



Next Gen Location Services

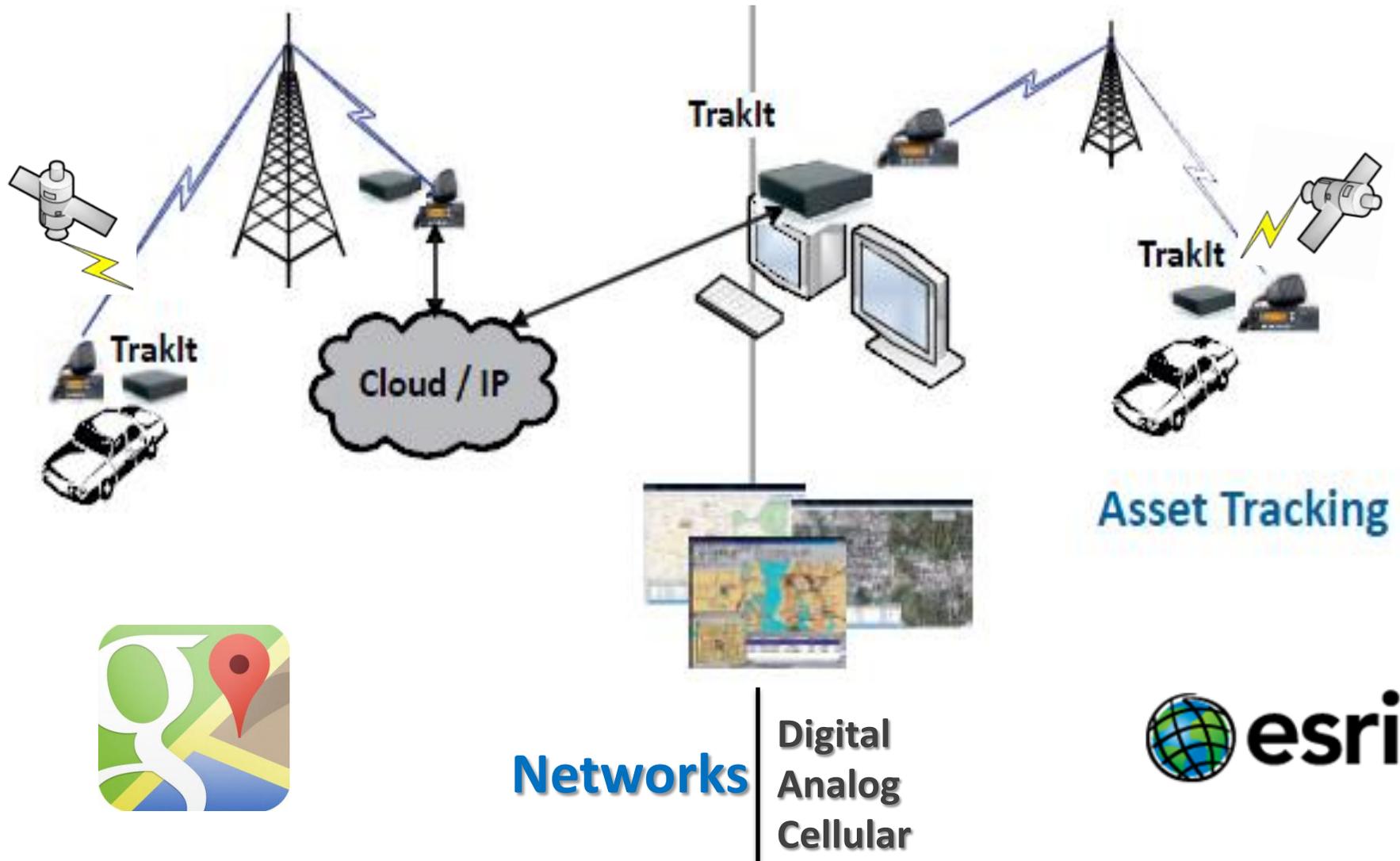
Industry Leadership in Asset Tracking



WHAT DOES TRAKIT OFFER?

Unparalleled Asset Tracking Technology

Realtime Visual Intelligence for Your Mission Critical Operations



What can be Tracked?

