



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Does the Internet Route Around Damage?

Emile Aben | LINX 113 | 25 May 2021

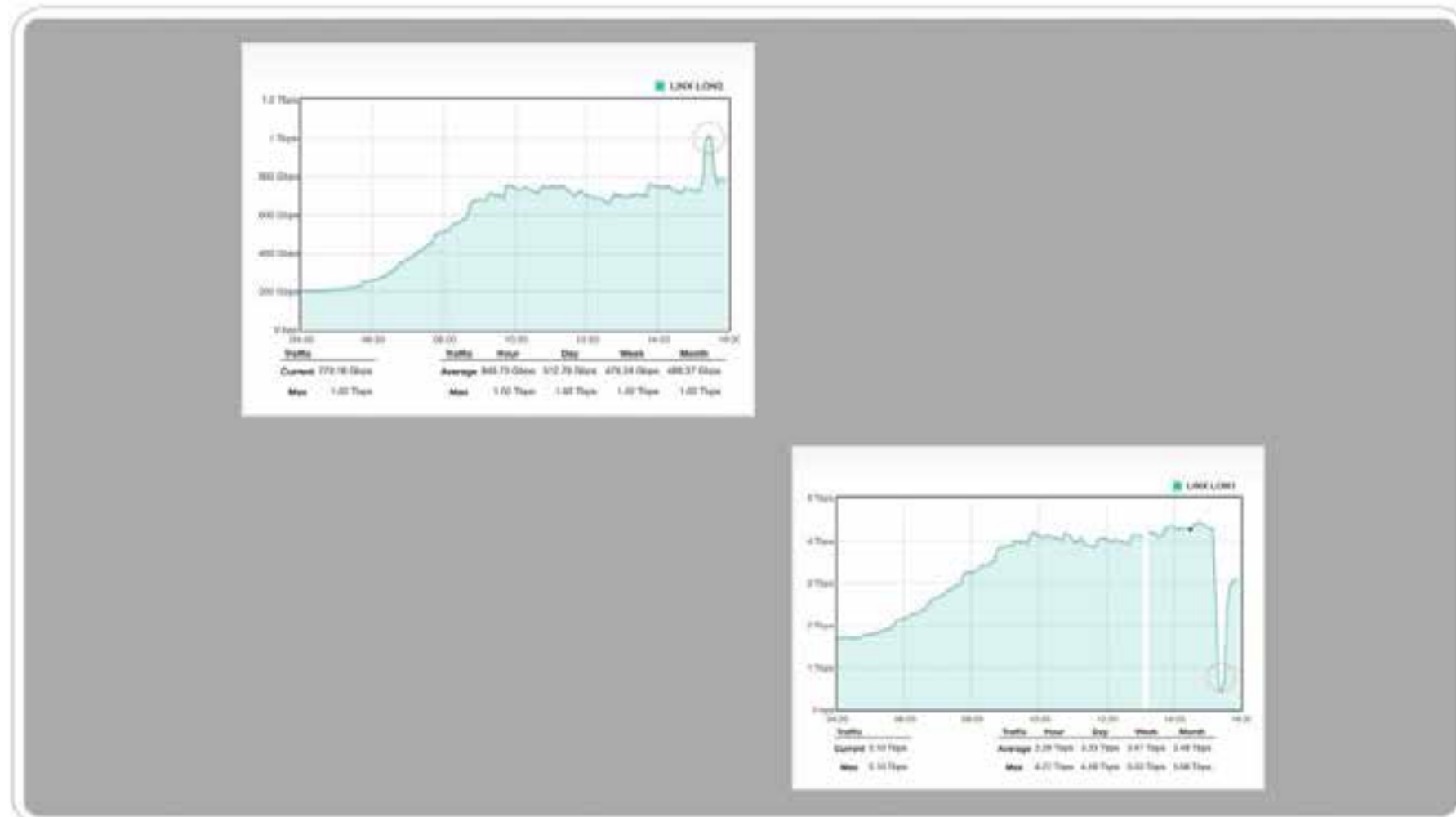
LINX LON1 Outage



- 23 March 2021



23rd March 2021



Between 11:15-11:28 and again between 11:41-11:57 there was a degradation of service on our LON1 exchange affecting a small number of members.

