CLAIMS:

1. A communication system comprising:

a first network communication subsystem connected over a communication network to a second network communication subsystem;

the first network communication subsystem comprising:

a processing circuity configured to execute a first application and being operatively connected to a database used for storing data related to the first application; a database manager operatively connected to the database; and a first network communication device;

the database manager is configured, in response to an indication of a data update, made at the first application, to: update the database according to the data update;

the first network communication device being operatively connected to the database and configured to:

respond to the database update by:

automatically generating a first network data-update message comprising data indicative of the database update; and

transmitting the first data-update message over the communication network to the second network communication subsystem; thereby enabling to use database updates for updating between applications running on different network communication subsystems without the need for database queries to be issued by the applications.

2. The communication system of claim 1, wherein

responsive to receiving a second network data-update message transmitted by the second network communication subsystem and indicative of a data update that occurred at a second application executed at the second network communication subsystem, the network communication device is configured

to extract the data from the network data-update message and update the database with the data extracted from the network data-update message;

the database manager is configured to respond to the database update by automatically providing the data pertaining to the database update to the application, thereby performing automatic data update to the first application induced by the database update.

3. The communication system of any one of the preceding claims, wherein the first application and the second application are identical or operationally compatible.

4. The communication system of any one of the preceding claims, wherein the first application is operatively connected to one or more input interfaces, each interface configured for receiving data input from a respective data source.

5. The communication system of any one of the preceding claims, wherein the first network data-update message further include metadata identifying a respective database entry that has been updated in the database.

6. The communication system of any one of the preceding claims, wherein the first application is indirectly connected for data transmission to the first network communication device via a database layer comprising the database and the database manager.

7. The communication system of any one of the preceding claims, wherein the first application is operatively connected to a database interface enabling communication of data between the first application and the database manager.

8. The communication system of any one of the preceding claims, wherein the network is a wireless network.

9. The communication system of claim 8, wherein the network is an RF network.

10. The communication system of any one of the preceding claims, wherein

the first network communication subsystem is mounted onboard a vehicle and the communication network is used for communication between vehicles in a fleet.

11. The communication system of claim 10 wherein the vehicle is an aerial platform and the fleet is an aerial vehicles fleet.

12. The communication system of any one of the preceding claims, wherein the database manager is further configured to forward data indicative of the database update to the first network communication device.

13. The communication system of any one of the preceding claims, wherein the database manager is configured to identify a difference between updated data corresponding to the data update and corresponding old data stored in the database before the update; and wherein the data indicative of the database update includes a re-constructible part of the data corresponding to the difference instead of the entire data.

14. The communication system of any one of claims 2 to 13, wherein the automatic updates to the first application are performed while the first application is in standby mode.

15. A communication system comprising:

a first network communication subsystem connected over a communication network to a second network communication subsystem;

the first network communication subsystem and the second network communication subsystem are each divided into a plurality of layers including an application layer, a database layer, and a network layer; wherein transmission of data updates between the application layer and the network layer is performed through the database layer;

wherein, in the first network communication subsystem:

the application layer comprises: a first processing circuity executing a first application; the database layer comprises a first database used for storing data related to the first application; the network layer comprises a network communication device;

the database layer is configured, in response to an indication of a data update, made at the application, to update the database according to the data update;

the network communication device is configured to respond to the database update by:

automatically generating a network data-update message comprising data indicative of the database update; and

transmitting the network data-update message over the communication network to the second network communication subsystem;

wherein, in the second network communication subsystem:

the application layer comprises: a second processing circuitry executing a second application; the database layer comprises a second database used for storing data related to the second application; the network layer comprises a second network communication device;

the second network communication device is configured, responsive to receiving the network data-update message transmitted by the first network communication subsystem, to:

extract the data from the network data-update message;

update the second database with the extracted data; and

the database layer is configured to respond to the database update made to the second database by automatically providing the data pertaining to the database update to the second application at the application layer, thereby performing automatic data update to the second application induced by the database update; thereby enabling to use database updates for updating between applications running on different network communication subsystems without the need for database queries to be issued by the applications.