- **Mobile Assets**

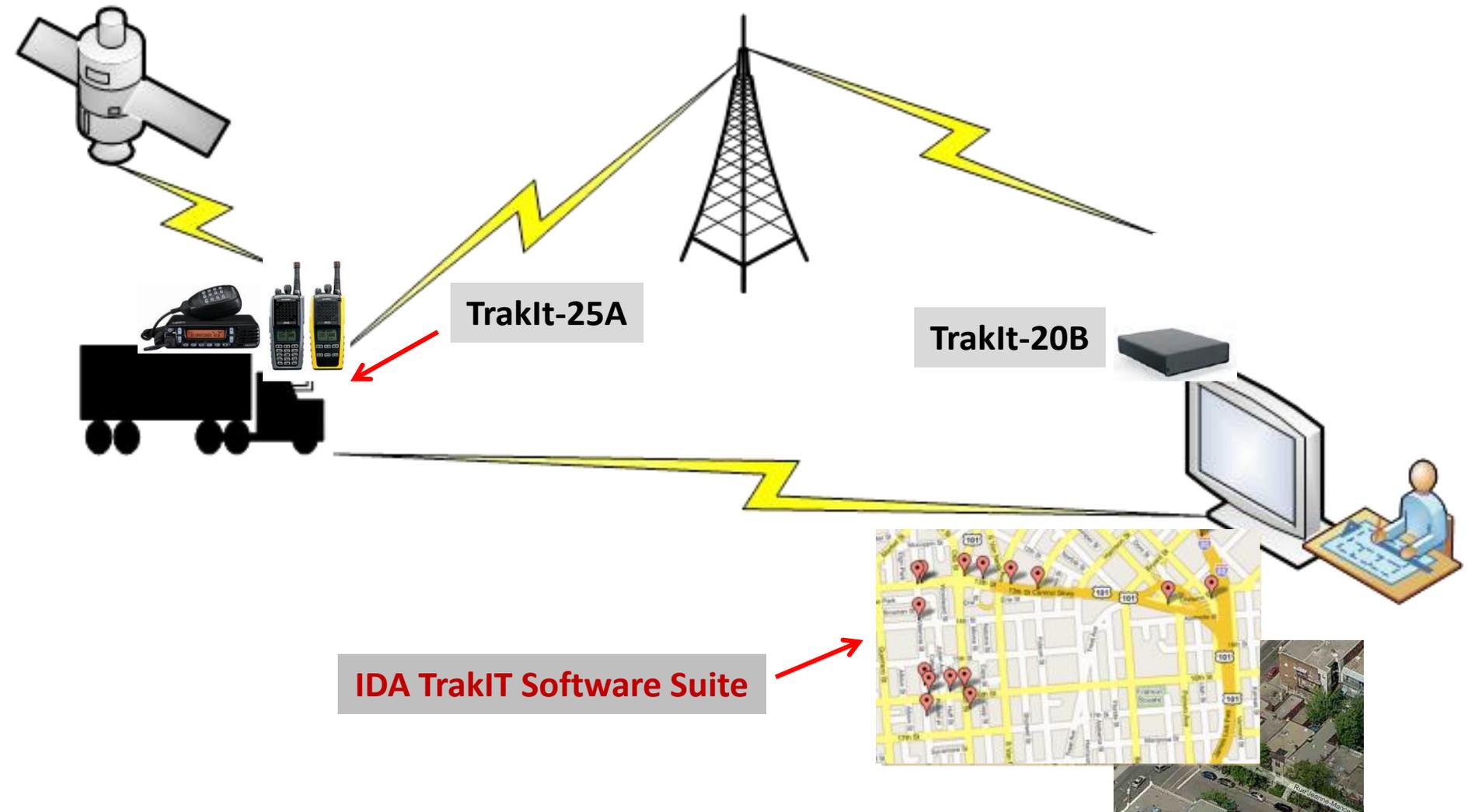
- Digital / Analog Radios
- Public Safety Personnel & Vehicles
 - Law Enforcement Personnel, First Responders
- Transit / Transportation – School Bus, City Bus
- Commercial / Service Vehicles

