Route Flap Damping Deployment Status Survey

draft-shishio-grow-isp-rfd-implement-survey
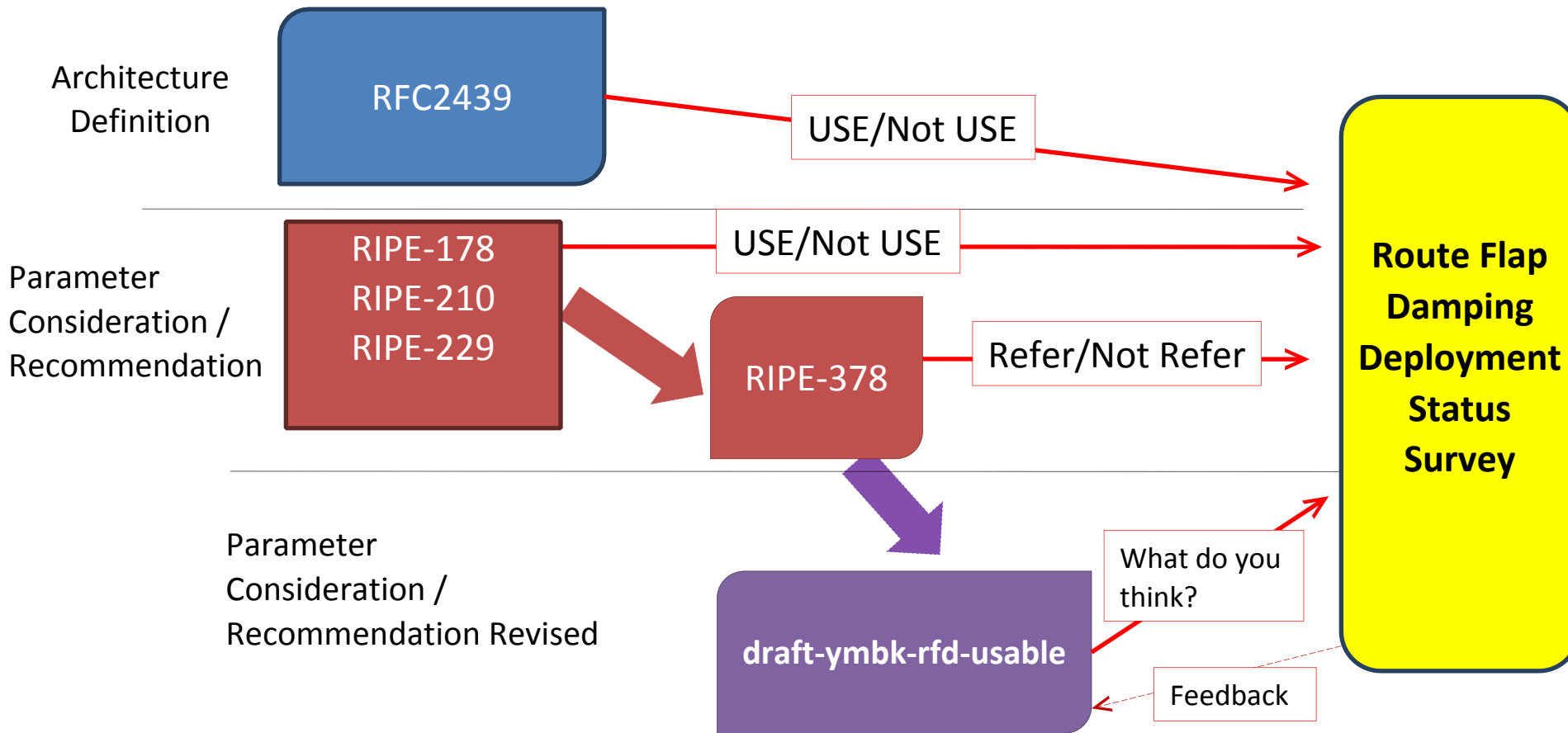
Shishio Tsuchiya shtsuchi@cisco.com

Seiichi Kawamura kawamucho@mesh.ad.jp

Randy Bush randy@psg.com

Cristel Pelsser cristel@iij.ad.jp

RFD documentation summary

Architecture Definition

RFC2439

USE/Not USE

Parameter Consideration / Recommendation

RIPE-178
RIPE-210
RIPE-229

USE/Not USE

RIPE-378

Refer/Not Refer

Parameter Consideration / Recommendation Revised

draft-ymbk-rfd-usable

What do you think?

