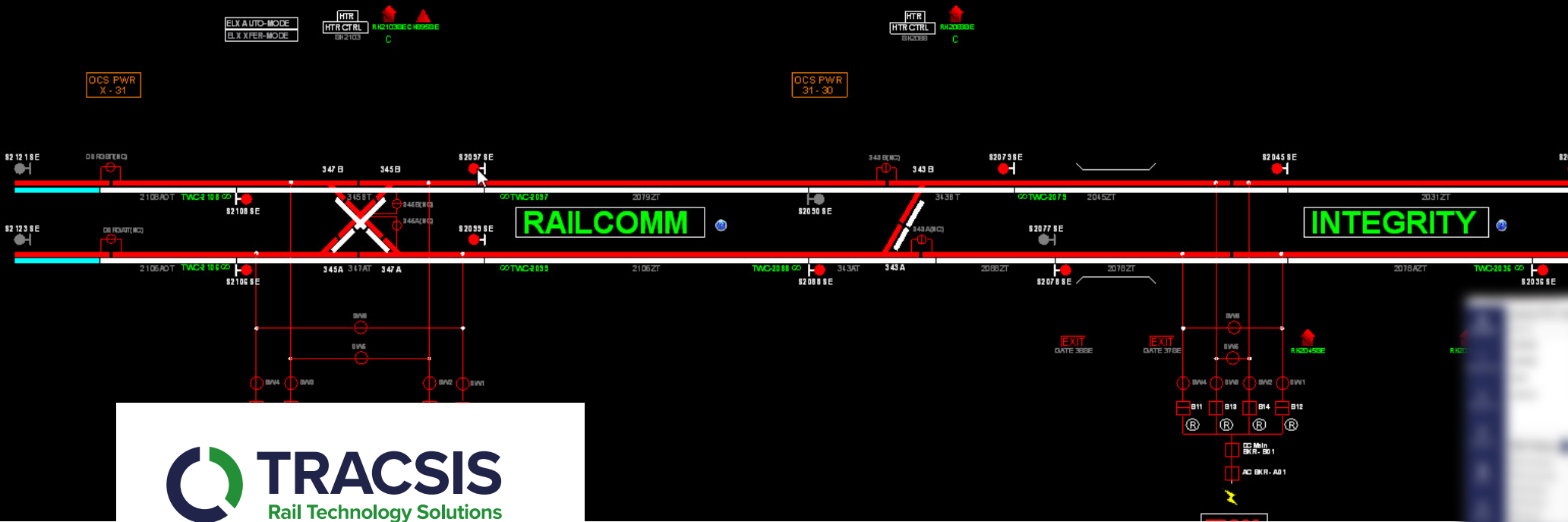




DOC Dispatch

By Tracsis

Technology makes it possible. People make it happen.



