

Routing Working Group Update

Brenna Meade - Indiana University
Hans Addleman - Indiana University
Warrick Mitchell - AARNet

International Routing Challenges We've Observed

Asymmetrical routing - meaning a source to a destination takes one path and takes a different path when it returns to the source

R&E data takes a less efficient route around the world - affecting performance

- Europe to Asia routes traversing the US

- Africa to Europe routes traversing the US

R&E data takes a commodity route when an R&E path is available

New R&E links are removed or added but routing does not adjust appropriately

Leaking of Private ASN's into the global routing table by R&E networks

IP blocks advertised with a Bogon Origin ASN's within R&E routing table

Suboptimal Anycast Routing

2025 Status

170 Members on the mailing list and slack

3rd Tuesday of every month

~20 attendees per meeting

Meetings alternating between AM and PM US time to accommodate all

25 cases

1 paused indefinitely

24 solved

Subgroups

Routing Security - Led by Steve Wallace (Internet2)

Common practices around accepting routes

BGP Community Strings

Routing / BGP Training Materials - Hans Addleman

Invited talks 2025

APAN59 In Person

Internet2 Routing Integrity Initiative - Steve Wallace, Internet2

R&E BGP Anycast Prefix Policy - David Farmer, University of Minnesota

Next meeting: Tuesday November 18, 2025

8 am EST

Join us at Internet2 Technology Exchange in
Denver

Wednesday, December 10, from 12:30pm-1:30pm MTN

Submit your cases!

Email the Chairs!

meadeb@iu.edu

addlema@iu.edu

warrick.mitchell@aarnet.edu.au

Join the routing working group!

Mailing list routing-wg@gna-g.net

- Contact Brenna to be added meadeb@iu.edu

Slack

- APAN Slack Instance, Channel: Routing

Contact any of the co-chairs for more information!