

different systems in the aircraft. Further, the operator may interact with the displays to store information for later use. For example, if the revolutions per minute or temperature values are greater than desired, an alert may occur. The display system may have a functionality that allows the operator to store these values at the time the alert occurs for future review in maintenance after the flight of the aircraft.

When a limited number of display devices are available in a display system for displaying different information about the aircraft, an operator may view the information for different systems by selecting the displays that the operator wants to view. Moving from one display to another display, however, may sometimes be more time consuming than desired.

Thus, it would be advantageous to have a method and apparatus that takes into account at least some of the issues discussed above, as well as possibly other issues.

SUMMARY

In one aspect, there is provided a method for displaying aircraft information, the method comprising: detecting, by a processor unit, a plurality of selections of pieces of dynamic information about an aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft; adding, by the processor unit, the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface; displaying the custom display on the user interface on a display system for the aircraft; determining, by the processor unit, whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and storing, by the processor unit, screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.

In another aspect, there is provided an apparatus comprising: a display system for an aircraft; and a computer system configured to detect a plurality of selections of pieces of dynamic information about the aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft; add the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface; display the custom display on the user interface on the display system for the aircraft; determine whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and store screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.

In yet another aspect, there is provided a custom display system for an aircraft, the custom display system comprising: a display system for the aircraft; and a computer system configured to detect a plurality of selections of pieces of dynamic information about the aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft; add the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface, wherein a number of pieces of dynamic information about the aircraft from a number of different displays is present in the custom display in addition to the pieces of dynamic information from the plurality of displays; identify a set of functions for the pieces of dynamic information; add the set of functions to the custom display; display the custom display on the user interface on the display system for the aircraft; determine whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and store screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.

In one advantageous embodiment, a method for displaying aircraft information is provided. A selection of a piece of dynamic information is detected about an aircraft on a first display on a user interface. The piece of dynamic information is used to operate the aircraft and changes during operation of the aircraft. The piece of dynamic information selected from the first display is added to a custom display on the user interface. The custom display is displayed on the user interface on a display system for the aircraft.

In another advantageous embodiment, an apparatus comprises a display system for an aircraft and a computer system. The computer system is configured to detect a selection of a piece of dynamic information about an aircraft on a first display on a user interface. The piece of dynamic information is used to operate the aircraft and changes during operation of the aircraft. The computer system is further configured to add the piece of dynamic information selected from the first display to a custom display on the user interface. The computer system is further configured to display the custom display on the user interface on the display system for the aircraft.

In yet another advantageous embodiment, a custom display system for an aircraft comprises a display system for the aircraft and a computer system. The computer system is configured to detect a selection of a piece of dynamic information

CLAIMS:

What is claimed is:

1. A method for displaying aircraft information, the method comprising:
detecting a selection (124) of a piece of dynamic information (126) about an aircraft (102) on a first display (128) on a user interface (116), wherein the piece of dynamic information (126) is used to operate the aircraft (102) and changes during operation of the aircraft (102);
adding the piece of dynamic information (126) selected from the first display (128) to a custom display (130) on the user interface (116); and
displaying the custom display (130) on the user interface (116) on a display system (112) for the aircraft (102).
2. The method of claim 1 further comprising:
identifying a set of functions (134) for the piece of dynamic information (126) selected; and
adding the set of functions (134) to the custom display (130).
3. The method of claim 1 further comprising:
displaying values (256) for the piece of dynamic information (126) on the custom display (130), wherein the values (256) were stored during the operation of the aircraft (102).
4. The method of claim 1, wherein the display system (112) is located on at least one of the aircraft (102) and a location remote to the aircraft (102).
5. The method of claim 1 further comprising:
storing values (256) for the piece of dynamic information (126) during the operation of the aircraft (102).
6. The method of claim 1 further comprising:
storing screenshots of the custom display (130) during the operation of the aircraft (102).

7. The method of claim 1 further comprising:
storing the custom display (130) for use at a subsequent time.
8. An apparatus comprising:
a display system (112) for an aircraft (102); and
a computer system (104) configured to detect a selection (124) of a piece of dynamic information (126) about the aircraft (102) on a first display (128) on a user interface (116), wherein the piece of dynamic information (126) is used to operate the aircraft (102) and changes during operation of the aircraft (102); add the piece of dynamic information (126) selected from the first display (128) to a custom display (130) on the user interface (116); and display the custom display (130) on the user interface (116) on the display system (112) for the aircraft (102).
9. The apparatus of claim 12, wherein the computer system (104) is further configured to identify a set of functions (134) for the piece of dynamic information (126); and add the set of functions (134) to the custom display (130).
10. The apparatus of claim 12, wherein the computer system (104) is further configured to display values (256) for the piece of dynamic information (126) on the custom display (130), wherein the values (256) were stored during the operation of the aircraft (102).
11. The apparatus of claim 12, wherein the display system (112) is located on at least one of the aircraft (102) and a location remote to the aircraft (102).
12. The apparatus of claim 12, wherein the computer system (104) is further configured to store values (256) for the piece of dynamic information (126) during the operation of the aircraft (102).
13. The apparatus of claim 12, wherein the computer system (104) is further configured to store screenshots of the custom display (130) during the operation of the aircraft (102).