- **Immobile Assets**

- Network Devices
- Expensive Equipment
- Geostationary Machinery

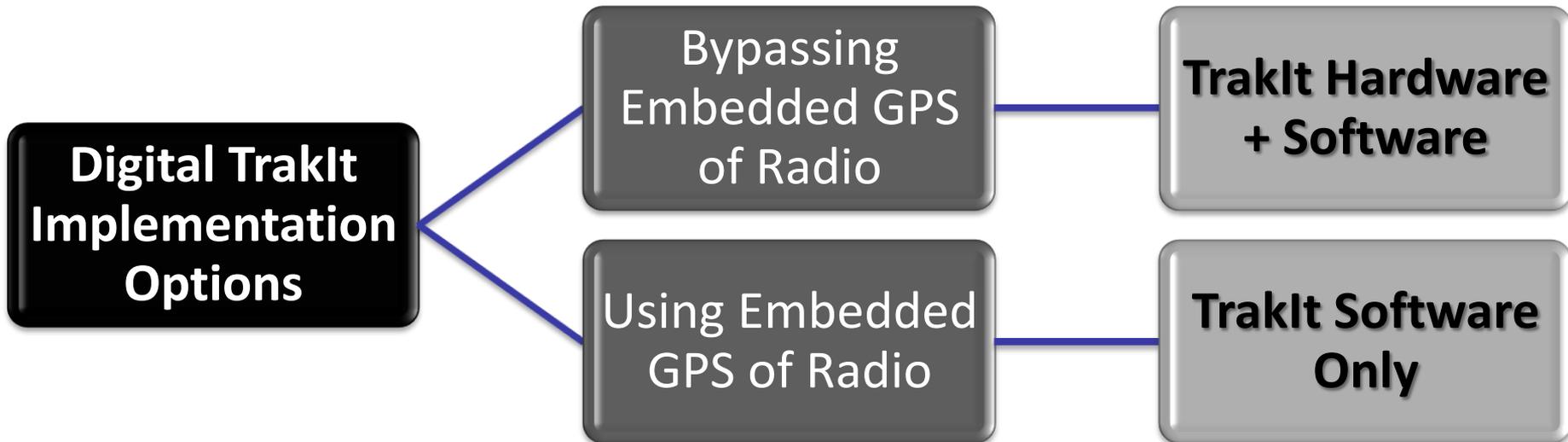
IMPLEMENTATION MODELS

For Analog Network

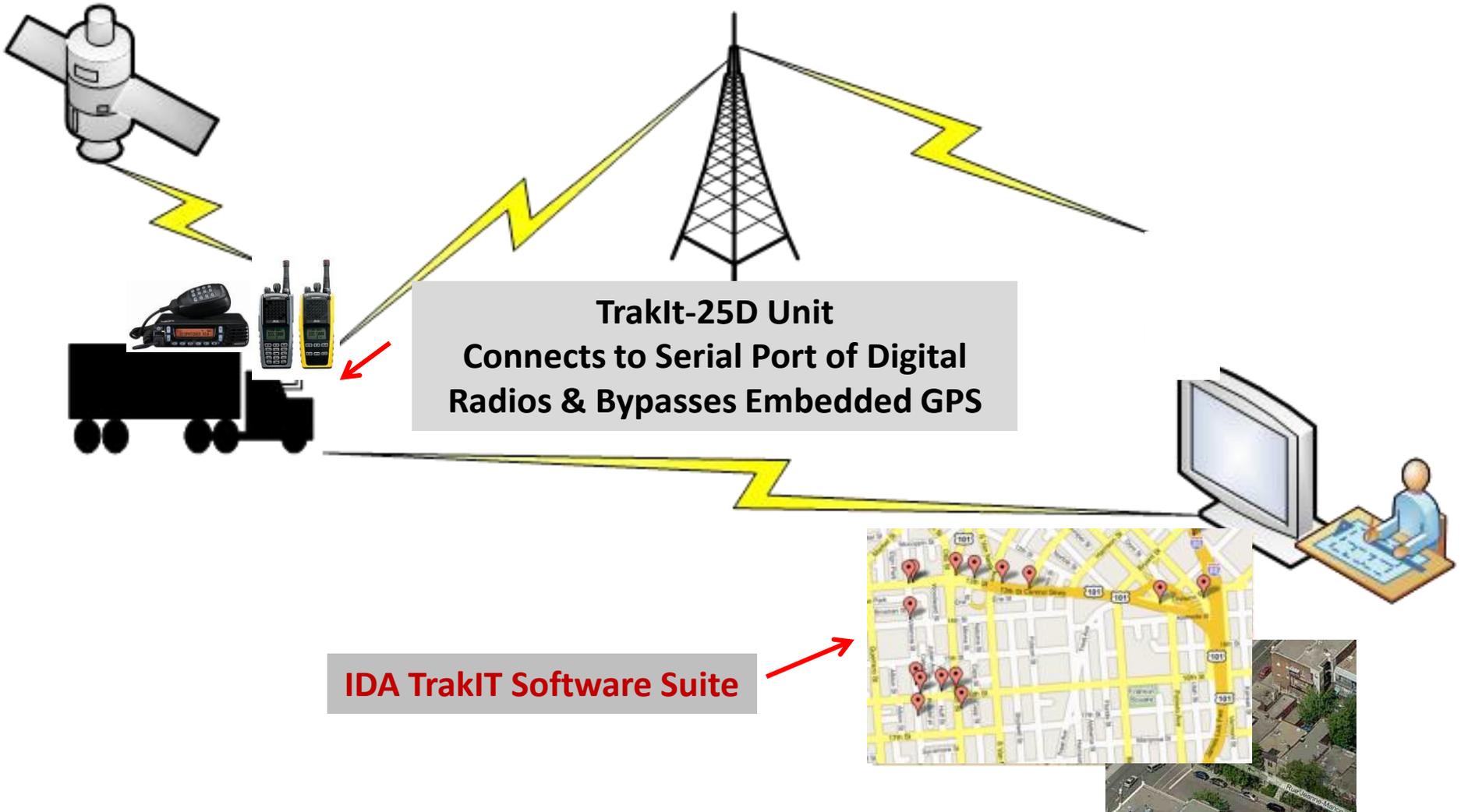


For Digital Network Infrastructure

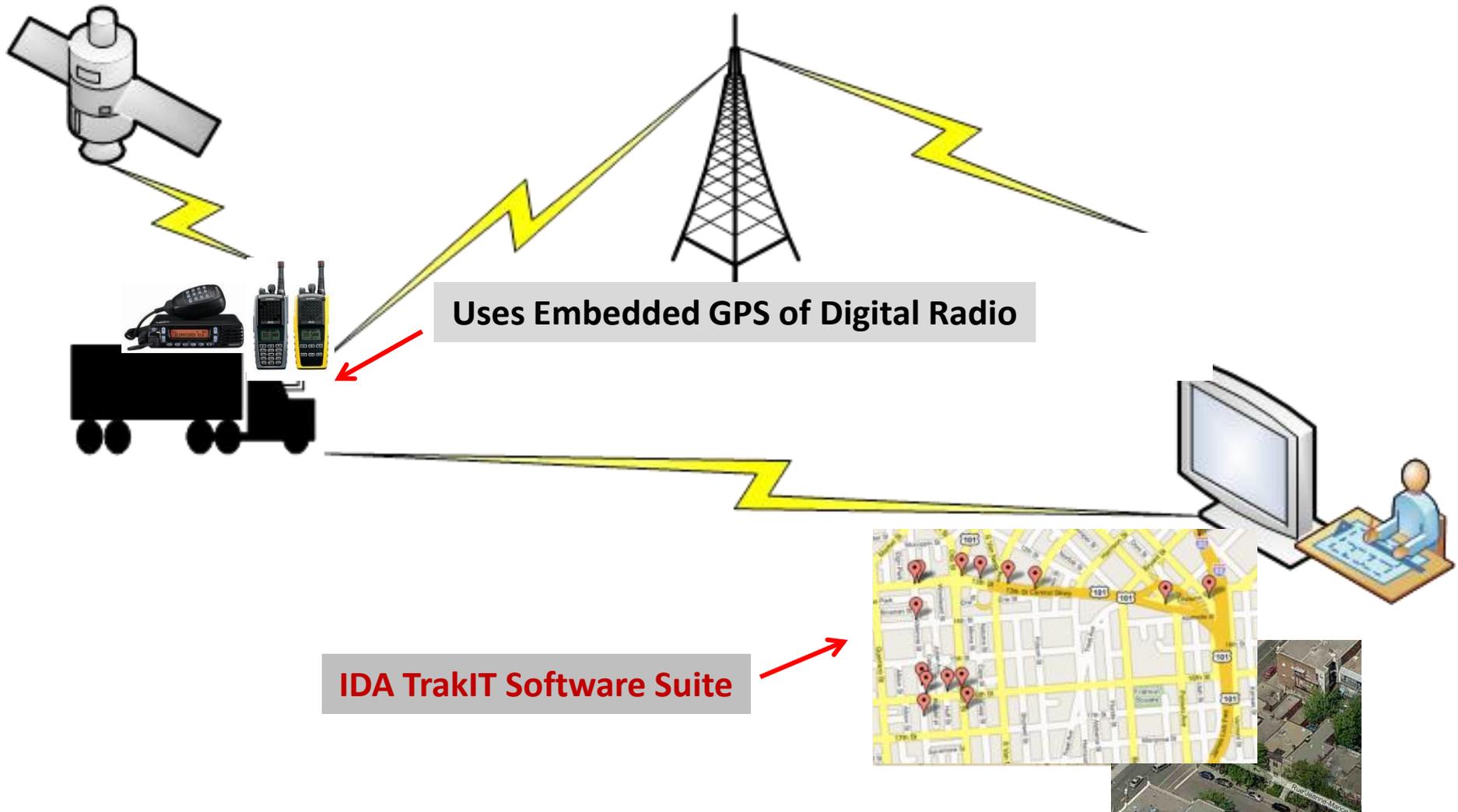
With & Without TrakIt Hardware Device



Using TrakIt Hardware + TrakIt Software



Using TrakIt Software Only



CHALLENGES OF DIGITAL NETWORK

Traffic Congestion

- **Large Number of Connected Mobiles, Handhelds and Network Devices**
- **Overwhelming Growth of Data Traffic**
- **Constant conflict of Voice VS Data traffic**
- **Spewing Embedded GPS Data**
- **Multi-site Network Load**
- **Data encroaching mission-critical Voice communication**

TRAKIT AS A NETWORK OPTIMIZER

Selective Geolocation Data Transfer

- Offloads GPS / Tracking Data to TrakIt Unit
- Transmits Data **ONLY** based on Selected & Programmable Parameters

- Speed
- Headings
- Distance Travelled
- Critical Even Triggers
- Manual Triggers

The screenshot shows the 'Operator table setup' dialog box with the following sections and settings:

- Loaded from:** Default
- Buffer control:**
 - Overwrite buffer when full
 - Stop writing to buffer when full
- Send timeout/retries:**
 - Position send timeout: 10
 - Position send retries: 0
- Position events:**

	Send	Store
Poll		<input checked="" type="checkbox"/>
Power Up	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Timer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Direction change	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 1 active	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 1 Inactive	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 2 Active	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 2 Inactive	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 3 Active	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Event line 3 Inactive	<input type="checkbox"/>	<input checked="" type="checkbox"/>
- Dynamic timers:**

