



**BELL CANADA
TELEPOD**

USER MANUAL

Version 1.01

3/22/2004 12:46 AM



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FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The vehicle-mount antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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1.0	2003-01-22	Eddie Chan	Reviewed
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2 INTRODUCTION

2.1 PRODUCT RELEASE OVERVIEW

Telematics is a fairly new technology that combines computers with telecommunications. In recent years, telematics has primarily been used in conveying vehicle information through various telecommunication mediums. This information can be manipulated into different formats in order to support a number of different purposes and uses.

TelePod was developed in-house by Bell Canada Fleet Services and was originally named the PICCI (Personal In Car Computer Interface). The TelePod is essentially a miniature computer. It has all the physical characteristics of a computer, for example, COM ports, USB ports, Ethernet port, etc. This device is essentially a hub to a wealth of information and data, which can be passed through several mediums such as 1xRTT, satellite, and Ethernet.

This release of the product will include not only the hardware (ie. TelePod), but the applications located on the TelePod which will collect the vehicle information and transport it to the Bell Fleet application system. Fleet managers will find this product useful in the field to gather performance reports and provide more efficient methods of dispatching work orders.

The initial intent of this release is to provide real-time dispatch for technicians, location based services and vehicle performance statistics.

2.2 OVERVIEW

The TelePod user interface is currently being modified. This document is a living document and will be revised as soon as the new user interface has been completed. There are a number of steps that require manual input of data directly into the database in order for the Telematics application to see it.

The current window to data is through Autovision, Bell Canada Fleet Services' vehicle fleet management system. There are two major functions that will be discussed in this document. The first is **Scheduling** and second, **Report Search**. These two functions form the major end-user applications for initial release of the system, and hence are documented here for public instruction.

2.3 ASSUMPTIONS

The assumptions made are for the current product for telematics. In order for the Telematics Server to see the vehicle, there must be a vehicle ID (that is valid) associated to a vehicle in Autovision. Every vehicle ID must have a unique ID which is generated by the SQL Server. This ID is used to identify the vehicle once it registers with the Telematics Server.

Under Autovision, there is a sub-section named Telematics which enables users to view scheduling information and reports. The user is assumed to have this access. Access is granted the Administrator of Autovision (ie. Superuser).

3 DEVICE INSTALLATION

3.1 MOUNTING

Mounting of the device should be in a location at least 20 cm from the driver and passengers. Suggest mounting locations include:

- Vehicle cab wall divider
- Trunk compartment

Remember to check for:

- Routing and length of cabling to fuse panel, OBD connector, dashboard for GPS receiver.
- Exposure to elements such as salt, water and dirt from floor/doors

3.2 POWER AND IGNITION INPUT

Identify two fuses: One that is constant 12V irrespective of key position and a second that is powered only on accessory position.

Run the TelePod power cable from the mounting location to the fuse panel.

Connect:

- Red wire to constant 12V fuse leg
- Orange wire to accessory switched 12V fuse leg
- Black wire to vehicle grounding point

Remember to check for ignition and constant power using a voltmeter to ground. Don't forget to cycle through Off, Ignition and Accessory to ensure the system is supplying voltages at the correct key positions!

3.3 GPS RECEIVER

The GPS Receiver is a separate isolated device from the TelePod and connects via Serial Port.

Connect:

- DB9 serial connector to the TelePod COM Port 2
- Red wire to accessory switched 12V fuse leg
- Black wire to vehicle grounding point.

Place the receiver on the dash with a clear view to the sky. A 120 degree horizontal clearance is required.

3.4 OBD II ADAPTER CABLE

The OBD cable attaches to the vehicle engine computer. Run the OBD II cable from the OBD II serial port of the TelePod to the vehicle diagnostic connector, usually below the dash. You may wish to relocate the connector if the cable gets in the way of driver ingress and egress.

3.5 GLASS MOUNT CELLULAR ANTENNA

The APDM928S glass antenna is affixed to both sides of the windshield. Attach it in a place that does not obstruct the driver's view of the road, such as a top corner, and route the cable to the TelePod mounting location.

The antenna attaches with a SMA screw mount connector.

4 SOFTWARE SCHEDULING

4.1 INTRODUCTION

The scheduling function allows users to schedule events. For example, if users want to find out the vehicle speed every hour, he/she would schedule an event of "vehicle speed" to fire every hour.

There are a number of events which can be selected. They are:

1. Engine Speed
2. Vehicle Speed
3. Throttle Position
4. Odometer
5. Idle Time
6. Idle Time Counter
7. Engine Temperature
8. DTC Codes \$3 (Engine)
9. DTC Code \$7 (Body)
10. MIL (Maintenance Indicator Light) Light
11. GPS (Ping location)

These can be scheduled in intervals of:

1. Immediately
2. 1 minutes
3. 1 Hour
4. Daily
5. Weekly
6. Monthly

Future versions of this system will further restrict the interval based on customer agreements, such as five minute intervals for the majority of users.

