

PlaneRoaming[©]

give your passengers reachability on their cellular number without a cellular base station

You, an airline or an aircraft operator, are already offering Internet Access to your passengers, via Wi-Fi in cabin coverage (or are planning to do).

You realize most of your passengers carry on board PDAs, SmartPhones or tablets.

You are thinking to give them connectivity and reachability on **their mobile phone number**, by installing an on board cellular base station but

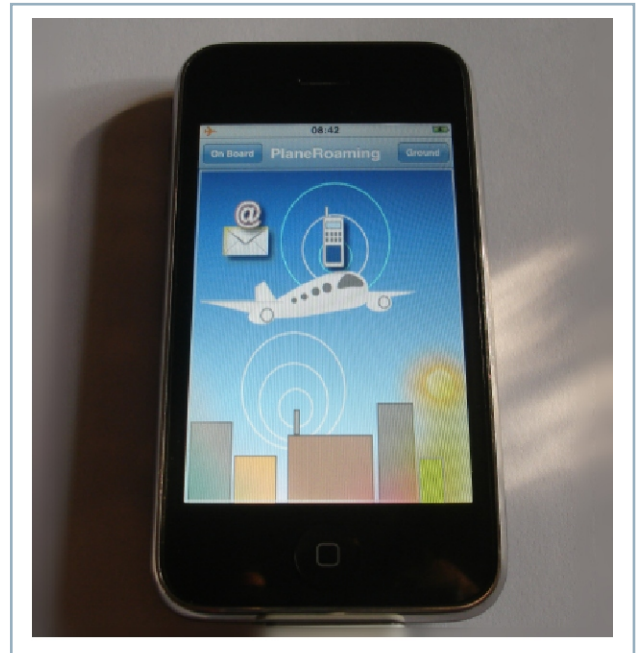
You do not want to invest on an extra radio cellular network, and do not want to carry the OPEX related to additional equipment weight and power consumption

You want to avoid increasing radio emission on board and you do not want to give your passengers conflicting messages regarding the safety of cellular usage on board

You do not want to get involved in roaming agreements with mobile network operators and You want to control yourself the tariffs associated with this service.

Planeroaming

Planeroaming is a set of client/server applications running on passenger PDA and on ground/on board servers, which cooperatively give the passengers the ability of send/receive messages(SMS or EMail) while on board, phone calls notifications or even VoIP calls.



Passengers can decide to become reachable. If so, messages and incoming calls addressed to the passenger mobile number, are rerouted and delivered on board for the duration of the flight. Of course they can use the contacts on their PDA.

With planeroaming, airlines have a lot of flexibility.