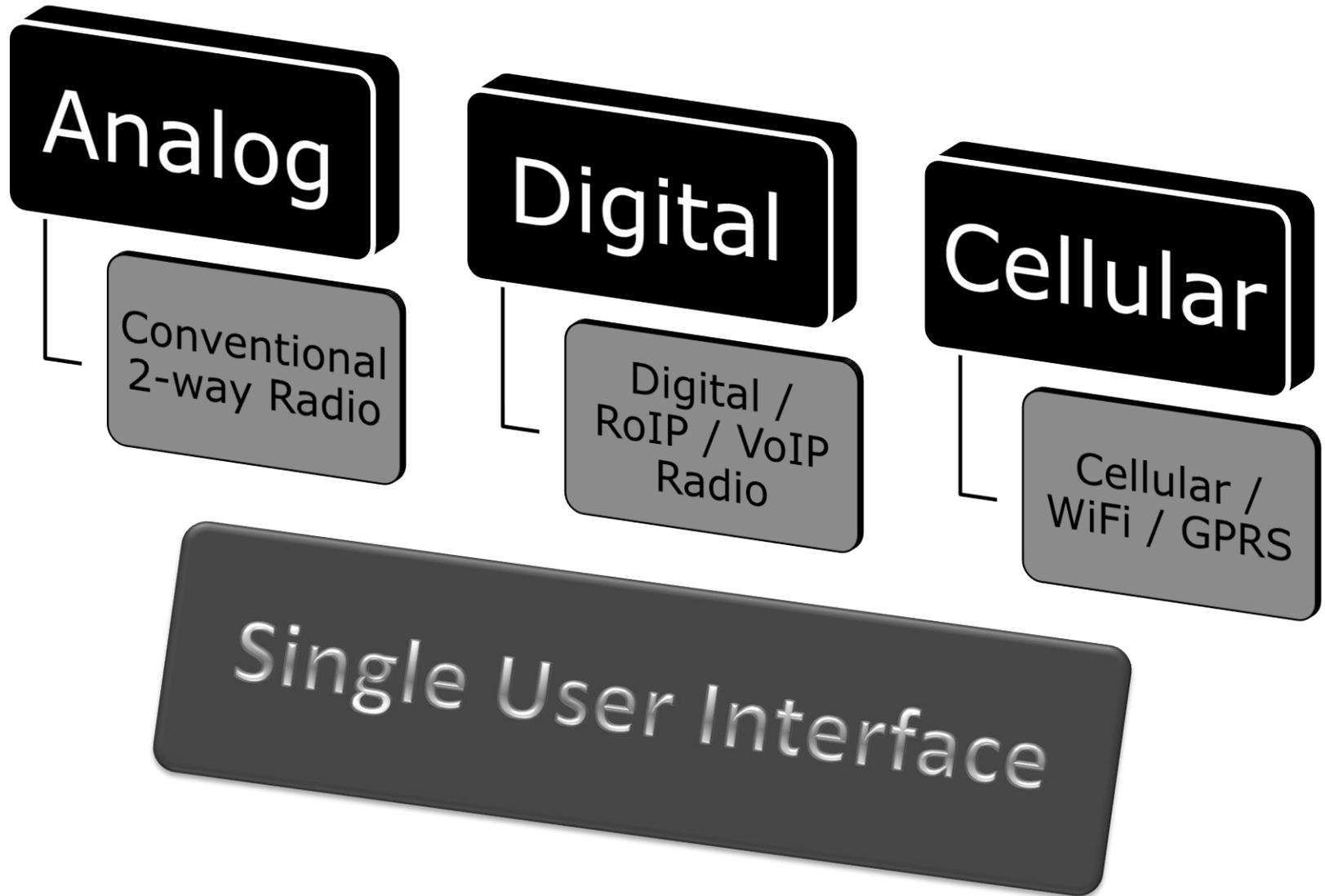
	Speed	Interval
Speed/Interval 1	10	3600
Speed/Interval 2	40	120
Speed/Interval 3	60	60
Speed/Interval 4	75	45
Speed/Interval 5	120	30
- Direction threshold:**
 - Turn threshold value: 45
 - Stop threshold time: 15
 - Stop threshold distance: 300
- I/O Line events:**

	Send	Store
I/O line 1 active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 1 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 2 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 2 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 3 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 3 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 4 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 4 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 5 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 5 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 6 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 6 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 7 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 7 Inactive	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 8 Active	<input type="checkbox"/>	<input type="checkbox"/>
I/O line 8 Inactive	<input type="checkbox"/>	<input type="checkbox"/>