Schedules can be created at a number of different levels, depending on customer needs. The basic schedule is called an Enterprise Schedule, and defines a baseline set of events to report on for a given customer. Additional events are overlaid onto the Enterprise Schedule for individual TelePods that a customer owns.

Additional events at the individual TelePod level may be for diagnostics of a intermittent problem on one vehicle or investigation of suspicious activity.

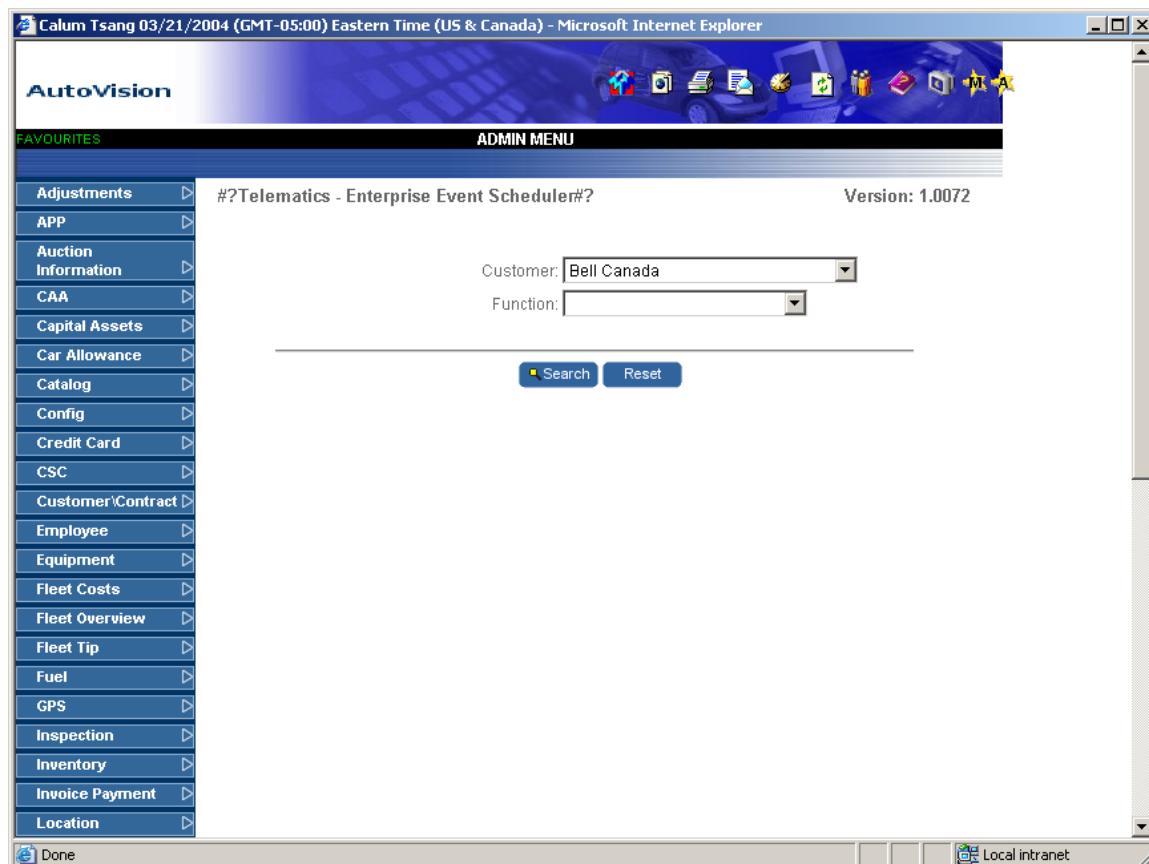
4.2 USAGE

The user must first log into an account on AutoVision with the appropriate security permissions set for Telematics screen usage.

4.2.1 **VIEW SCHEDULED EVENTS (ENTERPRISE)**

To view the scheduled events for a given customer:

1. Click on the **Telematics** menu entry on the left side of the AutoVision window. A number of subentries will appear.
2. Select **Enterprise Schedule** and a screen should appear similar to the one below:



3. Select a Customer and click **Search**. A display of events for the requested customer will appear like this:

4. The user has several options.
 - a. The user can delete a scheduled event by selecting the **X** button.
 - b. The user can edit a scheduled event by selecting the **E** button.
 - c. The user can add another event by inputting information and selecting the **+** button.
 - d. The user can go back to previous screen to select another Customer by clicking the **Reset** button.

