



# 4th Open Tech Meetup

November 25, 2025



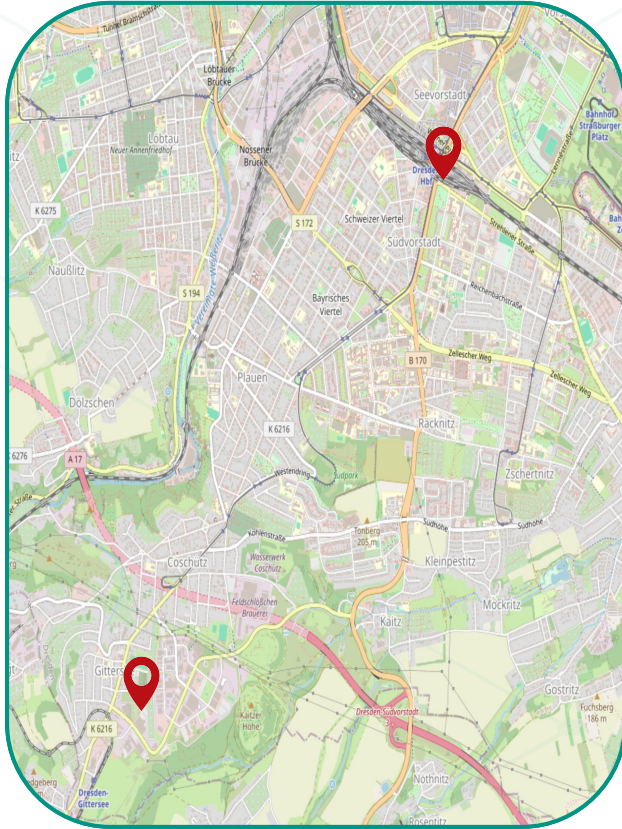
# Agenda

1. DD-IX Peering Update
2. IXpect Release
3. RFC8950: Das Ende der IPv4-Transfer-Netze
4. Vorstellung SaxNet e.V.
5. Our Community Page
6. Social: “Raskolnikoff”

# DD-IX Peering Update

Thomas

# Peers Update



+ **PCH**  
+ **PCH**  
= **IBH**  
= **DSI NET**  
= **SachsenGigaBit**  
+ **CLOUD'n'HEAT**  
= **Landeshauptstadt**  
= **BCIX Outreach**

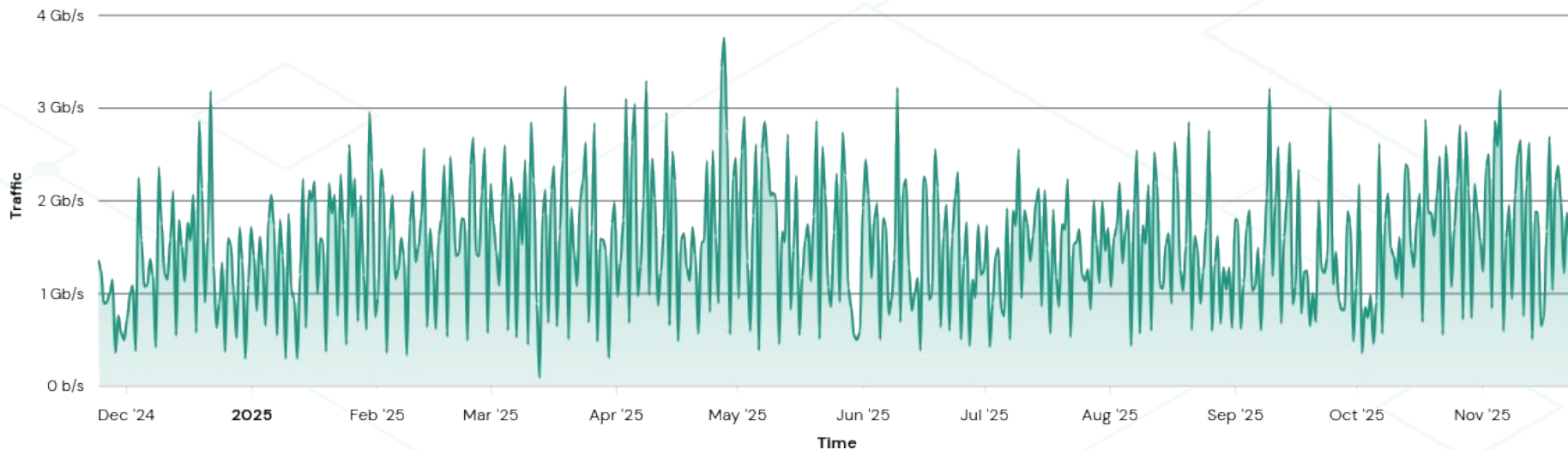
**AS42**  
**AS3856**  
**AS15372**  
**AS16205**  
**AS62365**  
**AS203592**  
**AS208508**  
**AS213973**

