USE CASE

Modernizing Door and Gate Access Control Communication with POTS IN A BOX®

Network transformation reduces cost, enhances security, and eliminates dependence on outdated copper infrastructure for schools, airports, office buildings, and secure facilities.

Introduction:

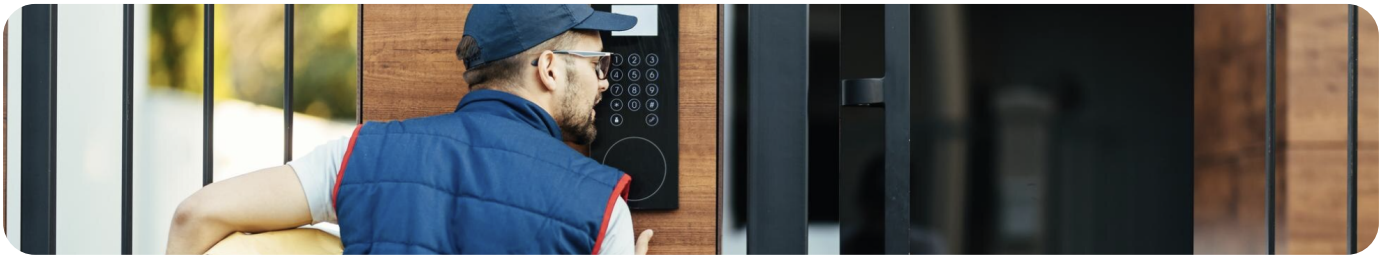
Access control systems are the cornerstone of modern security infrastructure, protecting schools, airports, office buildings, hospitals, government facilities, and corporate campuses. These systems rely on dependable communication networks to control entry points, verify credentials, manage visitor access, and respond to security incidents. As facilities expand and security requirements evolve, reliable and scalable communication infrastructure becomes increasingly critical.

Challenge:

Facility managers and security directors face mounting challenges as telecommunications providers phase out traditional copper POTS (Plain Old Telephone Service) lines. These legacy phone lines have historically connected door entry systems, gate controllers, intercoms, and emergency call boxes to central security operations.

However, the costs of maintaining copper infrastructure have skyrocketed with some organizations now paying up to $1,400 per month for a single phone line. Beyond cost, carriers are actively retiring copper networks, leading to service degradation, limited support, and product discontinuation. For access control applications, this creates serious vulnerabilities:

- Unreliable door release and gate operation during network outages
- Inability to add new access points without prohibitive installation costs
- Limited integration with modern cloud-based security management platforms
- Lack of visibility into system health and communication status
- Compliance risks for facilities requiring documented communication integrity



The Solution: POTS IN A BOX® Technology

DataRemote's POTS IN A BOX delivers a modern, IP and cellular-based replacement for traditional PSTN POTS lines, specifically engineered for access control and security applications. The CDS Series equipment is recognized by UL (Underwriters Laboratory) as an M.F.V.N (Managed Facilities Voice Network) and operates as a physical, facilities-based network on the network side of the DEMARC.

This solution seamlessly integrates with existing door controllers, gate operators, card readers, intercoms, and emergency phones, requiring no changes to endpoint hardware. Security teams gain enhanced functionality while eliminating the costs and limitations of copper infrastructure.

Benefits:

- Nationwide Coverage Reliable connectivity across all facility locations
- Significant Cost Savings Reduce monthly line costs by up to 70%
- Scalable Architecture Easily add new access points as facilities expand
- Zero Endpoint Changes Works with existing door and gate hardware
- Enhanced Security Real-time monitoring and automatic failover
- Cellular & Battery Backup Maintain operation during power outages
- Cloud Management Centralized visibility, control, and reporting
- Compliance Ready Meets industry security and safety standards

Ideal Use Cases:

- Schools & Universities: Main entrance controls, parking gate access, emergency call boxes, visitor management systems
- Airports & Transportation: Secure area access, perimeter gates, employee entrances, emergency communication stations
- Office Buildings: Lobby turnstiles, garage gates, executive floor access, after-hours entry systems
- Healthcare Facilities: Pharmacy access, restricted unit doors, staff-only areas, visitor intercom systems
- Government & Military: Checkpoint controls, secure facility perimeters, classified area access, vehicle barriers
- Multi-Tenant Properties: Building access, parking structures, amenity area controls, tenant-specific zones

Regulatory Considerations:

- UL-60950-1 Prescriptive Standard
- UL 62368-1 Performance or Hazard Based Standard
- AT&T, Verizon, T-Mobile, FCC, PTCRB certified
- NFPA 70-2014, 72-2013, 75-2013 compliant
- 933 Test compliant for E-911 verification
- Conforms to ANSI and IEEE C2-2012
- ADA compliant for emergency communication systems