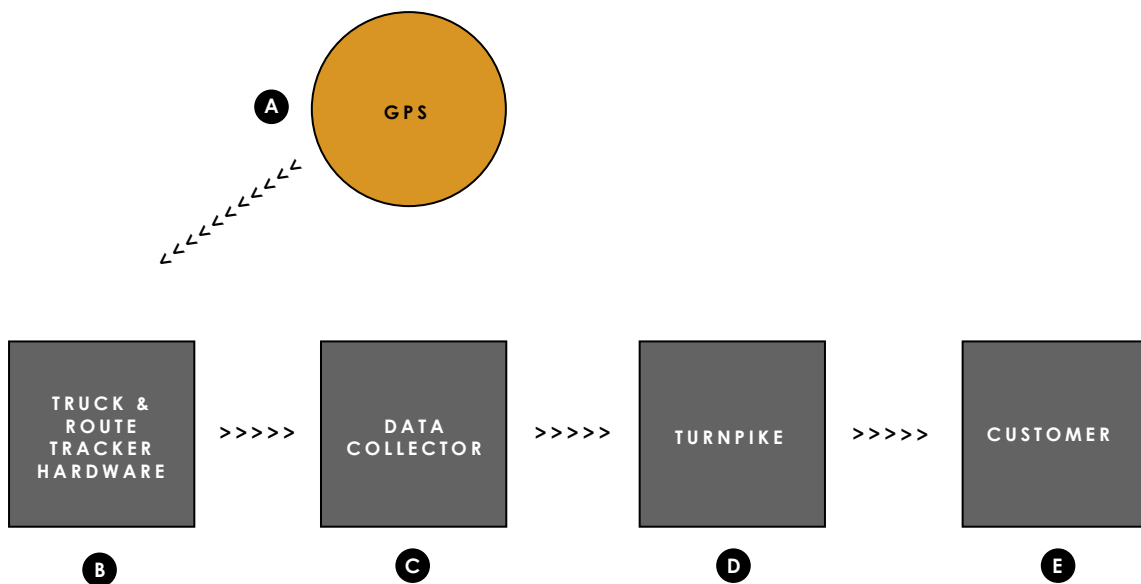




TURNPIKE
GLOBAL TECHNOLOGIES

Automating the Transportation Industry.

THE PROCESS



- A.** Latitude and longitude detail is delivered to RouteTracker's integrated GPS device in high resolution.
- B.** Turnpike's RouteTracker™ Hardware is a ten minute installation into the vehicle. The device's multiprocessing capabilities blend diagnostics and GPS detail to provide detailed vehicle activity.
- C.** The base station receives data files wirelessly from the RouteTracker™ hardware. These files are uploaded automatically to Turnpike's data processing center.
- D.** Data is received at Turnpike's processing center. Easy to use internet applications compile, audit and store the data, preparing it for reporting and inquiries.
- E.** Customers log into a secure internet site to view and run reports.

THE FEATURES AND BENEFITS

TURNPIKE ROUTETRACKER™

- GPS Tracking • Vehicle Activity Recorder • Automated IFTA Fuel and Miles Reporting
- Incident Recorder • 10 minute in-cab Installation • Automated Reporting via Internet application

INFORMATION GATHERED FOR REPORTING

- Where has the vehicle been • How was it driven • Exception reporting (excessive speed, stop times, service times, out of route miles) • Incident Recorder (for accident investigation) • Fuel and Miles for IFTA and IRP Reporting

BENEFITS

- Track actual vehicle miles and activity • Automate fuel and tax reporting • Improve driver productivity • Monitor exceptions with automated reporting • Improve accident investigation
- No software to install or maintain • Increase Safety • Replace old style tachograph with electronic tachograph

TURNPIKEDIRECT® REPORTING

A. VEHICLE ACTIVITY

B. VEHICLE SUMMARY

C. VEHICLE DETAIL

Vehicle Activity Report
 Date: 12/03/03
 Power Unit: 753
 Start CO: 154131
 End CO: 154637
 Trip Container: 425

Date	State	Location	Arrived-Departure	Distance (Miles)	Trip Time (Hours)	% Idle	Min. Speed (MPH)	Avg. Speed (MPH)
12/01	OH	6.07 MI of Highway Village	- 12:59 AM (V)	12.3	01:00		01.0	16.4
12/01	OH	99		27.8	01:0		01.0	16.4
12/01	OH	1290		11.3	01:0		01.0	15.7
12/01	OH	99		14.3	02:0		02.0	14.3
12/01	OH	423		9.2	00:0		00.0	16.1
12/01	OH	1290		10.4	00:0		00.0	17.3
12/01	OH	Medical Woods (STROBONE)	3:48 AM - 7:51 AM	81.0	3		3	18.1
12/01	OH	QUEENSPY B		0.7	00:0		00.0	13.1
12/01	OH	Apprentice Acres (MOTOROLA)	8:04 AM - 9:35 AM	40.3	01		01	

Vehicle Activity Detail
 Power Unit: 143
 Trip Date: 12/02/03

TRIP STATISTICS	VALUES	TRIP STATISTICS	VALUES
Start Time	12:02:00 01:58 PM	Ignition Off Time (M:mm:ss)	04:59:25
End Time	12:05:00 2:46 AM	Accessory Time (M:mm:ss)	00:00:00
Ignition Time	12:02:00 7:51 AM	Engine On Time (M:mm:ss)	04:52:46
Ignition Time (M:mm:ss)	00:51	Time to Start (M:mm:ss)	04:43:11
Stop Time (M:mm:ss)	00:00	Stop Idle Time (M:mm:ss)	00:06:12
Distance (Miles)	139.7	Engine Idle Time (M:mm:ss)	00:13:14
Control Distance	169.7	% Mile During Stop	3.0
Time	2:22		
Speed (MPH)	71.2		
Idle (%)	18.0		

