

Control Technologies, Incorporated



Virginia Advanced Traffic Management ATC Firmware

Control Technologies, Inc. recently integrated IP based ATC Firmware for the Norfolk Midtown Tunnel, 164, and Rt. 58 to provide Device Monitoring and Control, Ramp Metering, Vehicle Classification, Detector Monitoring and Tunnel Booth Control.

This system is designed to detect overheight vehicles prior to entering the Norfolk Midtown Tunnel and provide notification to VDOT prior to the truck entering the tunnel. The system automatically controls overheight detectors, roadway gates, alarms, roadway flashers, cameras and VMS signs. All the controllers operate using IP based protocol over a Sonet communications backbone.

The controllers automatically capture vehicle counts, speed and occupancy and periodically send it back to the central system. The system performs vehicle classification into 20 classes approved by FHWA by using axle counts, speed and vehicle length calculations.

The VDOT operators in the Booths receive the alarms and process the overheight vehicles for turn around or clearance into the tunnel. The use of VMS signs, flashers and traffic signals provide the operators with the ability to close the tubes at any time.

This project combined the functionality of device control, detector monitoring, vehicle classification, booth control and ramp metering into a single controller. Previous installations for VDOT have required separate controllers to perform each function. Also, the integration of an Ethernet card into the controller provides expanded communication ability to legacy controllers.



CTI provides IP Based 170 ATMS Firmware for VDOT

CTI has installed this software in other parts of the state including the Northern Virginia Smart Traffic Center. Those installations included the Ramp Metering, Detector Monitoring, Vehicle Classification and Incident Detection on I95, I395, and I66.



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