AB HANDSHAKE

VALIDATION OF DIFFERENT CALL EVENTS

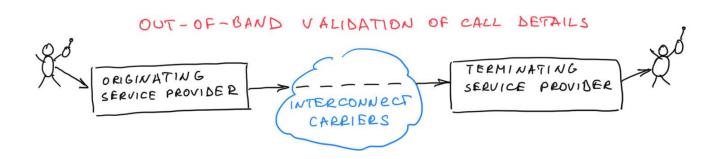
TO ENHANCE FRAUD DETECTION



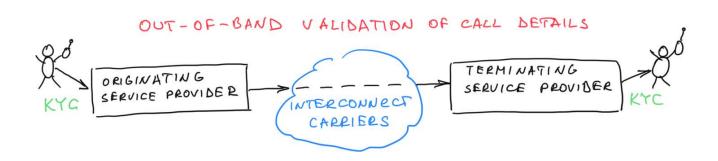
VOICE FRAUD TYPES

CLI SPOOFING \$2,6 B PBX HACK \$ 3,6 B INTERCONNECT BYPASS \$3,18 SPAM, PHISHING \$ 3,24 B WANGIRI \$ 1,8B FAS + 1RSF \$ 6,7 B OTT BYPASS CALL STRETCHING ? * CFCA