16. A method of sharing data updates between network nodes connected over a communication network, the method comprising:

at a first network node, using at least one processing circuitry for:

executing a first application; the application being operatively connected to a first database used for storing data related to the first application;

in response to an indication of a data update, made at the first application, updating the database according to the data update;

responsive to the databased update, inducing an automatic response in a network communication device being operatively connected to the databased, the automatic response comprises:

generating a first network data-update message comprising data indicative of the database update; and

transmitting the first network data-update message over the communication network to at least one other network node connected over the communication network;

thereby enabling to use database updates for updating between applications running on different network communication subsystems without the need for database queries to be issued by the applications.

17. The method of claim 16 further comprising:

receiving a second network data-update message transmitted by a second network communication subsystem and indicative of a data update that occurred at a second application executed at the second network communication subsystem;

extracting the data from the second network data-update message;

executing a second database update in the database using the extracted data; and

following the second database update made to the database, inducing an automatic response comprising:

automatically providing the data pertaining to the second database update to the application, thereby performing automatic updates to the first application induced

by the database update.

18. The method of any one of claims 16 to 17, wherein the first application and the second application are identical or operationally compatible.

19. The method of any one of claims 16 to 18, wherein the first network data-update message further includes metadata identifying a respective database entry that has been updated in the first database.

20. The method of any one of claims 16 to 19, wherein the network is a wireless network.

21. The method of claim 20, wherein the network is an RF network.

22. The method of any one of claims 16 to 21, wherein the first network node is mounted onboard a vehicle and the communication network is used for communication between vehicles in a fleet.

23. The method of claim 22 wherein the vehicle is an aircraft.

24. The method of any one of claims 16 to 23 further comprising: at the first network node, identifying a difference between updated data corresponding to the data update and corresponding old data stored in the first database before the update; and wherein the data indicative of the database update includes a re-constructible part of the data corresponding to the difference.

25. The method of any one of claims 17 to 24 wherein

automatic update to the first application is performed while the first application is in standby mode.

26. A non-transitory computer readable storage medium tangibly embodying a program of instructions that, when executed by a computer, cause the computer to perform a method of sharing data updates between network nodes connected over a communication network, the method comprising:

at a first network node,:

executing a first application; the application being operatively connected to a

first database used for storing data related to the first application;

in response to an indication of a data update, made at the first application, updating the database according to the data update;

inducing an automatic response in a network communication device being operatively connected to the databased, the automatic response comprises:

generating a network data-update message comprising data indicative of the database update; and

transmitting the network data-update message over the communication network to at least one other network node connected over the communication network;

thereby enabling database updates to be used for updating between applications running on different network nodes without the need for database queries to be issued.

27. A non-transitory computer readable storage medium tangibly embodying a program of instructions that, when executed by a computer, cause the computer to perform a method of sharing data updates between network nodes connected over a communication network, the method comprising at a first network node connected to the communication network:

executing a first application, the first application being operatively connected to a first database used for storing data related to the first application;

receiving, at a network communication device via the communication network, a network data-update message indicative of a data update that occurred at a second application executed at a different network node;

extracting the data from the network data-update message;

executing a database update in the first database using the extracted data; and

following the database update made to the first database, providing the data pertaining to the database update to the first application, wherein the provision of data to the first application is automatically induced in response to the database

update;

thereby enabling to use database updates for updating between applications running on different network communication subsystems without the need for database queries to be issued by the applications.

28. A first network communication subsystem connectible over a communication network to a second network communication subsystem;

the first network communication subsystem comprising:

a processing circuitry executing an application and being operatively connected to a database, used for storing data related to the application; a database manager operatively connected to the database; and a network communication device;

the database manager is configured, in response to an indication of a data update, made at the application, to: update the database according to the data update;

the network communication device being operatively connected to the database and configured to automatically respond to the database update by:

generating a network data-update message comprising data indicative of the database update; and

transmitting the network data-update message over the communication network to the second network communication subsystem;

thereby enabling the first network communication subsystem to use database updates for updating applications running on the second network communication subsystem without the need for database queries.

29. The first network communication subsystem of claim 28, wherein responsive to receiving a network data-update message transmitted by the second network communication subsystem and indicative of a data update that occurred at a second application executed at the second network communication subsystem, the network communication device is configured to:

extract data from the network data-update message; and

update the database with the extracted data;

the database manager is configured to respond to the database update by automatically providing the data pertaining to the database update to the application, thereby performing automatic updates to the application induced by the database update.