

# convergence

PRODUCT PORTFOLIO 2026

Open-Source Telecom Systems Integration  
CAMEL · SS7 · SIGTRAN · FreeSWITCH · ClickHouse · AI/LLM · Temporal

22+

Years

'00s

Servers managed

8

Platforms

T-1

MNO Clients

24/7

NOC

// 01 - WHO WE ARE

# Established 2002. Islamabad, Pakistan.

25+ years of telecom engineering expertise.

Open-source carrier-grade systems for Tier-1 MNOs, MVNOs, and aggregators. Small, senior team. No fluff.

## FOUNDED

2002, Islamabad

## TEAM

Senior engineers & architects

## CLIENTS

Tier-1 MNOs, MVNOs, aggregators

## FOCUS

Open-source telecom integration

# The Full Telecom Stack. Open-Source.

## CAMEL & SMS Gateways

SS7 · SIGTRAN · SMPP · Restcomm

## Inline Call Blocking

CAMEL · 10M+ numbers · <100ms ·  
RAFM

## AI Call Centre & IVR

FreeSWITCH · LLM · STT/TTS ·  
WebRTC

## Petabyte Data Warehouse

ClickHouse · Grafana · Metabase  
· ML

## SmartLink OTT Platform

WebRTC · Matrix · E2E Encrypted



## Self-Care & Subscriptions

TemporaL · HLR/IN · Python

## SIM & Number Management

HLR/HSS · KYC · Fraud  
Prevention

## Traffic Generators

SIPp · SMPP · MOS Testing

// INLINE CALL BLOCKING – DEEP DIVE

# CAMEL Inline Blocking & Real-Time Fraud Prevention

**10M+**

Blacklisted numbers

**<100ms**

Response time

**5,000/s**

Calls per second

**HA**

Clustered failover

- SIM cloning & subscription fraud detection
- Premium SMS and roaming abuse prevention
- Dynamically updated blacklists in real-time
- RAFM system integration end-to-end
- Full audit trails and compliance reporting

# ClickHouse at Petabyte Scale for Telecom Operators

## Billions of rows/hr

ingestion throughput

## Millisecond queries

at petabyte scale

## Grafana dashboards

NOC, finance, management

## Metabase self-service

BI without engineering

## ML-ready pipelines

churn, fraud, routing AI

## Kafka / RabbitMQ

streaming + batch ETL

// AI CALL CENTRE & IVR – DEEP DIVE

# FreeSWITCH + LLM + Multilingual STT/TTS

Speech Input → Real-time STT → LLM/NLU → Intelligent Response → TTS → Caller

Urdu

Pashto

Dari

Arabic

English

Punjabi

Farsi

- 5,000 concurrent calls per cluster, horizontal scaling
- WebRTC browser-based agent console + predictive dialing
- OpenAI, DeepSeek, Google, Azure, on-prem LLMs
- CRM, billing, OSS/BSS integrations built-in
- Skill-based routing, blended queues, full CDR recording

// GET IN TOUCH

# Let's build something.

Gateway, fraud platform, data warehouse, or AI call centre.  
We have been doing this since 2002.

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## Location

Islamabad, Pakistan