What type of network do you operate?
How many individual Internet users do you reach or connect?

- 100–10,000: 27%
- 10,000–100,000: 19%
- 100,000–1M: 15%
- more than 1M: 33%
- 1–100: 5%
How many BGP routes do your routers maintain in their forwarding table?

- A full Internet routing table: 77%
- Something in between: 15%
- Others: 7%
- Few: 1%
How many redundant connections do you usually establish with your eBGP peers?

- (at least 2) parallel physical connections, possibly ending on the same router on your end: 12%
- (at least 2) parallel physical connections, necessarily ending on different routers on your end: 53%
- 1 (no redundancy): 25%
- Others: 10%
Do you care about slow BGP convergence at all?

- Yes 78%
- No 18%
- Others 4%
If you answered "no" to the previous question, why so?

- You do not have stringent SLA to meet
- You receive a default route from your providers
- Your network has never experienced slow BGP convergence
- You are not aware of any technical means to speed up BGP convergence
Do you use any of the following fast re-routing mechanisms in your network?

- Tuned BGP transport mechanisms 21
- Non-default BGP timers 27
- Fast failure detection mechanisms such as BFD 41
- MPLS Fast Reroute 12
- BGP Prefix Independent Convergence (PIC) 17
- Others 2
Do you collect statistics about BGP convergence and induced downtime?

Yes 76%

No 24%
What's the average BGP convergence time you observe upon an internal or peering outage?

- Within 30s: 28%
- Within 10s: 11%
- Within 60s: 11%
- Sub-second: 6%
- Others: 17%
- More than 60s: 22%
- I do not know: 6%
What's the longest BGP convergence time you observed in practice upon an internal or peering outage?

- Between 1 and 5 min: 67%
- Less than 1 min: 11%
- Within 30 s: 6%
- More than 5 min: 17%
- I do not know: 0%
What's the average BGP convergence time you observe upon an internal or peering outage?

- Within 60s 33%
- Within 10s 22%
- More than 60s 17%
- I do not know 17%
- Others 6%
- Sub-second 0%
What's the longest BGP convergence time you observed in practice upon a remote outage?

- Between 1 and 5min: 44%
- Less than 1min: 11%
- Others: 6%
- I do not know: 6%
- More than 5min: 33%
If there was a convergence speed-up solution to deal with remote outages, would you consider adopting it?

Yes 96%

No 4%
What are the most relevant characteristics that such solution should have?

- Ease of deployment: 43
- Cost: 27
- Maintainability: 16
- Minimize downtime: 32
- Maximize coverage: 14
- Ease of maintainability: 26
- Avoid any potential performance degradation: 30
- Others: 7
Would you mind if such a solution would *temporarily* re-route, on a (configurable) backup link, traffic to prefixes which are not impacted by the outage?