





The Right Testing System

Positive Train Control (PTC) has placed a premium on communications and signaling testing, as microprocessor-based software systems have increased in scale and complexity, and rendered traditional, highly manual testing processes insufficient. Princeton Consultants developed the Signal Application Testing System (SATS), a robust simulation tool that improves and substantially automates rail system testing. SATS is now the preferred testing solution for hundreds of engineers, managers and designers.

Improved Testing and Troubleshooting Accuracy

SATS automates many tests and finds errors that may have been missed during manual assessment. SATS users find almost all software errors during simulation. It allows engineers to quickly find the source of any logic errors that are observed during train operations.

Reduced Field Time

SATS users find most errors in the office, not in the field, and they quickly locate problem areas. Testing an entire cutover or project at once is straightforward, saving valuable time.

Defined Processes, Full Subdivision Scale Up

With SATS, test managers instill defined processes, and better manage a growing software portfolio. The logic testing of full, 100+ location subdivisions is straightforward, giving engineers a unique and in-depth system level view of a signal system in a single SATS file.

Simplified, Accelerated Training

Through display of aspect progression, demonstrated train movement, and logic equation structure, SATS enables new or inexperienced signal engineers to quickly understand a signal system. Typically, new hires are performing simulation testing within days of being hired.

Prompt, Expert Support

Princeton Consultants' SATS team responds promptly to user questions about the software—and to broader issues about communications and signaling.





PRINCETON CONSULTANTS

Information Technology and Management Consulting

We know RAIL SYSTEMS. We know IT.
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Princeton Consultants blends software development, data science and management consulting to help railroads and other transportation companies improve asset utilization and operational effectiveness. Founded in 1981, we have partnered with Class I railroads on some of the industry's most challenging initiatives. SATS is one example of our trailblazing work in the following areas:

Positive Train Control

- PTC communication tools and on-board management systems
- Systems integration, best-practice operational processes consulting, and disaster recovery/business continuity.

Rail Car Fleet Management

Operational systems development and process improvement to manage large rail car fleets.

Communications & Signals

- Custom software solutions to improve process accuracy
- Systems management design and implementation

Load Planning

Train planning system development, based on proprietary optimization technology.

Rail Car Telematics

Driving the adoption of IoT devices on rail cars as the technology platform designer for RailPulseSM, the joint venture of Norfolk Southern, GATX, Genesee & Wyoming, TrinityRail and Watco.



***Contact us for more
information and a demo.***

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