PROTECT OTHERS PROTECT YOURSELF

2m

SOCIAL DISTANCING

INFORMATION

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PELIGRO DE INUNDACIONES

LBFoster®

Total Track Monitoring
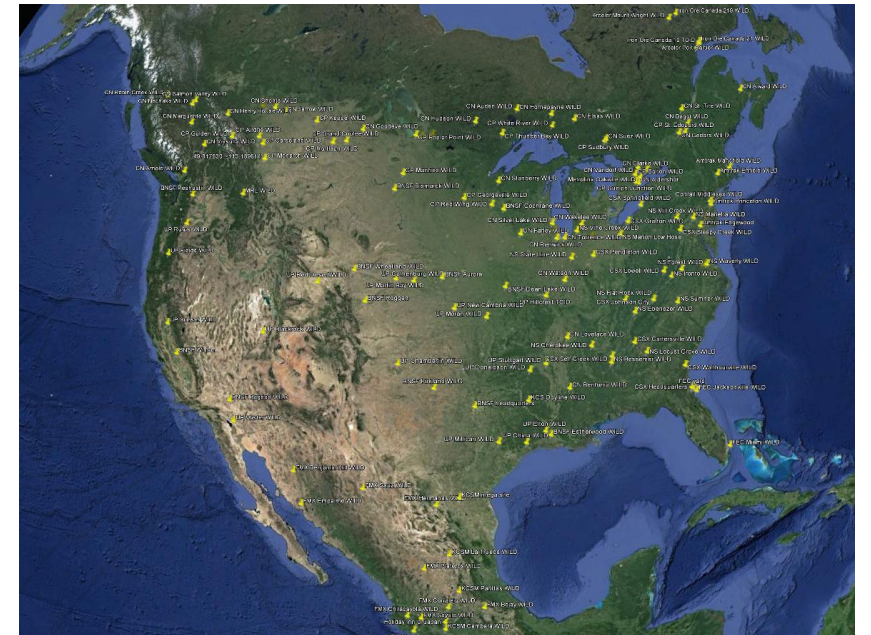
WILD

Wheel Impact
Load Detector

by **LBFoster**

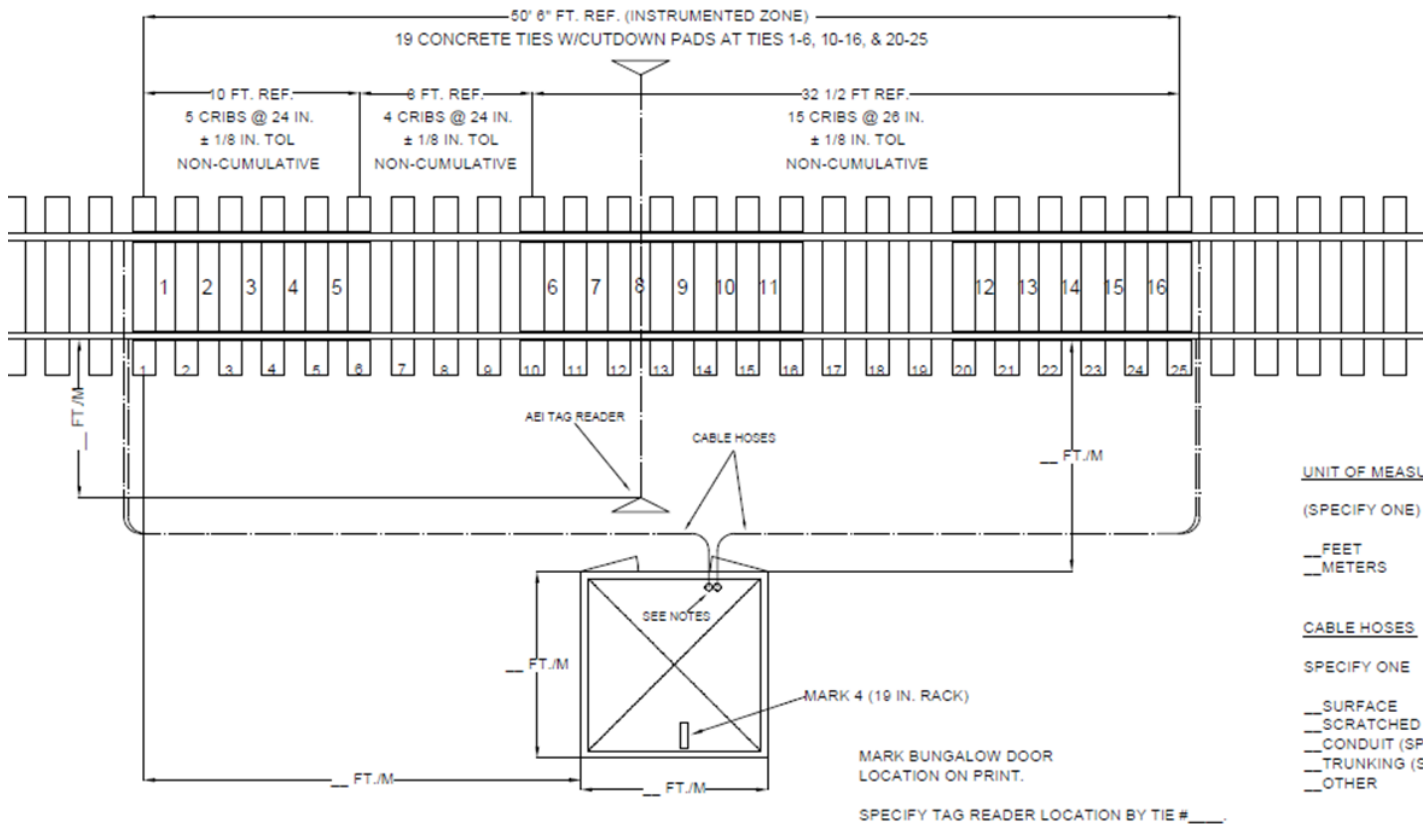# WILD

Wheel Impact Load Detector

History

- Created by Salient in 1984
- Served as the basis of the AAR Rule 41
- 250 installation to date

Typical 32 Channel Layout

Specifications
- Operating Range: 30-180 mph
- Resolution: 10 lbs
- Measurement Zone: 50'6"
- Power: 12/24 VDC @ ~4 amps
- Bungalow Operating Temperature: 32-131° F