**Connected**  
**Connected**  
**Connected**  
**Connected**  
**Connected**  
**“Connected”**  
**Connected**  
**Connected**

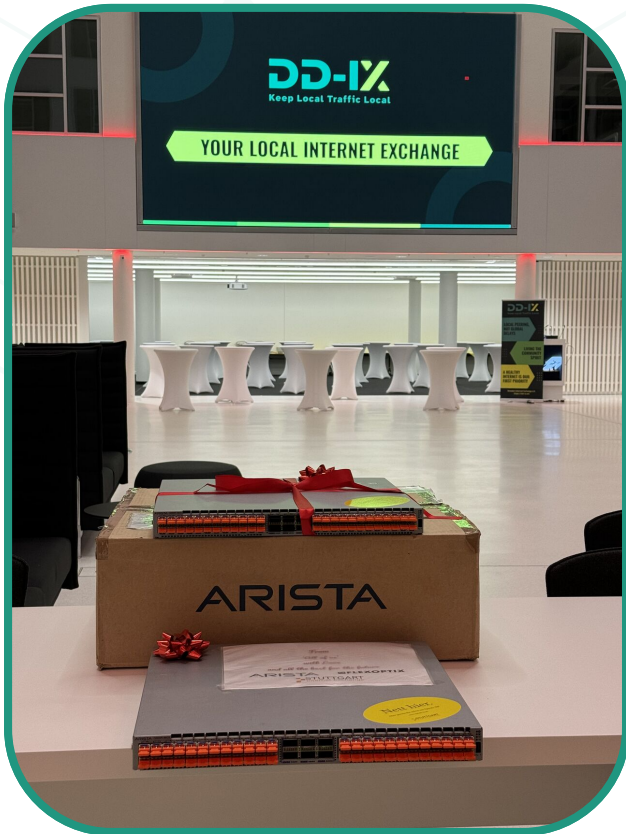
# Statistics

## Traffic

last year



# Upgrade November



✓ got another Arista DCS 7280SR-48C6 (spare)

## Mission

- replace both PoP switches at C2 & CC
- side quest: minor BIRD upgrade to 2.7.2



# Upgrade November

## Switch replacements

- prepare new switches
- go on-site



# Upgrade November

## Switch replacements

- prepare new switches
- go on-site
- disable auto switch deployment
- engage BGP Culling filters

