



Access Control at Cherepovets Steel Mill

Large-scale automated vehicle identification system

Summary

The steel mill in Cherepovets is a part of Severstal's Russian steel segment and is the second largest steel mill in Russia with more than 50.000 employees and production that accounts for about 10 % of all Russian steel. The daily operation is characterized by a large volume of road and rail traffic entering and leaving the mill. With a new Automated Vehicle Identification System (AVI) the customer improved the overall traffic throughput and area security at the same time.

Business Benefit

The Cherepovets Industrial complex is situated at the crossroads of iron ore, coal and steel flows. Main rail and automobile roads and Mariinskay river system are situated nearby and that is why proper organization of vehicle control system is inevitable. The first challenge is the large workload of goods traffic creating long queues of trucks at the gates to enter the industrial area. The second challenge is to implement a high security level standard for goods control, so only authorized vehicles should be permitted for entry. Also there are different access zones for cars and trucks within the industrial area.

Solution

Cherepovets industrial complex chose the TagMaster long-range RFID system for automated vehicle identification. Readers were installed at 11 gates, both entrances and exits for secure access control. Every vehicle was equipped with TagMaster MarkTag, easily mounted inside the windscreen. TagMaster readers were connected to high-reliability Apollo controllers provided by AAM Systems. With flexible software, powerful controllers and long-range readers in combination with a CCTV system, a high level of security is absolutely guaranteed.



Conclusion

Apollo access controllers and Tagmaster long-ranged RFID readers made the vehicle identification process when entering and exiting complex territory easy and rapid. Equipment and goods are completely safe as only authorized vehicles are permitted to entry the territory. TagMaster readers allowed the construction of a convenient and safe Automated Vehicle Identification (AVI) access control system.

Products used:

Apollo AIM-4SL, AAN-100
TagMaster LR-3, LR-6 Passman
TagMaster MarkTag Classic

