

IX-API

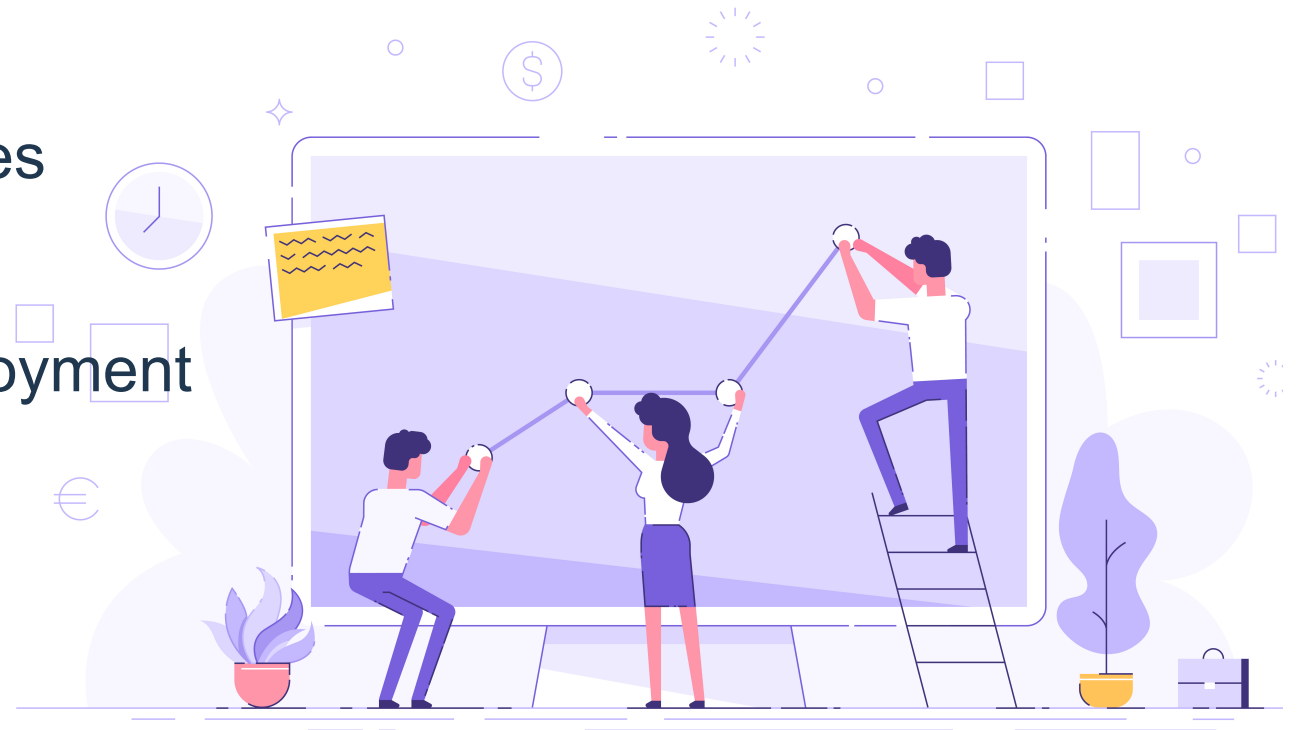
An Application Programming Interface
for Interconnection Services



New Customer demand



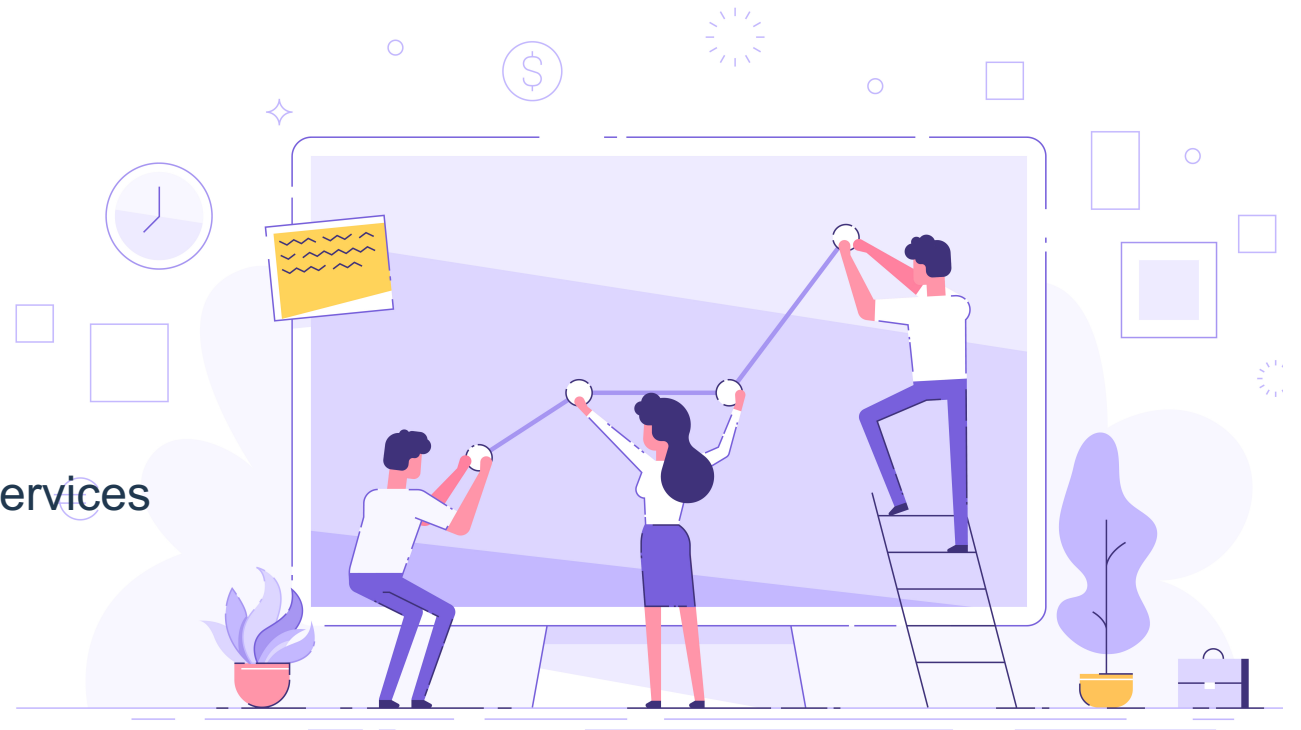
- Huge demand for API, but no standard
- More complex interconnection regimes
- Demand for faster planning and deployment of infrastructure