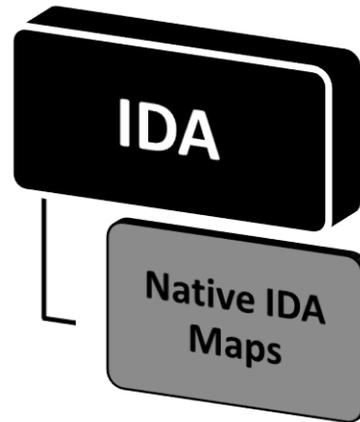
Buttons: OK, Cancel

POWER OF CHOICE

Choice of Network



Choice of Mapping Technologies



Choice of Industry Verticals



Law Enforcement

Public Works

Business & Industry

Local & State Government

Emergency Management

Private & Public Utilities

Healthcare & Insurance

Transportation & Logistics

Choice of Reports



Reports – Realtime Tracking

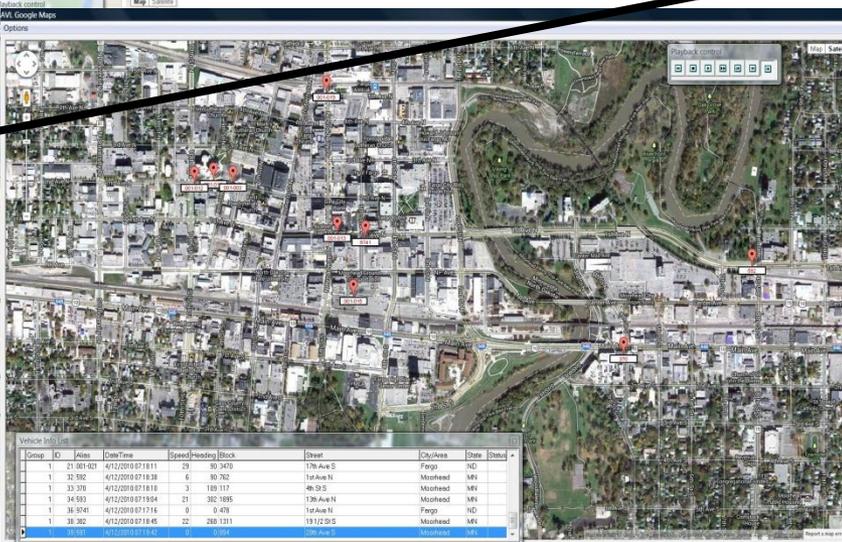
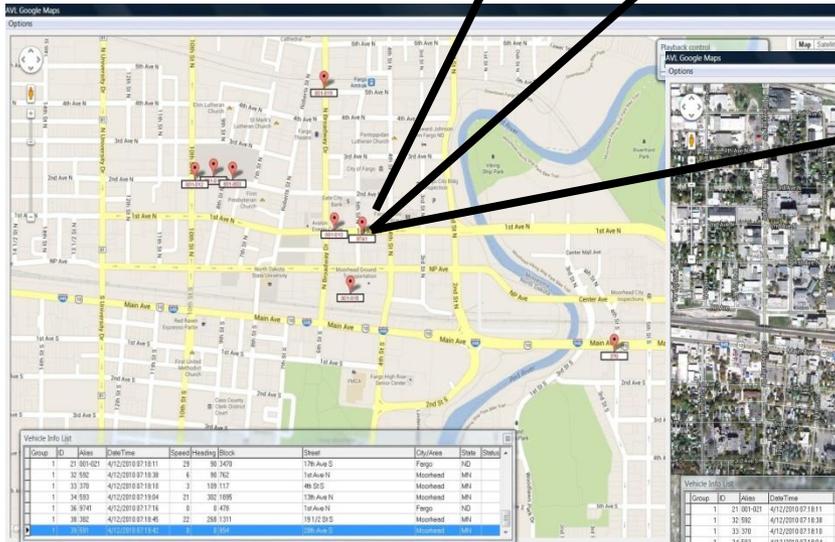
Item Information [X]

Database File: C:\Program Files\IDA\Trakit AVL System\agtrak.db

Item Type: Point

Field Name	Field Type	Field Data
Name	Character(25)	Rolly Roman
Address	Character(25)	RR1 Box 590
Phone	Character(12)	555-987-5431
Tank1_capacity	Integer	1000

OK Cancel



Alerts / Zone / Perimeter Fencing

AVL Google Maps

Options

Warning

AVL SYSTEM ALERT: Vehicle 017-017 has set off an alert...

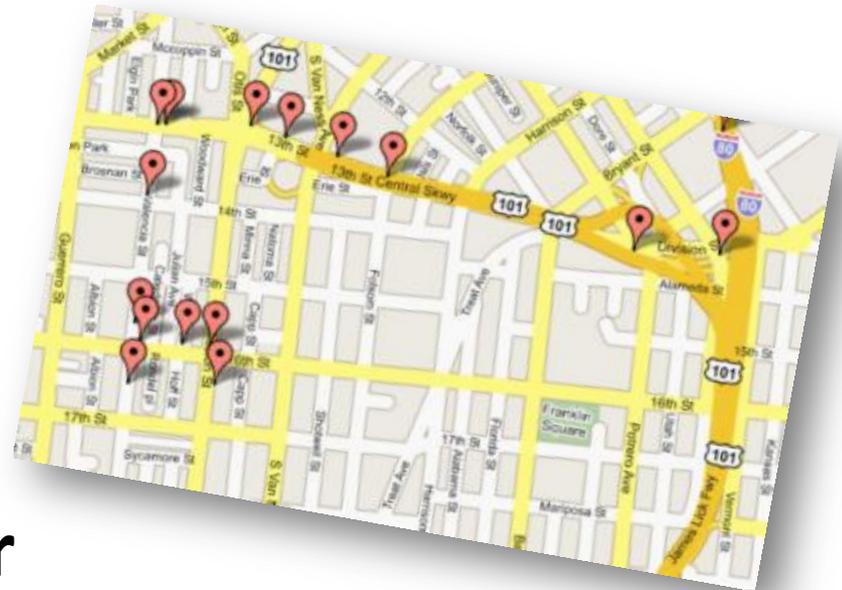
OK

Vehicle Info List

Group	ID	Alias	Date/Time	Speed	Heading	Block	Street	City/Area	State	Status
1	21 001-021		4/12/2010 07:18:11	29	90	3470	17th Ave S	Fargo	ND	
1	32 592		4/12/2010 07:18:38	6	90	762	1st Ave N	Moorhead	MN	
1	33 370		4/12/2010 07:18:10	3	109	117	4th St S	Moorhead	MN	
1	34 593		4/12/2010 07:19:04	21	302	1895	13th Ave N	Moorhead	MN	
1	36 9741		4/12/2010 07:17:16	0	0	478	1st Ave N	Fargo	ND	
1	38 382		4/12/2010 07:18:45	22	268	1311	19 1/2 St S	Moorhead	MN	
1	39 591		4/12/2010 07:19:42	0	0	894	28th Ave S	Moorhead	MN	

