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.

Claims

1. A wireless transmit/receive unit (WTRU) comprising:

a processor; and

a transceiver, wherein

the transceiver and the processor are configured to:

receive a broadcast frame, wherein the broadcast frame includes per-service information and per-service origin authentication information, wherein the per-service information includes first service information for a first service and second service information for a second service, and wherein the per-service origin authentication information includes a first origin authentication information and a second origin authentication information;

receive a broadcast data frame for a service, wherein the service is the first service associated with the first service information included in the broadcast frame; and

use the first origin authentication information to authenticate the broadcast data frame associated with the first service.

2. The WTRU of claim 1, wherein the WTRU includes a station (STA).

3. The WTRU of claim 1, wherein the first service information includes a first service identifier, a first content with a first restrictions indicator, a first human readable description, and a first URL, and wherein the second service information includes a second service identifier, a second content with a second restrictions indicator, a second human readable description, and a second URL.

4. The WTRU of claim 1, wherein the processor is further configured to:

use the service indicated in the broadcast frame based on a successful authentication.

5. The WTRU of claim 1, wherein the per-service information includes a service definition, and wherein the per-service origin authentication information includes a per-service authentication parameter.

6. The WTRU of claim 1, wherein a portion of the per-service origin authentication information included in the broadcast frame is associated with the first service.

7. The WTRU of claim 1, wherein at least a portion of the per-service origin authentication information is common to frames associated with different services.

8. The WTRU of claim 1, wherein the processor is further configured to send a request that indicates one or more services to be used by the WTRU, wherein the request that indicates the one or more services to be used by the WTRU includes one or more respective identifiers associated with one or more devices associated with transmission of the indicated one or more services.

9. The WTRU of claim 1, wherein the processor is further configured to use the first service indicated in the broadcast frame, and wherein the first service is used without a query being sent from the WTRU to an originating device that provides the first service.

10. A method comprising:

receiving a broadcast frame, wherein the broadcast frame includes per-service information and per-service origin authentication information, wherein the per-service information includes first service information for a first service and second service information for a second service, and wherein the per-service origin authentication information includes first origin authentication information and second origin authentication information;

receiving a broadcast data frame for a service, wherein the service is the first service associated with the first service information included in the broadcast frame; and

using the first origin authentication information to authenticate the broadcast data frame associated with the first service.

11. The method of claim 10, wherein the first service information includes a first service identifier, a first content with a first restrictions indicator, a first human readable description, and a first URL, and wherein the second service information includes a second service identifier, a second content with a second restrictions indicator, a second human readable description, and a second URL.

12. The method of claim 10, further comprising using the service indicated in the broadcast frame based on a successful authentication.

13. The method of claim 10, wherein the per-service information includes a service definition, and wherein the per-service origin authentication information includes a per-service authentication parameter.

14. The method of claim 10, wherein a portion of the per-service origin authentication information included in the broadcast frame is associated with the first service.