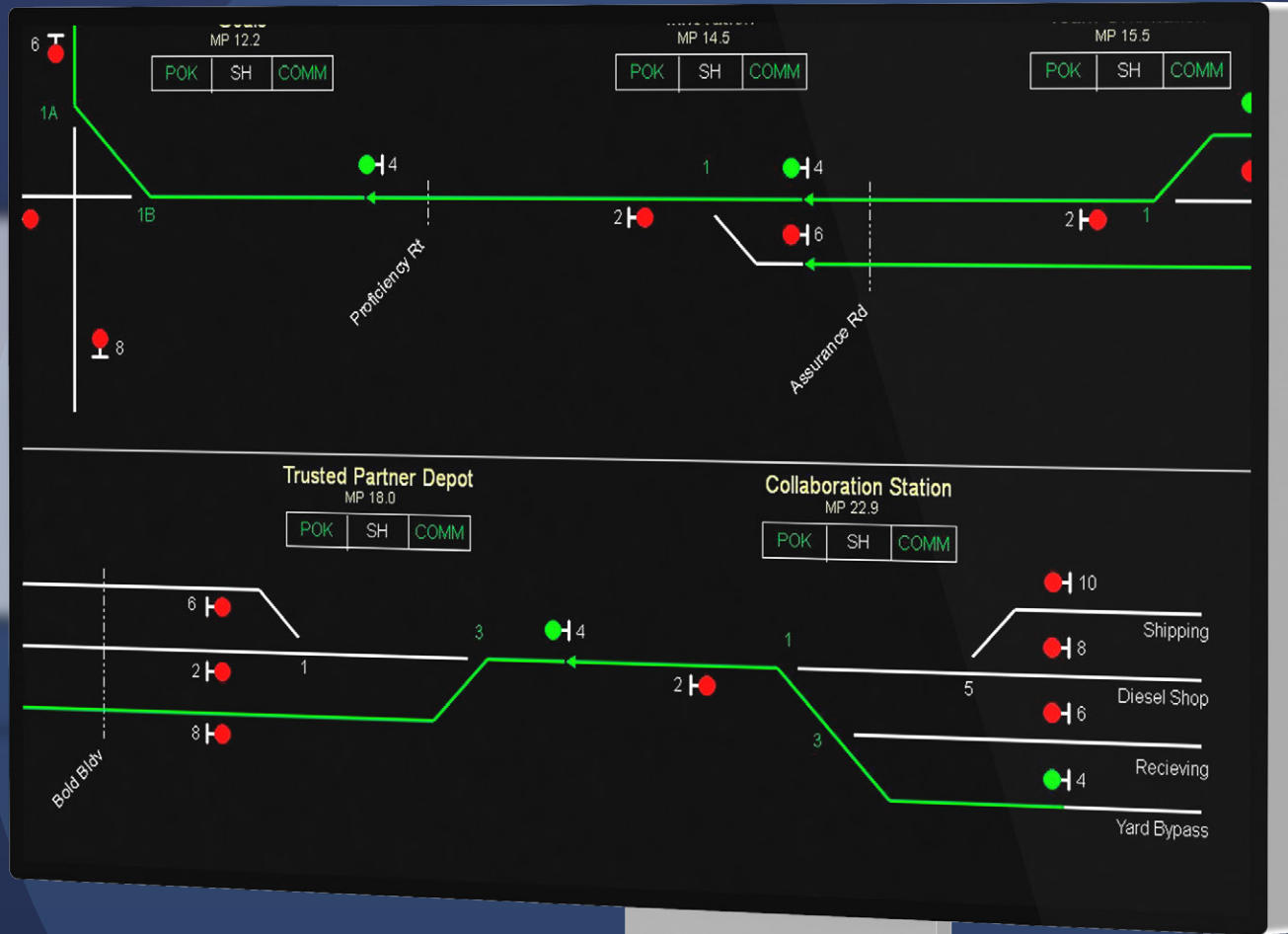
The Tracsis Dispatch System is the industry leader in computer-aided dispatching and yard automation, keeping complex operations on track while greatly reducing the risk of human error.

‘DOC® Dispatch’ steers today’s fast-paced and competitive transportation markets with streamlined efficiencies and innovative, responsive technologies for all railroad control applications.

Primed to prioritize network safety, velocity, timeframes and resource management, DOC® Dispatch enforces a consistent ruleset to increase safe train movements and integrates effective resource planning to enhance railroad productivity either from the cloud or on premises.

Tracsis’s DOC® System seamlessly combines different trains, rulesets and territories through one comprehensive platform covering all your mainline train control needs for ultimate flexibility and efficiency. DOC® has the capability to easily integrate into third-party platforms and databases, increasing your ability to share mission-critical information across your organization.

Our solutions present a full-spectrum platform empowering your organization through connected systems and data-backed insights.



This is an example CTC user interface drawing, showing entrance exit routing in effect.

Centralized Traffic Control (CTC)

Specifically designed to improve safety, accuracy and efficiency with a user-friendly graphic interface, The Tracsis DOC® CTC application is the recommended, dependable traffic control system for dispatchers on signaled territory.

This easy-to-use system allows mainline dispatchers to perform safe, proactive tasks that help manage dispatcher transfer processes, supporting multiple railroad rulesets and the management of track protections.

