



Rail Yard Management and Automation

Overview:

Rail Logger® is a Front End Processor (FEP) that translates raw data from Automatic Equipment Identification (AEI) readers into useable information. Rail Logger® is used by industrial and railroad companies to quickly and easily link AEI data into their core business process. Rail Logger® is capable of handling an unlimited number of railcar readers simultaneously.

- Automates documentation of rail car arrivals, departures, and movements within rail yard.
- Integrates with all commercially available AEI Reader Systems, including Transcore, SAIC, STC, Comet, and SAI readers.
- Translates raw AEI data into useful information.
- Communicates information via email, fax, FTP, or database.
- Can operate as a standalone system or can be linked to Rail Manager® to provide a comprehensive automated yard management solution.



Benefits:

- Most robust processor for AEI readers on the market.
- Allows easy integration of AEI data to core business processes.
- Real time tracking of rail car arrivals, departures, and movements within rail yard.
- Error-free data collection.
- Allows fully automated process that reduces labor cost and speeds reporting.
- Eliminates wasted time dealing with "lost" cars.
- Provides accurate list of all car arrivals and departures.
- Facilitates demurrage reconciliation.
- Effective and easy to use reporting.
- Easily customized to meet future changes in yard layouts and operation.
- User has visibility into data mapping process and actual car movement.

Train Status Summary	Inbound	Outbound		Total
<b>Train Movements</b>	53	42		95
<b>Locomotives</b>	24	31		55
<b>Cars</b>	1358	1021		2379
<b>%Locos Tagged</b>				100
<b>%Cars Tagged</b>				99
Maintenance Summary	Normal	Warning	System Failures	Total
<b>Maintain Messages</b>	118	0	0	118
Train Speed Part-1	Through	Other		
<b>Average Train Speed</b>	10	7		
<b>Movement Types Count</b>	60	35		
Train Speed Part-2	1st Highest Speed	2nd Highest Speed	3rd Highest Speed	
<b>Max Train Speed</b>	20	15	14	
<b>Max Train Speed Count</b>	1	1	4	
Activity	Trains	Cars	Locos	Activity
<b>0:01 To 7:59</b>	9	259	9	
<b>8:00 To 15:59</b>	30	676	20	
<b>16:00 To 24:00</b>	56	1444	26	

## Benefits: (cont'd)

- Sophisticated error checking process built in to the software with automated alerts to ensure system reliability.
- Time clock synchronization to synchronize all reader's timer with a central time source.
- Option to rename reader's files to accommodate data feed to other systems.
- Heart beat monitoring with failure alert email notification ensures maximum uptime.
- Customer manages what info is sent and who it is sent to.
- Rail Logger® is capable of handling unlimited number of AEI readers.



## Key Features:

- Web-based Train Consist Report with drill down to individual cars.
- System Performance Report included as a standard feature.
- Detailed report of car arrivals and departures with realtime timestamps.
- With available wheel detectors, generates detailed report of car movements between tracks while movements are outside of reader zones.
- User configurable for primary and backup communication methods (phone lines, serial COM ports, wired/wireless LAN) between readers and FEP.
- File validation and automated reprocessing as required to ensure reliability. If FEP fails to obtain raw data from primary connection to the reader, then backup connection (serial port or modem) will be utilized as alternate method to retrieve data file.
- Various options to send output data file: Fax, Email, or FTP (Raw data file, TXT file, or spreadsheet)
- Option to import data file to database.
- If destination host (FTP server, fax, SMTP server, database server) is unreachable after three attempts, support personnel will receive automated alert notification via email.
- Historical report of all raw data files received, file type, how the file was transmitted (FTP, email, fax, or import to database), and the destination (IP address if FTP, email address if sending email, fax number if fax, ODBC data source name if importing to database).
- Periodic system health status/maintenance report to minimize maintenance and maximize on-line operation.
- Technical users can have an insight into the data mapping and translation process by querying the database tables.
- By using commercial database (SQL Server), Rail Logger® provides robust and easily accessible data structure.
- Clock synchronization between readers and host system.
- Able to import and export file with various T94 formats for parallel communication to rail carrier's systems.

ET SYSTEMS
RAILLOGGER®

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Home   Action   **Report**   Admin
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Summary   Inventory   Reader   AEI   Setting

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Report > Train Consists

### Train Consists Report

Select a site:

Begin received date:

End received date:

[Printer Friendly](#)

(Please change page setup to Landscape Orientation)

Click the "Start Date-Time" link to see the detailed information of train

Seq	Start Date-Time	End Time	Duration	Site ID	Reader Name	Direction	Speed			Total Axles	Train Length	Locomotives			Railcars			Movement Status	Transmission Type
							Min	Max	Avg			Counted	Tagged	Conv. status	Counted	Tagged	Conv. status		
0839	<a href="#">01/02/2009 19:11</a>	19:12	1	0000105	0105	E (Outside)	15	15	15	4	30	0	0	G	1	1	D	A	F
0838	<a href="#">01/02/2009 18:53</a>	18:57	4	0000105	0105	W (Inside)	7	12	8	196	2928	0	0	G	49	49	G	A	F
0837	<a href="#">01/02/2009 17:45</a>	18:14	29	0000105	0105	E (Outside)	0	8	6	136	8850	0	0	G	34	34	A	C	F
0836	<a href="#">01/02/2009 17:11</a>	17:15	4	0000105	0105	W (Inside)	2	13	9	152	2319	0	0	G	38	38	G	B	F
0835	<a href="#">01/02/2009 10:23</a>	10:25	2	0000105	0105	W (Inside)	0	8	7	64	923	0	0	G	16	16	G	F	F
0834	<a href="#">01/02/2009 10:13</a>	10:14	1	0000105	0105	E (Outside)	6	6	6	4	30	0	0	G	1	1	D	A	F
0833	<a href="#">01/02/2009 10:01</a>	10:02	1	0000105	0105	W (Inside)	7	7	7	4	33	0	0	G	1	1	D	A	F

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