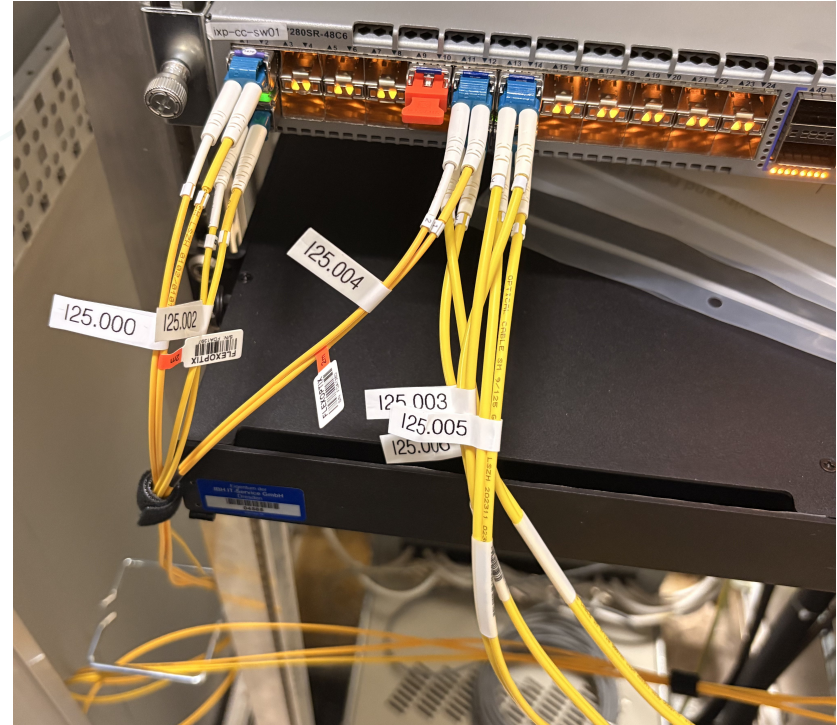
```
--- before: ixp-cc-sw01.dd-ix.net.conf
+++ after: ixp-cc-sw01.dd-ix.net.conf
@@ -71,6 +71,8 @@
    description IXP ixp-rs01
    switchport trunk allowed vlan 600-601,666
    switchport mode trunk
+   ip access-group bgp-culling-ipv4 in
+   ipv6 access-group bgp-culling-ipv6 in
    sflow enable
!
    interface Ethernet1
@@ -708,6 +710,9 @@
    101 permit ipv6 any any
!
    ipv6 access-list peer-eth11-ipv6
+   6 remark RFC8327 BGP Culling DD-IX
+   7 deny tcp 2001:7f8:79::/64 eq bgp 2001:7f8
+   8 deny tcp 2001:7f8:79::/64 2001:7f8:79::/6
    10 remark AS15372 IPv6 multicast
    11 permit ipv6 any host ff02::1
    12 permit ipv6 any host ff02::2
```



# Upgrade November

## Switch replacements

- prepare new switches
- go on-site
- disable auto switch deployment
- engage BGP Culling filters
- have a (short) break



# Upgrade November

## Switch replacements

- prepare new switches
- go on-site
- disable auto switch deployment
- engage BGP Culling filters
- have a (short) break
- replug ports & plausibility checks
- upgrade local RS
- disable BGP Culling
- enable auto switch deployment

alpine / aports / Merge requests / !92714

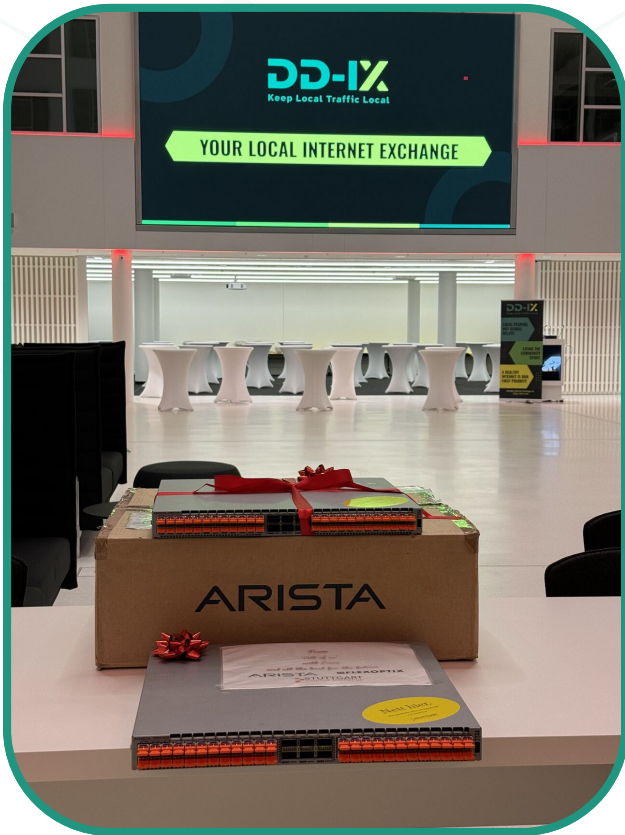
### [3.22] community/bird\_exporter: drop explicit bird dependency

Merged Thomas Liske requested to merge liske/aports:3.22-stable... into 3.22-stable 2 weeks ago

Overview 0 Commits 1 Pipelines 3 Changes 1

The package has an explicit dependency on the bird package that prevents installing it with bird2. As it does not require any bird binaries but just the bird socket (i.e. when bird is run inside a container) there is no need to depend on it at all. This makes the package work with both bird variants.