IXPs have evolved



- Large Internet Exchanges have global footprints
- Large Internet Exchanges are also now going into
 - Cloud Connectivity,
 - Remote Peering,
 - L2-Transports (VLANs),
 - and paid peering
- Until today, provisioning of these interconnection services is still done by humans
 - Error prone
 - Time consuming
 - Only available during business hours



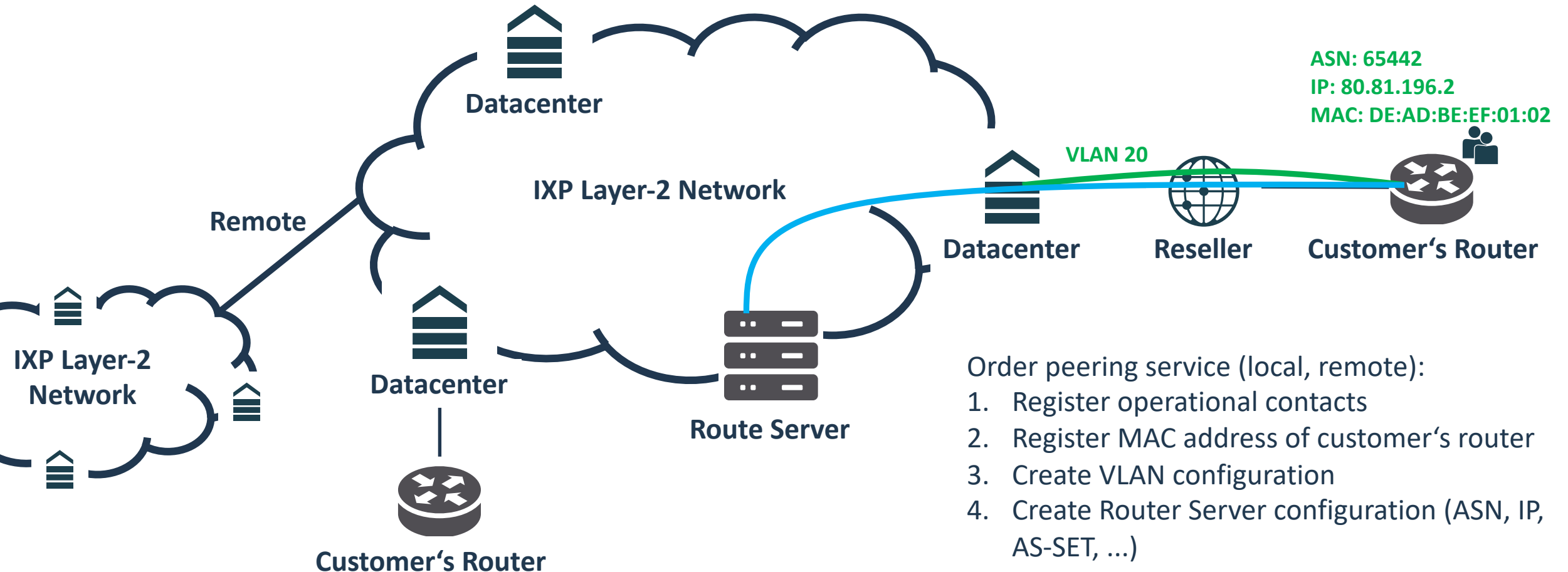
Automation for better quality



- IX-API overcomes the manual provisioning of interconnection services
- We aim to...
 - Reduce errors during provisioning
 - Deliver interconnection services immediately, without human interaction
 - Reduce the cost of client implementation by establishing an industry standard -> Implement once, reach all
 - For the Interconnection industry: by implementing the IX-API, we also standardizing IXPs / Interconnection providers
 - Free up network engineers from doing repetitive work -> Room for creativity



What is an IXP

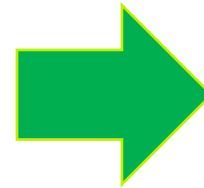


IX-API Calls



Order peering service (local, remote)

1. Register operational contacts
2. Register MAC address of customer's router
3. Create VLAN configuration
4. Create Router Server configuration (ASN, IP, AS-SET, ...)



1. POST /contacts
2. POST /macs
3. POST /network-service-configs
4. POST /network-feature-configs

Demo

IX-API Roadmap



■ V1-Peering

EPF14

■ V2-Private VLAN

Next 6 months

■ V3-Cloud Connectivity
In parallel with V2



More to come:

- Statistics
- Monitoring
- Physical

Are you a Reseller, a Customer, an IXP or
any other kind of Interconnection provider?

Implement the IX-API

Governance Modell



Members

Other IXPs / Interconnection
providers

Pilots

Clients of the IX-API (e.g. Resellers,
Marketplace operators)

Proposals



Board

Specification

Thank you!

Questions?

