

# Synergistic Yard Management

## Refining Yard Logistics with Wireless Data



Trucks back up at the gate. Customers want updates, and your information is six hours old. Trailers sit idle. Detention charges mount. Information just doesn't move, and the bottom line suffers.

*Synergistics has your solution.*



## *Yard Management works like this:*

*A large yard operation requires fast and accurate communication to orchestrate the movement of trailers and hostlers. With heavy traffic, tight deadlines and demanding schedules, you can't afford delays due to ineffective communication or lack of monitoring.*

*Synergy Yard Management is the heart of an efficient yard system, increasing access to up-to-date information while reducing personnel requirements and speeding trailer turnaround. With it, supervisors can monitor arrivals and departures; coordinate "milk run" routes; prevent pending service failures; and perform periodic yard checks. The system also provides control to reduce detention costs.*

*Optionally, the system can also interface with a warehouse management system; provide parts level detail and pre-arrival notification; and use optional gate-mounted radio frequency identification (RFID) tag readers and handheld mobile data terminals (MDTs) to increase efficiency.*

*Synergy Yard Management can help satisfy you and your customers' need for speed, setting the efficiency standard for your entire fleet.*

## *An Integrated System*

Synergistic Systems provides a system of applications integrating network and communications servers and other hardware with wireless mobile data and supervisory programs. Yard Office and Hostler Mobile Data constitute a complete yard system, and options such as RF gate readers and mobile inventory MDTs allow your company to automate, as the complexity of your operation requires.

The system provides a dynamic inventory of trailers and monitor the movement of hostlers and trailers. The data is transmitted in to the office system and to personnel working in the yard, allowing the real-time direction of yard movements.

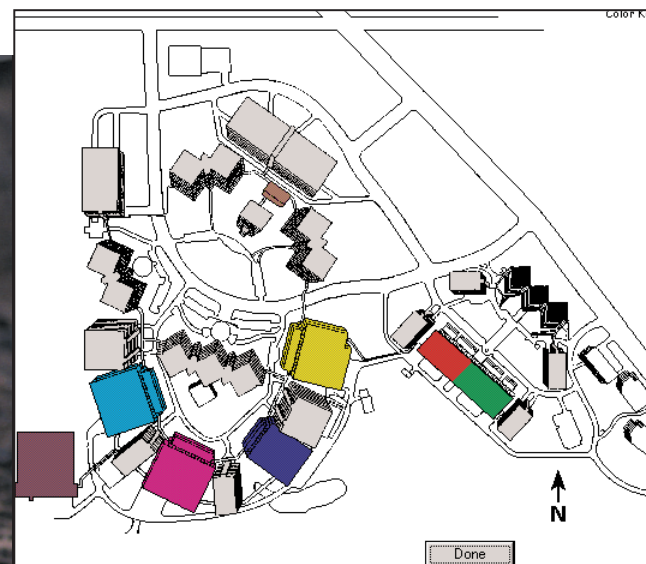
Synergy Yard Management streamlines movement from entrance gate to exit gate, and at every stop along the way.

## *Putting you in control*

Synergy Yard Management puts you in control by providing a flexible suite of integrated programs and systems. With these systems, the supervisor is in control of the yard, using an easy-to-use interface with a "dashboard" layout of system monitors and program screens that allow the supervisor continuous surveillance of all movement with the yard and through the gate.

With the dashboard monitors, supervisors can be notified of pending arrivals in the yard, arrivals and departures

*Communications tools that increase the effectiveness of your yard management system.*



The view of the yard from Yard Management

through the gate, movements nearing service failure, the results of comparative yard checks, the location and number of empty trailers, and other critical information. Supervisors can even split the responsibility for monitoring different parts of the yard among two, three or more monitors, allowing a division of control in large, complex operations.

With data coming in from gate readers, hostler MDTs and Mobile Inventory MDTs, the system allows a supervisor to be-in a practical sense-everywhere at once.

### RFID Enhances Yard Management

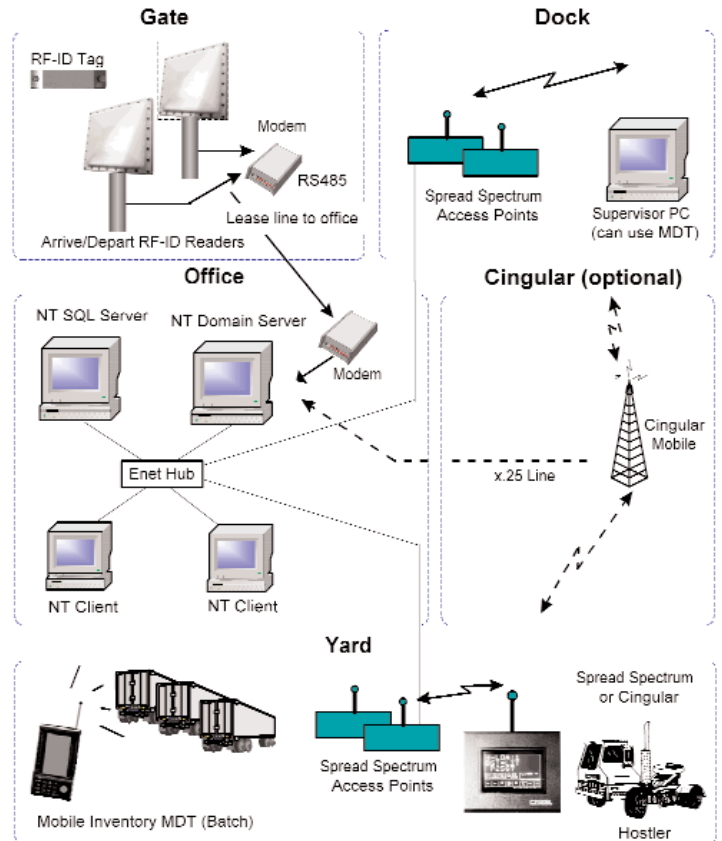
Each company trailer has a passive RFID tag that can be read by a gate reader or entered into an MDT. With the gate reader, the tag is read automatically as a tractor/trailer enters the yard. The information is sent to the office system.