Capabilities
- Nominal loads/peak impacts
- Dynamic load
- Ratio (peak/nominal)
- Axle load
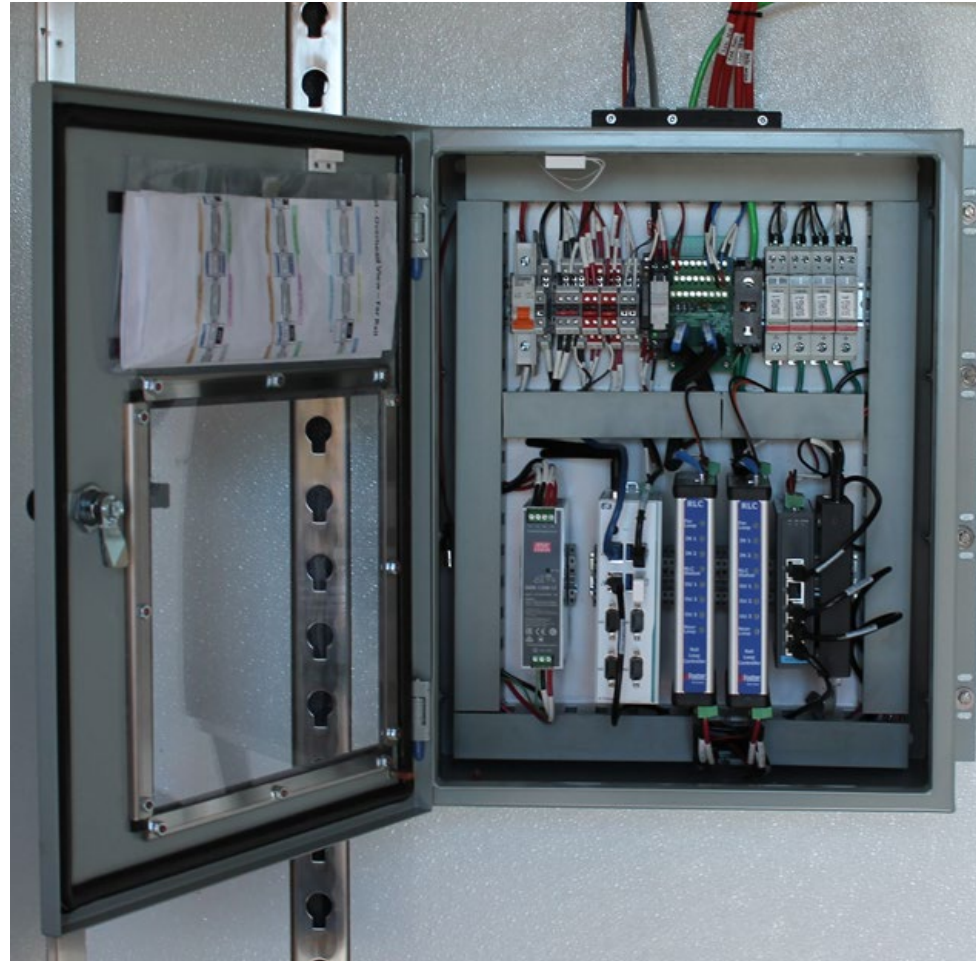- Train Speed
- Train Length
- Site Tonnage

Detection
- Wheel Defects
- Load Imbalance
- Car Overload
- Hunting Forces

Customer Quote

"The talker circuit at the WILD stopped the train, and quite likely prevented a derailment."

WILD Mk-IV

LBFoster®

WILD Mk-III

WILD Mk-IV

WILD Mk-IV is a platform for the future.