# Upgrade November



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- ✓ side quest: minor BIRD upgrade to 2.7.2  
(but stay on *Alpine Linux 3.21*)

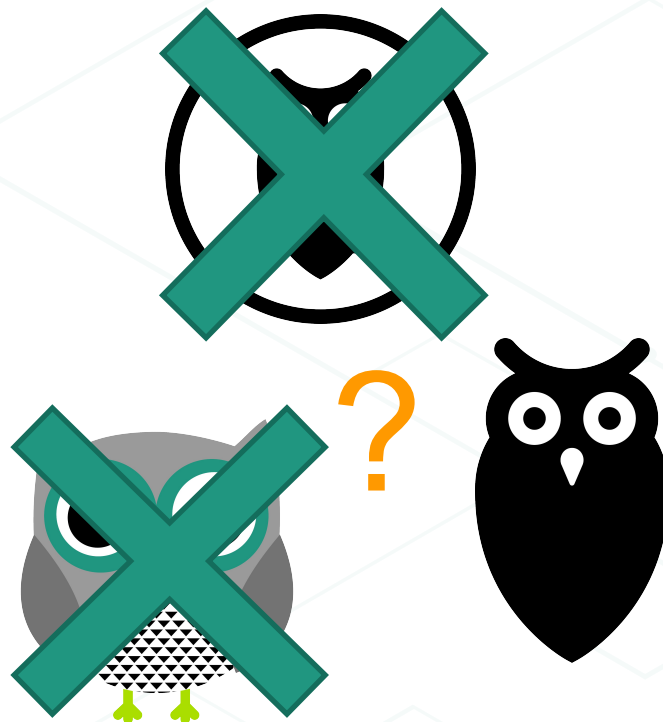
# IXpect Release

Tassilo

# Our Guardian

audIX? IXpect! PacketOwl?

- continuously monitors IX peering LAN
- notifies on disruptions
- validates peer configuration



