

CHKU

Intelligent Probing System for complex IP network services

- ✓ Network performance observability and monitoring
- ✓ Deep insights on end-user performances
- ✓ Identify and resolve performance bottlenecks

UNIBERG's CHKU is a modern, flexible and innovative observability system for service providers and enterprise customers. It provides detailed and valuable insights about your network, services as well as systems infrastructures. CHKU is currently used by leading internet service providers to win public benchmarks, improve customer experience as well as detect anomalies within infrastructures.

CHKU can be deployed for user-centric services, as well as internet and network performance observability and monitoring for service providers and enterprises. It provides deep insights on end-user performance on video streaming, IP transport, DNS, as well as web content. It helps in identifying and resolving performance bottlenecks in the networks and services.

CHKU: Observability tool to improve user-experience and identify problems in network, services and systems infrastructures.

Key use-cases

- Win public benchmarks by identifying network and services bottlenecks
- Ease and expedite the challenging tasks of root cause analysis
- Understand network quality from end-user perspective
- Differentiate between service and network performance loss

Key benefits

- Provides valuable insights about end-user's services quality and service availability
- Flexibility to add custom KPIs for new and additional services
- Uses a modern front-end with customizable dashboards and reports
- Fully managed and automated

Win public benchmarks on internet and mobile infrastructures

CHKU consists of a central server function for probe administration as well as decentralized, edge-oriented hardware probes, generating meaningful KPIs. All measurements are close to real world experiences of users and can provide details about the performance within the operational domain.

CHKU categories of KPIs and Probes

Video Streaming

- ✓ Time to first video packet
- ✓ Video datarate
- ✓ Available for video-streaming services

DNS and Ping Probe

- ✓ Time to respond to requests

Cloud Storage

- ✓ Upload and download of configurable files
- ✓ Time to upload
- ✓ Bits per second

Websites

- ✓ Time to load full page
- ✓ Time to first byte
- ✓ Time to answer first request
- ✓ DNS Servers dip-up time

All Probes

- ✓ Packet loss
- ✓ DNS requests
- ✓ Bitrate
- ✓ Success rate



CHKU Hardware component

According to the requirement, we provide our own hardware for decentral probes. The solution includes a fully manageable and security hardened OS. For the ease of installation, an automated setup of the decentralized probing system is integrated.

Furthermore, CHKU is perfectly suited for integration into our UNIMA Data Analytics and Visualization platform based on ElasticSearch.

