

CELENIUM

solutions architects and systems engineers

UEI: PPK3Y4TCMBA9 | CAGE: 7FDV6 | SBA 8(a) Certified SDB | GSA 8(a) STARS III #47QTCB22D0495 | Naperville, IL | celenium.com

ENGINEERING CRITICAL NETWORKS

Secure • Smart • Resilient

SOLUTIONS HIGHLIGHTS

CELENIUM®, established in 2009, **engineers** secure, smart, and resilient networks **bridging OEM innovation with operator execution.**

- **Mission-Critical WANs:** IP/MPLS backbones for airports, utilities, and defense systems.
- **Private Wireless (4.9G/5G + Wi-Fi 6/7):** Industrial mobility for mining, manufacturing, logistics, and education campuses.
- **Optical & DC Interconnect:** SR-Linux and fabric architectures for federal and enterprise data centers.
- **Fiber Everywhere & POL:** Secure, low-latency LAN and backbone design for transport and utilities.
- **Zero Trust & Lifecycle Engineering:** Compliance-ready design, segmentation, and hardening.

"Before Industry 5.0 can think, sense, and act — it must connect."

MARKET FOCUS

- **Airports & Public Safety:** Mission-critical WAN, Zero Trust segmentation, POL + PW integration (FAA, TSA, DHS).
- **Utilities & Energy:** Grid-comms modernization (IP/MPLS + Fiber Everywhere) — IJJA/IRA funded.
- **Industrial & Manufacturing:** Private Wireless and Edge automation for mining, plants, and logistics.
- **Data Centers & Federal IT:** Secure DC fabric and optical interconnect for enterprise and agency networks.
- **Transportation & Education:** Rail (FRMCS), Smart campuses (PW + Wi-Fi integration).

WHEN CONNECTIVITY BECOMES CAPABILITY

Efficiency ↑ Predictive maintenance & digital twins

Risk ↓ Zero-Trust segmentation & industrial reliability

Cost ↓ Unified architecture & lower OPEX

Growth → Scalable infrastructure for new sites & data loads

PERFORMANCE RESULTS

- 75% time savings in network decommissioning
- 50% cost reduction in SD-WAN and HCI projects through technical due diligence
- 15% faster delivery via structured design reviews
- 100% multi-vendor compliance across 3GPP & CALEA
- Site handover cut from 6 months to 2 weeks in Oracle/AT&T migration

PRIMARY NAICS CODES

541512 - Computer Systems Design | 541330 - Engineering Services | 541519 - Other Computer Services | 334220 - Radio & Wireless Equipment Manufacturing

CONTACT

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DIFFERENTIATORS

- **Mission-Aligned, Architecture-Driven Delivery** — results-focused, standards-compliant, and scalable.
- **Trusted Collaborations** — supporting Nokia infrastructure programs and long-term Tier-1 modernization with Oracle: Sprint, AT&T, and others
- **Documentation Excellence** — clarity that drives sustainment and compliance.
- **Agile with Enterprise-Grade Depth** — responsive small business with large-scale technical maturity.
- **Recognized SBA 8(a) Advantage** — direct award and sole-source contracting capability.

Let's discuss how CELENIUM® can strengthen your next modernization initiative.

Client Testimonial – Oracle

"Ahmad is a top-tier engineer and solution architect who brings clarity, precision, and professionalism to every engagement." — **Hanan Dadon, Oracle**

NOKIA

Authorized Partner