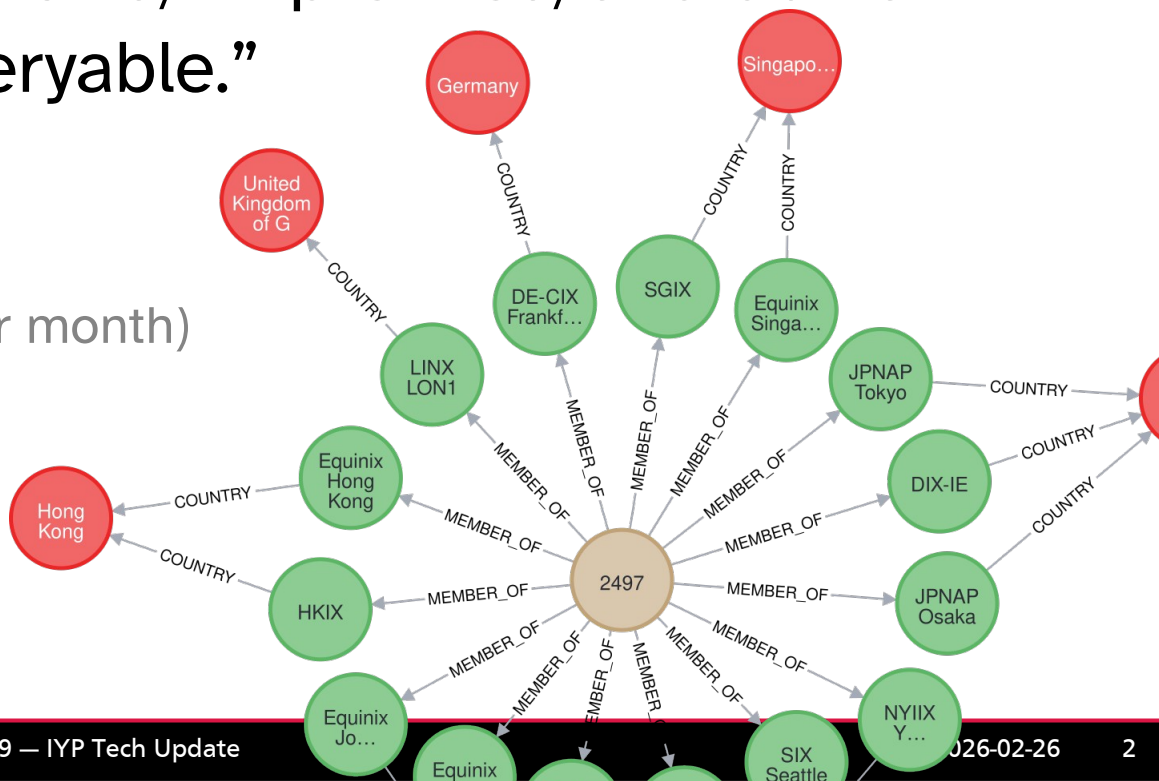


Internet Yellow Pages Tech Update

Malte Tashiro

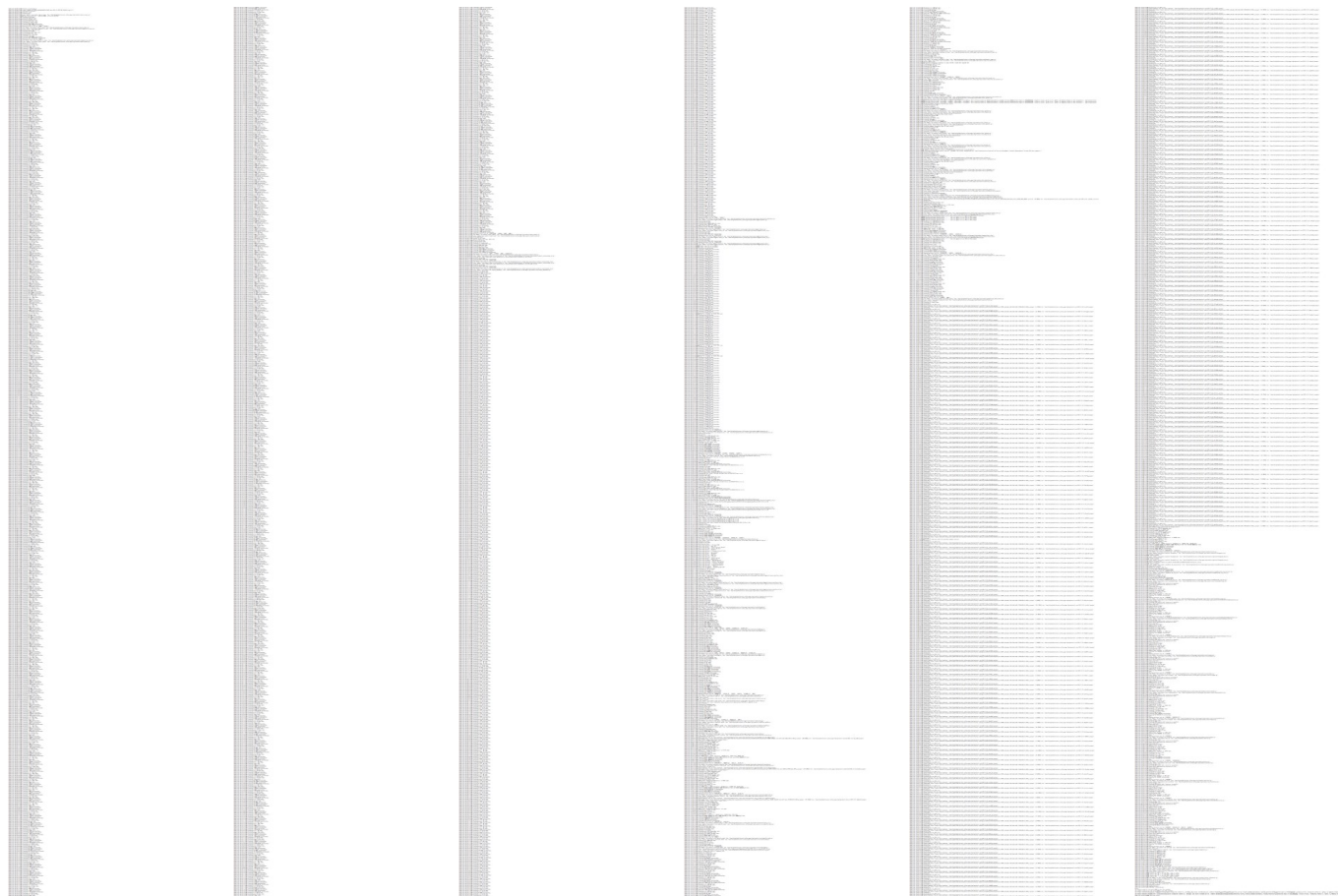
What are the Internet Yellow Pages? — <https://iyp.ijlab.net>

- “The Internet Yellow Pages (IYP) is a knowledge database that gathers information about Internet resources (for example ASNs, IP prefixes, and domain names) and is easily queryable.”
- Today: 80+ datasets
- Built weekly (actually 4x per month)
- Stuff breaks