Vehicle Activity Report

Date	Unit ID	Start City	End City	Start Time	End Time	Distance (Miles)
12/01/2003	743	Wheatfield, OH	Troy Township, PA	6:28 AM	10:02 PM	209.1
12/02/2003	743	Troy Township, PA	Worthing Village, NY	4:38 AM	11:28 PM	629.5
12/02/2003	743	Worthing Village, NY	Wheatfield, OH	12:28 AM	4:00 PM	475.0
12/04/2003	743	Wheatfield, OH	Dunbar Township, PA	2:06 PM	11:29 PM	329.1
12/05/2003	743	Dunbar Township, PA	Wheatfield, OH	12:03 AM	10:07 PM	389.0
12/06/2003	743	Wheatfield, OH	Bellevue Town, NJ	8:58 AM	9:45 PM	473.4
12/08/2003	743	Bellevue Town, NJ	Wesley (STROBONE), OH	6:25 AM	11:09 PM	662.6
12/11/2003	743	Wesley (STROBONE), OH	Wheatfield, OH	12:28 AM	4:44 PM	191.2
12/11/2003	743	Wheatfield, OH	Yorkville City, NY	11:33 AM	10:30 PM	426.4
12/12/2003	743	Yorkville City, NY	Wheatfield, OH	8:53 AM	10:42 PM	629.0

Other reports available include: Monthly Unit Report, Route Summary Report, Monthly Fleet Report, Fuel Efficiency Report, IFTA Unit Report, Tax / Credit Due Report, IFTA Fleet Report, IFTA Form Reports, IFTA Fuel Tax Report, Vehicle Activity Summary Report, IRP Unit Report, Vehicle Activity Detail Report, IRP Fleet Report, Vehicle Activity Diagnostics Report, Fuel Reconciliation Report, State Fuel Summary Report, State Miles Summary Report, Vehicle Idle Time and Vehicle Speed Report.

ROUTETRACKER™ SPECIFICATIONS

ROUTE TRACKER SPECIFICATIONS

(RouteTracker™ shown at actual size.)

Height: 3.125"

Width: 3.75"

Depth: 3.125"



J1708 - 6 PIN



J1708 - 9 PIN



GENERAL MOTORS - OBD2



ROUTE TRACKER™ CASE STUDY - HOME HARDWARE



PROFILE:

- Largest independent retailer network in Canada with over 1,100 store locations
- Service these stores from 3 national distribution centres
- Approximately 130 tractors
- Home Hardware's fleet is one of the most recognized and well maintained fleets running the highways in Canada.
- Purchase RouteTracker™ for entire fleet in 2003

BACKGROUND:

- HH had traditionally monitored the truck operations and driving activity using manual tachographs.
- They employ a very experienced group of drivers with minimal driver turnover and pride themselves on an impeccable safety record
- They filed IFTA and monitored fuel purchases manually
- They purchase fuel both on-site and off-site at card lock locations, along with occasional 'one off' purchases as required

BUSINESS OPPORTUNITY SOUGHT:

- Replace tachographs with more robust equipment
- Automate IFTA filing
- Automate driver/vehicle activity monitoring

OPERATIONAL BENEFITS OF TURNPIKE'S ROUTETRACKER™:

- **Automation of IFTA and IRP reporting**
 - Virtually eliminated manual filing operation
 - Automated fuel receipt reporting and reconciliation process
 - Improved reporting accuracy and audit protection
 - Audit support free of charge from Turnpike if required
- **Driver productivity monitoring**
 - Automated arrive/depart reporting by store/depot
 - Geo-located 1,100 store locations for report clarity
 - Monitor all stops scheduled and unscheduled
- **Route monitoring**
 - 'bread crumb' route downloads
 - compare actual vs planned routes
 - reduce out of route miles through monitoring
- **Driver activity monitoring**
 - Over-speed reports by road segment
 - Idle time reporting by location: store/depot/other
 - Hard brake incident reporting: includes location as well as detailed operational info. such as speed, brake, throttle, clutch etc.
 - Easily monitor the fleet with summary exception reports by unit number
 - Monitor fuel efficiency by truck unit
- **Improve Preventative Maintenance Operation**
 - Automate Vehicle Fault Code Reporting
 - Detailed reports with definitions and engine status
 - Provides access to reporting for maintenance provider/staff
- **In-depth Fleet Operations Reporting**
 - Miles, speeds, idle times etc. by unit/group/fleet
 - Easy export to Excel, Access or other database tools for trend analysis and charting or presentation
 - Data storage for up to 6 years for miles, IFTA, IRP, routing etc.

"the Route Tracker has allowed us to automate IFTA fuel tax filing, replace tachographs and automatically monitor fleet operations. Monitoring actual routes, speeds, service times and idle times is a good first step in reducing fuel costs and improving the productivity and safe operation of our fleet."

Gerry Gerber, Home Hardware
Fleet Operations Manager

ACTUAL AND POTENTIAL SAVINGS:

- **IFTA filing labour reduction**
 - Virtually eliminate IFTA clerk hours
- **Reduce fuel costs and improve safety of fleet**
 - Proactively monitor and reduce idle times, over speeds, hard brake incidents
- **Eliminate tachograph costs: cards, reading fee, driver time**
- **Reduce out of route miles**
 - Proactively monitor actual versus planned miles