Essential CTC features

Enhancing mainline CTC applications with:

- > Individual switch control
- > Route stacking
- > Route slotting and fleeting
- > Entrance/exit (NX) routing
- > Restrictive Aspect Indication
- > Return-to-Train
- > Switch and track blocking



Key benefits of CTC

Available for both freight and passenger railroad operations:

- > Dispatch all types of trains and services from one platform.
- > Integrate SCADA capabilities into your CTC system.
- > Control and monitor wayside signals, power devices, substations, heaters, gates, bridges and other mainline/station infrastructure.
- > Select the best route based on catenary or third rail power availability.

CTC works with you

DOC® CTC interfaces with many types of wayside interlocking controllers to provide functions such as signal clearing, train tracking, switch/track blocking and other train routing operations.

With an advanced architecture, CTC combines effectively with other DOC® applications for mainline train control without the need to purchase additional infrastructure.

As an added benefit, the system is entirely future-set with the integrated ability to accept new methods and protocols with minimal modification.

Track Warrant Control (TWC) & Direct Traffic Control (DTC)

Tracsis provides non-signaled territory dispatching under the GCOR, CROR and NORAC rule sets. As the industry's most advanced dark territory dispatch system to date, TWC delivers full-conflict checking and automatic completion of warrants, speed restrictions and service alerts for increased safety and error reduction.

Key features of TWC & DTC

This application includes user-friendly solutions, such as:

- > Graphical user interface (GUI) to effectively manage train resources.
- > Easy and safe track warrant supply with point-and-click and auto-fill functionality.
- > Validation and conflict-checking processes.
- > Digital track warrant for work crews.

Tailored to your organizational needs, actions can be customizable and based on your specific rules of operation to easily handle multiple rulesets. This is ideal for railroads that operate different rules across different subdivisions or territories.



TWC works with you

TWC can be used in conjunction with other DOC® applications for mainline train control, without the need to purchase additional infrastructure.

Positive Train Control (PTC)

DOC® fully supports dispatching PTC-enabled railroads using either ITC or E-ATC. PTC enables dispatchers to enter mandatory directives directly into the dispatch system that are automatically integrated into the office segment of PTC.

Interoperable Train Control (ITC) Back Office System (BOS)

Independent, interoperable and train control-compliant, Our BOS is compatible with third-party ITC PTC systems. With a user-friendly interface, it can be implemented into any CAD (computer-aided dispatch) or railroad management information system.

Enhanced Benefits

- > Easy system interaction through CAD workstation.
- > Mandatory directives (including speed restrictions) entered into CAD System via GCOR-based forms.
- > Speed restriction information transmitted to the BOS and other segments of PTC system.
- > The Tracsis BOS bridges CAD system and Interoperable Train Control Message (ITCM) system.

The Tracsis ITC BOS is capable of receiving information via the CAD system (as defined in AAR K-I 4.4), such as consists, subdivision lists, bulletins and mandatory directives.

In addition, it can interface with a Track Data System (TDS) to receive information about railroad fixed assets, including signals, tracks and crossings.



Enhanced Automatic Train Control (E-ATC)

Another key example of our PTC seamless functionality is E-ATC, creating a PTC overlay to an existing ATC (automatic train control) system with innovative features that deliver real-time operational benefits.

E-ATC leverages the underlying cab signal system by sending cab signal override speed codes that are associated with the speed restriction and mandatory directive forms the dispatcher filled out using the CAD system. This is done automatically when the forms are filled out and does not require a separate system to enter speed code overrides.

DOC[®] provides the Office Segment of the E-ATC PTC system. The PTC user interface through the DOC[®] system allows the operator to issue common rule set forms to request PTC temporary speed restrictions and mandatory directives.

E-ATC PTC System Benefits

Proven experience with PTC, Integration and Wayside results in:

- No manual input as PTC system automatically integrates with dispatch workflow.
- No need for second TSR console.
- Simplified training-single system.



Tracsis is the leading provider of software-based rail automation. Contact us to find out how we can help your company save money, drive efficiencies and improve staff safety.

 +1 585-377-3360

 info@tracsis-us.com

 1387 Fairport Rd Building 900A,
Fairport, NY 14450 USA