4.2.2 DELETE SCHEDULED EVENT (ENTERPRISE)

While viewing an Enterprise Schedule:

1. Click on the **X** button to the right of the desired event.
2. Confirm the deletion.

The system will delete the event from the schedule. The next time each TelePod contacts the server, it will resynchronize their internal schedules based on this change.

4.2.3 EDIT SCHEDULED EVENT (ENTERPRISE)

While viewing an Enterprise Schedule:

1. Click on the **E** button to the right of the desired event. A new screen will appear for that event:

2. Select the **Function** required. This is the type of event requested from the TelePod and includes engine functions, GPS location and diagnostic requests.
3. Pick the **Start Date/Time, End Date/Time** for the beginning and length of this event. Clicking the calendar icon will pop a small selection window open for you to make a choice.
4. Pick a **Frequency** for the events to occur. This can be based on driver events (Ignition: Startup, Shutdown) or on a time (Every X Minutes, Every Week etc).
5. Set the **Status** to Active for the event to be processed.
6. Enter the maximum number of retries in **Max. Retries** for the event to be attempted. This is a throttling safeguard to discourage useless data to be transmitted if the subsystem is unavailable.
7. Click **Save**.

The changed event entry will be updated to reflect your modifications.

4.2.4 ADD SCHEDULED EVENT (ENTERPRISE)

While viewing an Enterprise Schedule:

1. Click on the **+** button at the top right of the event listing. A new screen will appear for that event:

Calum Tsang 03/21/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES ADMIN MENU

Adjustments APP Auction Information CAA Capital Assets Car Allowance Catalog Config Credit Card CSC Customer/Contract Employee Equipment Fleet Costs Fleet Overview Fleet Tip Fuel GPS Inspection Inventory Invoice Payment Location

Telematics - Enterprise Event Edit Version: 1.0072

Customer Name: Bell Canada
Short Name: Bell

Function: DTC Code Count

Start Date: * Start Time: 12:00 AM

End Date: * End Time: 12:00 AM

Frequency: Every X Days * Status: Active

Max. Retries: 5 Max. Requests:

Frequency Value:

Done Local intranet

2. Select the **Function** required. This is the type of event requested from the TelePod and includes engine functions, GPS location and diagnostic requests.
3. Pick the Start **Date/Time**, End **Date/Time** for the beginning and length of this event. Clicking the calendar icon will pop a small selection window open for you to make a choice.
4. Pick a **Frequency** for the events to occur. This can be based on driver events (Ignition: Startup, Shutdown) or on a time (Every X Minutes, Every Week etc).
5. Set the **Status** to Active for the event to be processed.
6. Enter the maximum number of retries in **Max. Retries** for the event to be attempted. This is a throttling safeguard to discourage useless data to be transmitted if the subsystem is unavailable.
7. Click **Save**.

The event schedule will be updated to reflect your addition.

4.2.5 VIEW SCHEDULED EVENTS (INDIVIDUAL)

To view the scheduled events for a given TelePod:

1. Click on the **Telematics** menu entry on the left side of the AutoVision window. A number of subentries will appear.
2. Select **TelePod** and a screen should appear similar to the one below:

Calum Tsang 03/21/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

ADMIN MENU

#?Telematics - TelePod Search#?

Version: 1.0072

Vehicle:

Customer:

Serial No:

#?TelePod Id#?:

Status:

+ New

Done Local intranet

3. Enter in identifying characteristics of the individual TelePod you wish to modify: **Vehicle ID** describes the AutoVision Fleet Vehicle number that the TelePod is assigned to, **Serial Number** describes the manufacturing serial code stamped on the bottom of the hardware device, and **TelePod ID** is the unique device identifier for the Pod itself. The **Customer** filter only appears for users configured with multiple companies and fleets to administer, most customers will only have their own company to search. Once finished, click **Search**. A list of matching TelePod appear:

Calum Tsang 03/21/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES

ADMIN MENU

#?Telematics - TelePod Search#?

Version: 1.0072

Vehicle: Customer:

Serial No: #?TelePod Id#?:

Status:

Serial Number	Vehicle	TelePod	Status	Customer	Make	Model	Model Year
PNZB40000043	05391	505	Active	Bell Canada	Chrysler	B3500	2001
PNZB40000044	05453	4636	Active	Bell Canada	Chrysler	CARAVAN	2001
PNZB40000046		4517	InActive	Bell Canada			
PNZB40000047	00324	4720	Active	Bell Canada	Chrysler	B3500	2000
PNZB40000048		4996	InActive	Bell Canada			
PNZB40000049		4537	InActive	Bell Canada			
PNZB40000050	11029	4518	Active	Bell Canada	Chrysler	CARAVAN	2001

4. Choose an individual TelePod by clicking on its **Serial Number** on the right. A new screen, TelePod Details will appear:

Calum Tsang 03/21/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES ADMIN MENU

Adjustments APP Auction Information CAA Capital Assets Car Allowance Catalog Config Credit Card CSC Customer/Contract Employee Equipment Fleet Costs Fleet Overview Fleet Tip Fuel GPS Inspection Inventory Invoice Payment Location

Telematics - TelePod Details Version: 1.0072

TelePod ID: * Vehicle ID:

Customer: * Status: *

Creation Date: 08/14/2003 2:09:26 PM Serial Number: *

Current Version: 1.0.0.35

Comment:

Buttons:

Telepod Attributes:

Attribute Desc	Data	Attribute Last Updated	
2	03/17/2004 4:08:40 PM		
283497	03/17/2004 2:55:09 PM		
1361.34642414463	03/17/2004 2:55:07 PM		
98327	03/17/2004 2:55:07 PM		
ISO	03/17/2004 8:05:39 AM		
MAC	00:50:C2:1D:C0:10	02/17/2004 7:26:41 AM	
ESN Hex	631FD01	02/17/2004 7:22:09 AM	
ESN Dec	09900130844	02/17/2004 7:15:09 AM	
Telephone Number	4168019280	02/16/2004 2:33:57 PM	

Done Local intranet

5. Scroll down the screen and the Schedule Events for this TelePod will appear. They include the overarching Enterprise Schedule set for the customer this TelePod belongs to:

Calum Tsang 03/21/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

GPS	98327	03/17/2004 2:55:07 PM	
Inspection	ISO	03/17/2004 8:05:39 AM	
Inventory	MAC 00:50:C2:1D:C0:10	02/17/2004 7:26:41 AM	
Invoice Payment	ESN Hex 631FD01	02/17/2004 7:22:09 AM	
Location	ESN Dec 09900130844	02/17/2004 7:15:09 AM	
Maintenance	Telephone Number 4168019280	02/16/2004 2:33:57 PM	
My Home			
Purchase Order			
Reports	Scheduled Events:		
Statistics			
Supplier			
System			
Telematics			
Alert	Engine RPM	Every X Minutes 1	11/20/2003 12:00:00 AM 03/16/2004 12:00:00 AM Enterprise
Enterprise Scheduler	OBDIIRProtocol	On Startup 1	01/01/2003 12:00:00 AM 03/16/2004 12:00:00 AM Enterprise
Group	Odometer	On Shutdown	01/01/2003 12:00:00 AM Enterprise
Log	Ping - GPS	Every X Minutes 5	01/01/2003 12:00:00 AM Enterprise
Report	Vehicle Speed	Every X Minutes 1	01/01/2003 12:00:00 AM 03/16/2004 12:00:00 AM Enterprise
TelePod	VehicleDataIdleTime	On Shutdown 1	01/01/2003 12:00:00 AM Enterprise
Version	VehicleDataRunningTime	On Shutdown 1	01/01/2003 12:00:00 AM Enterprise
Timesheets			
Vehicle			
Warranty			
Work Order			
History			
Top of Page			

90 of 9 Rows per page 5

70 of 7 Rows per page 5

ADMIN MENU

FAVOURITES

Local intranet

6. With this screen:

- The user can delete a scheduled event by selecting the **X** button.
- The user can edit a scheduled event by selecting the **E** button.
- The user can add another event by inputting information and selecting the **+** button.
- The user can go back to previous screen to select another Customer by clicking the **Back** button.

Note, Enterprise Schedule events cannot be deleted from an individual TelePod. Similarly, Enterprise events cannot be changed either. Only those events added to the given Pod can be modified or discarded from this screen.

4.2.6 DELETE SCHEDULED EVENT (INDIVIDUAL)

While viewing an individual schedule on the TelePod Details screen:

- Click on the **X** button to the right of the desired event.
- Confirm the deletion.

The system will delete the event from the schedule. The next time each TelePod contacts the server, it will resynchronize their internal schedules based on this change.

4.2.7 EDIT SCHEDULED EVENT (INDIVIDUAL)

While viewing an individual schedule on the TelePod Details screen:

- Click on the **E** button to the right of the desired event. A new screen will appear for that event:

Calum Tsang 03/22/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

ADMIN MENU

TELEMATICS - TELEPOD EVENT EDIT

Version: 1.0072

TelePod ID: 7411 Vehicle ID: 01180

Customer: Bell Canada

Comment: Calum Tsang

Function: DTC Code Count

Start Date: * Start Time: 12:00 AM

End Date: * End Time: 12:00 AM

Frequency: Every X Days * Status: Active *

Max. Retries: 5 * Max. Requests:

Frequency Value:

Buttons: + New, Save, Reset, < Back

- Select the **Function** required. This is the type of event requested from the TelePod and includes engine functions, GPS location and diagnostic requests.
- Pick the **Start Date/Time, End Date/Time** for the beginning and length of this event. Clicking the calendar icon will pop a small selection window open for you to make a choice.
- Pick a **Frequency** for the events to occur. This can be based on driver events (Ignition: Startup, Shutdown) or on a time (Every X Minutes, Every Week etc).
- Set the **Status** to Active for the event to be processed.
- Enter the maximum number of retries in **Max. Retries** for the event to be attempted. This is a throttling safeguard to discourage useless data to be transmitted if the subsystem is unavailable.
- Click **Save**.