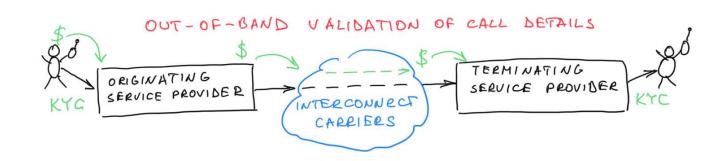




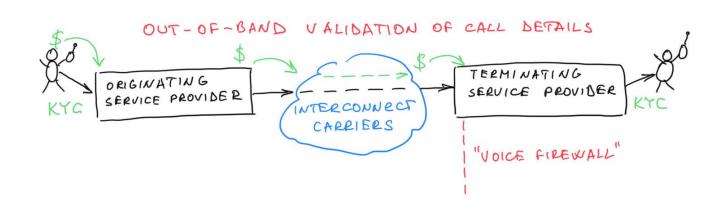




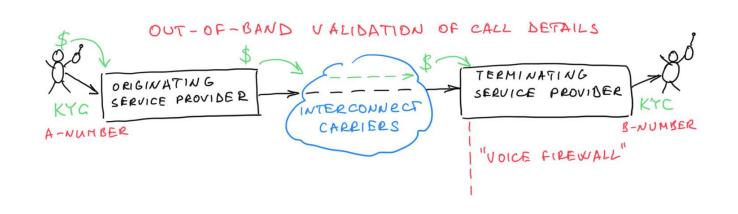




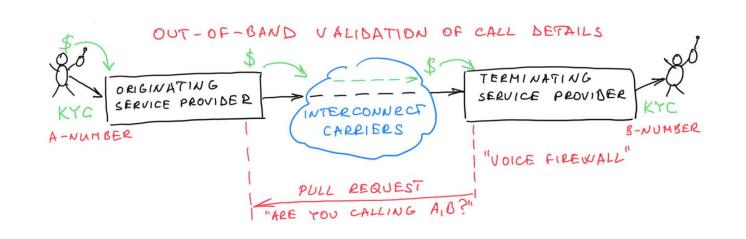




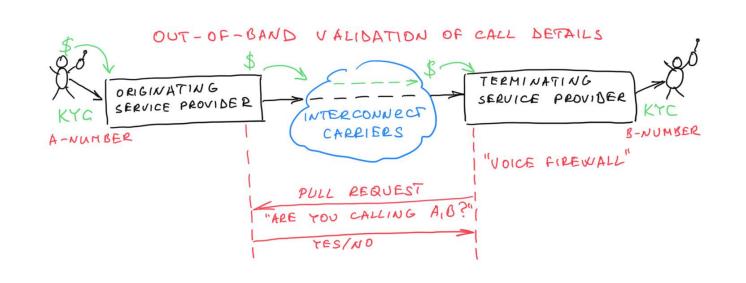




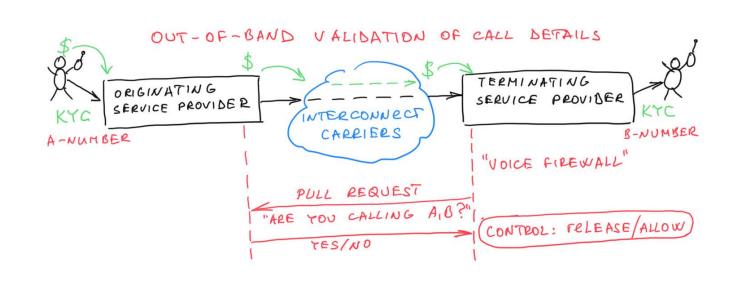




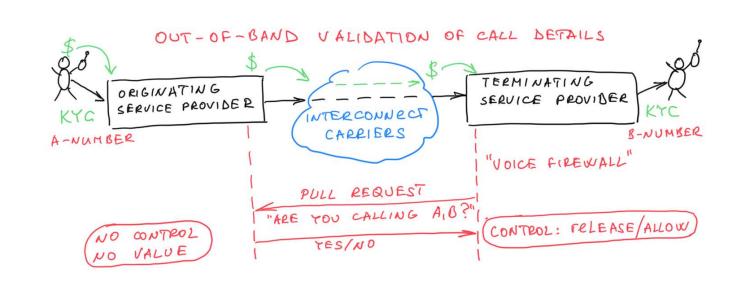




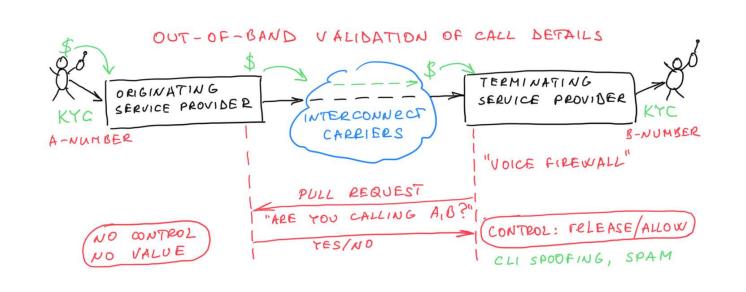




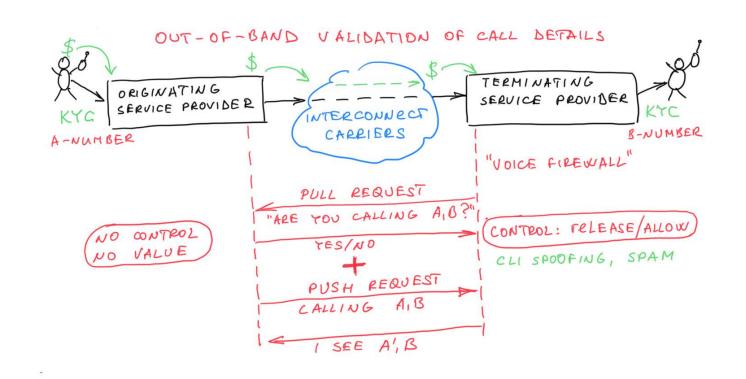




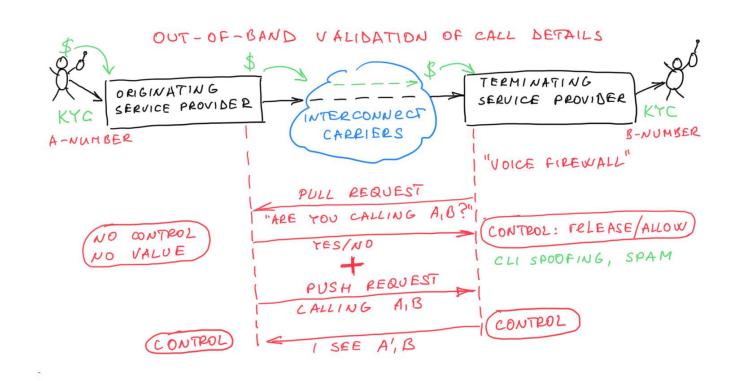




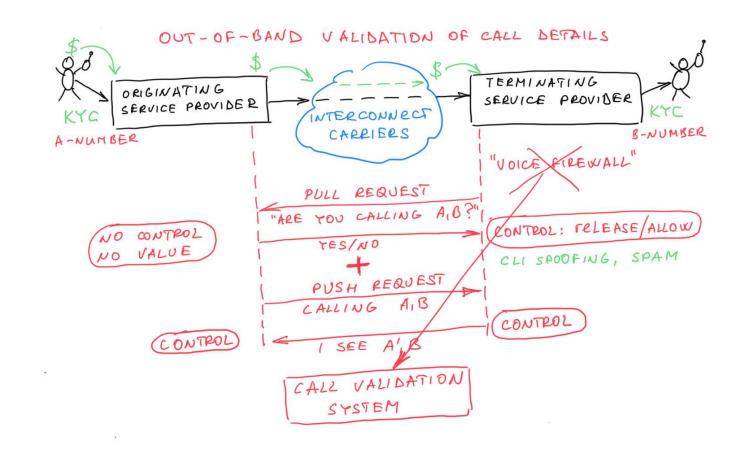




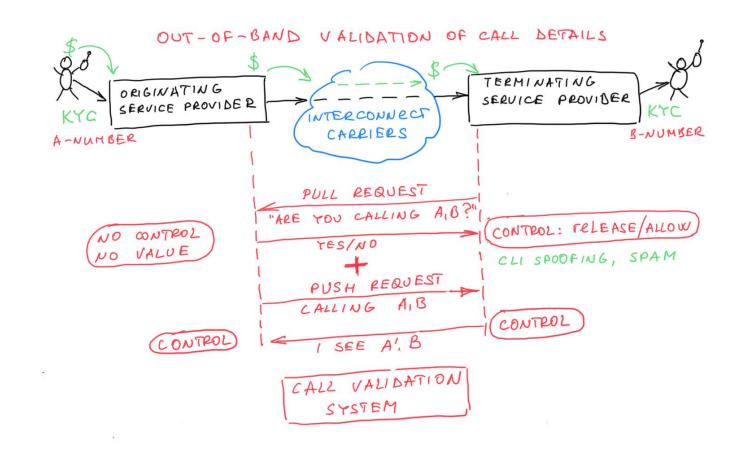




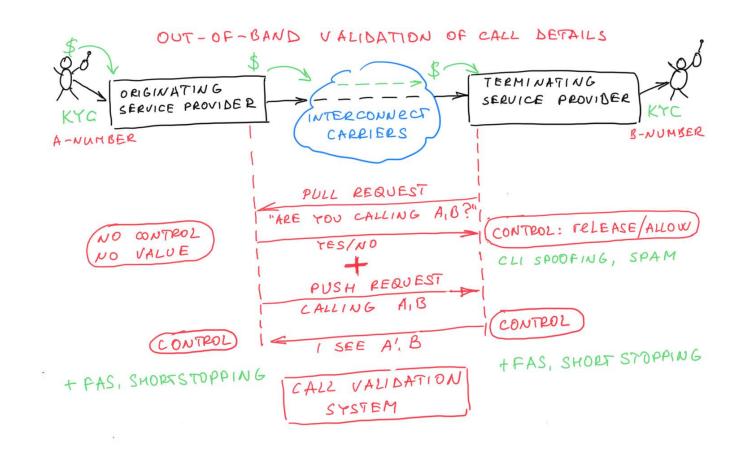