Feedback

Route Flap Damping Deployment Status Survey

version history

- 00,01
  - the survey was limited in Japan janog@janog.gr.jp
- 02
  - asked global nog(6nogs),total 63 answered
- 03
  - just extended life
- 04
  - add analysis

RFD harmful

- Q8 was free comments, but some people complain against RFD of upstream ISP.

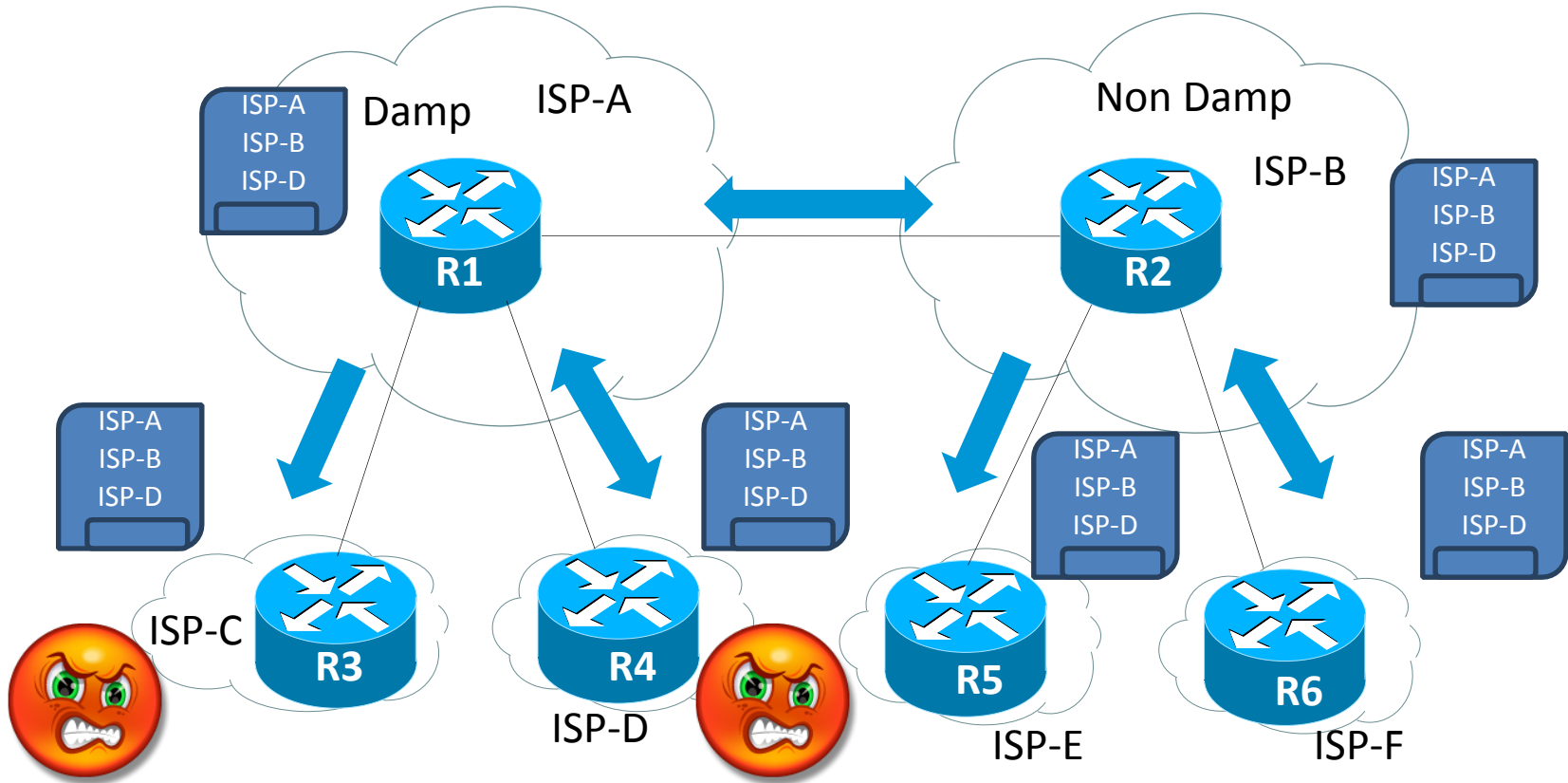- 5 people selected "Customer would complain" as the reason of RFD disable.