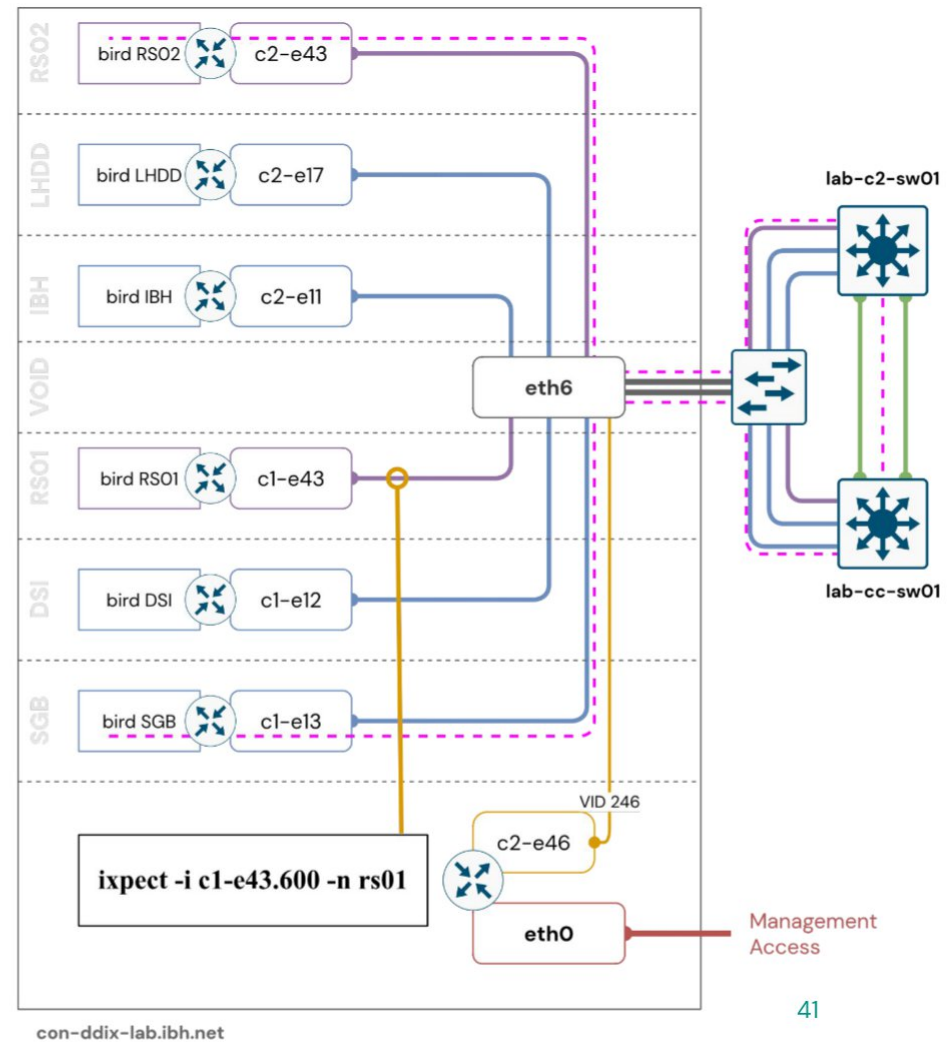
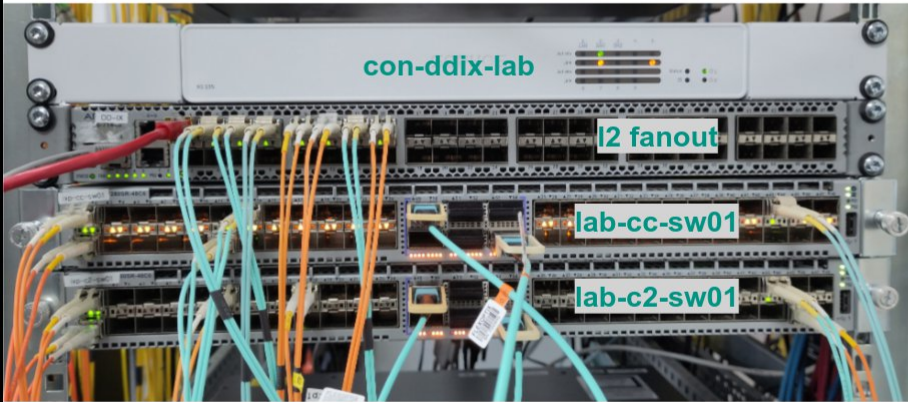
# Public Presentations

- 2025-10-28 ~50 participants
- 2025-11-19 3 participants
- sessions were recorded, video will be published soon!
- contact to IX.br and LINX for testing at large peering LANs
- adopted by BCIX (Thanks!), more on this in a future OTM.
- Find the slides here: [talks.dd-ix.net](https://talks.dd-ix.net)





# DD-IX Lab



# IXpect – We are not done yet!

Packing provided for:

- Alpine Linux
- Debian GNU/Linux
- NixOS

Future work:

- Probe `l4_protocol`
- IX-F Member Export support
- Additional packet sources?

Documentation: <https://ixpect.net>

Code & Issues: <https://codeberg.org/ixpect/ixpect>

IXpect is licensed under GPLv2.

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IXpect

# A Probable Future Inside ALASCA



- We will most likely submit IXpect to ALASCA
- They will take care of further promotion and push for adoption.
- Help with keeping the documentation clean and up-to date.
- Vibrant and local ecosystem



**ALASCA**  
SUMMIT

# RFC8950

## Das Ende der IPv4-Transfer-Netze

André

# Vorstellung SaxNet e.V.

Ulf

# Our Community Page

Tassilo



# Community Page

- What? and Why?  
=> **Keep Local Traffic Local**
- promote and collect **local** Internet resources.
- Help for local system administrators and techies.

## Community around DD-IX

DD-IX promotes local community projects in order to **Keep Local Traffic Local**. This website lists those resources such as mirrors, open resolvers, and local hosted services.



Mirrors



Git



Federated Services

### Did we forget something?

Did we forget a project? Send an email to [contact@dd-ix.net](mailto:contact@dd-ix.net) or [submit a PR](#).

### Locally Connected?

Your ISP is not connected to DD-IX :(



# Community Page

- Which Resources?
  - Linux, BSD, OSM - Mirrors
  - Open Recursive Resolver (WIP)
  - Public Git Servers (WIP)
  - Fedi (WIP)
  - More?
- Who Qualifies?
  - Hosted in Dresden
  - In a network, which is or plans to connect to DD-IX.