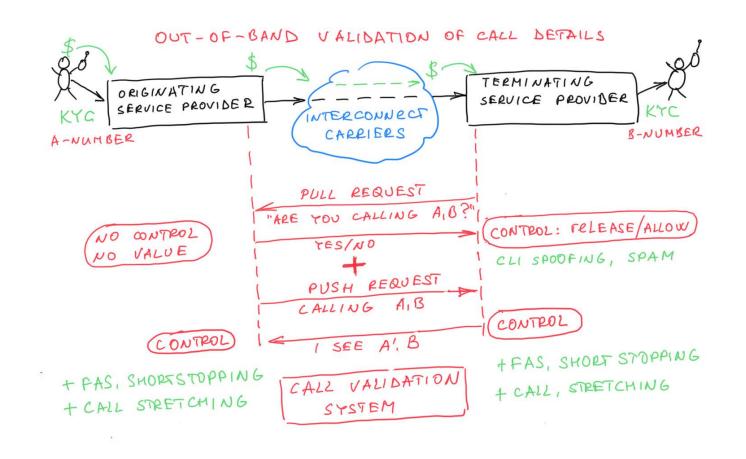




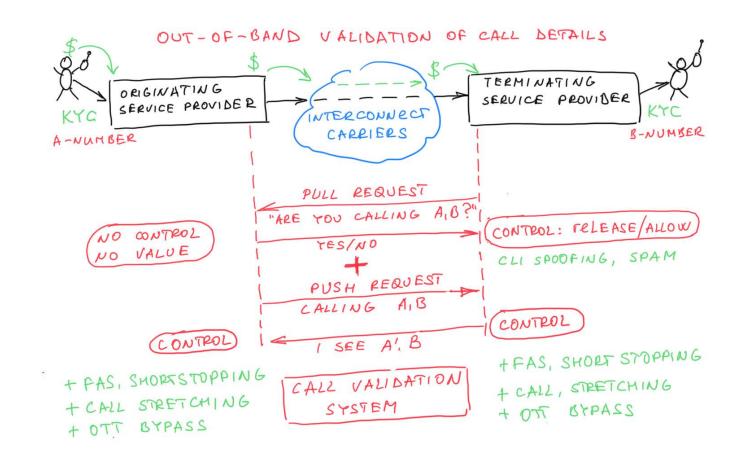




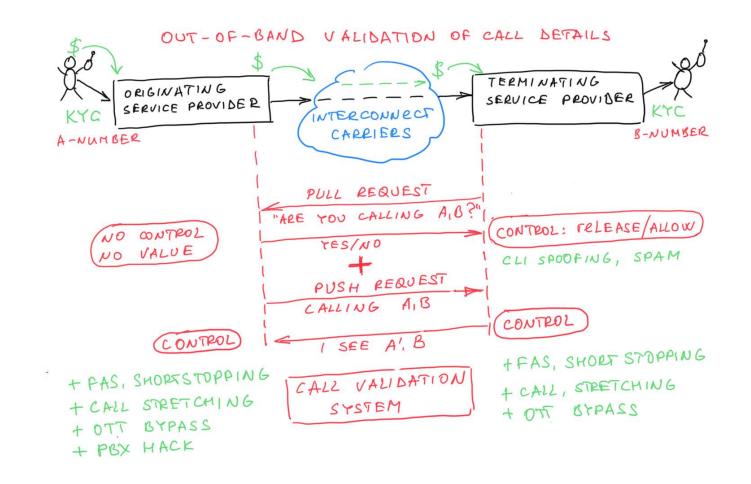




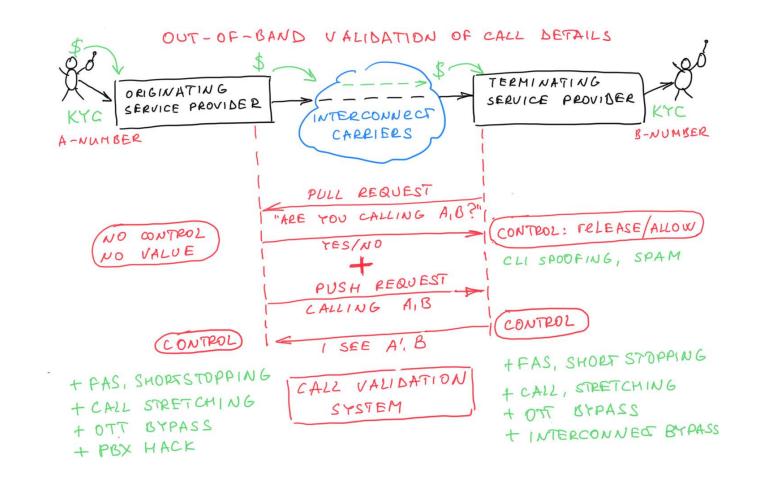




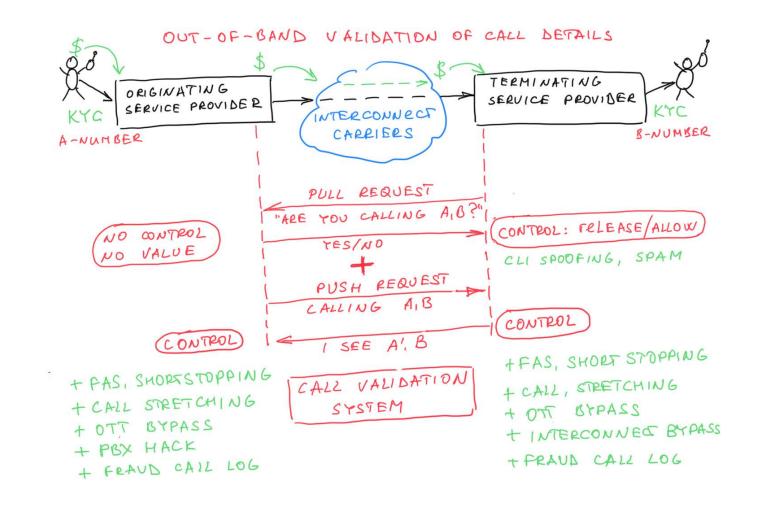












SYSTEM ARCHITECTURE AND MANAGEMENT

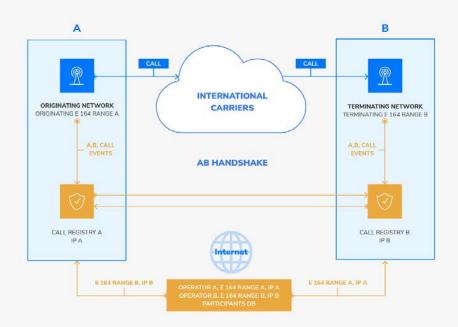
Both operators have Call Registries installed at their premises.

An international call originated by Operator A is routed via a cloud of carries to Operator B. Simultaneously, Operator A sends call details to Call Registry A for validation. Operator