This is good example for "today's RFD harmful".

Analysis impact of RFD
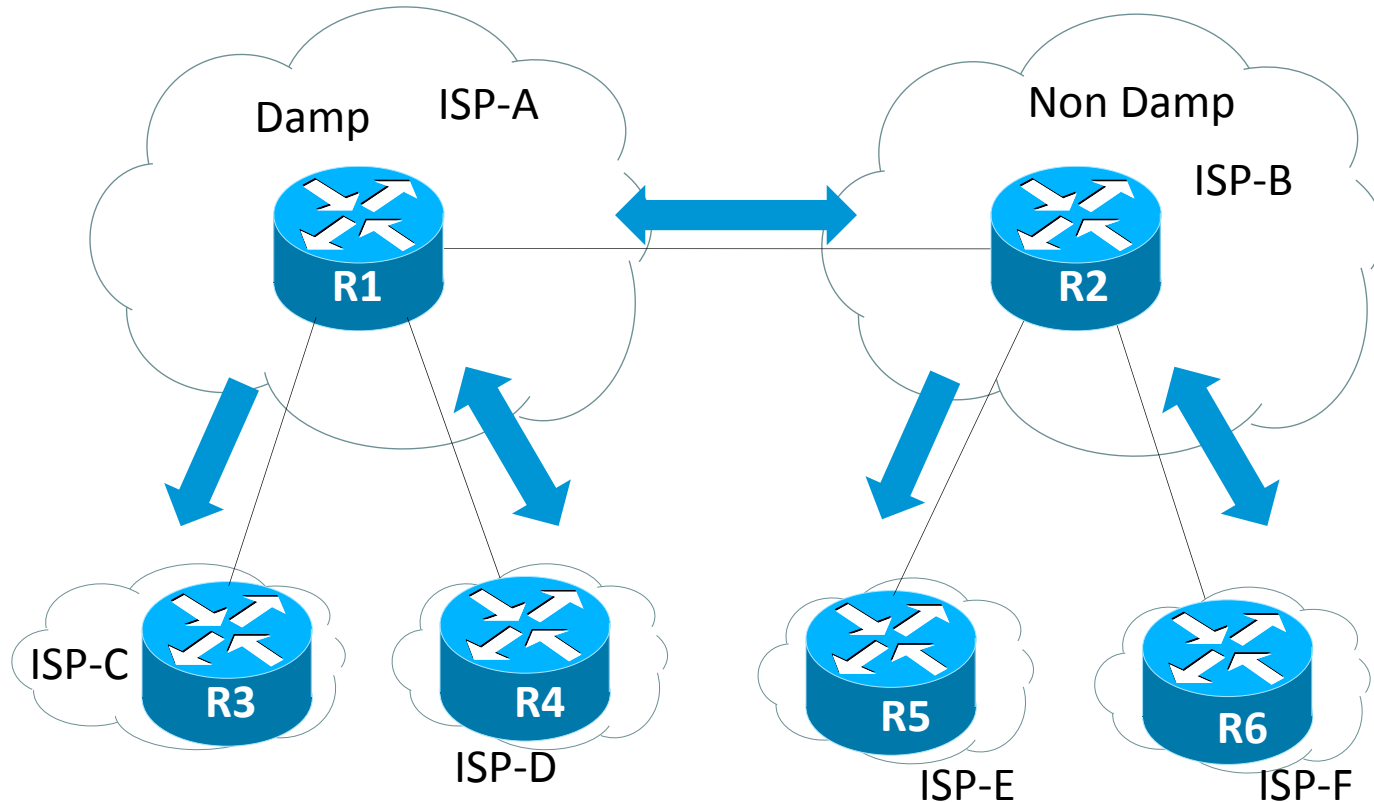
- ISP-A peering with ISP-B and ISP-D
- ISP-B peering with ISP- A and ISP-F
- ISP-C and ISP-E buy transit from ISP-A and ISP-B