Realtime Data Capture

- Vehicle ID
- Longitude / Latitude
- Date / Time
- Record Type
- Driver Name
- User reference number
- Speed / Heading
- Road, Address, City, State, Zip



Location Analysis

Process Report Data

Process Data

Position data input file:
C:\av\lpsdata.dat

Group: 003 ID: 003

Search Group/ID
Group: 003 ID: 003

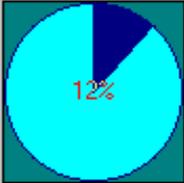
Search

Location Filter

Poll Timer Closure Low
 Power Closure High

Process Cancel

Progress: 12%



Location Report

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**TRAKIT
Vehicle Location Analysis**

Group ID	Date/Time	Spd	Head	Road	Bldg	City/Area	State	Zip
3	02/18/1998 08:50:42	0	0	1 4TH ST N	200-299	Fargo, ND	ND	58102
3	02/18/1998 08:51:09	0	0	2				
3	02/18/1998 08:51:29	2	345	2 N BROADWAY ST	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:52:09	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:52:29	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:53:09	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:53:29	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:53:57	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:54:28	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:54:58	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:55:28	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:55:58	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:56:28	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:56:58	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:57:28	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:57:58	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:58:28	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102
3	02/18/1998 08:58:58	0	0	2 7TH ST N	400-499	Fargo, ND	ND	58102

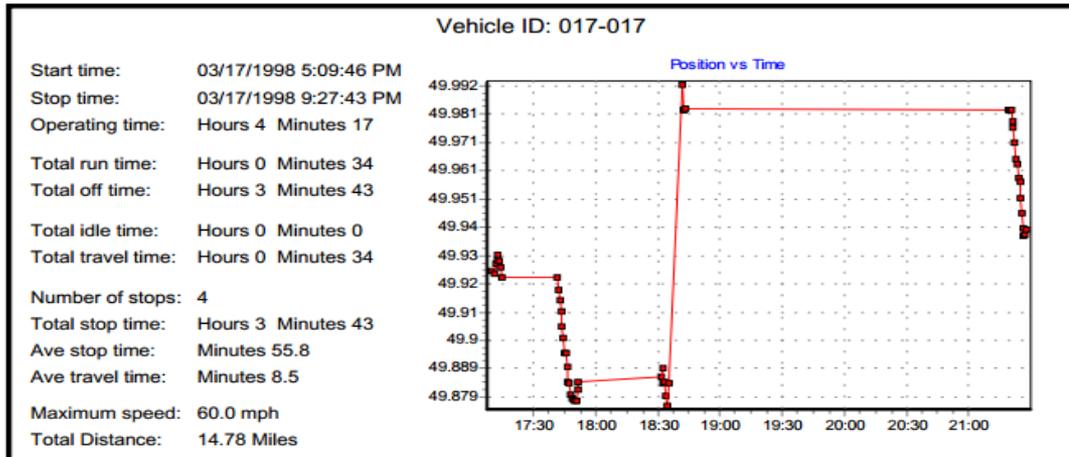
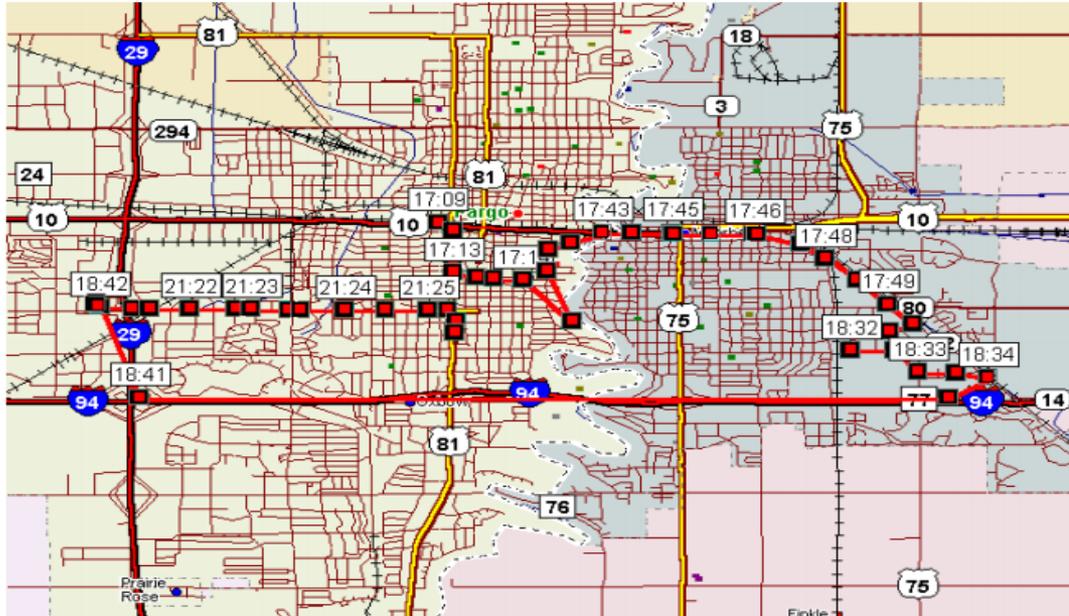
Position Report

