

specific services is being able to locate relevant information according to the passenger's current location.

It is a further aspect of the present disclosure to provide information based on itinerary. The itinerary may include the passenger name or other identifying information, the time and location of updated key events including aircraft boarding, departure, landing, and de-boarding, as well as itinerary changes requested by the passenger and those caused by airline and air-traffic events (e.g. delays, diversions, and cancelations.)

In one example, a system for providing passenger information includes a passenger electronic device and a managing unit. The passenger electronic device is configured to send at least personal data, device geolocation and device time-stamp information. The managing unit is configured to obtain a passenger itinerary and to confirm a passenger identity based upon a match between the personal data, device geolocation and device time-stamp information received from the passenger electronic device, and information contained in the passenger itinerary. The managing unit further is configured to access updated air traffic information relevant to the passenger at a System Wide Information Management (SWIM) infrastructure upon confirming the passenger identity, and to generate and send a passenger report comprising flight status information to the passenger electronic device for display on the passenger electronic device.

In another example, a computer-implemented method for providing passenger information includes receiving, from a passenger electronic device, at least personal data, device geolocation and device time-stamp information; obtaining a passenger itinerary and confirming a passenger identity, by a managing unit, based upon a match between the personal data, device geolocation and device time-stamp information received from the passenger electronic device, and information contained in the passenger itinerary; accessing updated air traffic information relevant to the passenger at a System Wide Information Management (SWIM) infrastructure upon confirming the passenger identity; and generating and sending, by the managing unit, a passenger report comprising flight status information to the passenger electronic device for display on the passenger electronic device.

Further objects and advantages of the present invention will be apparent from the following description, reference being made to the accompanying drawings wherein preferred embodiments of the invention are clearly illustrated.

BRIEF DESCRIPTION OF THE DRAWINGS

A series of drawings which aid in better understanding the disclosure and which are presented as non-limiting examples and are very briefly described below.

Fig. 1 schematically shows passengers' connectivity to SWIM infrastructure.

Fig. 2 schematically shows Passenger Management System (PMS) design.

Fig. 3 shows a block diagram.

DETAILED DESCRIPTION

By enabling passengers' access to SWIM, a bidirectional communication is established. Valuable information may be exchanged between passengers and SWIM stakeholders. SWIM information may be enriched from passengers' information and passengers may benefit from the access to the SWIM information.

Although the list of possible feature is almost unlimited, next list gathers a preliminary set of main features that may be implemented in the Passengers Access to SWIM (PAoS):

- Passenger no-show information sharing.
- Passenger baggage and weight information can be shared before check-in.
- Passenger position in the airport, useful for instance in case of gate change.
- Electronic Individual Last call.

CLAIMS

1. A system for providing passenger information comprising:
- 5 - a passenger electronic device configured to send at least personal data, device geolocation and device time-stamp information;
- a managing unit configured to obtain a passenger itinerary and to confirm a passenger identity based upon a match between the personal data, device geolocation and device time-stamp information received from the passenger electronic device, and
- 10 information contained in the passenger itinerary; the managing unit further configured to access updated air traffic information relevant to the passenger at a System Wide Information Management (SWIM) infrastructure upon confirming the passenger identity, and to generate and send a passenger report comprising flight status information to the passenger electronic device for display on the passenger electronic device.
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2. The system of claim 1, wherein the managing unit is configured to send an automatic notification of events relevant to the passenger based upon recent geolocation, present and an inference of future of passenger's geolocation.
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3. The system of claim 1 or 2, wherein the passenger report sent to the passenger electronic device further comprises at least one of the following information: passenger baggage weight, baggage location, passengers' position at airport, electronic last call and booked connecting flight.
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4. The system of any of claims 1 to 3, wherein the managing unit is configured to send an input request to the passenger electronic device for updating data of the SWIM infrastructure or for reporting an emergency.
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5. The system of any of claims 1 to 4, wherein the passenger electronic device is configured to receive an electronic airline ticket and to retrieve the passenger identity and passenger itinerary therefrom.

6. The system of any of claims 1 to 5, wherein passenger electronic device is selected among a group consisting of: a home or office computer, a laptop or tablet computer, a cell phone, a smart watch, an in-flight entertainment unit.

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7. A computer-implemented method for providing passenger information comprising:

- receiving, from a passenger electronic device, at least personal data, device geolocation and device time-stamp information;

- obtaining a passenger itinerary and confirming a passenger identity, by a managing unit, based upon a match between the personal data, device geolocation and device time-stamp information received from the passenger electronic device, and information contained in the passenger itinerary;

- accessing updated air traffic information relevant to the passenger at a System Wide Information Management (SWIM) infrastructure upon confirming the passenger identity;

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- generating and sending, by the managing unit, a passenger report comprising flight status information to the passenger electronic device for display on the passenger electronic device.

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8. The computer-implemented method of claim 7, wherein the managing unit is configured to send an automatic notification of events relevant to the passenger based upon recent geolocation, present and an inference of future of passenger's geolocation.

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9. The computer-implemented method of claim 7 or 8, wherein the passenger report sent to the passenger electronic device further comprises at least one of the following information: passenger baggage weight, baggage location, passengers' position at airport, electronic last call and booked connecting flight.

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10. The computer-implemented method of any of claims 7 to 9, wherein the managing unit is configured to send an input request to the passenger electronic device for updating data of the SWIM infrastructure or for reporting an emergency.

- 11.** The computer-implemented method of any of claims 7 to 10, wherein the passenger electronic device is configured to receive an electronic airline ticket and to retrieve the passenger identity and passenger itinerary therefrom.
- 5 **12.** The computer-implemented method of any of claims 7 to 11, wherein the device geolocation is determined by at least one of a group consisting of: GPS circuitry in the passenger electronic device, the IP address of the passenger electronic device, by triangulation.
- 10 **13.** A computer program product for providing passenger information comprising computer code instructions that, when executed by a processor, causes the processor to perform the method of any of claims 7 to 12.