Satellite-based telematics/fleet management solution

Overview
SatSmart offers an end to end telematics platform that utilises a global satellite communications network to link telematics service providers (TSPs) and enterprise fleet managers (EFMs) to cars, boats, trucks, containers and so on, almost anywhere in the world.

Utilising a low earth orbiting satellite system, the Smart Telematics System provides full coverage, worldwide. The satellite system enables two-way data messaging service, enabling tracking, remote monitoring and control and text messaging services.

The Smart Telematics System doesn’t require any infrastructure, just in-vehicle devices and back end software, enabling TSPs and EFMs to quickly go to market or expand existing services into other geographies.

SatSmart’s units are scalable to provide a variety of front-end data services, such as:

- Connect to on-board systems, sensors and controls for remote monitoring and control
- Connect to external messaging devices for text messaging services, such as e-mail, driver/dispatcher messaging and location-based information services
- Program application software to automatically monitor vehicle conditions and send alerts or log activities and events.

Smart Telematics Server
The Smart Telematics Server is the back end software that manages communication and services between units and back end users and applications.

Powered by SatSmart’s Java™ 2 Enterprise Edition (J2EE) application software, WebSphere Application Server and DB2, the Smart Telematics Server enables a variety of services, such as:

Highlights

- Satellite-based telematics solution for service providers and fleet managers
- Full coverage, worldwide
- Web-based fleet management application accessible from any Internet browser
- Low cost – no infrastructure, affordable satellite devices and service
- Quick time to market/immediate expansion into other geographies.
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Two-way data communications
with SatSmart’s Smart
Telematics Units
Stores subscriber information for
billing, unit activities and events
for history reports and current
status information
Configurable set of telematics/
fleet management services, such
as position and status reports,
alerts, commands and text
messages including, e-mails,
driver/dispatcher messaging and
location-based services (LBS)
Includes a basic Web-based
fleet management application
for multiple users to monitor
and interact with units from any
Internet browser
Mapping functions, powered by
MapInfo’s MapXtreme, which
generates digital maps for Web
users to view subscriber location.

For customers with existing
telematics/fleet management
software, the server can function as a
gateway for satellite-based services.
SatSmart can integrate the software
into the customer’s back end system.

Web-based fleet management
application
SatSmart’s Web application enables
multiple users to interact with mobile
devices via any Internet browser.
The server comes with a basic
fleet management application that
enables services such as:

- Viewing units’ location on
digital maps stored on the server
- Viewing units according to fleets
- Polling position and status
reports
- Sending commands such as
remote door unlock
- Sending/receiving text messages
for driver/dispatcher messaging
- Retrieving subscriber
information from database
- Printing unit history reports.

Solutions
The Smart Telematics System
provides a platform for a variety of
land-mobile and marine solutions:

Land mobile solutions:
- Trucks and trailers
- Locomotives and rail cars
- Intermodal containers
- Heavy equipment
- Automobiles and recreational
  vehicles.

Marine solutions:
- Recreational boats
- Commercial fishing vessels
- Barges
- Tow/tug boats.

Opportunities
Leveraging the IBM WebSphere
Everyplace Server, SatSmart offers
TSPs and EFMs scalability to support
additional services:

- Alert notifications – forward
  incoming alerts to field
  personnel using e-mail and
  Short Message Service (SMS)
  devices using WebSphere
  Application Server
- IBM WebSphere Transcoding
  Publisher – enables field
  personnel or subscribers to access
  SatSmart’s fleet management
  application online via wireless
  Personal Digital Assistants
  (PDAs)
- IBM WebSphere Portal Server
  – enables portal customers to
  access SatSmart’s Smart
  Telematics System remotely
- IBM WebSphere Wireless
  Gateway – enables customers
to add Wireless Application
  Protocol (WAP)/Handheld
  Device Markup Language
  (HDMI), SMS and other
  wireless Transmission Control
  Protocol/Internet Protocol
  (TCP/IP) based communication
  onto SatSmart’s platform.

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