Arelion

An IPX that puts security to the test

Real-life global roaming audits for P1 Security

Challenge
Driven to strengthen global MNO security, P1 Security required the ability to execute highly realistic security audits across worldwide SS7, Diameter, and GTP roaming perimeters. However, telecom core networks are closed, walled-garden ecosystems, making genuine carrier-level testing from the outside impossible.

Solution
Arelion provides P1 Security with carrier-grade SCCP and IPX/GRX interconnection, seamlessly establishing dedicated signaling links via the audited MNO's own carrier using P1 Security's Roaming Agreements. This trusted network architecture guarantees uncompromised realism, ensuring audit traffic precisely mirrors live roaming subscribers across Diameter, SIGTRAN, and GTP-C domains. Combining global signaling reach with authentic carrier delivery, Arelion enables P1 Security to genuinely stress-test core network firewalls against real-world threats, completely eliminating the risk of "false secure" results.

Results
This seamless global access empowers P1 Security to initiate worldwide operator assessments with unparalleled speed, drastically accelerating the timeline between a signed engagement and the first test packet on the network. Beyond customer audits, this Arelion interconnect directly drives P1's R&D, allowing its P1 Telecom Auditor software to be validated over a live carrier network rather than a simulated lab. Backed by this authentic infrastructure, P1 has successfully delivered over 300 carrier-grade vulnerability assessments since 2011.

Solution overview

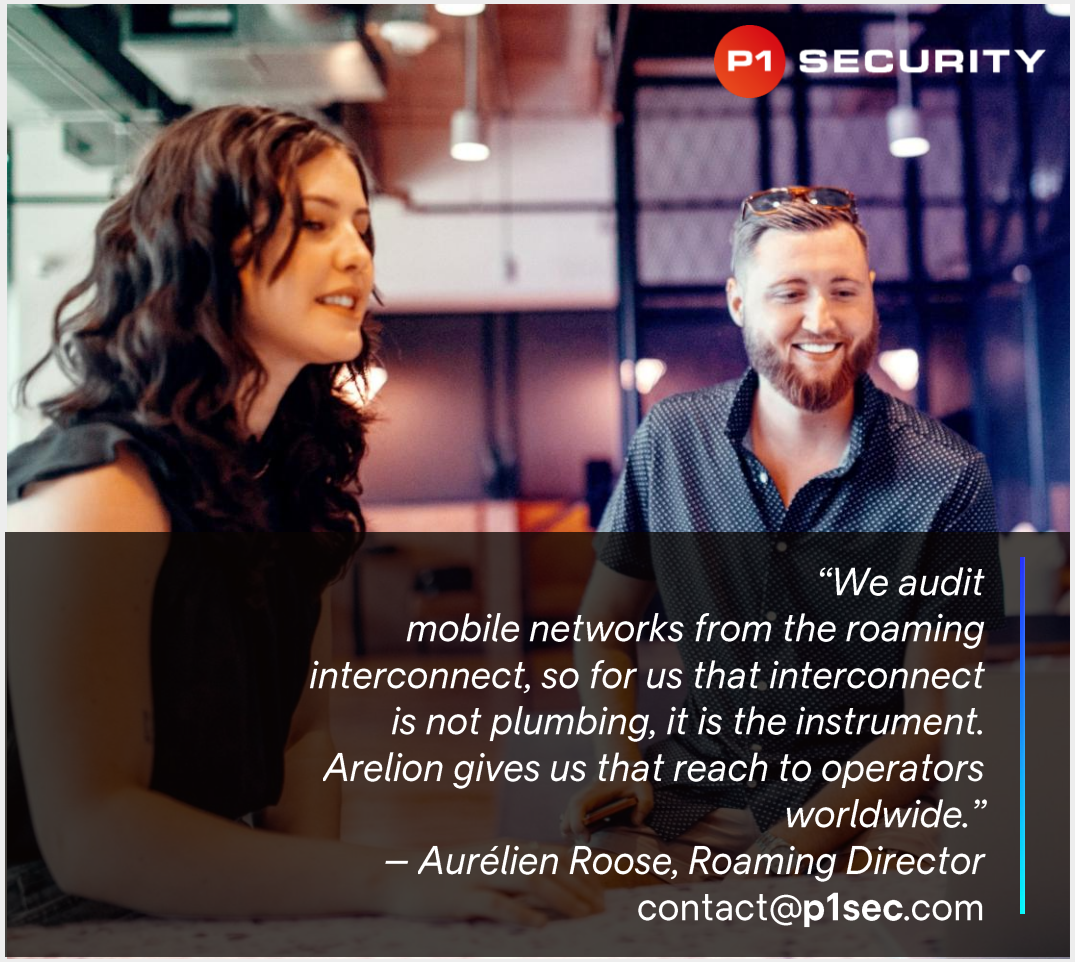
Industry
Telecom security

Geography
Global, based in France

Function
Roaming, security audits, product engineering

Business value driver
Global signaling reach from one interconnect, so P1 can audit an operator's roaming perimeter anywhere in the world with the realism its customers require.

Solution elements
Arelion IPX for mobile signaling and data roaming (SS7, Diameter, GRX) and IP connectivity for P1's infrastructure, including self-service web portal, running on Arelion's #1 IP network.



"We audit mobile networks from the roaming interconnect, so for us that interconnect is not plumbing, it is the instrument. Arelion gives us that reach to operators worldwide."
– Aurélien Roose, Roaming Director
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