

## *'Understanding the commercial and economic incentives behind a successful IPv6 deployment'*

**IGF 2016 – BPF IPv6  
3<sup>rd</sup> Virtual Meeting  
3 August – 2 pm UTC**

### **Summary**

1. The 2016 Best Practice Forum on IPv6 held its third open virtual (webex) meeting on 3 August 2016 at 2pm UTC. The call was lead by the BPF IPv6 Coordinators Ms. Izumi Okutani and Sumon A. Sabir. The coordination of the outreach and of the collection of case studies was the main point discussed during the meeting.
2. The webex recording of the meeting can be accessed at:  
<https://intgovforum.webex.com/intgovforum/ldr.php?RCID=01f9c1d1bf53c28cf8672696e4be1e52>
3. Izumi Okutani gave an update on the IPv6 session at the Asia Pacific Regional Internet Governance Forum (APrIGF) in Taipei (<https://2016.aprigf.asia>), which she had attended, and shared some observations:
  - IPv6 is being deployed in urban areas in India, but the replaced IPv4-only equipment is now being re-used in the rural areas.
  - Areas in the Asia Pacific where the infrastructure is IPv6 enabled, still struggle due to not-IPv6-ready end-user equipment.
  - A number of big providers in South Korea have decided to enable IPv6.
  - Mobile providers in Japan made the commitment to be IPv6 ready by 2017.
4. It was shared in the chat that since the end of July 2016 T-Mobile in the US is providing IPv6 over LTE.
5. Collecting case studies from countries with a high IPv6 deployment:  
All participants were invited to suggest case studies from countries with a high IPv6 deployment rate. There was a call for volunteers to reach out to these organizations or companies to collect their case studies.  
The collection of case studies is coordinated via the table in the BPF's online brainstorm document: see [google doc](#) section C, Case Studies.  
This document remains open after the call so that people can continue to suggest case studies.
6. The participants confirmed the template to collect the case studies. For each section there is one key question to collect information that is essential for the BPF's topic and a number of additional questions in case the responded wants to submit background information.  
After the call the template was made available in different formats:
  - google survey: <https://goo.gl/forms/Lj4t9rPROcjRkl4Y2>
  - google doc: [https://docs.google.com/document/d/1hzk0c\\_HAvtv1V4uURNWJhFmRNL7NpJGgcoTEtWGHRP8/edit?usp=sharing](https://docs.google.com/document/d/1hzk0c_HAvtv1V4uURNWJhFmRNL7NpJGgcoTEtWGHRP8/edit?usp=sharing)
  - word doc: [https://drive.google.com/file/d/0B\\_2UV5B5mknXM0ZXY2oxMUJNeXc/view?usp=sharing](https://drive.google.com/file/d/0B_2UV5B5mknXM0ZXY2oxMUJNeXc/view?usp=sharing)

7. It was agreed to collect case studies by the end of August. The next call, which is scheduled for 24 August, will evaluate the feedback already received and adjust, if needed, the process to collect case studies.
8. Ashley Heineman announced that the NTIA is exploring the possibility of issuing a request for comments on a set of similar questions and intends to feed information into the BPF.
9. Participants exchanged ideas on how to identify and reach out to ISPs that successfully deployed IPv6<sup>1</sup> and discussed contacting umbrella and sector organizations with members that could contribute to the BPF; for example ICCBasis or ETNO (the European Telecommunications Network Operators' Association).  
Additional suggestions of similar organizations are invited.
10. The participants reflected on a zero draft structure for the BPF's final output. (see annex I).
11. The BPF will consider countries with more than 10% deployment rate as countries with a high deployment. For reasons of consistency, it was agreed to use the statistics published by APNIC Labs to define a country's IPv6 deployment rate.
12. There was a short exchange of ideas on the possibility to include an economic analysis in the BPF's outcome document. This point needs further discussion.
13. There was positive feedback on a detailed work plan with suggested times and dates for the upcoming Virtual meetings. Upcoming calls will be scheduled on Wednesdays, and alternate between noon and 2pm UTC. (see annex II)
14. All welcomed the proposal to compile a separate document with examples and case studies that are shared on the mailing list but better fit within the scope of last year's BPF (creating an enabling environment for IPv6 adoption). This list will be published as an update and annex to the 2015 BPF outcome document, which was intended to be a living resource.
15. Actions and Next steps:
  - Outreach and collection of case studies – (soft) deadline end of August.
  - Suggest additional case studies and sector or umbrella organizations to reach out to on the google brainstorming document.
  - Start incorporating content in the zero draft structure.
  - Examples, projects and case studies that fit within the BPF 2015 can be shared with the mailing list and will be included in the annex.
16. Online working documents (link):
  - \* [Brainstorming document on contents, with a table to list volunteers](#)

Note: this google doc also provides links to all other key documents, so it may be useful to bookmark!