14. A custom display system for an aircraft (102), the custom display system comprising:

a display system (112) for the aircraft (102); and

a computer system (104) configured to detect a selection (124) of a piece of dynamic information (126) about the aircraft (102) on a first display (128) on a user interface (116), wherein the piece of dynamic information (126) is used to operate the aircraft (102) and changes during operation of the aircraft (102); add the piece of dynamic information (126) selected from the first display (128) to a custom display (130) on the user interface (116), wherein a number of pieces of dynamic information about the aircraft (102) from a number of different displays is present in the custom display (130) in addition to the piece of dynamic information (126) from the first display (128); identify a set of functions (134) for the piece of dynamic information (126); add the set of functions (134) to the custom display (130); and display the custom display (130) on the user interface (116) on the display system (112) for the aircraft (102).

CLAIMS:

What is claimed is:

1. A method for displaying aircraft information, the method comprising:
detecting, by a processor unit, a plurality of selections of pieces of dynamic information about an aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft;
adding, by the processor unit, the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface;
displaying the custom display on the user interface on a display system for the aircraft;
determining, by the processor unit, whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and
storing, by the processor unit, screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.
2. The method of claim 1 further comprising:
identifying a set of functions for the pieces of dynamic information selected; and
adding the set of functions to the custom display.
3. The method of claim 1 further comprising:
displaying values for the pieces of dynamic information on the custom display, wherein the values were stored during the operation of the aircraft.
4. The method of claim 1, wherein a number of pieces of dynamic information about the aircraft from a number of different displays is present in the custom display in addition to the pieces of dynamic information from the plurality of displays.
5. The method of claim 1, wherein the display system is located on at least one of the aircraft and a location remote to the aircraft.
6. The method of claim 1 further comprising:

storing values for the pieces of dynamic information during the operation of the aircraft.

7. The method of claim 1, wherein displaying the custom display on the user interface on the display system for the aircraft comprises:

displaying the custom display on the user interface on the display system for the aircraft during the operation of the aircraft, wherein the plurality of selections are made by an operator via a number of user input devices during the operation of the aircraft.

8. The method of claim 1 further comprising:

storing the custom display for use at a subsequent time.

9. The method of claim 1, wherein the pieces of dynamic information about the aircraft are selected from one of an engine temperature, a fuel use, an altitude, a position of a control surface, cabin temperature, hydraulic pressure, and a fuel level.

10. The method of claim 1, wherein the plurality of displays are for systems in the aircraft selected from a hydraulic system, a fuel system, an electrical system, a landing gear system, a control surface system, a sensor system, and an environmental system.

11. An apparatus comprising:

a display system for an aircraft; and

a computer system configured to detect a plurality of selections of pieces of dynamic information about the aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft; add the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface; display the custom display on the user interface on the display system for the aircraft; determine whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and store screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.

12. The apparatus of claim 11, wherein the computer system is further configured to identify a set of functions for the pieces of dynamic information; and add the set of functions to the custom display.

13. The apparatus of claim 11, wherein the computer system is further configured to display values for the pieces of dynamic information on the custom display, wherein the values were stored during the operation of the aircraft.

14. The apparatus of claim 11, wherein a number of pieces of dynamic information about the aircraft from a number of different displays is present in the custom display in addition to the pieces of dynamic information from the plurality of displays.

15. The apparatus of claim 11, wherein the display system is located on at least one of the aircraft and a location remote to the aircraft.

16. The apparatus of claim 11, wherein the computer system is further configured to store values for the pieces of dynamic information during the operation of the aircraft.

17. The apparatus of claim 11, wherein in being configured to display the custom display on the user interface on the display system for the aircraft, the computer system is configured to display the custom display on the user interface on the display system for the aircraft during the operation of the aircraft, wherein the plurality of selections are made by an operator via a number of user input devices during the operation of the aircraft.

18. A custom display system for an aircraft, the custom display system comprising:
a display system for the aircraft; and
a computer system configured to detect a plurality of selections of pieces of dynamic information about the aircraft on a plurality of displays on a user interface, wherein the pieces of dynamic information are used to operate the aircraft and change during operation of the aircraft; add the pieces of dynamic information selected from the plurality of displays to a custom display on the user interface, wherein a number of pieces of dynamic information about the aircraft from a number of different displays is present in the custom display in addition to the pieces of dynamic information from the plurality of displays; identify a set of functions for the pieces of dynamic information; add the set of functions to the custom display; display the custom display on the

user interface on the display system for the aircraft; determine whether a number of selected events have occurred during the operation of the aircraft, wherein the number of selected events include at least one of a selected speed for the aircraft, a beginning of a selected phase of flight for the aircraft, an alert being generated, a notification being received from a ground station, and landing gear being deployed; and store screenshots of the custom display during the operation of the aircraft in response to a determination that any of the number of selected events has occurred.