Our technology support team began investigating these incidents in concert with our switch vendor's Technical Assistance Centre (TAC). Due to the very limited impact, these incidents were not deemed a major incident at that time.

At the TAC's suggestion, we activated some debug options on affected hardware to assist with diagnosis. Shortly afterwards, at 15:32, we experienced a significant loss of traffic. This was quickly mitigated, and the debug information collected is being used by the vendor TAC for diagnosis. At the time of writing LON1 is operating stably.

Our second London IXP, LON2, is not affected by this incident, nor are any other LINX-operated IXPs in other locations.

Investigation of this incident continues in conjunction with the vendor.

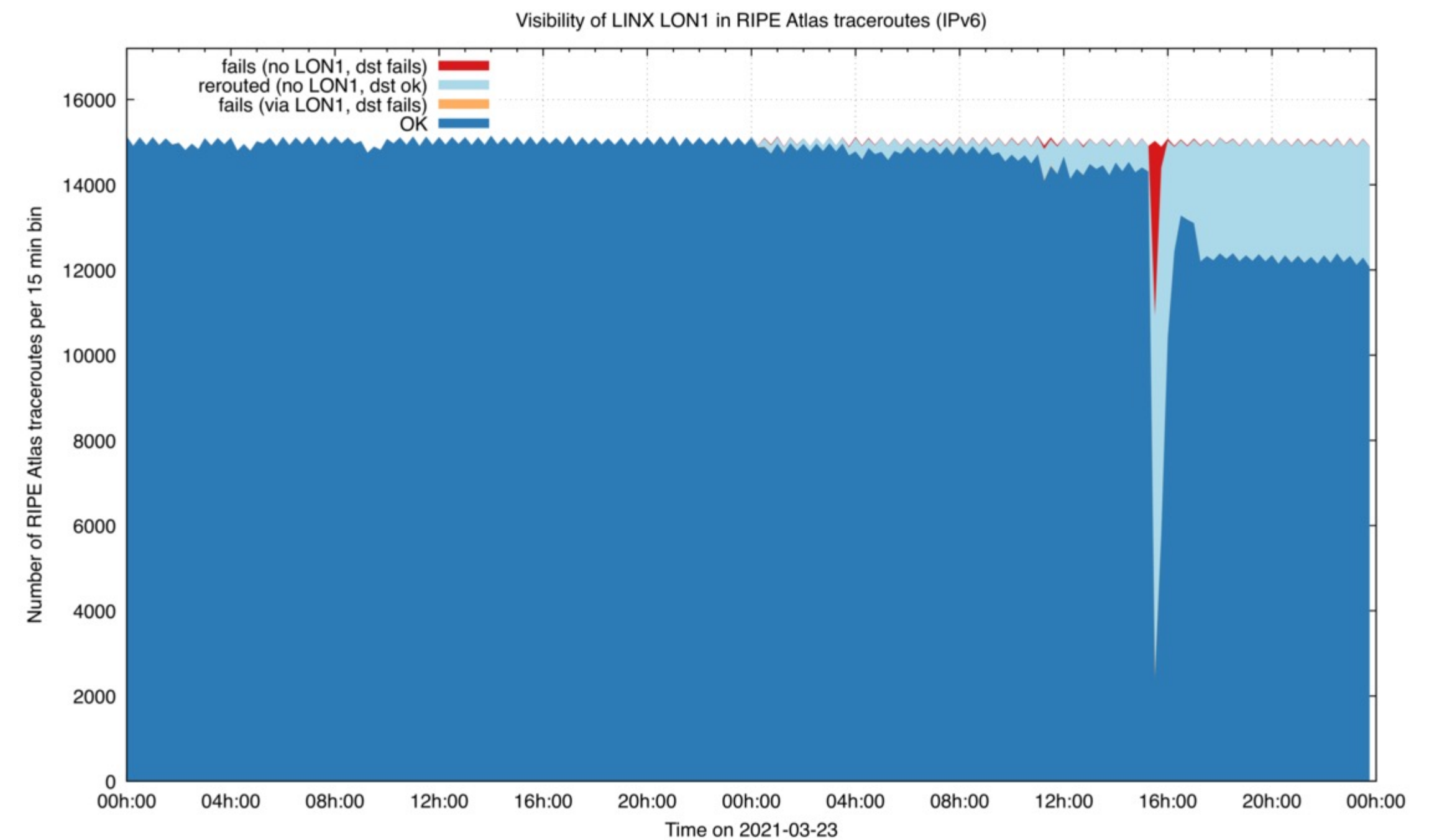
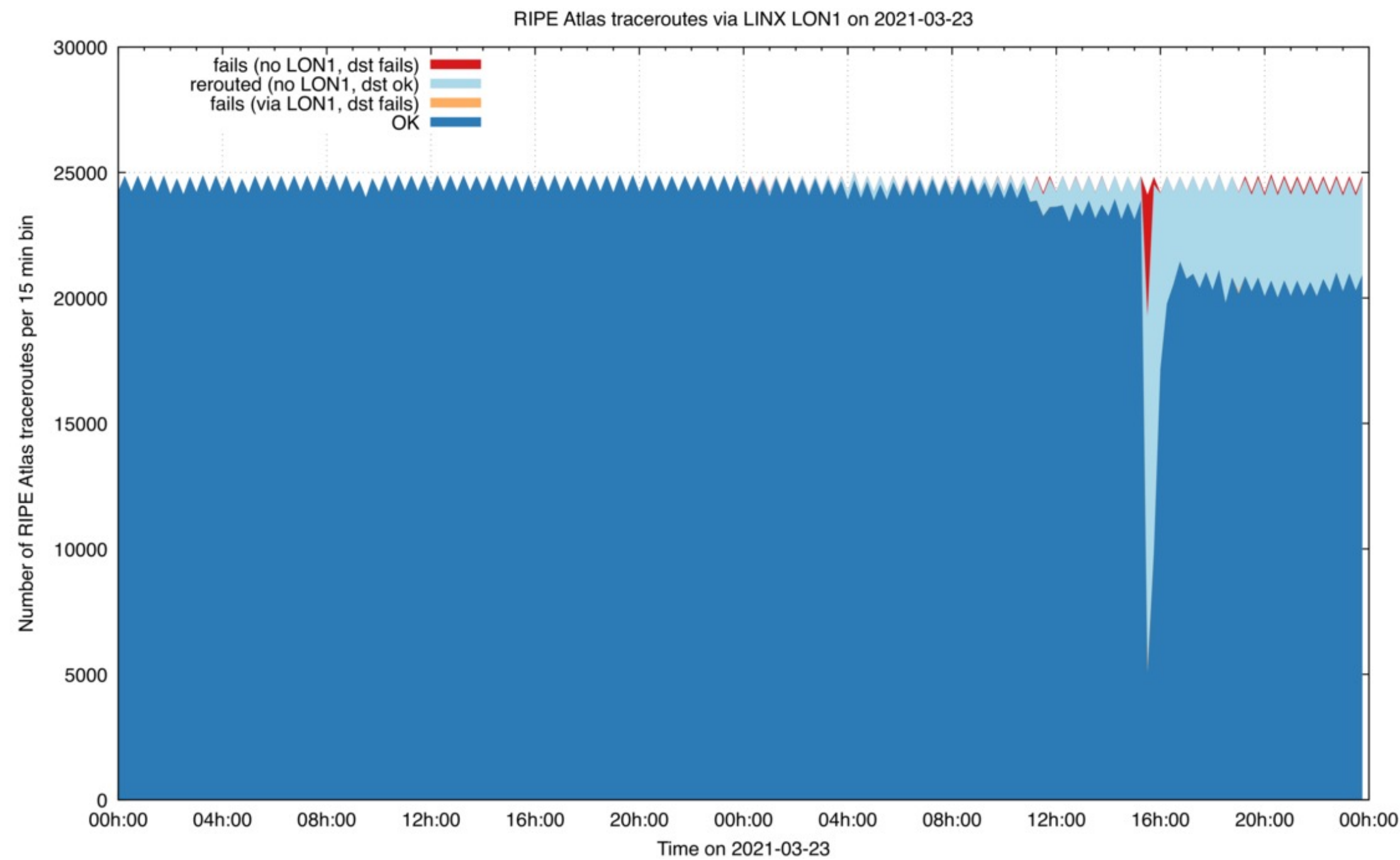
Non-standard procedures currently in operation:

1. Our incident management process has been invoked and we are treating this as a major incident.
2. We are providing members with detailed technical updates hourly via ops-announce.
3. We have suspended provisioning of new connections to LON1 until this incident is closed.

