



Workshop:
Asset Control, Field Data
Collection and Manufacturing



Moderator:

Bob Wall, Secretary Treasurer
Health Supply Chain Network (HSCN)

Speakers:

Scott Fleming, Director of Sales, Unirop
Paul Sadler, IT Manager, Action Trailer Sales Inc.



Scott Fleming
Director of Sales
Unirop



**Manufacturer of Specialized
Wire Rope and Lifting Products**

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Market Place

- Construction
- Mining
- Manufacturing
- Military
- Nuclear
- Offshore Oil



Regulating Bodies

- Occupational Health and Safety Act
- ASME B30
- CSA Z Standards
- API
- WTDA



Inspection And Testing Records

- Annual and Semi annual
- Visual without records
- Visual with records
- Testing records
- Testing certificates
- Proof testing



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Customers Request

- Maintain records
- Location
- Damage history
- Down time
- Repairs
- Removal from service
- Cycle life



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Problem

- Average company has 400 Lifting Slings
- Larger companies over 8000 Lifting Slings



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Solution

- Use RFID to identify slings and lifting devices
- Use passive low frequency tags
- Custom RFID tags were developed
- Rugged environment required rugged tags
- Field ID is a inspection and maintenance platform that uses wireless mobile computers and RFID

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Results

- Perform inspections and print inspection certificates on demand
- Allows our customers to view and print inspection certificates through their web browser
- Have instantly available documents such as safety inspection and product information

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Results

- Record rigging product repair and re-certification made by Uniroppe
- Have a record of their entire sling inventory sorted by type, location within the plant, past and next required safety inspection
- Move and record sling location around plant or job site

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Results

- Share inspection and test certificate records with government auditing bodies
- Make better decisions about slings performance by analyzing maintenance data
- Can be retrofitted to any existing sling product



Thank You



Paul Sadler
IT Manager Action
Trailer Sales Inc.

ACTION TRAILER SALES INC.



The First Name In Trailers

Presented by:

Paul Sadler – IT Manager

Using RFID for Inventory Control

- What do we do with it?
- Why RFID over Barcode?
- Is it working? How?
- What can improve?



What do we do with it?

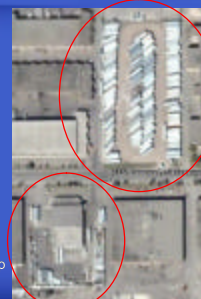
Since we are a trailer dealership, we need to park trailers and keep track of their location. On average we have 700-1000 trailers in stock available for sale or rent. These are parked at 4 different yards.

RFID helps to:

- 1) Locate trailers.
- 2) Prevent trailer number recording errors.
- 3) Perform "Yard Checks" faster.

The Office and Shop

Drew Road Yard



What do we do with it?



500 + trailers in remote yard
1 kilometer from shop.

The other 2 yards are over 20 kms away and only get checked monthly.



Using RFID for Inventory Control

- *What do we do with it?*
- Why RFID over Barcode?
- Is it working? How?
- What can improve?



Why RFID over Barcode?

RFID (active technology)

Doesn't require line of site.
Reads faster & farther.
Weather Proof.
Can't be defaced.

BARCODE

Requires physical line of site.
Reads fast but not far enough.
Not readable through ice and water.
Can be scratched or marked.



Using RFID for Inventory Control

- *What do we do with it?*
- *Why RFID over Barcode?*
- Is it working? How?
- What can improve?



Is it working? How?

Tags are programmed with the Wavetrend Tag Programmer and software.
We program our tags with the trailer number.



Is it working? How?



Handheld:
PSION Teklogix Workabout Pro
Tags: Wavetrend Active Transponder



Simply drive through the yards reading tags.



Is it working? How?



On New trailers, the tags are attached with a plastic strap
They must hang away from the metal of the trailer.



Is it working? How?



On Rental trailers the tags are inside a weather-proof plastic box.
The box is screwed to the trailer.



Is it working? How?



As the tags are read, they are added to the listing in the handheld.



Is it working? How?

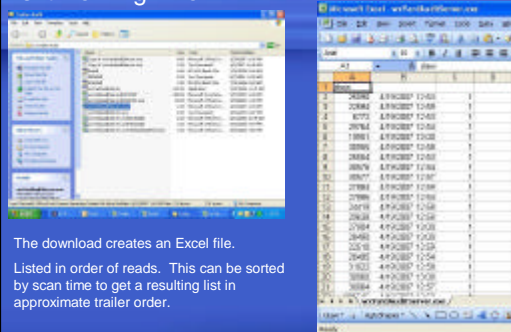


The handheld is put in the cradle attached to the PC

The listing is uploaded to the PC.



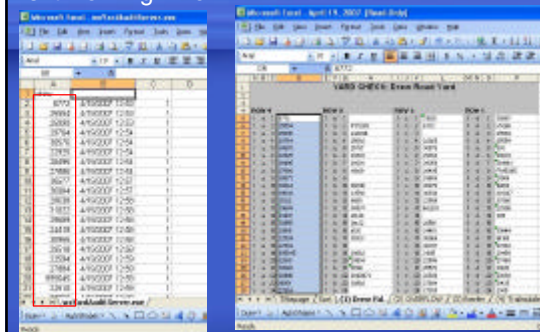
Is it working? How?



The download creates an Excel file.
Listed in order of reads. This can be sorted by scan time to get a resulting list in approximate trailer order.



Is it working? How?



The trailer listing is then copied from the list and pasted into our own template of our yards.



Is it working? How?

We have achieved...

- increased inventory accuracy. Less human error.
- save 2-3 hours per day.
- the handheld is simple to use.
- we didn't need to completely overhaul our processes to fit RFID.



Using RFID for Inventory Control

- *What do we do with it?*
- *Why RFID over Barcode?*
- *Is it working? How?*
- *What can improve?*



What can improve?

Sometimes the signal emitted from a tag goes too far.

We read tags from different rows that we don't want to read until we are in that row.

Sometimes it takes too long to read a tag.

The signal is bouncing off of the metal of the trailer and it isn't clear enough to read quickly.

We need to be able to "turn off" the reader (without removing it from the handheld) so we can decide when to read tags.



Using RFID for Inventory Control

- *What do we do with it?*
- *Why RFID over Barcode?*
- *Is it working? How?*
- *What can improve?*
- *Is it worth it? Yes.*



ACTION
TRAILER SALES INC.

Thank you

The First Name In Trailers

Presented by:
Paul Sadler – IT Manager

2007 Canadian RFID Conference
SHARING THE FACTS - DISPELLING THE MYTHS

RFID
RAID FRONTIER IDENTIFICATION

Questions ?