Analysis impact of RFD *cont'd*

- ISP-C sometimes can not see internet route,ISP-D can not see internet route,too and their business partner can not see ISP-D route,due to ISP-A damping strictly.
- ISP-E and ISP-F do not have complains against ISP-B.
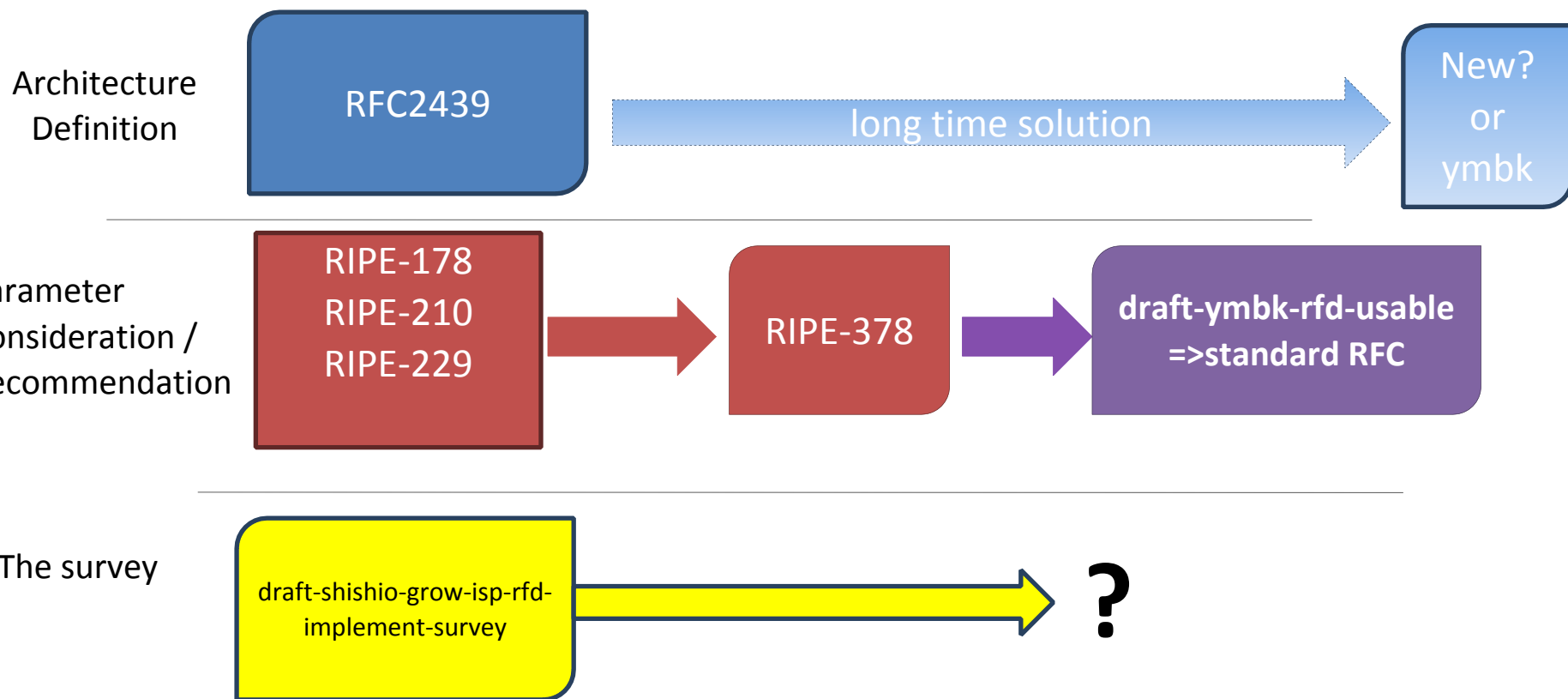
Analysis impact of RFD *cont'd*
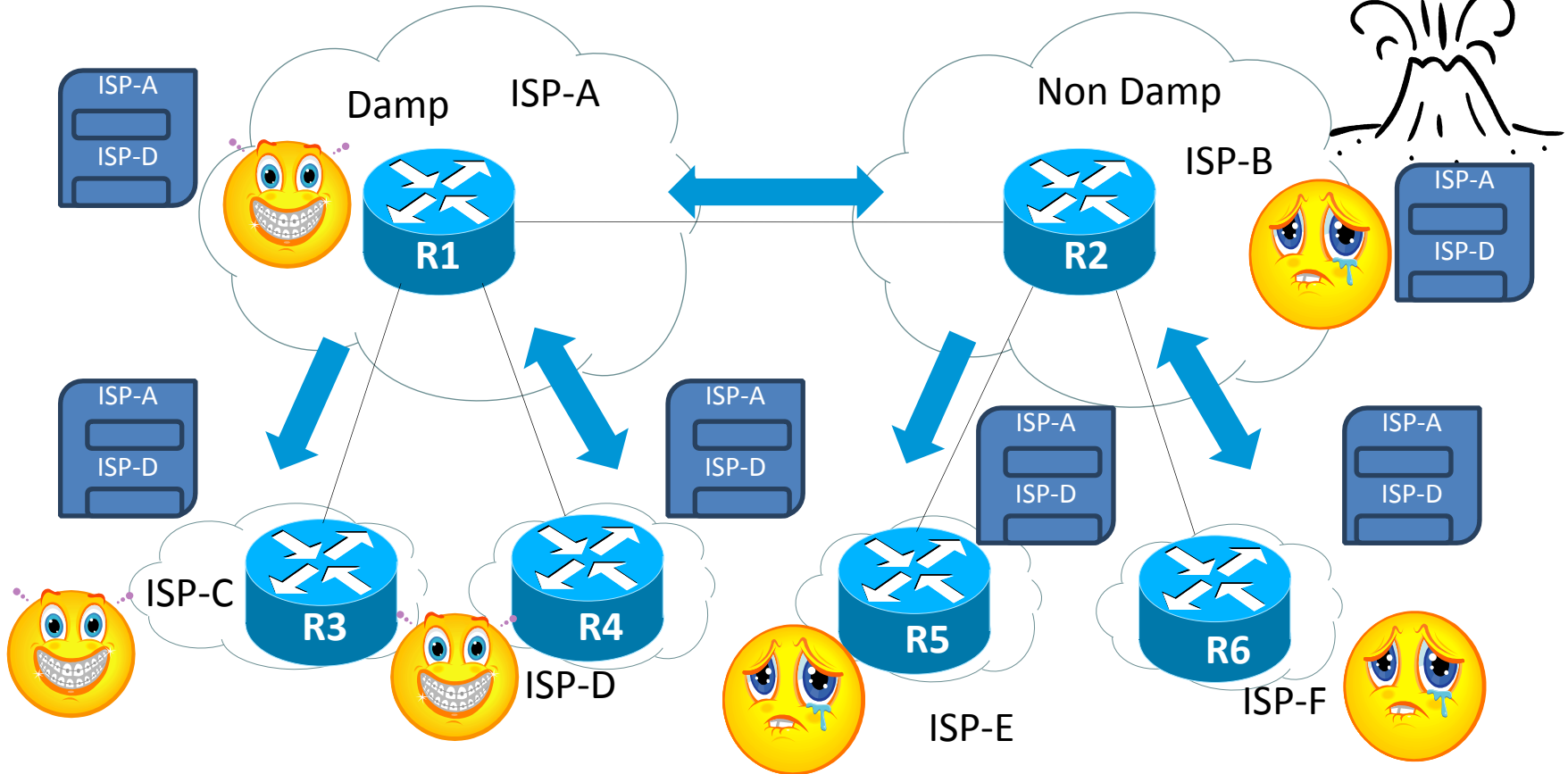
- But if the internet route(or ISP-B, F prefix) would be unstable,the flaping would reach to ISP-B,ISP-E and ISP-F.

RFD useful

- to reduce influence of internet flapping ,RFD useful idea is very important

- total 18 really need "draft-ymbk-rfd-usable"
  - Q2.Do you use Route Flap Damping "NO" and Q6.IOS's max-penalty is currently limited to 20K. Do you need this limitation to be relaxed to over 50K? "YES"

- The draft would be IDR WG draft.

Where it will go

Architecture Definition

RFC2439 → long time solution → **New? or ymbk**

Parameter Consideration / Recommendation

RIPE-178 RIPE-210 RIPE-229 → **RIPE-378** → **draft-ymbk-rfd-usable =>standard RFC**

The survey

draft-shishio-grow-isp-rfd-implement-survey → **?**

- Parameter implementation differs among vendors, a more implementation disruptive solution to control route unstability may be needed in the future.
- But [draft-ymbk-rfd-usable] describes current vendor's implementation,difference and parameters,so it could work as the architecture with RFC2439.
- The survey will revise after ietf83,but basically finished .