WILD Mk-IV
- FEPs on rail
    - More accurate data
- Fiber optic data transfer
- Modern electronics
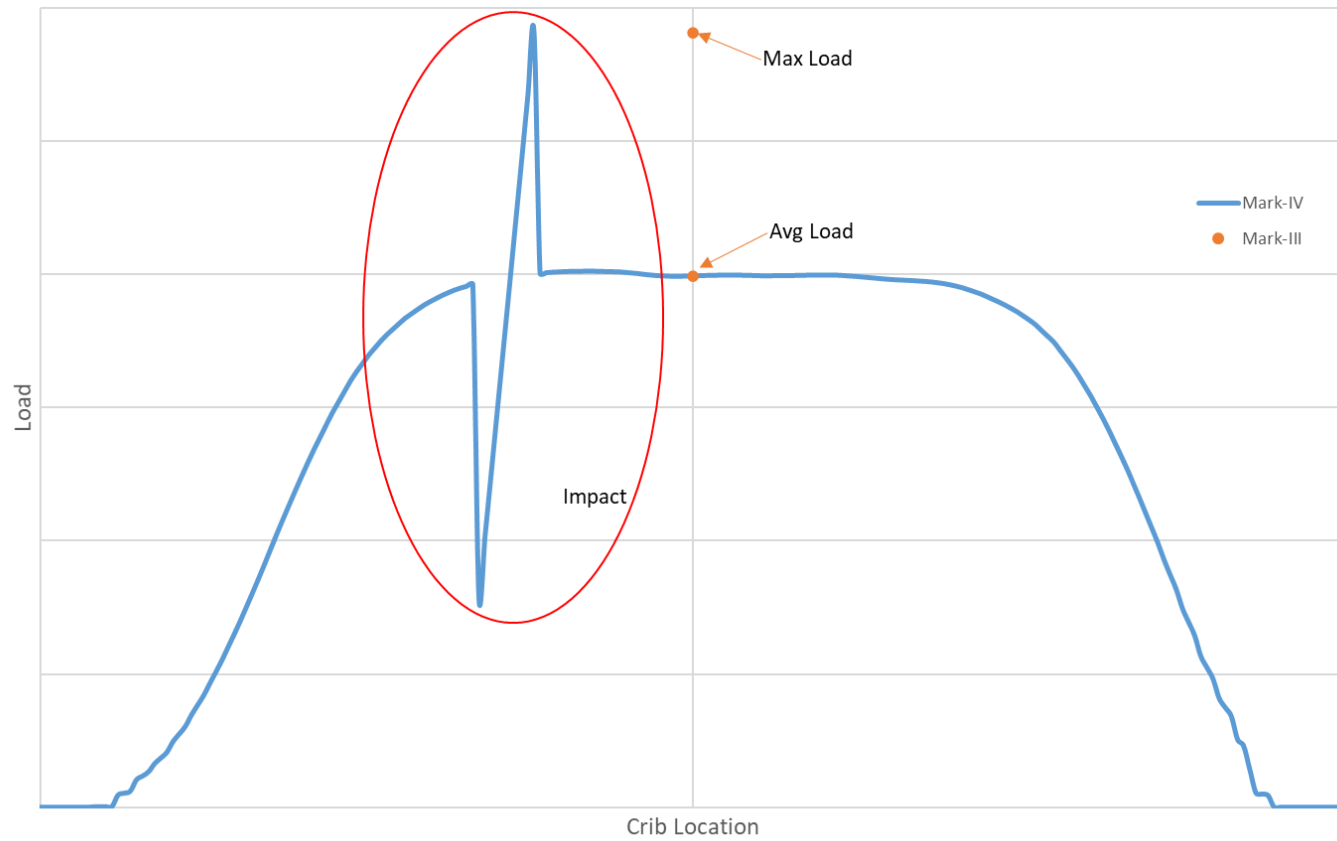- Redundant quick disconnect hoses
- Site Health Monitoring

WILD Mk-IV

WILD Mk-III

WILD Mk-IV

WILD Mk-IV

WILD Mk-III vs Mk-IV Data

The WILD Mk-IV greatly increases the amount of accurate data collected by the detector.