The changed event entry will be updated to reflect your modifications.

4.2.8 ADD SCHEDULED EVENT (INDIVIDUAL)

While viewing an individual schedule on the TelePod Details screen:

- Click on the **+** button at the top right of the event listing. A new screen will appear for that event:

Calum Tsang 03/22/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES ADMIN MENU

Telematics - TelePod Event Edit Version: 1.0072

TelePod ID: 7411 Vehicle ID: 01180

Customer: Bell Canada Comment: Calum Tsang

Function: DTC Code Count *
 Start Date: * Start Time: 12:00 AM
 End Date: * End Time: 12:00 AM
 Frequency: Every X Days * Status: Active *
 Max. Retries: 5 Max. Requests:
 Frequency Value:

Done Local intranet

9. Select the **Function** required. This is the type of event requested from the TelePod and includes engine functions, GPS location and diagnostic requests.
10. Pick the Start **Date/Time**, End **Date/Time** for the beginning and length of this event. Clicking the calendar icon will pop a small selection window open for you to make a choice.
11. Pick a **Frequency** for the events to occur. This can be based on driver events (Ignition: Startup, Shutdown) or on a time (Every X Minutes, Every Week etc).
12. Set the **Status** to Active for the event to be processed.
13. Enter the maximum number of retries in **Max. Retries** for the event to be attempted. This is a throttling safeguard to discourage useless data to be transmitted if the subsystem is unavailable.
14. Click **Save**.

The event schedule will be updated to reflect your addition.

5 SOFTWARE REPORT SEARCH

5.1 INTRODUCTION

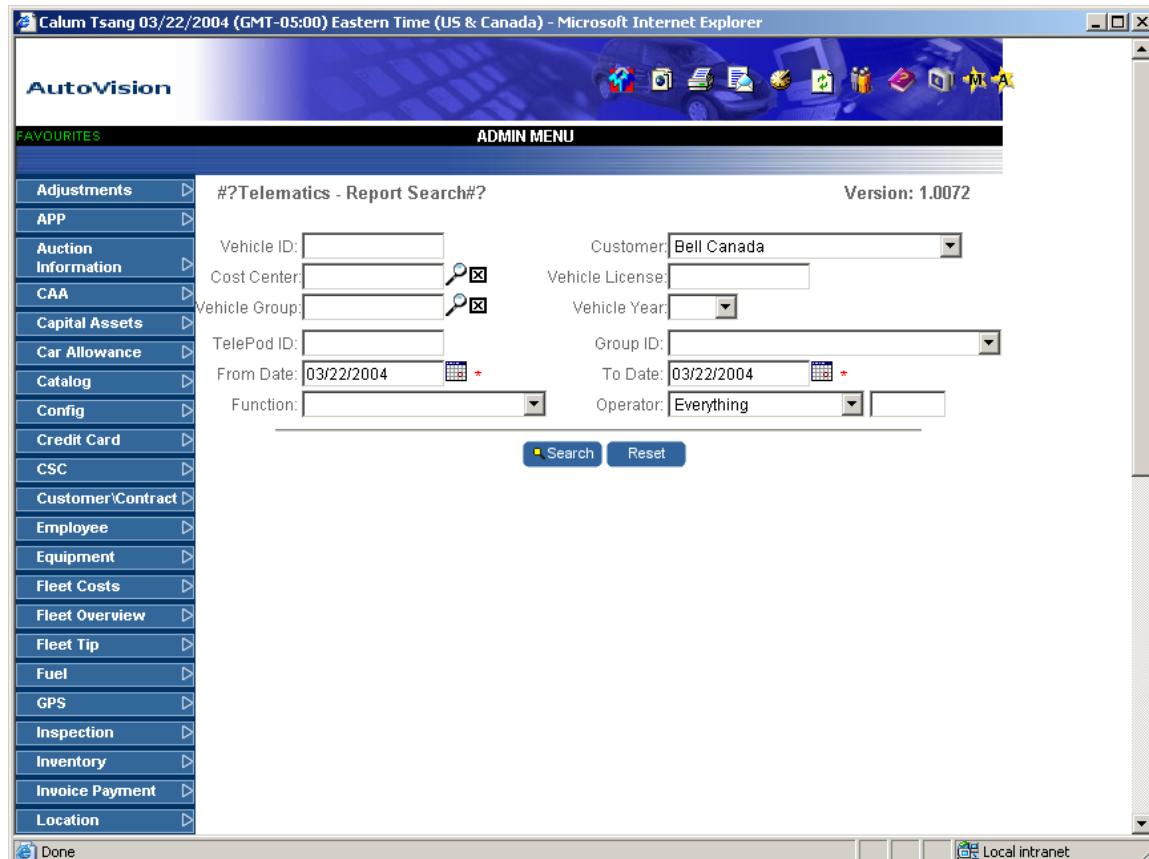
The Report Search function allows users to view reports of a vehicle by a specified time period.

