



Service and digitalization keeps Brightline on time and growing

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Travelers arrive on time and relaxed when they take Brightline to Orlando and destinations throughout South Florida. The higher speed passenger rail service relies on Venture trainsets built and maintained by Siemens Mobility to give people a smarter way to travel the Sunshine State. Comprehensive maintenance performed by highly skilled Siemens Mobility technicians, who use proven solutions and the latest in digital monitoring and analysis, helps keep the fleet running on schedule every day.

Client Objectives

Brightline envisioned offering the ultimate passenger experience when it partnered with Siemens Mobility on the custom design of its Venture trainsets. It also wanted to ensure on-time travel to make the train a real alternative to car trips bogged down by Florida's intense highway traffic.

When it debuted its service in South Florida in 2018, Brightline recognized that a cutting-edge maintenance program would be crucial to keeping its trains on schedule. It would also be necessary to keep all of its trainsets in running order during service hours. To ensure this high level of availability, Brightline signed a 30-year agreement to make Siemens Mobility its maintenance partner for the long term.

With the 2023 expansion of service to Orlando, Brightline continues to fulfill its promise of bringing fast and efficient higher speed rail to the United States. The maintenance program from Siemens Mobility grew and modernized to ensure the success of Brightline's new route.

"This is a very modern train. Everything is being monitored and data is being collected on anything that is happening, be it a normal event or fault."

Tom Rutkowski
VP of Engineering and
Chief Mechanical Officer
Brightline

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The Maintenance Program

To meet the need for 100-percent availability, Siemens Mobility developed a full-service maintenance solution that is designed to eliminate expensive, unplanned downtime and get more mileage from fewer trains. When daily service ends, Siemens Mobility technicians perform a carefully orchestrated routine of inspections and maintenance activities. The computerized maintenance management system (CMMS) shows each technician specific activities to be completed. Since the maintenance window can be as short as five hours, activities are divided over several days in a way that prevents equipment failures.

Remote monitoring is another enabler. Sensors deployed throughout each train monitor current equipment condition and compare it against scans of the ideal condition. Analysis helps determine when service is required. A mechanical desk provides another level of support. Technicians are on call to immediately answer questions from the train engineer.

Service Expansion

When Brightline expanded service to Central Florida, its maintenance program evolved to meet the challenge. Siemens Mobility opened a new \$100 million state-of-the-art maintenance facility in Orlando. Designed to maintain maximum fleet availability for Brightline, it can service 16 trains at one time. There is also a full-service truck shop where trucks are disassembled, cleaned, and rebuilt. Connecting the truck shop to the maintenance track is a 25-foot drop table, which helps Brightline to rapidly swap trucks out and back into service.

Brightline's maintenance operations are embracing digitalization with Siemens Mobility's Railigent X. An IoT solution, Railigent X provides critical analytics that help rail operators and their maintenance teams better understand and utilize the data generated from trains.

Brightline has also adopted the S3 Passenger system offered by Sqills, a Siemens Mobility subsidiary. The S3 Passenger manages inventory, ticketing, and reservations. Its adoption allows Brightline to optimally manage and maximize seat utilization, for higher capacity and yields.

Customer Results

With its fast, on-time, and trouble-free service, Brightline continues to win converts to the benefits of higher speed rail and gain national attention. Beginning with five trains in South Florida in 2018, the service has expanded 200 miles north to Orlando. With speeds up to 125mph, dependable service from Brightline continues to connect Florida for business and leisure travelers alike.

About Brightline

Brightline is the first privately funded passenger rail system in America in over a century. Brightline is designed to reinvent travel and take cars off the road by connecting city pairs and congested corridors that are too close to fly and too long to drive. Providing fast, efficient, hospitality-driven transportation featuring the latest in customer-friendly amenities, Brightline operates in Florida between Miami and Orlando with plans to expand to Tampa.

About Siemens Mobility

Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems, intelligent traffic systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability.

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