

# RIFT Auto-EVPN

## draft-ietf-rift-auto-evpn-02

Jordan Head, Tony Przygienda, Wen Lin

IETF113

# What's new in draft-ietf-auto-evpn-02?

- Improved variable derivation numbering (e.g. IRB/VLAN/EVI)
  - Big thanks to Olivier Vandezande!
- Thrift schema changes.

# Improved Derivation Numbering

- Previously, results would have looked something like this:

Fabric ID	MAC-VRF ID	VLAN ID	Stretched?	VNI	IRB
1	1	1	Yes	4097	70
3	5	1581	No	218669	1914
5	2	37	Yes	8229	186

- The solution works perfectly well, but some operators preferred that the IRB and VLAN ID matched to keep things simple and aligned with existing practices.

# Improved Derivation Numbering

- Now, results look like this:

Fabric ID	MAC-VRF ID	VLAN ID	Stretched?	VNI	IRB
1	1	<b>1</b>	Yes	4097	<b>1</b>
3	5	<b>458</b>	No	217546	<b>458</b>
5	2	<b>73</b>	Yes	8265	<b>73</b>

- VLAN and IRB values are aligned.
- Simplifies verification and troubleshooting.
- No change to scale.

# Thrift Schema Changes

- **common.thrift**

- Now carries values for `undefined_fabric_id` (0) and `default_fabric_id` (1).

- **encoding.thrift**

- `NodeCapabilities` now carries a value indicating if Auto-EVPN is supported.
- `NodeFlags` now carries a value indicating DCI functionality.

# What's Next?

- Co-Authorship and comments are welcome.
- More Data Center Interconnect details/examples.
- More multiplane examples.
- More operational considerations.

Questions?