CLAIMS

1. Method of authenticating a session user in a session initiated on a computing device, comprising:
   (i) identifying, by an authentication server, an authentication device associated with an identifier for the session;
   (ii) identifying, by the authentication server, a selection of an authentication verifier from a set of possible authentication verifiers for the session, the selected authentication verifier being communicated by the authentication server to the computing device within the session to the session user;
   (iii) providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device for the session, the at least two of the set of possible authentication verifiers including the selected authentication verifier;
   (iv) receiving, by the authentication server, an authentication device selection from the authentication device of a user's selection from the at least two of the set of possible authentication verifiers; and
   (v) determining, by the authentication server, if the authentication device selection matches the selected authentication verifier as communicated within the session to the computing device.

2. Method of authenticating a session user in a session initiated on computing device according to claim 1, wherein identifying, by the authentication server, the selection of the authentication verifier from the set of possible authentication verifiers for the session includes selecting the authentication verifier from the set of possible authentication verifiers for the session.

3. Method of authenticating a session user in a session initiated on computing device according to claim 2, wherein selecting the authentication verifier from the set of possible authentication verifiers for the session includes

randomly selecting the authentication verifier from the set of possible authentication verifiers for the session.

4. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, wherein providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device for the session comprises providing from 8 to 100 of the set of possible authentication verifiers for the session for selection at the authentication device.

5. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, wherein providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device for the session comprises providing a graphical user interface operable to receive the authentication device selection.

6. Method of authenticating a session user in a session initiated on a computing device according to claim 5, wherein the graphical user interface is provided in the form of an interactive push overlay notification to the authentication device.

7. Method of authenticating a session user in a session initiated on a computing device according to any one of the proceeding claims, wherein each of the set of possible authentication verifiers comprises a different respective drag direction for at least one object; and wherein the selected authentication verifier being communicated to the computing device includes the at least one object being dragged in a specific direction, and wherein providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device for the session includes providing the at least one object for display at the

authentication device with a plurality of possible drag directions for selection by the user.

8. Method of authenticating a session user in a session initiated on a computing device according to claim 7, wherein step (v) includes determining if the drag direction of the at least one object selected by the user at the authentication device matches the specific drag direction of the at least one object communicated to the computing device.

9. Method of authenticating a session user in a session initiated on a computing device according to any one of claims 1 to 4, wherein each of the set of possible authentication verifiers comprises a different respective number and wherein the selected authentication verifier being communicated to the computing device includes specifying at least one specific number to select from the respective numbers, and wherein providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device includes providing an interface displaying the respective numbers for selection by the user at the authentication device.

10. Method of authenticating a session user in a session initiated on a computing device according to claim 9, wherein step (v) includes determining if the respective number or numbers selected by the user at the authentication device matches the at least one specific number communicated to the computing device.

11. Method of authenticating a session user in a session initiated on a computing device according to any one of claims 1 to 4, wherein each of the set of possible authentication verifiers comprises a different respective button of a plurality of buttons and wherein the selected authentication verifier being communicated to the computing device includes specifying at least one specific button to select from the plurality of buttons, and wherein

providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device includes providing at least two of the plurality of buttons at the authentication device for selection by the user.

12. Method of authenticating a session user in a session initiated on a computing device according to any one of claims 1 to 4, wherein each of the set of possible authentication verifiers comprises a different respective pattern and wherein the selected authentication verifier being communicated to the computing device includes specifying at least one specific pattern from the respective patterns, and wherein providing, by the authentication server, at least two of the set of possible authentication verifiers for selection at the authentication device comprises providing an interface operable to receive a user drawing of a selected pattern at the authentication device.

13. Method of authenticating a session user in a session initiated on a computing device according to any one of claims 1 to 4, wherein the each of the set of possible authentication verifiers comprises a different respective location on the authentication device to be tapped.

14. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, further comprising selecting the set of possible authentication verifiers from a superset comprising a plurality of sets of possible authentication verifiers.

15. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, wherein the authentication device comprises at least one inertial measuring unit and wherein receiving an authentication device selection from the authentication device includes receiving data from the at least one inertial measuring unit.

16. Method of authenticating a session user in a session initiated on a computing device according to claim 15, wherein the authentication device comprises a plurality of inertial measuring units and wherein receiving an authentication device selection from the authentication device includes receiving data from each of the plurality of inertial measuring units.

17. Method of authenticating a session user in a session initiated on computing device according to any one of the preceding claims, wherein the authentication device comprises a token device.

18. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, wherein the computing device comprises one of a mobile device and a personal computer.

19. Method of authenticating a session user in a session initiated on a computing device according to any one of the preceding claims, wherein the identifier for the session comprises at least one of a username and a password.

20. An authentication server for authenticating a session user in a session initiated on a computing device, wherein the authentication server comprises at least one processor configured to perform the method of any one of claims 1 to 19.

21. A system for authenticating a session user in a session, the session comprising an identifier, the system comprising:
    a computing device configured to initiate the session;
    an authentication device associated with the identifier; and
    an authentication server communicatively coupled to the computing device and the authentication device, and configured to:

identify the authentication device from the identifier for the session,

identify a selection of an authentication verifier from a set of possible authentication verifiers for the session,

communicate the selected authentication verifier within the session to the computing device of the session user;

communicate at least two of the set of possible authentication verifiers including the selected authentication verifier to the authentication device for selection at the authentication device;

wherein the authentication device is arranged to receive a user's selection of an authentication device selection from the at least two of the set of possible authentication verifiers and to communicate the authentication device selection to the authentication server;

and wherein, the authentication server is further configured to determine if the authentication device selection matches the selected authentication verifier as communicated within the session to the computing device.

22. A system for authenticating a session user in a session according to claim 21, wherein the authentication device comprises at least one inertial measuring unit and wherein the authentication device is to configured to detect the user's selection of the authentication device selection using the at least one inertial measuring unit.

23. A system for authenticating a session user in a session according to claim 21 or 22, wherein the authentication device is arranged to display a graphical user interface and to receive the user's selection of the authentication device selection via an interaction of the user with the graphical user interface.

24. A system for authenticating a session user in a session according to any one of claims 21 to 23, wherein each of the set of possible authentication verifiers comprises a different respective drag direction for an object, and

wherein the authentication device is arranged to display the object and to detect dragging of the displayed object by the user in a user selected direction.

25. A system for authenticating a session user in a session according to any one of claims 21 to 23, wherein each of the set of possible authentication verifiers comprises a different number and wherein the authentication device is arranged to detect an input of a user selected number by the user.

26. A system for authenticating a session user in a session according to any one of claims 21 to 23, wherein each of the set of possible authentication verifiers comprises a different respective button and wherein the authentication device is arranged to display at least two of the different respective buttons and to detect tapping of a user selected button of the displayed at least two different respective buttons by the user.

27. A system for authenticating a session user in a session according to any one of claims 21 to 23, wherein each of the set of possible authentication verifiers comprises a different respective pattern and wherein the authentication device is arranged to detect drawing of a user selected pattern by the user.

28. A system for authenticating a session user in a session according to claim 21 or 23, wherein each of the set of possible authentication verifiers comprises a different respective location on the authentication device and wherein the authentication device is arranged to detect tapping of a user selected location on the authentication device by the user.

29. A system for authenticating a session user in a session according to any one of claims 21 to 28, wherein the authentication device comprises a token device.

30. A system for authenticating a session user in a session according to any one of claims21 to 29, further comprising an application server operable to host the session.

31. A computer-readable medium storing instructions which when executed by a processor cause the processor to perform the method of any one of claims 1 to 20.