5.2 USAGE

The user must first log into an account on AutoVision with the appropriate security permissions set for Telematics screen usage.

5.2.1 SEARCH REPORTS

1. Click the **Telematics** menu entry at the left side of the AutoVision screen. Next, click the **Report** submenu entry. A new screen will appear:



The screenshot shows the 'Telematics - Report Search' interface. On the left is a vertical menu bar with many options like Adjustments, APP, Auction Information, CAA, Capital Assets, Car Allowance, Catalog, Config, Credit Card, CSC, Customer\Contract, Employee, Equipment, Fleet Costs, Fleet Overview, Fleet Tip, Fuel, GPS, Inspection, Inventory, Invoice Payment, and Location. The main area has search fields for Vehicle ID, Customer (set to Bell Canada), Cost Center, Vehicle License, Vehicle Group, Vehicle Year, TelePod ID, Group ID, From Date (03/22/2004), To Date (03/22/2004), Function, and Operator (Everything). There are 'Search' and 'Reset' buttons at the bottom. The title bar indicates the user is Calum Tsang on 03/22/2004 at GMT-05:00 Eastern Time (US & Canada) in Microsoft Internet Explorer, and the version is 1.0072.

2. Input the desired report criteria. If the specific **TelePod** or **Vehicle ID** is known, enter them directly. If not, the use of multiple criteria can help dwindle the selection to a handful of Pods.
3. Input the **From Date** and **To Date**. The date range is important: use this to select the time period you wish to see Reports from. Use the pop-up calendar to select the date by clicking on the calendar icon. To select only one day, make **From** and **To** the same day.
4. Select **Search**. The user will see a screen similar to the one below:

Calum Tsang 03/22/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES

ADMIN MENU

#?Telematics - Report Search#? Version: 1.0072

Vehicle ID: Customer:

Cost Center: Vehicle License:

Vehicle Group: Vehicle Year:

TelePod ID: Group ID:

From Date: * To Date: *

Function: Operator:

Vehicle	Telepod	Model	Model Year	GPS	Date
20072	6201	SEMI TRAILER	2002	43.728557,-79.297210	03/22/2004
2500101	5345	62340035	2002	45.482742,-73.539842	03/22/2004
3500764	6171	62348035	2003	43.622608,-79.509747	03/22/2004
05776	5936	B2500	2001	45.232268,-75.480272	03/22/2004
3500762	6338	62348035	2003	43.728568,-79.297222	03/22/2004
3500764	6171	62348035	2003	43.622693,-79.509740	03/21/2004
05776	5936	B2500	2001	45.232322,-75.480378	03/21/2004
3500762	6338	62348035	2003	43.728573,-79.297093	03/21/2004
90312	6414	F450	1999	46.618363,-71.165400	03/21/2004
20072	6201	SEMI	2002	43.728533,-79.297188	03/21/2004

Local intranet

5. A list of vehicles with reports matching the criteria entered will appear at the bottom of the screen. Additionally, you can sort the columns based on Vehicle Number, TelePod ID, Model Year or Date (Default).

5.2.2 VIEW REPORTS

1. Click on the **Vehicle** number to the left of the screen. A report similar to the one below will appear:

Calum Tsang 03/22/2004 (GMT-05:00) Eastern Time (US & Canada) - Microsoft Internet Explorer

AutoVision

FAVOURITES

ADMIN MENU

Telematics - Report Details Version: 1.0072

Event Information

Vehicle Id: 05776 Customer: Bell
Telepod Id: 5936 Events Date: 03/21/2004

Function Operator Everything

Search Export

Function	Value	Position	Log Time
Ping - GPS		45.232322,-75.480378	23:59:23
Ping - GPS		45.232315,-75.480272	23:44:23
Ping - GPS		45.232220,-75.480302	23:40:10
Ping - GPS		45.232325,-75.480310	23:34:21
Ping - GPS		45.232383,-75.480307	23:19:19
Ping - GPS		45.232407,-75.480328	23:14:20
Ping - GPS		45.232362,-75.480373	23:09:19
Ping - GPS		45.232323,-75.480342	22:44:18
Ping - GPS		45.232332,-75.480340	22:39:17