B sends details of the received call to Call Registry B for validation as well. Both CRs reach out to each other through an **encrypted channel to compare call details.**

The Call Registry can give commands to stop connecting a call or disconnect an active call

Every Operator that would like to participate provides its own E.164 range and IP address of its Call registry to the coordinating entity.





VALIDATION OF DIFFERENT CALL EVENTS

START

CONNECT END



VALIDATION OF DIFFERENT CALL EVENTS END CONNECT START CALL FAS+ IRSF \$6,7B CLI SPOOFING \$ 2,6 B STRETCHING NATURAL TRAFFIC \$3,68 PBX HACK WITH GENERATED TRAFFIC INTERCONNECT \$ 3,1 B OTT DYPASS BYPASS SPAM, PHISHING \$3,24B

Н

WANGIRI \$1,8B

* CFCA

CALL EVENTS: START, CONNECT, END

VALIDATION SCHEME: PULL + PUSH

CONTROLLING PARTIES: ORIGINATING SERVICE PROVIDER
TERMINATING SERVICE PROVIDER

TYPES OF FRAUD: ALL TYPES OF VOICE FRAUD



HOW TO TRANSMIT CALL EVENTS FOR VALIBATION

- (SIP SIGNALING: SBC, Softswitch, CSCF
- 2) RADIUS AAA: SBC, Softswitch
- 3 CAMEL: SCP, STP, CAMEL GW
- 4 ISUP: STP





THANK YOU

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