed model
 - Results of review communicated via liaison statement in July 2018
- Review tabled for December 2018 meeting in Wuxi
 - Contributions from RIPE NCC, ARIN, United States
 - “Review indicates the issues we raised before, stop this for lack of expertise”
 - Backed on floor by Canada, United Kingdom, Germany and GSMA
 - Proponents refiled the BUPT proof of concept
- No consensus to stop work item, escalated to closing plenary

The Endgame



- Closing Wuxi, the SG20 chairman proposed the following:
 - Have the item exist for one more meeting, inviting people to move it forward
 - Contributions on new text should address the issues raised by the RIPE community
 - If no new text agreed, work item should close
- Meeting in Geneva, April 2019
 - No contributions to update text and address the long list of issues
 - Both RIPE NCC and ARIN again proposed to abandon work
- Meeting finally reached consensus to stop Y.IPv6RefModel
 - With reference to previous agreement in Wuxi, little discussion

Looking Forward



- The big ticket item is done, no more work on IoT addressing plan
- But the problem hasn't gone away
 - IPv6 deployment is picking up, but remains low especially in IoT space
 - Still a lot of need for capacity building and guidance on deployment
 - Several WTSA, WTDC and Plenipot resolutions that instruct ITU to look into IPv6
- A number of other Study Groups are working on IPv6
 - We need to keep monitoring and helping them where we can
- Development sector also picking up on IPv6 training

On a Final Note



“The United States thanks the RIPE community for its review in the liaison statement TD 879.”

Contribution SG20-C471, Wuxi , China 3-13 December 2018



Questions



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