

Create Vehicle Analytic Data in the ACS System

emsProductFocus23-SpectreMineTrucks



Boost Mine Gate Safety & Efficiency – No More Close Calls or Downtime 🚚 ⚠️

Heavy trucks rolling through the gate, pedestrians and staff in the blind spot – it's a recipe for disaster. Plus, delayed tire changes, poor maintenance tracking, unrecorded diesel fills, and no real vehicle data are costing you big in productivity and repairs.

The Key Concerns:

- Pedestrians/staff at risk: Trucks approach without warning – serious injury or worse.
- Excessive downtime: Slow tire replacements kill output.
- Messy records: Hard to track maintenance, tire life, or vehicle performance.
- Fuel tracking gaps: Unlogged diesel refuelling hides waste and theft.
- No smart vehicle insights: Can't spot issues early or optimize operations.



EMS's Smart Mine Gate Upgrade with STid Spectre Readers We install **STid Spectre Readers** (with 4 antennas: 2 IN, 2 OUT) to automatically spot trucks, tires, and direction – then blast real-time audio alerts via Commend speakers. One system handles safety, tracking, maintenance, and fuel – all automated.

How It Works (Automatic & Reliable):

- **Long-range detection:** Spectre reads UHF RFID tags from up to 8 meters – catches trucks early.
- **Full tagging setup:** Two identical tags per vehicle + extra tags on each tire – tracks truck and tire condition separately.
- **Direction-aware alerts:** Readers detect IN or OUT → Commend speakers play pre-recorded voice messages (e.g., "Truck approaching from inside" or "Truck entering gate").
- **Auto data capture:** Every tag read logs into your Access Control System (ACS) – vehicle ID, tire IDs, timestamps, location.
- **Targeted alerts everywhere:** Gate warns pedestrians, diesel pump logs refuelling, maintenance bay flags tire/vehicle issues.
- **Instant reports:** Auto-email transaction summaries to control center – real-time visibility.

Key Features That Deliver:

- OSDP/Wiegand compatible: Add to your existing panel – treat tags like cards, done in minutes.
- Long-range UHF RFID: Reliable 8m read range for fast-moving trucks.
- Comprehensive tagging: Vehicle + individual tire tracking for precise maintenance.
- Real-time audio warnings: Voice alerts boost awareness instantly.
- Detailed reporting: Distance/hour/shift/day, tire lifespan, refuelling logs, days out of rotation, loader/driver efficiency.
- Automated emails: All events sent straight to your team – no manual chasing.



Why This Changes Everything:

- **Life-saving safety:** Audible alerts give pedestrians and staff seconds to react – drastically cuts accident risk.
- **Less downtime:** Early tire/vehicle alerts mean proactive replacements – trucks stay running longer.
- **Accurate records:** Automated logs eliminate guesswork on maintenance, fuel, and performance.
- **Fuel accountability:** Every diesel fill tracked – spot waste or theft fast.
- **Data-driven wins:** Reports show exactly where to optimize – better efficiency, lower costs

Typical Gate System – List Price

1 x STid Spectre Reader with 4 Antenna (\$6000)

2 x Poles

2 x Commend AFLS10HH POE Speakers (\$800 each)

Additional

1 x Power

1 x STid UHF Metal Tags (2 per Vehicle - \$25 each)

1 x STid UHF RFID Tag (Per Tyre - \$10 each)



1 x 2 Door ACS panel from resident system & data connection to host system

Option

2 x Auto Gates

Stop risking lives and losing hours – get a mine gate system that's proactive, automated, and built for heavy-duty ops.

Ready to make your gate safer and your fleet more productive?



Contact EMS today to learn more about STid Spectre Readers + Commend audio integration – and bring real safety and efficiency to your mine gate.

Safety first. Downtime last. Insights always. 🚧👤🔊