The RIPE Atlas View



- The Internet mostly routes around “damage”

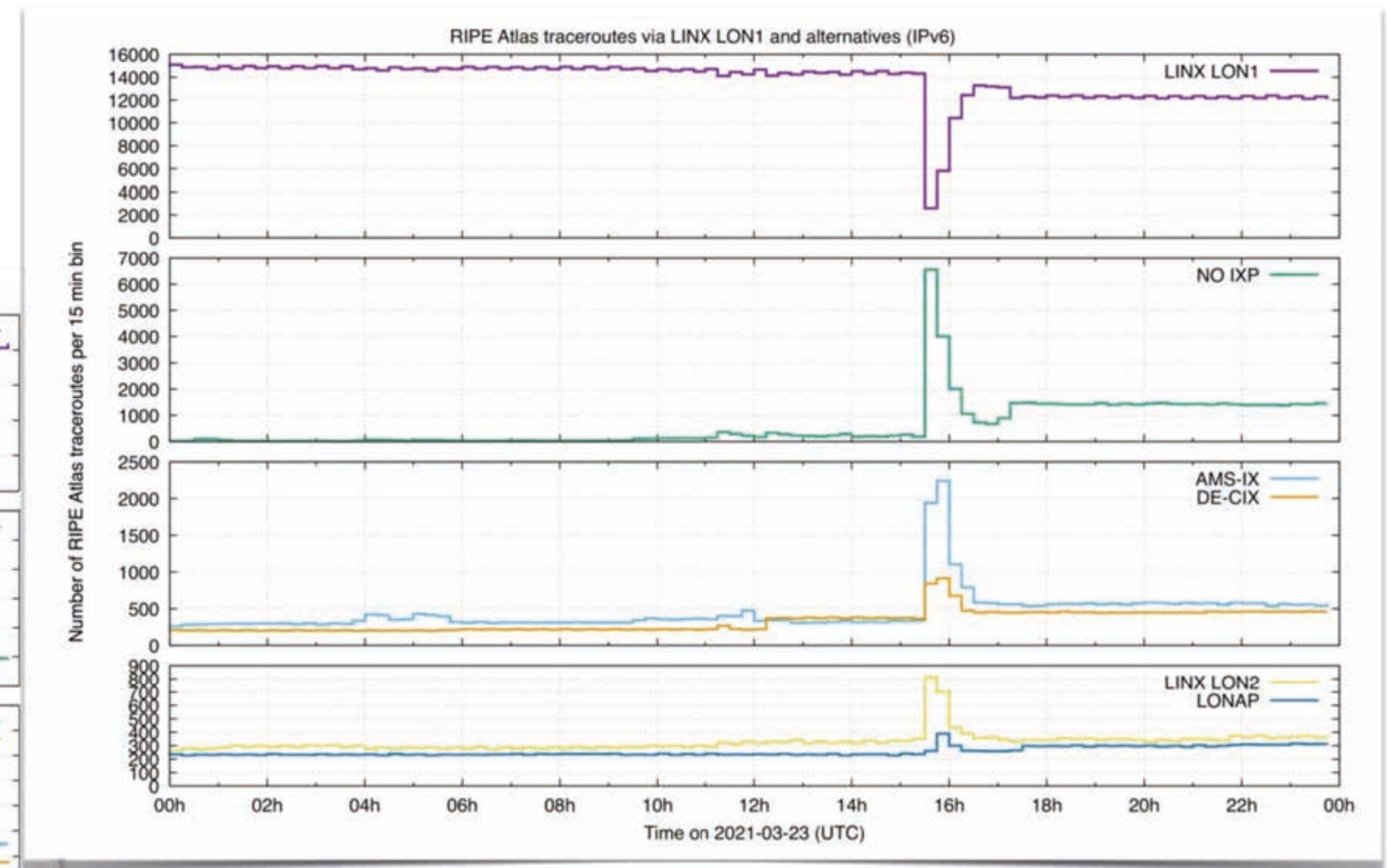
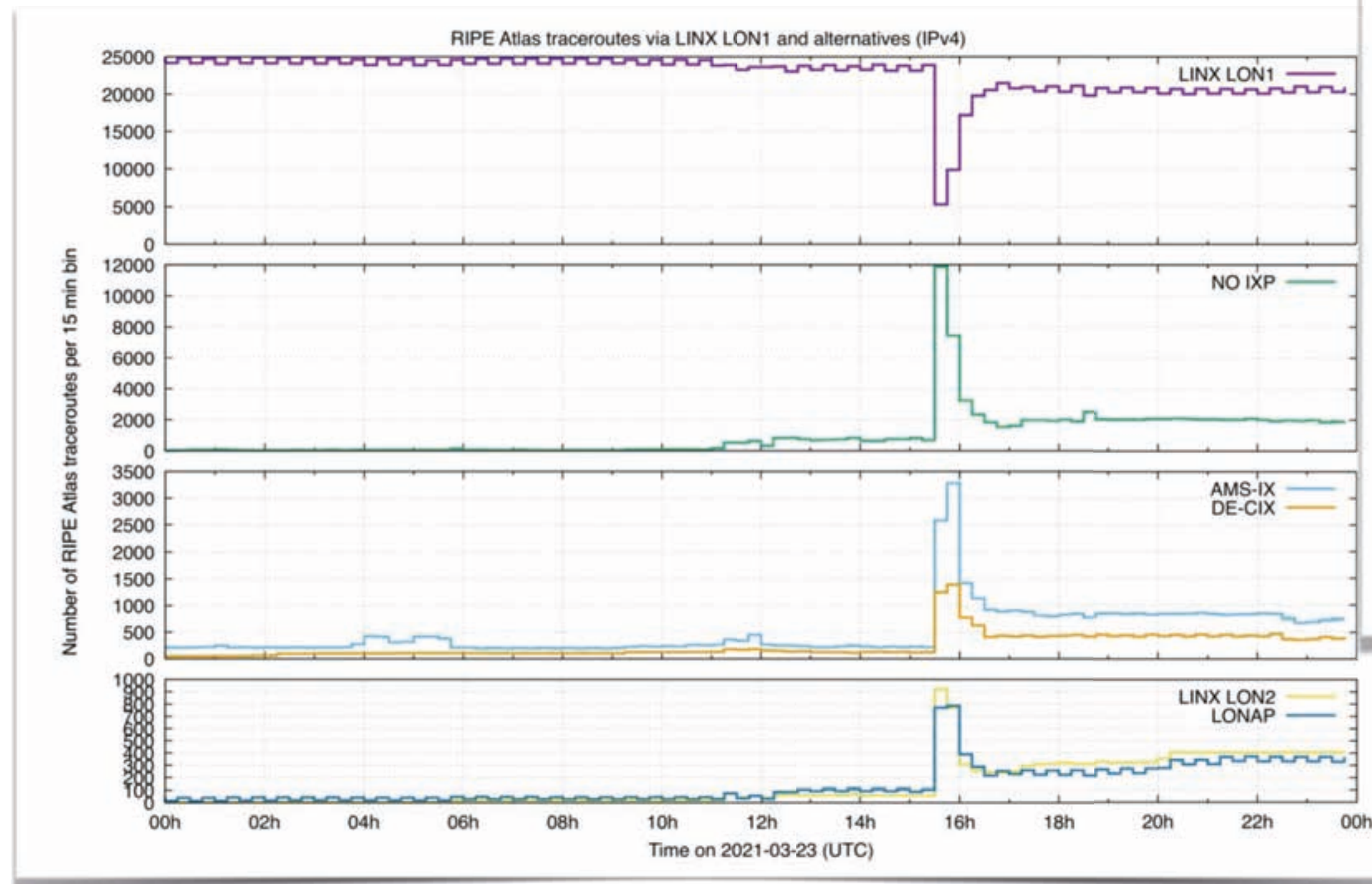


How Does It Route Around



Damage?

- Paths shift to transit mostly
- Only a few stay in country





Questions



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