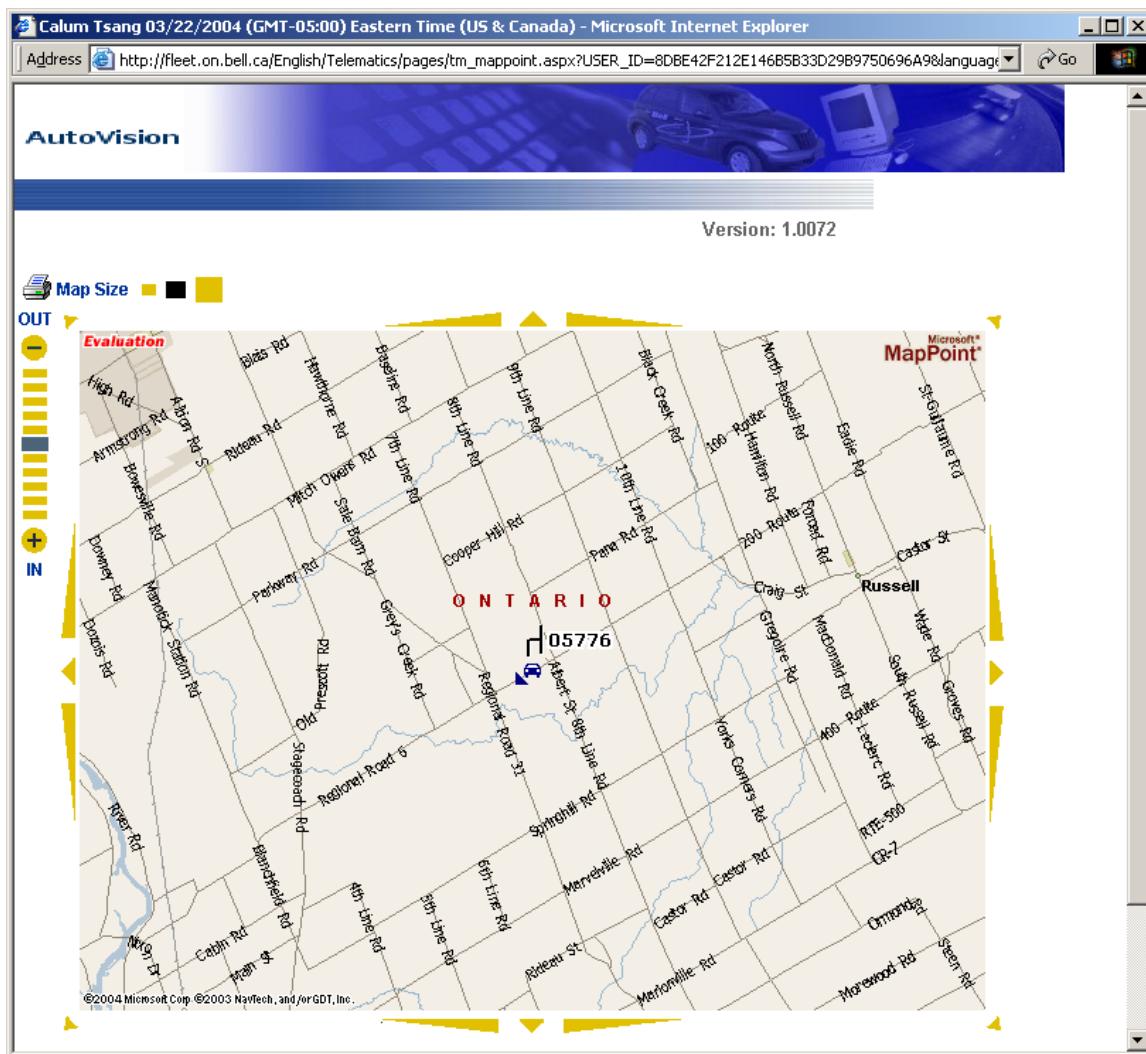
Local intranet

2. To review the data presented, you can use the **page forward and back controls** at the bottom of the page. By default, the results of scheduled events are shown in order of the logged time.

