Wabtec's Digital Solutions

LOCOTROL® Technologies

LOCOTROL Quick facts:

- 50 years of operating experience
- ~20K LOCOTROL DP systems deployed in 17 countries; both diesel and electric locomotives; ~700 RCL systems deployed in 3 countries.
- Interfaces with most every type of braking system and locomotive control system
- Serves as the Automation Control Engine for advanced train automation

Benefits, Outcomes

- Enables longer, heavier trains; increases train hauling capacity
- Increases throughout, efficiency; reduces cycle times
- Improves train handling and reduces break-in-twos
- Faster starting, stopping, brake pipe charging
- Reduced friction in curves; provides fuel savings & reduces rail/wheel wear
- RCL: Improves productivity for yard shunting, mainline set-outs
- Tower Control: Increases efficiency at mines and ports

Boost productivity, optimize distribution of motive power and brake control within an entire train.

LOCOTROL® Technologies is comprised of three core products developed from a common digital platform.

LOCOTROL is a proven control and communication system that allows a single operator to control multiple sets of locomotives in the same train, link from a remote location, or control a locomotive utilizing an handheld device.

LOCOTROL eXpanded Architecture (XA)

LOCOTROL XA, the next generation platform, provides a host of enhancements - increased processing capacity & ethernet connectivity, dual radio receive diversity, integrated HOT & HOT/EOT message repeater, enhanced diagnostics and many other productivity applications like Road RCL, over-the-air software updates and an ability to send DP messages over ITCM (PTC) network.

LOCOTROL XA provides significant benefits like reducing DP communication losses and associated train delays, and enabling accurate troubleshooting, and better decisions about the trains.

Current customers can realize significant benefits from upgrading to the newer LOCOTROL XA platform.

Remote Control Locomotive (RCL)

RCL enables an operator on the mainline track or in a yard to remotely control a train for scenarios such as shunting, setting out a bad order wagon, holding a train on the mainline in a parked state, etc. The operator in the cab or on the ground controls train via a handheld operator control unit. RCL increases automation and enables efficient train operations.

Tower Control

Tower Control allows an operator situated locally or at remote operation center to remotely control a train during loading and/or unloading operations. Tower control increases efficiency and improves labor productivity.