  - \* [Scope, Structure and Work plan](#)
  - \* [Proposed schedule Virtual meetings](#)
  - \* [Brainstorming section](#)

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<sup>1</sup> A link was shared of a page that list Swedish ISPs and whether they have deployed IPv6  
<https://ispmedipv6.se/i>.

- \* [Questions for Case studies](#)
- \* [Zero draft structure outcome document](#)
- \* [Update 2015 BPF on Creating an Enabling Environment for IPv6 Adoption](#)

#### 17. Practical information

- BPF IPv6 webpage: <http://www.intgovforum.org/cms/best-practice-forums/bpf-ipv6>
- BPF IPv6 mailing list: [bp\\_ipv6@intgovforum.org](mailto:bp_ipv6@intgovforum.org)  
(Subscribe at [http://mail.intgovforum.org/mailman/listinfo/bp\\_ipv6\\_intgovforum.org](http://mail.intgovforum.org/mailman/listinfo/bp_ipv6_intgovforum.org))
- The next call is scheduled for Wed 24 August at noon UTC

- summary by Wim Degezelle

### List of Participants

- |                           |                                      |
|---------------------------|--------------------------------------|
| 1. Guillermo Cicilea      | 9. Michael Oghia                     |
| 2. Olivier Crépin-Leblond | 10. Jasper Rappard                   |
| 3. Wafa Dahmani           | 11. Duraïd Silarbi                   |
| 4. Torbjörn Eklöv         | 12. Nathalie Trenaman                |
| 5. Andrew Gallo           | 13. Izumi Okutani (BPF coordinator)  |
| 6. Silvia Hagen           | 14. Sumon A. Sabir (BPF coordinator) |
| 7. Ashley Heineman        | 15. Wim Degezelle (BPF consultant)   |
| 8. Aaron Hughes           |                                      |

## **Annex (I)**

### **IGF 2016 - Best Practice Forum on IPv6 'Understanding the commercial and economic incentives beneath a successful IPv6 deployment'**

Draft structure outcome  
*Zero draft*

- I. Introduction & Background
  - about the IGF & BPFs
  - Why deploying IPv6?
  - The 2015 BPF 'Creating and Enabling Environment for IPv6 Adoption'
- II. Scope and Goal of the 2016 BPF 'Understanding the commercial and economic incentives beneath a successful IPv6 deployment.'
- III. Facts and Figures - IPv6 deployment
  - Global
  - IPv6 champions (countries)
- IV. Understanding the commercial and economic incentives
  - Case studies (of successful regions)
  - Findings and conclusions
  - Remaining challenges
  - (Economic hypothesis/analysis)?
- V. And the others?
  - Challenges for regions where where deployment is not taking off
- VI. Conclusions / next steps

Appendix : new case studies BPF2015

## Annex (II)

### IGF 2016 - Best Practice Forum on IPv6 ***‘Understanding the commercial and economic incentives beneath a successful IPv6 deployment’***

#### Proposed schedule Virtual meetings

Call 1: 23 June 4pm UTC

- Introduction
- Kick off discussion Scope and goals

Call 2: 2 July noon UTC

- Confirm scope and goals
- Discuss proposed structure and work plan
- Fact finding (I): collect statistics, identify countries with high deployment,
- Outreach: Who, in those region can explain who/what is behind the high figure.

Call 3: 3 Aug 2pm UTC

- Confirm the countries and cases we want to look at;
- Outreach:
  - Reach out to collect case studies
  - Discuss questions to ask, “What do we want to know from them?”

Call 4: 24 Aug noon UTC

- Evaluate the feedback so far:
  - Discuss content of the case studies;
  - Need for additional cases and outreach?
- Lessons learned and observations

Call 5 / 6: 7 Sept 2pm UTC - 28 Sept noon UTC

- Observations,
- List the incentives,
- Look for cases where the found incentives did not work, and try to explain why.
- (Prepare workshop at IGF)

Call 7: 12 Oct 2pm UTC

- Discuss the feedback received via the public platform
- Review and Update the draft document
- Prepare workshop and outreach at IGF
- Outreach plan: How to reach out on the outcome of the 2015 and 2016 BPF outcome?;

Call 8 / 9: 9 Nov noon UTC - 23 Nov 2pm UTC

- Outreach plan: How to reach out on the outcome of the 2015 and 2016 BPF outcome?;
- Discuss the feedback received via the public platform
- Review and Update the draft document

Call 10: begin December

- Discussion on the feedback received during the workshop and public review platform;
- Final review of the document