IETF Hackathon-
IPv6 Network Traffic Monitoring and Analysis Platform

IETF 125
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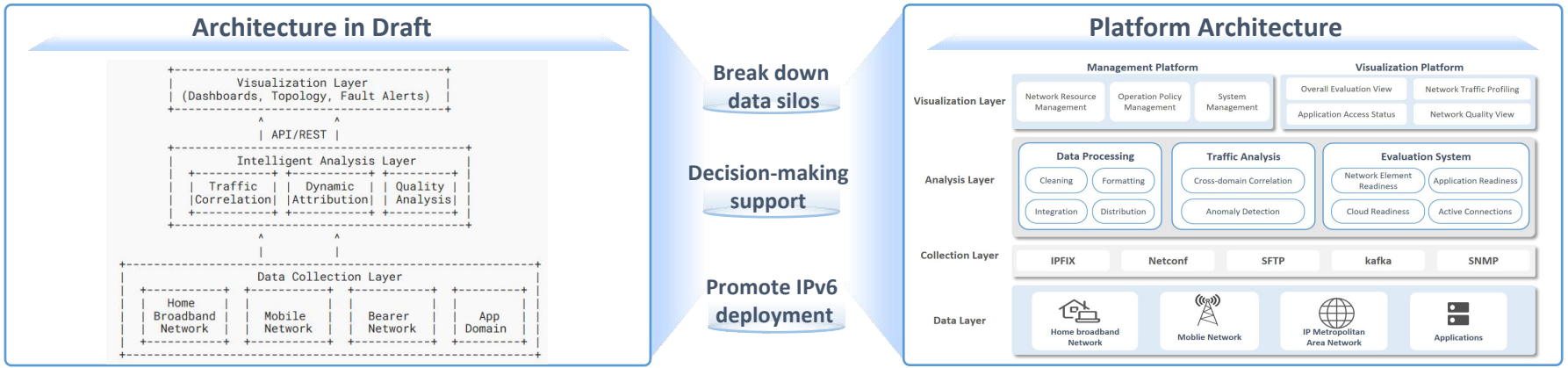
Shenzhen, China

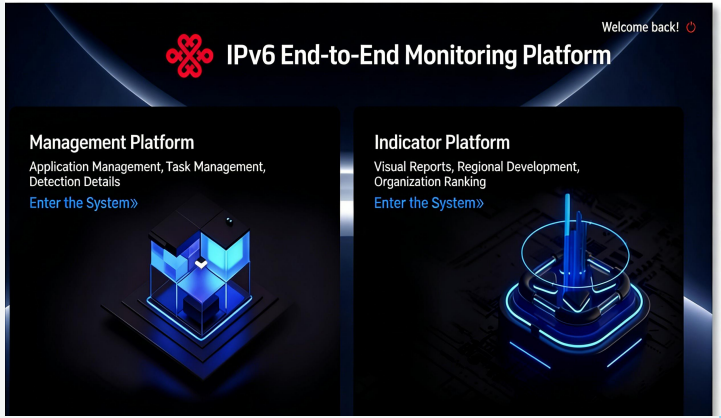
Hackathon Plan

- **Purpose:**
  - To design an IPv6 network monitoring and analysis platform based on the architecture and metrics framework defined in our draft, providing end-to-end visibility across home networks, mobile networks, IP bearer networks, and application domains, and validate the solution with typical use cases.
- **Involved draft:**
  - draft-pang-v6ops-ipv6-monitoring-deployment-05
  - https://datatracker.ietf.org/doc/draft-pang-v6ops-ipv6-monitoring-deployment/



What got done

IPv6 Network Traffic End-to-End Monitoring and Analysis Platform

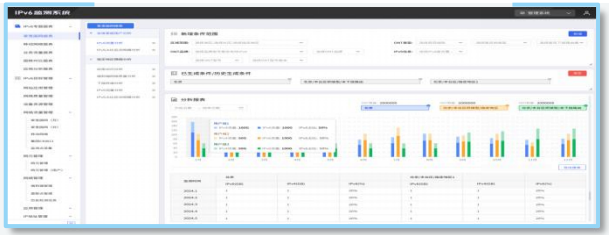


- Management sub-platform
- Indicators sub-platform

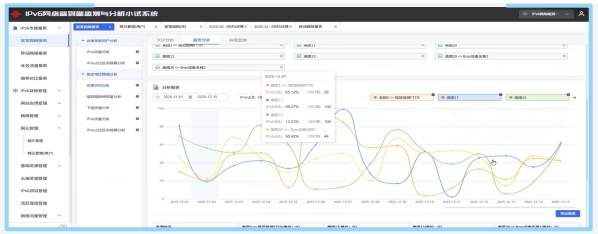
What got done

- **Key capabilities:**
  - Supports multi-dimensional comparative analysis of IPv6 and IPv4 traffic across network regions and applications, as well as correlation analysis based on IPv6 traffic proportion.
  - Provides end-to-end network quality monitoring and analysis.
  - Supports second-level query responses with daily data resolution.

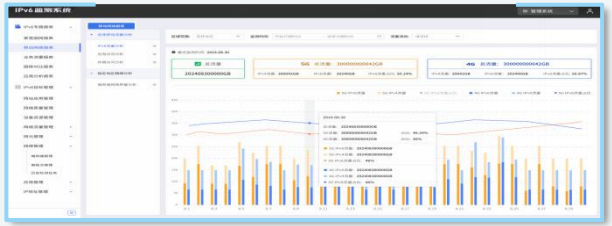
- Home broadband network traffic trend



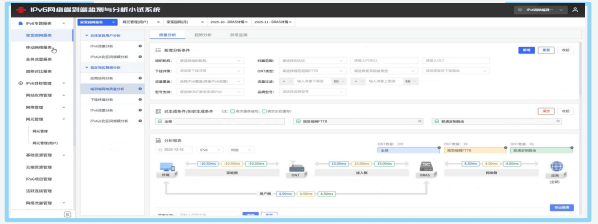
- IPv6 access trend of application



- Moblie network traffic trend



- Network quality monitoring



What we learned

- Need to consider more fine-grained traffic monitoring methods and understand their associated challenges.
- Collect feedback on and support for our draft.

Wrap Up

Team members:

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If you are interested in collaborating or have suggestions on how we can enhance our draft,

please reach out to us!

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