5.2.3 VIEW MAP LOCATION

Every scheduled event lays down a position value. To see the position of the vehicle at the logged time of the event:

1. Search and View a Report, bringing the Report Details screen up.
2. Click the Position coordinates on the right side of the event entry. A new window will open, showing an interactive map:

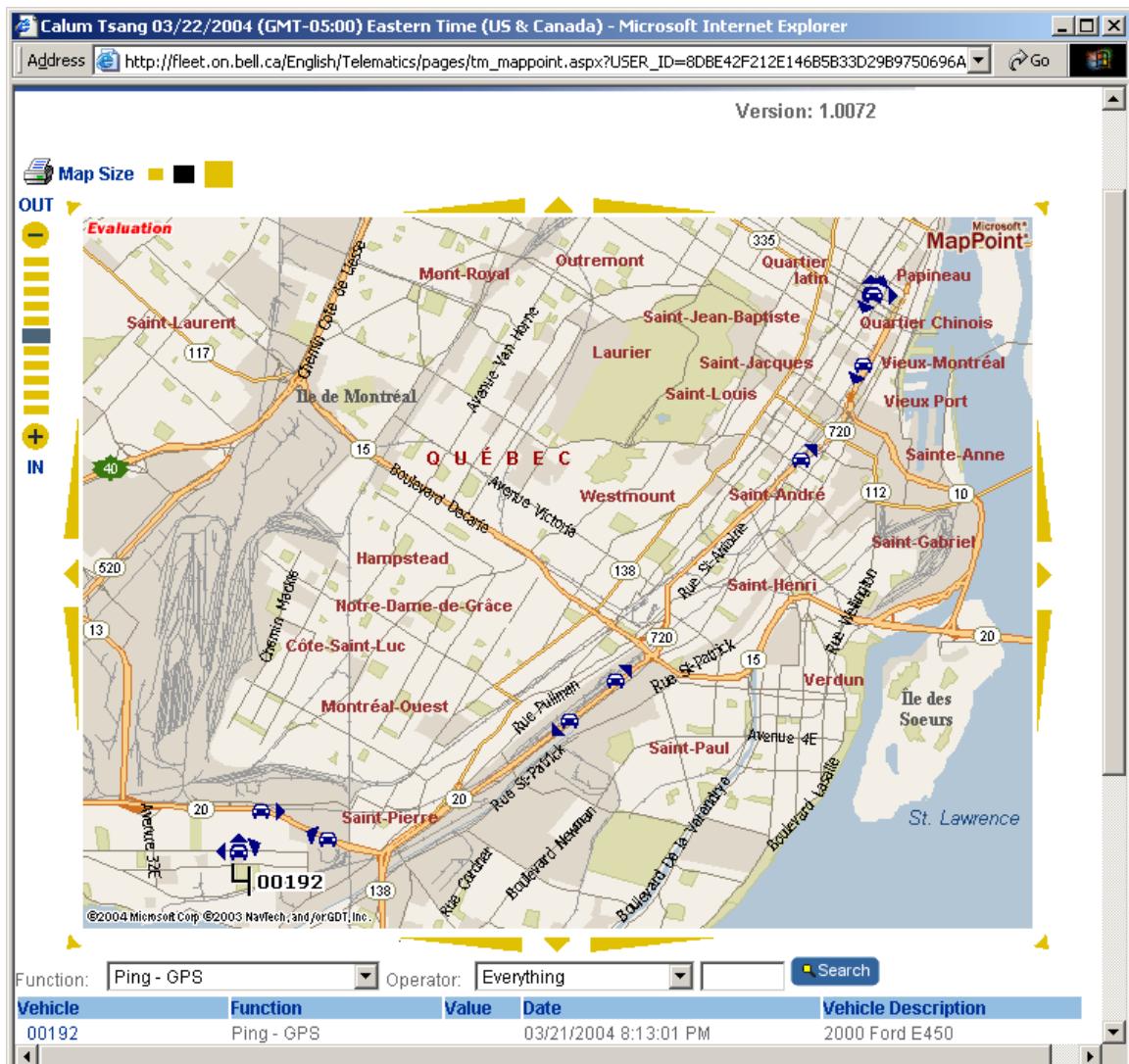


3. The **car icon** shows the location of the vehicle at the time of the event entry. The number near the car is the Vehicle ID of the unit in question. A small **arrowhead** shows the direction the vehicle was traveling in.
4. Use the **map arrows** at the edge of the screen to pan the map around. To increase or decrease the **map magnification**, use the buttons on the zoom control to the top right. The size of the map can be controlled with the **map size** buttons at the very top of the screen.

5.2.4 VIEW VEHICLE ROUTE

Every scheduled event lays down a position value. These form a trail of GPS locations that show where a driver traveled. To see the last 30 points driven:

1. Search and View a Report, bringing the Report Details screen up.
2. Click the **Route Map** icon at the top right of the report details. A new window will open, showing an interactive map:



3. The **car icons** show where the vehicle location and direction at each of the recorded events on the TelePod.
4. Use the **map arrows** at the edge of the screen to pan the map around. To increase or decrease the **map magnification**, use the buttons on the zoom control to the top right. The size of the map can be controlled with the **map size** buttons at the very top of the screen.