



ALEC

Adaptive Lazy Evolving Compression

alec-codec.com

Deploy 10× More Sensors, Same Bandwidth

Per-message compression for air quality, traffic, noise, and weather monitoring. Reduce cellular costs and scale your sensor network without infrastructure upgrades.

THE CHALLENGE

- Thousands of sensors = massive data costs
- Cellular plans limit sensor density
- Critical alerts lost in routine data flood

THE SOLUTION

- 80–95% per-message payload reduction
- P1–P5 priority — safety alerts first
- Shared context across sensor fleets

KEY RESULTS

86%

Data Reduction

10×

Sensor Density

<1ms

Encode Latency

0

Data Loss

Ready to scale your smart city network?

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