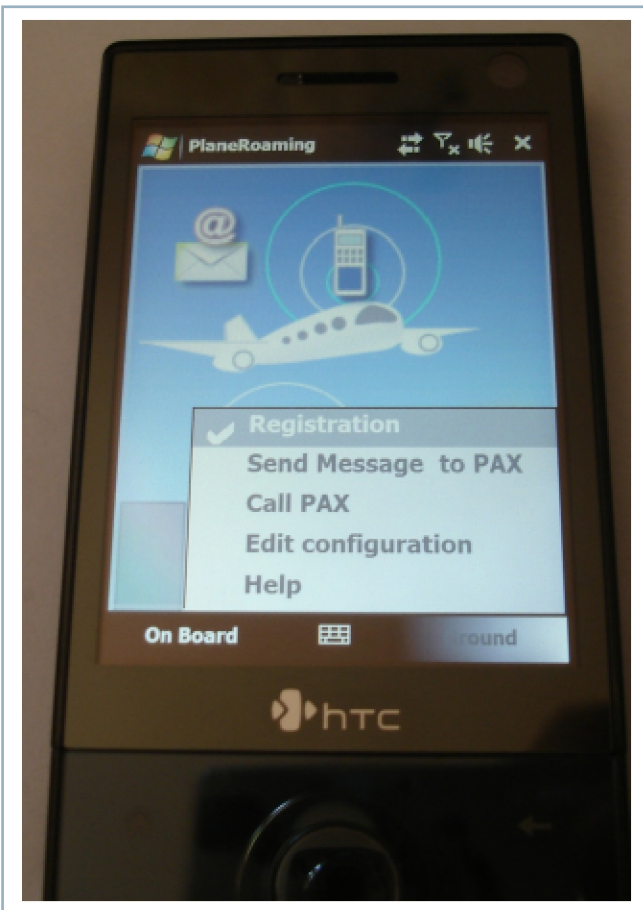
PlaneRoaming

PlaneRoaming Mobile Numbers

Flight Nr A@ 201		
Phone Nr	From	To
39335222908	2009-09-08 10:10:00	2009-09-08 12:10:00
44123456789	2009-09-08 10:15:00	2009-09-08 11:10:00
12345678776	2009-09-08 10:20:00	2009-09-08 12:40:00
Flight Nr A@ 412		
Phone Nr	From	To
39335111908	2009-09-08 10:10:00	2009-09-08 12:10:00
44198765432	2009-09-08 10:15:00	2009-09-08 11:10:00
12345678910	2009-09-08 10:20:00	2009-09-08 12:40:00

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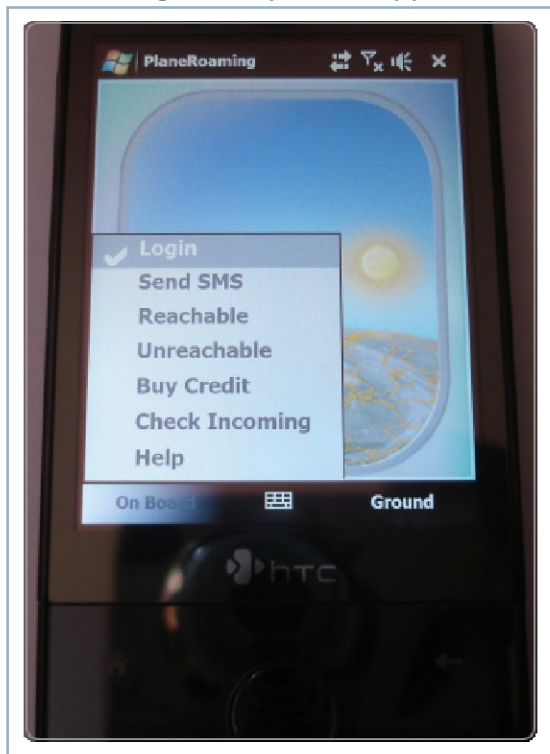
PlaneBill



The system can be configured, for example to offer **free notifications for incoming calls** to the passenger, which then, in turn, can decide to place a premium outgoing VoIP call, or send an SMS to the originating user on ground.

In many cases SMS is sufficient to get important messaging through while on board, thus also saving in the air to ground link costs.

As complex as the underlying system may be, this complexity is hidden to the users on ground and on board through a simple GUI application.



This roaming technology is not restricted to airplanes but can be used for example to be reachable indoors on a WiFi network if there is poor cellular coverage.

All they need to do, is to download and install a **client application** on their WiFi equipped PDA or SmartPhone.

The system is completed by a **ground server** and an **onboard server**.

For on board, the server can be just an additional application running on the already existing web server which is installed for IFE or connectivity.

This server includes the **billing** part, which can be configured by the airline, which has full control over the tariffs and the service too.

Tariff Name	Currency	Incoming SMS	Outgoing SMS	Incoming VoIP Notification	Incoming VoIP per minute	Outgoing VoIP per minute	Incoming email per kbyte	Outgoing email per kbyte
Business	EUR	0.5	0.4	0.2	1.0	1.0	0.4	0.4
Economy	EUR	0.6	0.5	0.3	1.5	1.5	0.6	0.7

Lawful interception and control is supported.

Clients are available now for Windows Mobile, iPhone, Android and in development for Palm WebOS, Blackberry, and Nokia Symbian S60. Servers run on Linux, Windows and MacOS.

Give them reachability on their number, ... Today

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