

## Digital Track Notebook® 3.0 (DTN)



Gain rapid access to performance reports and ensure regulatory compliance is met with this simple, mobile, web-based track inspection tool

Over the past 10 years, ENSCO, Inc. has provided leading edge railway information technology (IT) solutions to the marketplace as a value-added service to our automated track inspection systems. ENSCO utilized its depth of knowledge of the railroad industry's regulatory and operational practices to create the Digital Track Notebook® 3.0 (DTN) for mobile track inspection management. The DTN is web-based and complies with FRA electronic record keeping requirements. Once logged into the system, authorized users can perform track inspections, locate and record defects, manage inspection schedules, update remedial actions, synchronize all field information with a centralized data management system and generate reports.

### Web-based reporting

The DTN's unique, web-based platform makes it faster and easier to generate critical regulatory and performance reports using a standard Internet browser that does not require specialized computer hardware platforms. DTN provides transparent access to a variety of tools and reports with role-based functionality that can be tailored to meet the needs of many users -- from track inspection managers to upper level executives. DTN can be used to record track inspections, generate daily inspection reports or close the loop on track defects. The product's flexible design can also be customized to meet the specific reporting needs of your railroad.

### Paperless inspection record management

The DTN gives wide access to critical data without needless paper. For example, inspectors can record all aspects of an inspection in a paperless environment using DTN tools to:

- Denote the properties of the inspection
- Include remarks about inspection, such as weather conditions
- Add a defect to the inspection record
- Upload inspection records to a centralized database
- Automate the distribution of defect records to maintenance personnel



The DTN can be used in the field with laptops or tablet PCs.

The screenshot shows the ENSCO Digital Track Notebook interface. At the top, there are navigation options: "Switch to Offline Mode", "You are currently in Online Mode", and "Internet Connection". The main header includes "DTN" and "lv11111 Logout English Français". Below the header, there are tabs for "Schedule", "Inspection", and "Defect". A "Create Special Inspection" button and a "Switch to Advanced List" button are visible. The main content is a table titled "Scheduled Inspections" with the following columns: Subdivision/Yard, Asset Type, Asset, Scheduled Start MP, Scheduled End MP, Earliest Date, Latest Date, Saved Date, Traverse, Detailed, Switch, Status, Asset Number, and Calendar Code. The table contains several rows of inspection data, including entries for "CARRINGTON" with various asset types like "Main Track", "Turnout", "Storage Track", and "Derail".

Subdivision/Yard	Asset Type	Asset	Scheduled Start MP	Scheduled End MP	Earliest Date	Latest Date	Saved Date	Traverse	Detailed	Switch	Status	Asset Number	Calendar Code
CARRINGTON	Main Track	MAIN-MAIN	257.3	275	05/19/2011	05/21/2011					Pending	75118	W2_1
CARRINGTON	Turnout	WEST PGA1 TRACK SWITCH ENDERLIN	257.7	257.7	05/01/2011	05/31/2011	05/16/2011				Due	15350643	M1-DY1
CARRINGTON	Turnout	WEST NO 1 TRACK SWITCH ENDERLIN	258.06	258.06	04/01/2011	04/30/2011					Overdue	15350657	M1-DY1
CARRINGTON	Turnout	EAST FMR SDG SWITCH LUCCA	264.4	264.4	06/01/2011	06/30/2011					Pending	6275252	M1-DY1
CARRINGTON	Storage Track	FORMER SIDING LUCCA-LUCCA STO	264.4	265.15	04/01/2011	04/30/2011					Overdue	75078	M1_20
CARRINGTON	Derail	Manual Derail	264.45	264.45	01/01/2012	12/31/2012					Pending	28375697	Y1
CARRINGTON	Derail	Manual Derail	265.15	265.15	01/01/2012	12/31/2012					Pending	28424149	Y1
CARRINGTON	Turnout	WEST FMR SDG SWITCH LUCCA	265.15	265.15	04/01/2011	04/30/2011					Overdue	6275254	M1-DY1
CARRINGTON	Turnout	EAST FMR SDG SWITCH FINGAL	270.3	270.3	04/01/2011	04/30/2011					Overdue	6275255	M1-DY1
CARRINGTON	Storage Track	FORMER SIDING FINGAL-FING STO1	270.3	270.98	04/12/2011	04/30/2011	04/15/2011				Overdue	75100	M1_20

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The DTN is a web-application that can be used with any computer and any web browser.

The screenshot shows the ENSCO Digital Track Notebook interface with an inspection form open. The form is titled "Inspection Details" and contains the following fields: Asset (NO 2 STORAGE TRACK SWITCH SPUR 348 BORDULAC), MP (348.55), Asset Type (Turnout), Subdivision/Yard (CARRINGTON), Inspection Reason (Regulatory), Earliest Date (01/25/2011), Latest Date (01/31/2011), Inspection Type (Regular), Completed Date (05/18/2011), Entering Own Inspected By (dropdown), Entered By, Accompanied By, Switch Operated? (Yes/No), Inspection Mode (dropdown), and Comments. There are also "Reset", "Save", and "Sign" buttons at the bottom. A "Defect Details" section is visible on the right with a "Select Defect" dropdown.

The DTN has easy track inspection forms that can be customized to your needs.

## Automated inspection scheduling

With the DTN, users can automate their approach to meeting regulatory inspection benchmarks. For example, the DTN automates the calculation of the earliest and latest dates inspections must be performed based on 49 CFR213 FRA Track Safety Standards. DTN's color-coded Inspection Priority Indicator makes it easy to rank inspections by level of importance.

## Streamlined maintenance management

DTN also makes it easy to manage defect status and maintenance records and provides an organized communication pathway between track inspectors and maintenance crews. A DTN user can synchronize to a central database to receive inspection and defects reports or send maintenance reports back to the database. In addition, performed maintenance and defect repair status can be easily noted.

## Paperless record management

ENSCO is a comprehensive service provider offering a full range of solutions for the rail industry. DTN tracks defects electronically, the data can be reviewed in Track/IT, an ENSCO web-based, track infrastructure, maintenance and exception data viewer. Track/IT brings together multiple data sources, such as inspection car data, to a central location where the total track health can be comprehensively assessed.



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