RTMS®

Case Story

RTMS Making History: 10 Years and Counting

Ten years ago, a cosmopolitan city in the Middle East equipped their roadways with RTMS X3 and G4 radars to collect data to understand how their roadways are performing and those sensors are still in operation today.

Today, they continue to use RTMS and have implemented eighty RTMS Sx-300 with integrated IP interface. The Sx-300 offers the best lane detection capability by providing 12 lanes of simultaneous detection, reporting, and traffic data.

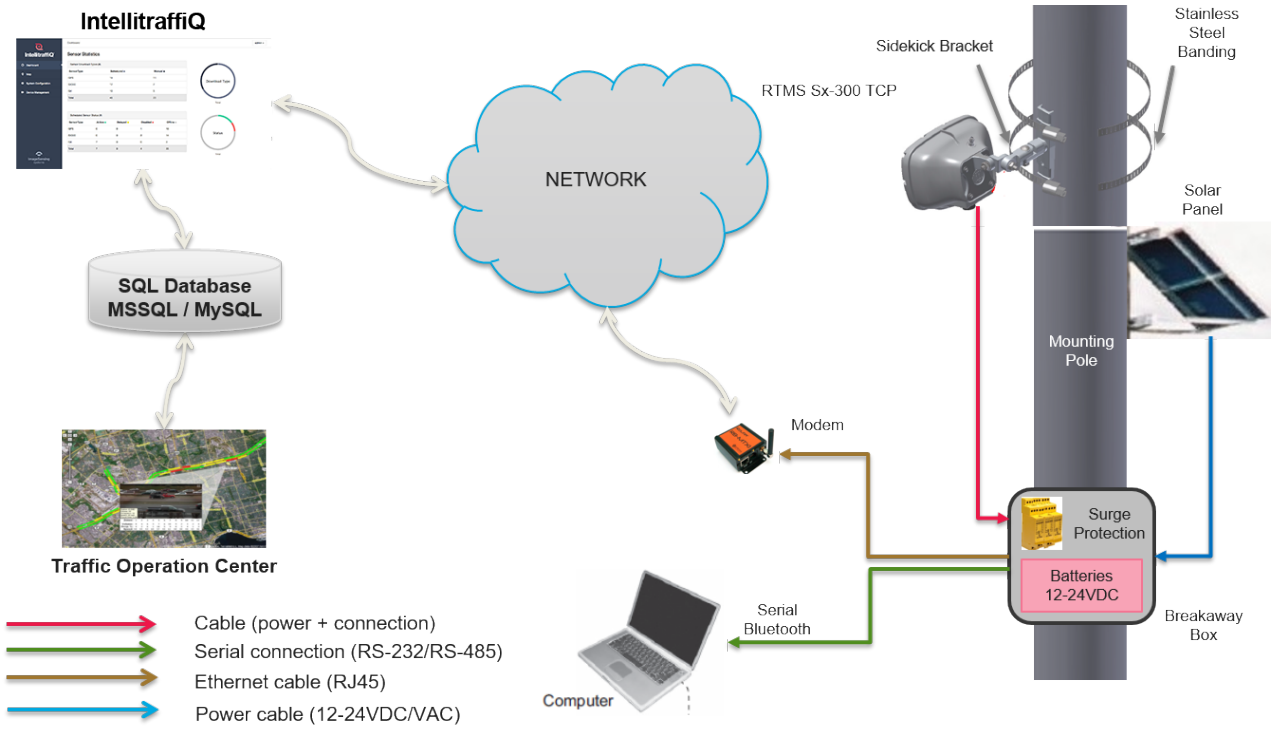
> Installed 80 RTMS Sx-300 radars with integrated IP interface and traffic management software

The new Sx-300 radars allows them to easily implement them into their existing radar system seamlessly. The Sx-300 has a low power comsumption of less than 4 Watts, which allows for solar power operation. In addition to adding radars to their network, they also deployed a centralized traffic management suite. This enterprise-level software provides real-time traffic measurement and data collection and is capable of monitoring traffic in hundreds of locations.

This traffic management software collects all the traffic data from all the RTMS sensors deplyed in their systems and stores it in one single location. This allows traffic engineers to monitor the health of their transportation infrastructure. They are one click aways from statistical data that can be used to measure lane capcity, congestion levels and real-time journey time. The software has a customizable dashboard which allows users to quickly look at how their system is working. The

RTMS Sx-300 unit installed with a solar panel on the side of the highway.

ImageSensing systems



city can set up alerts, notifications and create customizable reports. Here are some examples of reports provided to the city.

- Speed study report
- Classification study report
- Volume studies report
- Volume study report by hour

Real-time traffic can be viewed on the GIS map for an entire city or can be zoomed in to a specific area or location. All the information is used for providing data to the city.

> City planners need accurate traffic data to optimize the flow of traffic through their city.

City transportation planners now have access to accurate data and are able to create customized reports, allowing them to better plan future transportation projects so that they can optimize their city. This Middle Eastern city is making major decisions for planning, designing and implementing the infrastructure of the city based on data coming from the RTMS Sx-300.

The efficiency of existing transportation networks is measured by comparing traffic at specific points or location. In particular, access points where current traffic volumes are different from historical data. This provides city managers with the level of efficiency as well as validation of the economic benefit brought by road improvements.

City planners use traffic data for designing and improving new and existing junctions. They determine the need to implement traffic control measures like synchronization and coordination of traffic signals and one-way roads.

Smart city planners use traffic data in multiple ways. They use the data to forecast future trends for traffic flow changes and traffic distribution. This is key for understanding the flow of traffic and optimizing the existing roadways. It also always the city to understand the economic and social implications of the traffic flows.

Over the years, Image Sensing Systems established a tradition in producing premium and reliable radar detection products. Today, the RTMS Sx-300 is a all-in-one concept that combines a high-resolution radar and a variety of communication options in a single enclosure. The Middle Eastern city has been using RTMS products for over ten years and see the benefit of having a reliable, accurate product.

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