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# Open Discussion

ff02::1



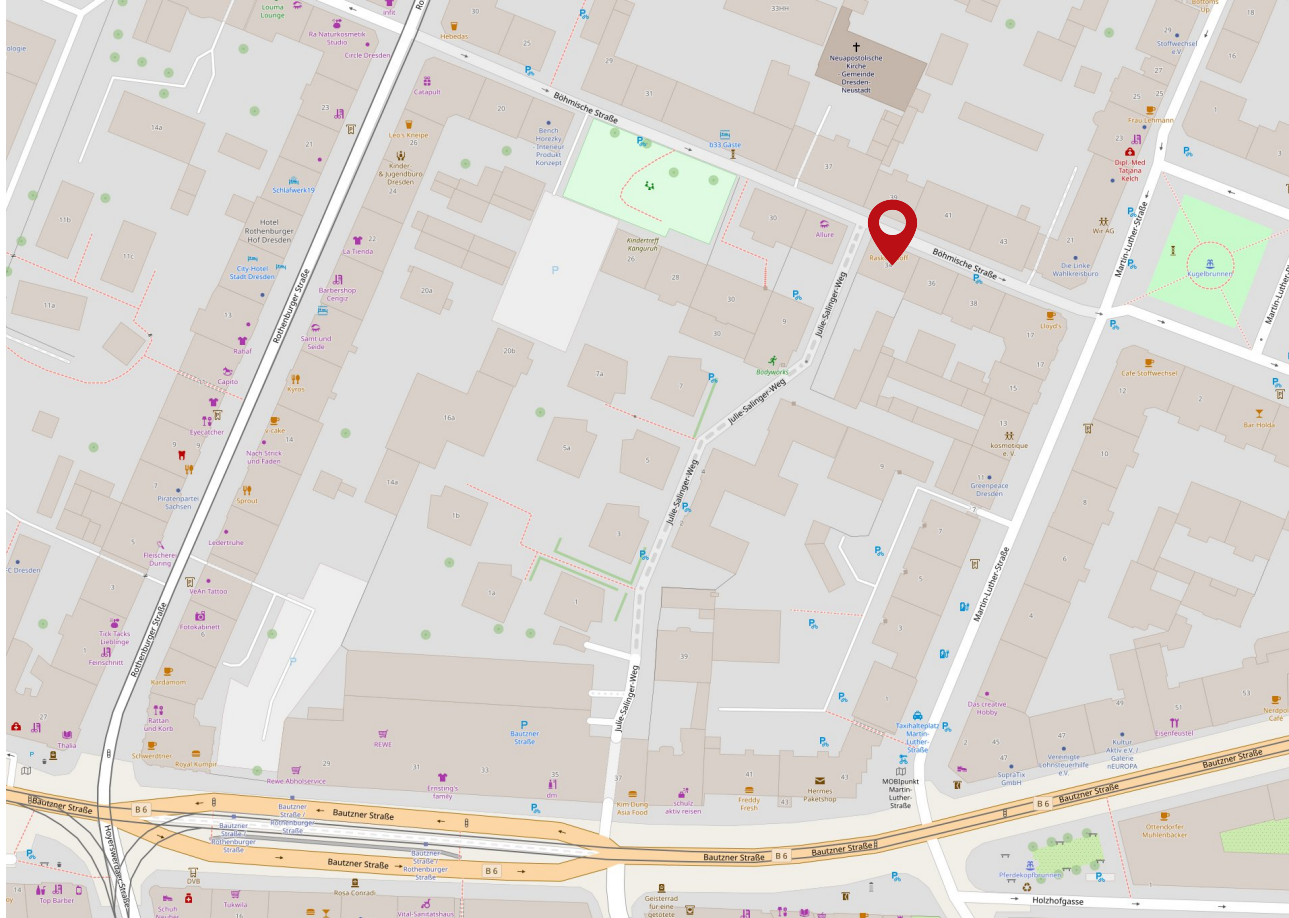
Keep Local Traffic Local

## Contacts:

<https://dd-ix.net>

[contact@dd-ix.net](mailto:contact@dd-ix.net)

## News:



20:15 Raskolnikoff