unique for the input stream constituted by the split stream; and generating a stream of a physical layer(PL)frame having channel bonding signaling, wherein the signature information is contained in an extension PL header of the PL frame.

[0010]

The above data processing device and data processing method split an input stream into a split stream for each of a plurality of channels, and generate a stream including the split stream, and signature information unique for each of the input streams containing the split stream.

[0011]

According to a third aspect of the present invention, there is provided a data processing device comprising: processing circuitry configured to process a stream transmitted from a transmitting device, wherein the transmitting device includes processing circuitry configured to split an input stream into a split stream for each of a plurality of channels, generate a stream including the split stream, and signature information unique for the input constituted by the split stream, and generate a stream of a physical layer(PL)frame having channel bonding signaling, wherein the signature information is contained in an extension PL header of the PL frame.

[0012]

According to a fourth aspect of the present invention, there is provided a data processing method comprising: splitting, via processing circuitry of a transmitting device, an input stream into a split stream for each of a plurality of channels, generating, via the processing circuitry, a stream including the split stream, and signature information unique for the input stream constituted by the split stream, generating a stream of a physical layer(PL)frame having channel bonding signaling, transmitting, via processing circuitry, the stream to a data processing device, and processing, at a data processing device, the stream received

from the transmitting device, wherein the signature information is contained in an extension PL header of the PL frame.

[0013]

The above data processing device and data processing method process a stream transmitted from a transmitting device including a split unit that splits an input stream into a split stream for each of a plurality of channels, and a generation unit that generates a stream including the split stream, and signature information unique for each of the input streams containing the split stream.

[0014]

The data processing device may be an individual device, or an internal block constituting one device.

EFFECTS OF THE INVENTION

[0015]

According to embodiments of the present invention, appropriate stream processing is achievable.

[0016]

Advantages to be offered are not limited to these advantages, but may be any of advantages described in the present disclosure.

BRIEF DESCRIPTION OF DRAWINGS

[0017]

Fig. 1 is a block diagram illustrating a configuration example of a transmission system according to an embodiment of the present technology.

Fig. 2 is a block diagram illustrating a configuration example of a transmitting device 11.

Fig. 3 is a flowchart describing a process (transmitting process) performed by the transmitting device 11.

CLAIMS

1. A data processing device comprising:
processing circuitry configured to
split an input stream into a split stream for each of a plurality of channels;
generate a stream including the split stream, and signature information unique for the input stream constituted by the split stream; and
generate a stream of a physical layer (PL) frame having channel bonding signaling,
wherein the signature information is contained in an extension PL header of the PL frame.

2. The data processing device according to claim 1, wherein
wherein the processing circuitry generates a stream that includes the split stream, the signature information, and location information about a transmission frequency band of a split stream constituting the input stream and different from the split stream included in the generated stream.

3. The data processing device according to claim 1, wherein
the PL frame is a PL frame of DVB-S2, and
the signature information is contained in an extension PL header of the PL frame of DVB-S2.

4. The data processing device according to claim 2, wherein
the PL frame is a PL frame of DVB-S2, and
the signature information and the location information are contained in an extension PL header of the PL frame of DVB-S2.

5. A data processing method comprising steps of:

splitting, via processing circuitry, an input stream into a split stream for each of a plurality of channels;

generating a stream including the split stream, and signature information unique for the input stream constituted by the split stream; and

generating a stream of a physical layer (PL)frame having channel bonding signaling,

wherein the signature information is contained in an extension PL header of the PL frame.

6. A data processing device comprising:

processing circuitry configured to process a stream transmitted from a transmitting device, wherein the transmitting device includes

processing circuitry configured to split an input stream into a split stream for each of a plurality of channels,

generate a stream including the split stream, and signature information unique for the input constituted by the split stream, and

generate a stream of a physical layer (PL)frame having channel bonding signaling,

wherein the signature information is contained in an extension PL header of the PL frame.

7. The data processing device according to claim 6, wherein

the processing circuitry of the transmitting device generates a stream that includes the split stream, the signature information, and location information about a transmission frequency band of a split stream constituting the input stream and different from the split stream included in the generated stream.

8. The data processing device according to claim 6, wherein the PL frame is a PL frame of DVB-S2, and

the signature information is contained in an extension PL header of the PL frame of DVB-S2.

9. The data processing device according to claim 7, wherein the PL frame is a PL frame of DVB-S2, and

the signature information and the location information are contained in an extension PL header of the PL frame of DVB-S2.

10. A data processing method comprising:

splitting, via processing circuitry of a transmitting device, an input stream into a split stream for each of a plurality of channels,

generating, via the processing circuitry, a stream including the split stream, and signature information unique for the input stream constituted by the split stream,

generating a stream of a physical layer (PL)frame having channel bonding signaling,

transmitting, via processing circuitry, the stream to a data processing device, and

processing, at a data processing device, the stream received from the transmitting device,

wherein the signature information is contained in an extension PL header of the PL frame.