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Route Flap Damping Deployment Status Survey
draft-shishio-grow-isp-rfd-implement-survey-01

Abstract

BGP Route Flap Damping [[RFC2439](#)] is a mechanism that targets route stability. It penalizes routes that flap with the aim of reducing CPU load on the routers.

But it has side-effects. Thus, in 2006, RIPE recommended not to use Route Flap Damping (see RIPE-378).

Now, some researchers propose to turn RFD, with less aggressive parameters, back on [[draft-ymbk-rfd-usable](#)].

This document describes results of a survey conducted among service provider on their use of BGP Route Flap Damping.

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1. Survey Purpose

RIPE published some recommendations such as RIPE-178 [[RIPE-178](#)], RIPE-210 [[RIPE-210](#)], RIPE-229 [[RIPE-229](#)] and RIPE-378 [[RIPE-378](#)].

The purpose of this survey is to understand the current usage and requirements of Route Flap Damping [[RFC2439](#)] among service providers.

2. Survey's target and period

2.1. For Japan

Target: Japan Network Operator Group janog@janog.gr.jp

Period: Jan 28,2011 - Feb 12,2011

2.2. All

Target: All operators that will answer the survey following the publication of this document.

Period: Mar 7,2011 - May 25,2011

Please open the following url and answer the questionnaire.

<https://www.surveymonkey.com/s/rfd-survey>

[3.](#) Survey Results

[3.1.](#) Q1.Do you use Route Flap Damping ?

[3.1.1.](#) Japan

Yes: 5

No: 13

1 respondant skipped this question

[3.1.2.](#) All

No results yet!

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[3.2.](#) Q2.If you select No on Q1,why?

[3.2.1.](#) Japan

Do not have the need: 3

Did not know about the feature: 2

No benefits expected: 3

Customers would complain:1

Because I read RIPE-378 [[RIPE-378](#)]:2

Other: 3

[3.2.2.](#) All

No results yet!

[3.3.](#) Q3.If you select Yes on Q1,what parameter do you use?

[3.3.1.](#) Japan

Default parameters: 3

RIPE-178 [[RIPE-178](#)]: 0

RIPE-210 [[RIPE-210](#)]: 0

RIPE-229 [[RIPE-229](#)]: 0

Other: 3

1 person answered Q3, even if he selected "No" on Q1.

[3.3.2.](#) All

No results yet!

[3.4.](#) Q4.Do you know Randy Bush et. al's report ''Route Flap Damping Considered Usable?''

[3.4.1.](#) Japan

Yes: 12

No: 7

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One person skipped Q1, but answered Q4.

[3.4.2.](#) All

No results yet!

[3.5.](#) Q5.IOS's max-penalty is currently limited to 20K. Do you need this limitation to be relaxed to over 50K?

[3.5.1.](#) Japan

Yes: 10

No: 9

[3.5.2.](#) All

No results yet!

[3.6.](#) Q6.If you have any comments, please fill this box.

Free format

[3.6.1.](#) Japan

-Our peer seems to have damping enabled, and our prefix gets damped sometimes.

-We do not enable damping because we think that customers want a non-damped route.

-From the perspective of a downstream ISP, if our upstream told us that an outage occurred because a route was damped, I may call and ask "is it written in the agreement that you will do this?"

-We use damping pretty heavily

-I had RFD turned on until this morning when I discovered our router has CSCtd26215 issues. I would like to turn on a "useful" RFD.

[3.6.2.](#) All

No results yet!

[4.](#) Summary of data

From the survey we see that there are many service providers with RFD

disabled. The reason varies among providers, but it is clear that there are those who wish that RFD was made useful.

[\[draft-ymbk-rfd-usable\]](#) describes how to improve RFD with minor changes to some parameters. From the comments in the survey, the most significant fear of enabling RFD is its impact on customers.

[5.](#) Acknowledgements

We thank the 19 respondents to this survey.

6. IANA Considerations

This document has no actions for IANA.

7. Security Considerations

This document has no security considerations.

8. References

8.1. Normative References

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[Route Flap Damping Considered Usable?]

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Appendix A. Additional Stuff

This becomes an Appendix.

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