EAST EUROPEAN TELCO
COMBATS OTT BYPASS FRAUD
A East European communications service provider (CSP) was losing €325,000 annually to OTT bypass fraud due to reduced international call terminations, specifically of Viber In calls. The CSP partnered with Subex to monitor the volume of Viber In calls and block them. Subex partnered with a third-party vendor and a local partner to implement the ROC® Probe solution. We undertook a proof of concept (PoC) over five weeks, which involved monitoring and blocking Viber In calls in their 100G network capacity.

### Detecting OTT bypass at the source

Subex deployed an OTT detection solution to analyze OTT traffic and extract the metadata parameters of the traffic to classify data traffic as OTT chat and OTT voice, and further sub-classify it as OTT-to-OTT, OTT-to-PSTN/GSM and PSTN/GSM-to-OTT by evaluating unique signatures within the data packets.

Subex deployed the solution and reversed OTT bypass in a systematic manner:
- Implemented Viber Detection module on Gi links
- Segregated Viber-IN from other Viber traffic
- Reported Viber usage statistics
- Devised a business rules framework for blocking Viber-IN traffic
- Established a fool proof mechanism for software and hardware failures
- Ensured Viber protocol signature is updated

### OTT Bypass - Approach of Subex

During the deployment of Subex ROC® Probe, the CSP’s network had zero disruption unlike earlier instances of network outage and subscriber grievances.

Subex ROC® Probe scrutinizes every packet of data that passes through the device from diverse links in the network. Our solution investigates the content within the actual packet to understand the applications and the services used by subscribers.
About Subex

Subex Ltd. is a leading telecom analytics solutions provider, enabling a digital future for global telcos. Founded in 1992, Subex has spent over 25 years in enabling 3/4th of the largest 50 CSPs globally achieve competitive advantage. By leveraging data which is gathered across networks, customers, and systems coupled with its domain knowledge and the capabilities of its core solutions, Subex helps CSPs to drive new business models, enhance customer experience and optimise enterprises.

Subex leverages its award-winning analytics solutions in areas such as Revenue Assurance, Fraud Management, Asset Assurance and Partner Management, and complements them through its newer solutions such as IoT Security. Subex also offers scalable Managed Services and Business Consulting services.

Subex has more than 300 installations across 90+ countries.