Future Functionality

- Wheel load curves
  - Build custom analytics
- Truck moment
- Normalize impacts based on speed, weight and temperature for predictive maintenance
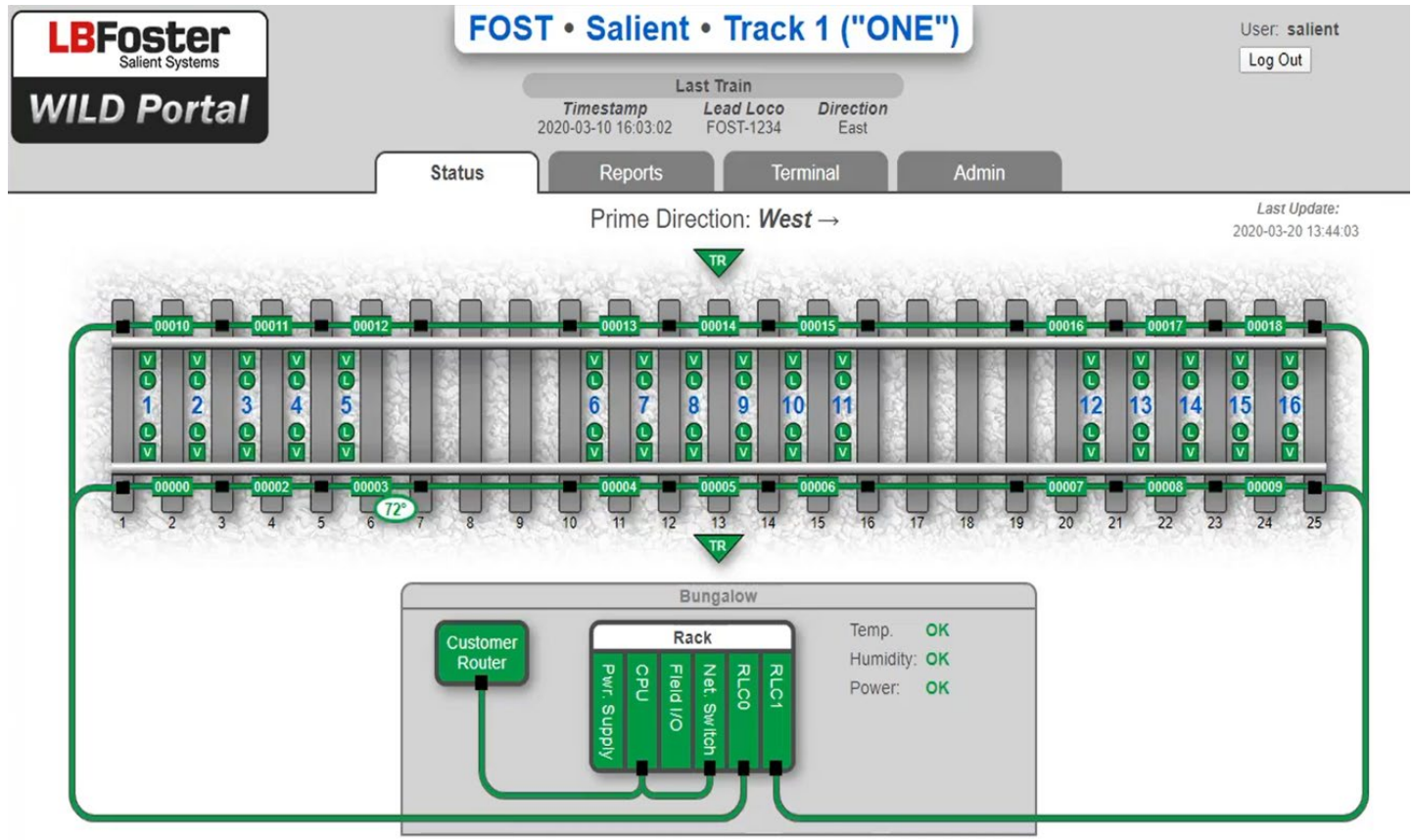
WILD Mk-IV

WDMS

WDMS is a live up-to-date graphical web-based user interface for WILD.

Features
- Site Health Monitoring
  - Recommended corrective actions
- Displays reports
- Alarms
  - Thresholds
- Potential to build custom analytics

Site Health Monitoring

Site health monitor is new addition to WDMS for WILD Mk-IV.

Site Health Monitoring

- Updates live for every train pass
- Circuit by circuit level data
- Ballast/Rail temperature ready
- Site stability
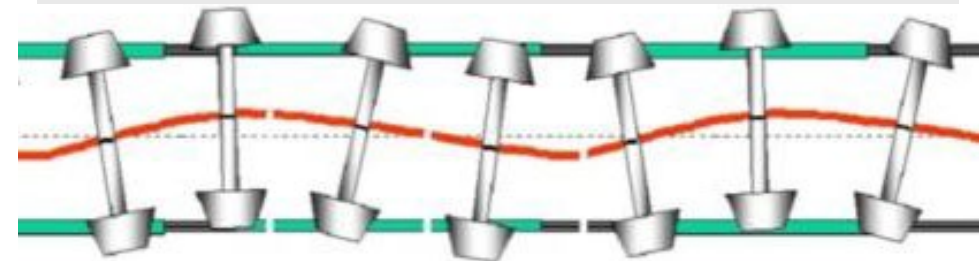
WILD Mk-IV

WIM

- Compare weights of wheels/axles/trucks/cars
- Overload and imbalance detection
- Comparable accuracy to a scale

HTD

- Finds skewed trucks or hunting trucks by utilizing the lateral strain gauges
- Characterizes vehicle dynamics against an oscillation index
- Identifies severe lateral hunting forces

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THANK YOU