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**TRAKIT
Vehicle Position Analysis**

Group/ID	Date/Time	Ref#	Driver#	Pos Type	Lat	Lon
3	02/16/1998 08:50:42			1	46.88	-96.782
3	02/16/1998 08:51:09			2	46.88	-96.782
3	02/16/1998 08:51:39			2	46.881	-96.787
3	02/16/1998 08:52:09			2	46.881	-96.791
3	02/16/1998 08:52:39			2	46.881	-96.791
3	02/16/1998 08:53:09			2	46.881	-96.791
3	02/16/1998 08:53:39			2	46.881	-96.791
3	02/16/1998 08:53:57			2	46.881	-96.791
3	02/16/1998 08:54:28			2	46.881	-96.791
3	02/16/1998 08:54:58			2	46.881	-96.791
3	02/16/1998 08:55:28			2	46.881	-96.791
3	02/16/1998 08:55:58			2	46.881	-96.791
3	02/16/1998 08:56:28			2	46.881	-96.791

Reports – Daily Activity Report



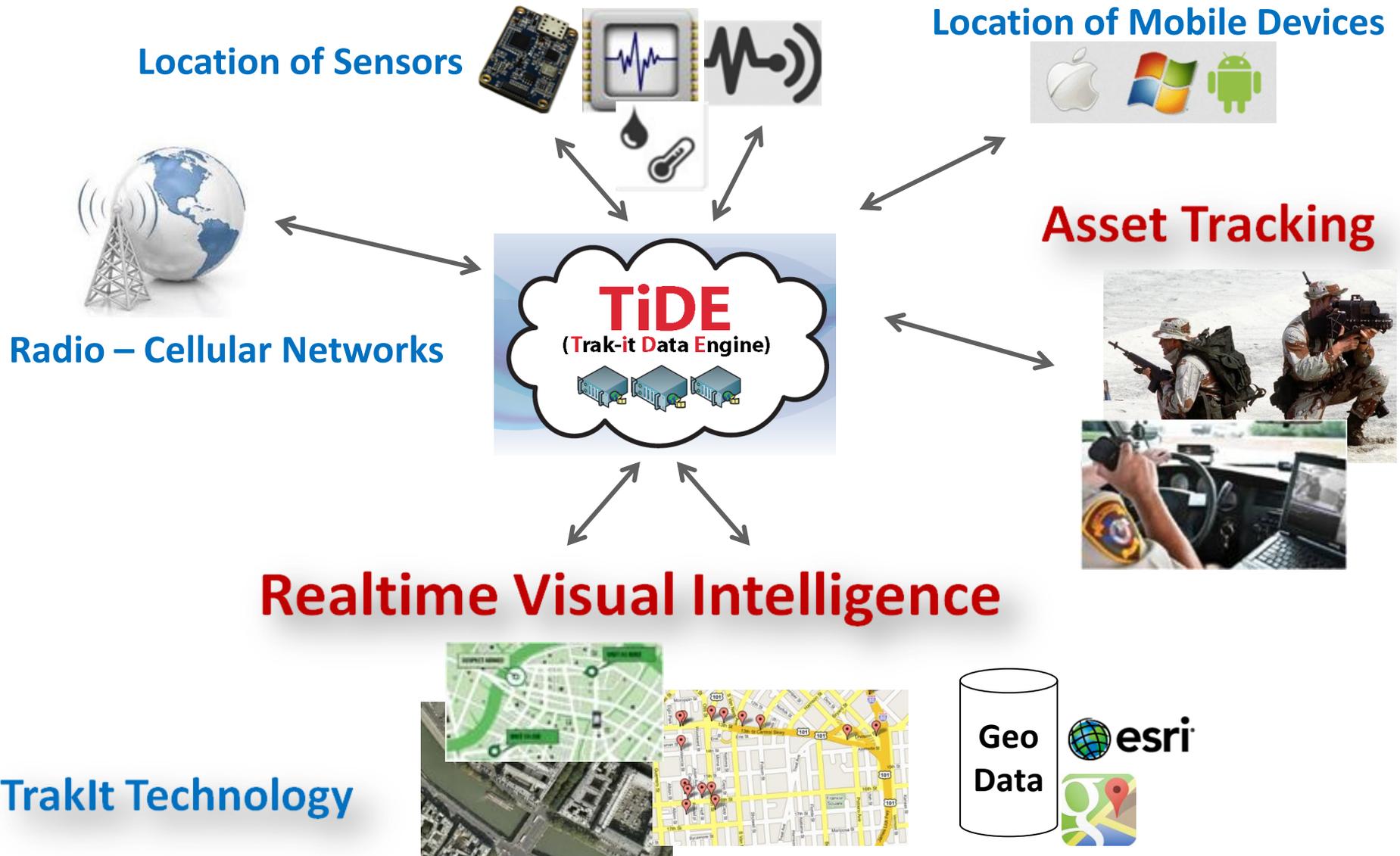
TRUE TEST OF RELATIONSHIP

ABILITY TO CUSTOMIZE

Custom Reports



Customized Location Services



Location of Sensors

Location of Mobile Devices

Radio – Cellular Networks

Asset Tracking

Realtime Visual Intelligence

Trakt Technology



36+ Years of Commitment Continues



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