

CLAIMS

What is claimed is:

1. A wireless transmit/receive unit (WTRU) comprising:
a processor configured to:
receive a broadcast frame, wherein the broadcast frame includes per-service information;
receive origin authentication information;
determine to use a service indicated in the broadcast frame;
receive a broadcast data frame associated with a single service, wherein the broadcast data frame is associated with the broadcast frame, and wherein the single service is the service indicated in the broadcast frame; and
use the origin authentication information to authenticate the broadcast data frame associated with the single service.
2. The WTRU of claim 1, wherein the per-service information includes a service definition, and wherein the origin authentication information includes a per-service authentication parameter.
3. The WTRU of claim 1, wherein the origin authentication information is included in the broadcast frame, and wherein the origin authentication information is per-service authentication information.
4. The WTRU of claim 3, wherein the per-service information and the origin authentication information included in the broadcast frame is associated with the single service.
5. The WTRU of claim 1, wherein the origin authentication information is common to frames associated with different services.
6. The WTRU of claim 1, wherein the processor is further configured to send a frame that indicates one or more services that the WTRU is using.
7. The WTRU of claim 6, wherein the frame that indicates one or more services that the WTRU is using is sent in response to reception of a frame that requests the WTRU indicate the one or more services that the WTRU is using.

8. The WTRU of claim 7, wherein the frame that indicates one or more services that the WTRU is using includes one or more respective identifiers associated with the indicated one or more services.
9. The WTRU of claim 1, wherein the service is used without the WTRU having sent a query to an originating device that provides the service.
10. The WTRU of claim 1, wherein the broadcast frame carries information for multiple services.
11. A method comprising:
 - receiving a broadcast frame, wherein the broadcast frame includes per-service information;
 - receiving origin authentication information;
 - determining to use a service indicated in the broadcast frame;
 - receiving a broadcast data frame associated with a single service, wherein the broadcast data frame is associated with the broadcast frame, and wherein the single service is the service indicated in the broadcast frame; and
 - using the origin authentication information to authenticate the broadcast data frame associated with the single service.
12. The method of claim 11, wherein the per-service information includes a service definition, and wherein the origin authentication information includes a per-service authentication parameter.
13. The method of claim 11, wherein the origin authentication information is included in the broadcast frame, and wherein the origin authentication information is per-service authentication information.
14. The method of claim 13, wherein the per-service information and the origin authentication information included in the broadcast frame is associated with the single service.
15. The method of claim 11, further comprising:
 - sending a frame that indicates one or more services that a WTRU is using.
16. The method of claim 11, wherein the service is used without sending a query to an originating device that provides the service.