AUTOMATIC EQUIPMENT IDENTIFICATION WAYSIDE SYSTEMS INTEGRATION

TODAY MOST WAYSIDE APPLICATIONS HAVE BEEN INTEGRATED WITH AEI SYSTEMS.

Integration would include the following:

- Hot Journal or Hot Box Detectors (HBD)
- Hot Wheel Detectors (HWD)
- Dragging Equipment Detectors (DED)
- D-Rail Detectors
- Weigh In Motion Scales
- Static Scales

- Wide Load Detectors
- High and Wide Load Detectors
- Switch Detection Indicators or Route Detectors
- Wheel Impact Load Detectors
- Yard Inventory Systems
- Hump Yards

SAMPLE TRAIN DETAIL INTEGRATED WITH AEI DATA

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================================================================
 Train#:  84          Speed:  33MPH          MP/KP: 0111.7
 Date: 04/09/14         Axles: 632            Track: North
 Time: 02:10        Direction: West       Temperature: +  0C
 Length:  8301       Shutters Open:  179         Battery: 14.4v

 Subdivision: Mountain (6103)
====================================================================
            Resistor              Filters
 Rail  Max Avg Read Req CF% Txdr Count   A   B Alarm      Limit  Carside Parms
 ------------------------- ---------------- ----------------  -------------
 North  61  28  257 267B  3  TO1 632    0   0 Absolute      180   Slope: 1.60
 South  57  28  269 261B  0  TO2 632    0   0 Differential  150  Minimum: 130
                                Hot Wheel     600
                             Cold Scanner =< Temp  10

 Resistor
 Wheel Max Avg Read  Req CF%
 ---------------------------
 North 398 190   91   95B  4
 South 362 176  100   90B  0
================================================================
 AEI System Data

 Tags Read       Tags Stored: 173
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 Antenna 0: 183
 Antenna 1:   0
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=====================================================================
 Firmware Versions
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 Reader: CP2.35-O 06/06/2013    Comm: CPT2.35a-O 03/03/2014    Speech: CPR4.70
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 System Alarms
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 AEI Subsystem: No Tags Ant 2

 Axle Alarm Summary
 --------------------------------------------------------------------------
 NONE
 --------------------------------------------------------------------------
          Rail      Wheel          Axle
 Car Axle North South North South  ON  OFF Spcng T1 T2  Alarms
    1    1 27   18   76   30   40   0  2.0 21 20  CP  9830 F End Leading
    W   2 20   11  204  164   40   89  6.5 16 16
    W   3  2    9  172  172   40   92  6.6 17 16
    W   4 11   12  210  204   40  621 32.8 16 15
    W   5 11   15  228  204   40   92  6.6 16 15
    W   6 18    9  154  162   40   91  6.5 16 15
    Carside Ave: North  15 South  11   Calculated CS Limits: North 154 South 149


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