Dynamic trailer inventory allows efficient use of dock space and fast loads and unloads. After the trailer enters the yard, the RFID tag is used to monitor movement around the yard, from loading to empty. Visiting trailers can be fitted with magnetized RFID tags. As a trailer is placed or moved, the yard space number is recorded on a hostler MDT, which transmits the information to the office system.

A summary of work sorted by sequence number (priority) displays on the hostler-mounted touch-screen

MDT. The employee uses the screen to indicate which job is being done, which jobs have been completed, and the status of the hostler. Messages can also be sent to and from the MDT, and the sequence of outstanding jobs changed.

Finally, when a trailer leaves the yard, its RFID tag is read at the gate by the automatic reader or by an MDT, and its departure is recorded in the office system.



- CCD
- CM1
- CM2
- CM3
- CM4
- CM5
- CM6
- NFB
- CEW
- EXEL
- JH-U
- DAMG
- WOOD

**SYNERGY - Yard Management**

File Maintenance Queries View Yard Functions Pre-Arrival Help

Section Empties											
01R	0	1	2	3	4	5	6	7	8	9	10
01R	[Progress Bar]										
03P	[Progress Bar]										
05S	[Progress Bar]										
06S	[Progress Bar]										
CCD	[Progress Bar]										
CWP	[Progress Bar]										
WDS	[Progress Bar]										

Current Trailer Counts		Hostler Work	
01R	4	H01	4
03P	4	H02	0
05S	2	H03	0
06S	2		
CCD	5		
CWP	0		
Empties	31		

Gate Simulator  
Trailer Refresh

Trailer With No Location		
0	10	20
G1		
G2		

CALL FOR YARD ACTION

Caller: SAM Date: 04/27/2000 Time: 16:34:24  
 Dispatcher: LEE WINTRODE Control #: 042770062  
 Action: FMT Hostler: H01 Route #: [ ]

Trailer #: 1001 Owner: CTI Contents: MT  
 From Loc: 05S From Space: 05 Ready By: 16:30  
 To Loc: 05S To Space: 10 Deadline: 05:00  
 Message: hot move

View Hostler Summary View/Edit Hostler Detail Find Empty Route Trls  
 Clear Save Past Due Pending

MESSAGE TO: FR\_CAZ  
 04/27/2000 16:30  
 When you finish move number 03, take your break.

Delete Reply Send

**BUILDING CM1**

CM1										
1	2	3	4	5	6	7	8	9	10	11
RAMP						LAWN				WATER COOLER

**ROAD 01**

**PARKING GARAGE**

16	13	10	7	4	1
17	14	11	8	5	2
18	15	12	9	6	3

Done Owner:

Modules run with a Windows environment.

Drill downs provide access to space level details.

# Synergy Yard Management

## Mobile Data Terminals

Handheld or hostler-mounted, MDTs enhance yard control



Mobile data can be used in Synergy Yard Management in several different ways, but the most common use of mobile data is in hostlers.

Hostler mobile data creates a continuous flow of data and messaging between the dispatcher and the yard. This easy exchange improves both the speed and accuracy of yard movements, and increases the number of employees and movements that can be overseen by one dispatcher.

Mobile data can also be used to track performance.

Information can be stored for employee performance and vehicle utilization tracking, and reporting.

Mobile data also provides just-in-time warehouse management control, increasing revenue through better utilization of trailers and hostlers.

Proactive and early load planning, as well as the early scheduling of dock operations, are two other important features of mobile data use.

Finally, mobile data reduces paper handling, filing & storage; noise and confusion in the dispatch office; allows relayed information to remain private; allows dispatcher time to plan and strategize; eliminates radio wait time; and creates a selling point for your salespeople to leverage.

To learn more about how our innovative solutions can help your company, call us or visit our website.

You'll love our solutions. We guarantee it!



Guaranteed Business Solutions

## Features:

- Easy-to-use Windows-based interface
- Touch screen mobile data terminals (MDTs)
- MDTs with RF capabilities to authorize yard moves
- RF hardware and antennas for yard and dock
- RF readers at guard gates to monitor RFID tags
- Dedicated MDTs for manual yard inventories
- RFID tags for company trailers
- Temporary tags for non-company equipment
- Yard/Space Control

## Benefits:

- Real-time dispatching and sequencing
- Eliminate inefficient radio communications
- Improve on-time trailer movement service levels
- Continuous access to accurate yard inventory
- Document hostler/yard jockey workload and efficiency
- Monitor status of non-company trailers
- Reduce personnel requirements

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