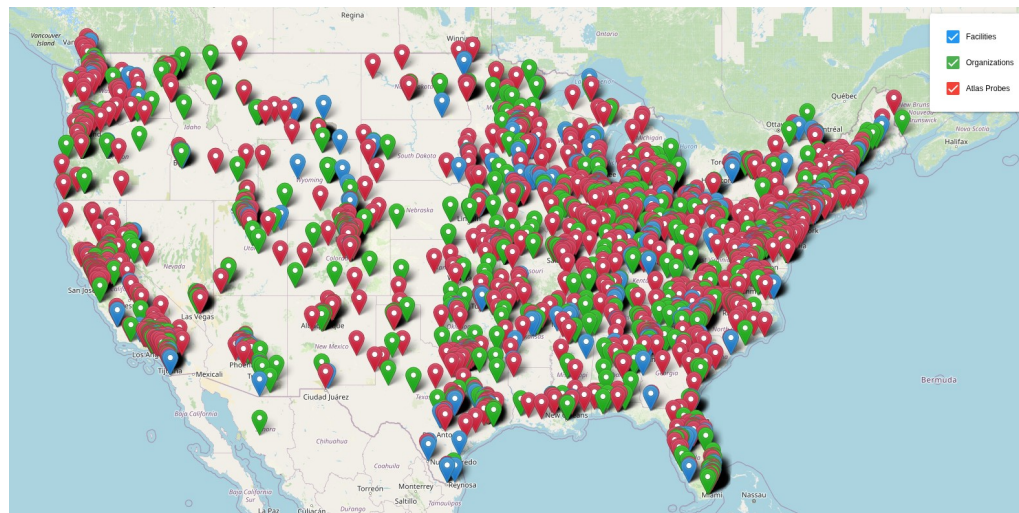
Logging

- Text-based
- ~4.5k lines
- Not very readable



<https://archive.ihr.live/ihr/iyp/2026/01/01/iyp-2026-01-01.log>

- WGS 84 coordinates for
 - Facilities (PeeringDB)
 - Organizations (PeeringDB)
 - Atlas Probes (RIPE)
 - ASes (AS Rank)
 - IP Prefix (IPinfo, LaCES, AWS)



<https://www.ihr.live/en/country/US>

```
// Atlas Probes within 5km of SDSC  
WITH point({longitude: -117.239, latitude: 32.884}) AS sdsc  
MATCH (pb:AtlasProbe)-[:LOCATED_IN]->(pt:Point)  
WHERE point.distance(pt.position, sdsc) < 5000 // meters (sorry America 🦅)  
RETURN pb
```

Improve Accountability

- Proper versioning (GitHub Releases)
 - Major version on breaking change (e.g., prefix modeling rework)
 - Minor version on new dataset(s)
 - Patch version for bug fixes
- Record commit hash, time, and version in log

last month

 m-appel

v4.2.0

7617f7b

Compare

v4.2.0 Latest

New Datasets

- Amazon AWS IP ranges by [@aditisingh02](#) in [#213](#). This dataset adds AWS IP ranges as GeoPrefix nodes (mapped to a country) and tags them with the specified AWS service.
- IANA address space by [@Vrittigyl](#) in [#219](#). This dataset introduces a new `IANAPrefix` node that indicates prefix assignment by IANA (similar to the `RIRPrefix`).
- Add additional IXPs using Alice-LG in [#221](#).

What's Changed

- Updated IPv4 detection in `address_family.py` by [@spyke7](#) in [#204](#)
- Move Neo4j credentials to config file by [@Vrittigyl](#) in [#207](#)
- Fix deployment cleanup logic by [@Vrittigyl](#) in [#215](#)
- Remove unused email notification logic by [@Vrittigyl](#) in [#216](#)
- Fix(alice-ig): Robust timestamp parsing for RFC3339Nano formats by [@Halcyonic-01](#) in [#222](#)
- Some logging cleanup to prepare for better metadata parsing.

New Contributors

- [@spyke7](#) made their first contribution in [#204](#)
- [@Vrittigyl](#) made their first contribution in [#207](#)
- [@aditisingh02](#) made their first contribution in [#213](#)
- [@Halcyonic-01](#) made their first contribution in [#222](#)

Full Changelog: [v4.1.1...v4.2.0](#)

INFO commit:14b08bc5ca7a1284eecebdf9be28f9b27e73631b date:2025-12-29T07:08:10+00:00 tag:v4.1.1

DEMO!1

Fixing Data at the Source

- Point of contact not obvious
 - Example: PCH Routing Data
 - NOC Ticket system?
 - RIPE MAT-WG mailing list!
- Response times vary
- Students leave, systems continue running



About Services Tools

Home Resources Routing Data

Routing Data Temporarily Offline

All BGP route collector data is temporarily offline while being moved to a more efficient download server. It will be made available as soon as possible. We apologize for the inconvenience.

Update country codes for Rwanda and Kosovo #13

Merged rhendriks merged 1 commit into rhendriks:main from m-appel:fix-iso-codes on Jan 16

Self-sibling ASes in data

#4 · m-appel opened 2 weeks ago

Discrepancy between README and v1.1 data.

#3 · m-appel opened 2 weeks ago

If you publish a dataset, please provide a contact method!

Miscellaneous

- Tutorial: <https://tutorial.iyp.ihr.live/>
 - Expanded from previous AIMS version!
 - Now includes exercises (and solutions)
- IYP Browser **Alpha**: <https://iyp.ijjlab.net/browser/>
 - Intelligent code completion
 - Permanent links to queries
 - Some visual output broken; features missing
- MCP Server (IYP Chatbot WiP)

